

CodeArts Repo

API Reference

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1 Before You Start

Welcome to CodeArts Repo. CodeArts Repo incorporates experience in managing hundreds of billions of lines of code. It is a Git-based code hosting service that allows you to clone, pull, commit, push, compare, merge, and review code online, as well as create branches.

This document describes how to use APIs to perform operations on CodeArts Repo, such as creating a repository, adding a deploy key, and adding repository members. For details about all supported operations, see [API Overview](#).

If you plan to access CodeArts Repo using an API, ensure that you are familiar with CodeArts Repo concepts. For details, see [Product Overview](#).

Endpoints

[The following table](#) lists the endpoints of CodeArts Repo. Select a desired one based on the service requirements.

Table 1-1 CodeArts Repo endpoints

Region Name	Region	Endpoint	Protocol
EU-Dublin	eu-west-101	codeartsrepo-ext.eu-west-101.myhuaweicloud.eu	HTTPS

Concepts

- Account

An account is created upon successful registration with Huawei Cloud. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used directly to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.
- User

A user is created using a domain to use cloud services. Each user has its own identity credentials (password and access keys).

An IAM user can view the account ID and user ID on the [My Credentials](#) page of the console. The account name, username, and password will be required for API authentication.

- Region

Regions are divided from the dimensions of geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants.

For details, see [Region and AZ](#).

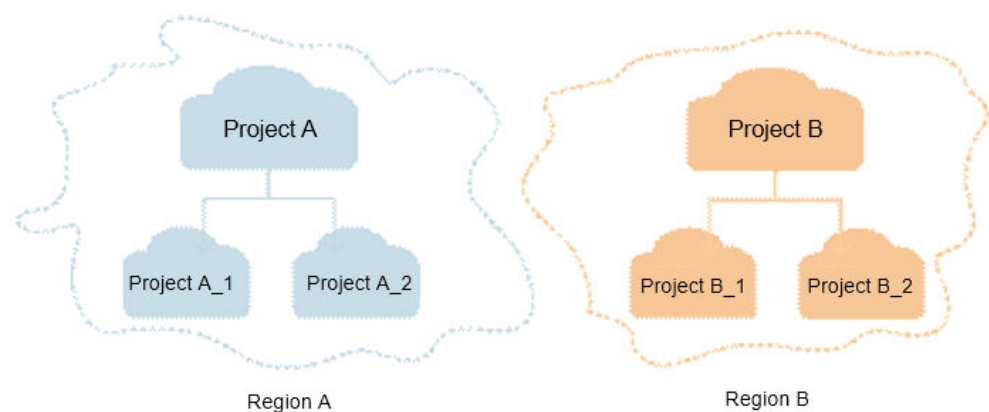
- Availability zone (AZ)

An AZ contains one or more physical data centers. Each AZ has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an AZ, computing, network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.

- Project

A project corresponds to a region. Default projects are defined to group and physically isolate resources (including compute, storage, and network resources) between different regions. Users can be granted permissions in a default project to access all resources under their accounts in the region associated with the project. For more refined access control, create subprojects under a project and create resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

Figure 1-1 Project isolation model



You can obtain the project ID on the [My Credentials](#) page.

- Git

Distributed version management software originally authored by Linus Torvalds.

- **Branching**
Branching, in version control and software configuration management, is the duplication of an object (such as a program or a piece of software). Each object can thereafter be modified separately and in parallel so that the objects become different. In this context the objects are called branches. Branches are also known as trees, streams or codelines. The originating branch is sometimes called the parent branch or the upstream branch. Child branches are branches that have a parent branch. A branch without a parent is referred to as the trunk or the mainline.
- **Revision Tag/Tag**
A revision tag is a textual label that can be associated with a specific revision of a project maintained by a version control system. This allows the user to define a meaningful name to be given to a particular state of a project that is under version control. This label can then be used in place of the revision identifier for commands supported by the version control system. For example, in software development, a tag may be used to identify a specific release of the software such as "version 1.2".
- **Fork**
In software engineering, a project fork happens when developers take a copy of source code from one software package and start independent development on it, creating a distinct and separate piece of software. The term often implies not merely a development branch, but also a split in the developer community; as such, it is a form of schism.
After GitHub appeared, fork became the norm. Forking and merge requests (MRs) together make communities more active instead of divided.
- **Pull requests (PRs)/MRs**
You can request for merging your own code (written in the fork repository or in a new branch). Code repository administrators review requests and merge the code.

2 API Overview

SSH Key APIs

Table 2-1 SSH key APIs

API	Description
Checking Whether a Private Key Can Be Used to Pull Code	Check whether a private key has the permission to pull code.

Repository APIs

You can call these APIs to create and delete repositories, and collect repository statistics to manage repositories.

Table 2-2 Repository APIs

API	Description
Obtaining Repository Statistics	Obtain repository statistics.
Obtaining Image Files of a Specific Branch in a Repository	Obtain image files of a specific branch in a repository.
Modifying the Status of a Repository Referenced by a Pipeline	Modify the status of a repository referenced by a pipeline.
Checking Whether a User Has the Repository Administrator Permission	Check whether a user has the repository administrator permission.

API	Description
Setting a Repository to Public or Private	Indicate whether a repository is public or private.
Obtaining the Content of a Specified File in a Repository Branch	Obtain the content of a specified file in a specified branch of a repository.
Creating a Repository	Create a repository on a specified project with the specified name. Input parameters include the repository name, template ID, whether to import project members, and home project.
Obtaining a Repository Short ID to Generate the Details Page URL	Obtain the short ID of a repository, which is used to obtain the URL of the repository details page.
Querying a Commit of a Branch by Repository or Repository Group Name	Obtain the commit list by repository group name, repository name, and branch.
Querying a Commit of a Repository Branch by the Repository ID	Query the commit of a repository branch based on the repository ID.
Adding a Deploy Key	Add a deployment key.
Deleting a Deploy Key	Delete the repository deployment key.
Obtaining the Last Commit Statistics of a Repository	Obtain the last commit statistics of the repository.
Repository Statistics	Query code commit record statistics of a repository based on the repository short ID.
Deleting a Repository	Delete a repository based on the 32-bit UUID of the repository.
Viewing a Repository Creation Status	Obtain the repository status.
Obtaining the Number of Committed Code Lines	Obtain the number of committed code lines of a specified branch in the code repository on a specified date.

Repository Member APIs

Table 2-3 Repository member APIs

API	Description
Deleting a Repository Member	Delete repository members

Commit APIs

Table 2-4 Commit APIs

API	Description
Querying a Commit Message of a Repository	Obtain commit information based on the repository short ID. The list of all commits in the path can be queried based on the file path.

Repository File APIs

Table 2-5 Repository file APIs

API	Description
Querying File Information in a Repository	Obtain information about files in the repository, such as the name, size, and content. Note that the file content is encoded using Base64.

User APIs

Table 2-6 User APIs

API	Description
Verifying HTTPS Account and Password	Check whether the HTTPS username and password entered when you upload or download code are valid.

Webhook

API	Description
Querying a Webhook of a Specified Repository	Obtain the repository webhook.
Adding a Hook to a Specified Repository	A code commit automatically triggers building and addition of a repository hook.
Deleting a Hook from a Specified Repository	A code commit automatically triggers building and deletion of a repository hook.

Project APIs

You can call these APIs to query the list of all public repositories in a project and obtain information about all repositories in a project.

Table 2-7

API	Description
Obtaining the List of Repositories that Can be Set to Public under a Project	Obtain the list of repositories that can be set to the public state under a project.
Verifying a Repository Name of a Specified Project	This API is called when a repository is created. The project UUID and repository name are transferred, and the CoudeHubAdapter API is called to query the database to check whether the repository name is duplicate.
Verifying a Repository Name of a Specified Project	Obtain the repository list. Fuzzy query is supported: If <i>project_id</i> is not specified, fuzzy search by repository name or project name is supported. Otherwise, only fuzzy search by repository name is supported.

3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API request. The API in [Obtaining the SSH Key List \(Deprecated\)](#) is taken as an example to demonstrate how to call a CodeArts Repo API.

Request URI

The format of a request URI is as follows:

{URI-scheme}://{Endpoint}/{resource-path}?{query-string}

Although a request URI is included in the request header, most programming languages or frameworks require the request URI to be transmitted separately.

- **URI-scheme:** Protocol used to transmit requests. All APIs use HTTPS.
- **Endpoint:** Domain name or IP address of the server bearing the REST service endpoint. Obtain the value from [Regions and Endpoints](#).
- **resource-path:** Access path of an API for performing a specified operation. Obtain the value from the URI of an API. For example, the **resource-path** of the API for obtaining a user token is **/v3/auth/tokens**.
- **query-string:** optional query parameter. Ensure that a question mark (?) is included before a query parameter that is in the format of "Parameter name=Parameter value". For example, **? limit=10** indicates that a maximum of 10 pieces of data is to be viewed.

For example, to obtain the SSH key list in the **EU-Dublin** region, obtain the endpoint of CodeArts Repo (**codeartsrepo-ext.eu-west-101.myhuaweicloud.eu**) for this region and the **resource-path** (**v1/users/sshkey**) in the URI of the API used to obtain the SSH key list ([Obtaining the SSH Key List \(Deprecated\)](#)). Then, construct the URI as follows:

```
https://codeartsrepo-ext.eu-west-101.myhuaweicloud.eu/v1/users/sshkey
```

 NOTE

To simplify the URI display in this document, each API is provided only with a **resource-path** and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

Request Method

The HTTP protocol defines the following four request methods that can be used to send a request to CodeArts Repo:

- **GET**: requests the server to return specified resources.
- **PUT**: requests the server to update specified resources.
- **POST**: requests the server to add resources or perform special operations.
- **DELETE**: requests the server to delete specified resources, such as an object.

For example, in the case of the API used to obtain the SSH key list (see [Obtaining the SSH Key List \(Deprecated\)](#)), the request method is GET. The request is as follows:

```
GET https://codeartsrepo-ext.eu-west-101.myhuaweicloud.eu/v1/users/sshkey
```

Request Header

You can add additional fields, for example, the fields required by a specified URI or HTTP method, to a request header. For example, to request for the authentication information, add **Content-Type**, which specifies the request body type.

Common request header fields:

- **Content-Type**: specifies the request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.
- **X-Auth-Token**: A user token only for token-based API authentication. The user token is a response to the API used to [obtain a user token](#). This API is the only one that does not require authentication.

 NOTE

In addition to supporting token-based authentication, public cloud APIs also support authentication using AK/SK. During AK/SK-based authentication, an SDK is used to sign the request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request.

For more information, see [AK/SK-based Authentication](#).

The API used to [obtain a user token](#) does not require authentication. Therefore, only the **Content-Type** field needs to be added to requests for calling the API. An example of such requests is as follows:

```
POST https://iam.eu-west-101.huaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

Request Body

A request body is generally sent in structured format. It corresponds to **Content-Type** in the request header and transfers content except the request header.

The request body varies according to APIs. Certain APIs do not require the request body, such as GET and DELETE.

In the case of the API used to [obtain a user token](#), the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace ***username***, ***domainname***, *********** (login password), and ***xxxxxxxxxx*** (project ID, for example, cn-north-1) with the actual values. To learn how to obtain a project ID, see [Regions and Endpoints](#).

NOTE

The **scope** parameter specifies where a token takes effect. In the following example, the token takes effect only for the resources in a specified project. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see [Obtaining a User Token](#)

POST https://iam.eu-west-101.huaweicloud.com/v3/auth/tokens Content-Type: application/json

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "password": "*****",
          "domain": {
            "name": "domainname"
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxxxxx"
      }
    }
  }
}
```

If all data required for the API request is available, you can send the request to call the API through [curl](#), [Postman](#), or coding. In the response to the API used to [obtain a user token](#), **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

3.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair.

Token-based Authentication

NOTE

The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the Identity and Access Management (IAM) API for obtaining a user token.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API.

When calling the API to **obtain a user token**, you must set **auth.scope** in the request body to **project**.

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "password": "*****",
          "domain": {
            "name": "domainname"
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxx"
      }
    }
  }
}
```

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFJ....** should be added to a request as follows:

```
GET https://iam.eu-west-101.huaweicloud.com/v3/auth/projects Content-Type: application/json
X-Auth-Token: ABCDEFJ...
```

AK/SK-based Authentication

NOTE

AK/SK authentication supports API requests with a body no larger than 12 MB. For API requests with a larger body, use token authentication.

In AK/SK-based authentication, AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID. It is a unique ID associated with an SK. AK is used together with SK to sign requests.
- SK: secret access key. It is used together with an access key ID to identify a sender who initiates a request and to cryptographically sign requests, preventing the request from being modified.

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about

how to sign requests and use the signing SDK, see [AK/SK Signing and Authentication Guide](#).

NOTICE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

3.3 Response

Status Code

After sending a request, you will receive a response, including a status code, response header, and response body.

A status code is a group of digits, ranging from 1xx to 5xx. It indicates the status of a request. For more information, see [Status Codes](#).

For example, if status code **200** is returned for calling the API used to obtain the SSH key list (see [Obtaining the SSH Key List \(Deprecated\)](#)), the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **Content-Type**.

Figure 3-1 shows the response header fields for the API used to [obtain a user token](#). The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 3-1 Header fields of the response to the request for obtaining a user token

```
connection → keep-alive
content-type → application/json
date → Tue, 12 Feb 2019 06:52:13 GMT
server → Web Server
strict-transport-security → max-age=31536000; includeSubdomains;
transfer-encoding → chunked
via → proxy A
x-content-type-options → nosniff
x-download-options → noopen
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → [REDACTED]
x-xss-protection → 1; mode=block;
```

Response Body

The body of a response is often returned in structured format as specified in the **Content-Type** header field. The response body transfers content except the response header.

For the API used to [obtain a user token](#), the response body is as follows: The following example is part of the response body for the API used to obtain a user token:

```
{
  "token": {
    "expires_at": "2019-02-13T06: 52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "eu-west-101", .....

```

If an error occurs during API calling, an error code and the corresponding error message will be displayed. The following shows an error response body:

```
{
  "error_msg": "The format of message is error",
  "error_code": "AS.0001"
}
```

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

4 APIs

4.1 V4

4.1.1 WebHook

4.1.1.1 Obtaining the Log Lists of Specified Webhooks in Repositories

Function

This API is used to obtain the log lists of specified Webhooks in repositories.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/hooks/{hook_id}/logs

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Table 4-2 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Parameter	Mandatory	Type	Description
uuid	No	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. UUIDs are unique. The UUID in the Webhook event related to a merge request will include the merge request IID. You can use the complete UUID or merge request IID. Constraints: Optional. Value range: 1 to 100 characters. Default value: N/A.
created_after	No	String	Definition: Start time of the search execution period.
created_before	No	String	Definition: End time of the search execution period.

Request Parameters

Table 4-3 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-4 Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of results of the current request.

Table 4-5 Response body parameters

Parameter	Type	Description
[items]	Array of WebhookLogDto objects	Definition: Webhook execution log data.

Table 4-6 WebhookLogDto

Parameter	Type	Description
id	Integer	Definition: Webhook log ID. Value range: 1~2147483647
web_hook_id	Integer	Definition: Webhook ID. Value range: 1~2147483647
trigger	String	Definition: Trigger type.
url	String	Definition: Request address.
response_status	String	Definition: Response status. The default value is the response code. If the Webhook address does not return a response or other exceptions occur, internal error is recorded.

Parameter	Type	Description
execution_duration	Double	Definition: Response duration, in seconds. Value range: 0~300
uuid	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. The value here is the uuid field of the record.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.

Status code: 401**Table 4-7** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-8** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/1/hooks/1/logs
```

Example Responses

Status code: 200

OK

```
[ {
  "id" : 664135687,
  "web_hook_id" : 990085,
  "trigger" : "push_hooks",
  "url" : "http://demo.com",
  "response_status" : "200",
  "execution_duration" : 0.01,
  "created_at" : "2025-05-23T14:54:37.780+08:00",
  "updated_at" : "2025-05-23T14:54:37.780+08:00",
  "uuid" : "161f36e5-fe6c-428d-9c17-1ce833f810e6"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.2 Obtaining Details About Specified Logs of Specified Webhooks in Repositories

Function

Obtaining Details About Specified Logs of Specified Webhooks in Repositories

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/hooks/{hook_id}/logs/{log_id}

Table 4-9 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647
log_id	Yes	Integer	Definition: Webhook log ID. Value range: 1~2147483647

Request Parameters

Table 4-10 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-11** Response body parameters

Parameter	Type	Description
id	Integer	Definition: Webhook log ID. Value range: 1~2147483647
web_hook_id	Integer	Definition: Webhook ID. Value range: 1~2147483647
trigger	String	Definition: Trigger type.
url	String	Definition: Request address.

Parameter	Type	Description
response_status	String	Definition: Response status. The default value is the response code. If the Webhook address does not return a response or other exceptions occur, internal error is recorded.
execution_duration	Double	Definition: Response duration, in seconds. Value range: 0~300
uuid	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. The value here is the uuid field of the record.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
request_headers	Object	Definition: Request header. Sensitive information, such as the transferred token, will be hidden here.
request_data	Object	Definition: Request body. The email address will be hidden here.
response_headers	Object	Definition: Response header.
response_body	Object	Definition: Response body.

Status code: 401**Table 4-12** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403**Table 4-13** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/1/hooks/1/logs/1
```

Example Responses

Status code: 200

OK

```
{
  "id" : 664135687,
  "web_hook_id" : 990085,
  "trigger" : "push_hooks",
  "url" : "http://demo.com",
  "response_status" : "200",
  "execution_duration" : 0.01,
  "created_at" : "2025-05-23T14:54:37.780+08:00",
  "updated_at" : "2025-05-23T14:54:37.780+08:00",
  "uuid" : "161f36e5-fe6c-428d-9c17-1ce833f810e6",
  "request_headers" : {
    "Content-Type" : "application/json"
  },
  "request_data" : {
    "object_kind" : "push"
  },
  "response_headers" : {
    "Content-Length" : 0
  },
  "response_body" : "{\"result\": \"success\"}"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```


Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.1.3 Obtaining the Log Lists of Specified Webhooks in Projects****Function**

This API is used to obtain the log lists of specified Webhooks in repository groups.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/hooks/{hook_id}/logs

Table 4-14 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Parameter	Mandatory	Type	Description
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Table 4-15 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
repository_id	No	Integer	Definition: Repository ID. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
uuid	No	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. UUIDs are unique. The UUID in the Webhook event related to a merge request will include the merge request IID. You can use the complete UUID or merge request IID. Constraints: Optional. Value range: 1 to 100 characters. Default value: N/A.
created_after	No	String	Definition: Start time of the search execution period.
created_before	No	String	Definition: End time of the search execution period.

Request Parameters

Table 4-16 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-17 Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of results of the current request.

Table 4-18 Response body parameters

Parameter	Type	Description
[items]	Array of WebhookLogExtendDto objects	Definition: Webhook execution log data, including the repository information.

Table 4-19 WebhookLogExtendDto

Parameter	Type	Description
id	Integer	Definition: Webhook log ID. Value range: 1~2147483647
web_hook_id	Integer	Definition: Webhook ID. Value range: 1~2147483647
trigger	String	Definition: Trigger type.
url	String	Definition: Request address.
response_status	String	Definition: Response status. The default value is the response code. If the Webhook address does not return a response or other exceptions occur, internal error is recorded.

Parameter	Type	Description
execution_duration	Double	Definition: Response duration, in seconds. Value range: 0~300
uuid	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. The value here is the uuid field of the record.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
repository	WebhookRepositoryDto object	Definition: Basic information about the repositories associated with the Webhook execution logs.

Table 4-20 WebhookRepositoryDto

Parameter	Type	Description
id	Integer	Definition: Repository ID. Value range: 1~2147483647
namespace	String	Definition: Repository path.

Status code: 401**Table 4-21** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-22** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1/logs
```

Example Responses**Status code: 200**

OK

```
[ {
  "id" : 664135687,
  "web_hook_id" : 990085,
  "trigger" : "push_hooks",
  "url" : "http://demo.com",
  "response_status" : "200",
  "execution_duration" : 0.01,
  "created_at" : "2025-05-23T14:54:37.780+08:00",
  "updated_at" : "2025-05-23T14:54:37.780+08:00",
  "uuid" : "161f36e5-fe6c-428d-9c17-1ce833f810e6",
  "repository" : {
    "id" : 1,
    "namespace" : "group/hello"
  }
}]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.4 Obtaining the Details of Specified Logs of Specified Webhooks in Projects

Function

This API is used to obtain the details of specified logs of specified Webhooks in projects.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/hooks/{hook_id}/logs/{log_id}

Table 4-23 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
log_id	Yes	Integer	Definition: Webhook log ID. Value range: 1~2147483647

Request Parameters

Table 4-24 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-25 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Webhook log ID. Value range: 1~2147483647
web_hook_id	Integer	Definition: Webhook ID. Value range: 1~2147483647

Parameter	Type	Description
trigger	String	Definition: Trigger type.
url	String	Definition: Request address.
response_status	String	Definition: Response status. The default value is the response code. If the Webhook address does not return a response or other exceptions occur, internal error is recorded.
execution_duration	Double	Definition: Response duration, in seconds. Value range: 0~300
uuid	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. The value here is the uuid field of the record.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
request_headers	Object	Definition: Request header. Sensitive information, such as the transferred token, will be hidden here.
request_data	Object	Definition: Request body. The email address will be hidden here.
response_headers	Object	Definition: Response header.
response_body	Object	Definition: Response body.

Status code: 401

Table 4-26 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-27 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1/logs/1

Example Responses

Status code: 200

OK

```
{
  "id" : 664135687,
  "web_hook_id" : 990085,
  "trigger" : "push_hooks",
  "url" : "http://demo.com",
  "response_status" : "200",
  "execution_duration" : 0.01,
  "created_at" : "2025-05-23T14:54:37.780+08:00",
  "updated_at" : "2025-05-23T14:54:37.780+08:00",
  "uuid" : "161f36e5-fe6c-428d-9c17-1ce833f810e6",
  "request_headers" : {
    "Content-Type" : "application/json"
  },
  "request_data" : {
    "object_kind" : "push"
  },
  "response_headers" : {
    "Content-Length" : 0
  },
  "response_body" : "{\"result\": \"success\"}"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.1.5 Obtaining the Log Lists of Specified Webhooks in Repository Groups****Function**

This API is used to obtain the log lists of specified Webhooks in repository groups.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/hooks/{hook_id}/logs

Table 4-28 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Table 4-29 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
repository_id	No	Integer	Definition: Repository ID. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
uuid	No	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. UUIDs are unique. The UUID in the Webhook event related to a merge request will include the merge request IID. You can use the complete UUID or merge request IID. Constraints: Optional. Value range: 1 to 100 characters. Default value: N/A.
created_after	No	String	Definition: Start time of the search execution period.
created_before	No	String	Definition: End time of the search execution period.

Request Parameters

Table 4-30 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-31 Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of results of the current request.

Table 4-32 Response body parameters

Parameter	Type	Description
[items]	Array of WebhookLogExtendDto objects	Definition: Webhook execution log data, including the repository information.

Table 4-33 WebhookLogExtendDto

Parameter	Type	Description
id	Integer	Definition: Webhook log ID. Value range: 1~2147483647
web_hook_id	Integer	Definition: Webhook ID. Value range: 1~2147483647
trigger	String	Definition: Trigger type.
url	String	Definition: Request address.
response_status	String	Definition: Response status. The default value is the response code. If the Webhook address does not return a response or other exceptions occur, internal error is recorded.

Parameter	Type	Description
execution_duration	Double	Definition: Response duration, in seconds. Value range: 0~300
uuid	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. The value here is the uuid field of the record.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
repository	WebhookRepositoryDto object	Definition: Basic information about the repositories associated with the Webhook execution logs.

Table 4-34 WebhookRepositoryDto

Parameter	Type	Description
id	Integer	Definition: Repository ID. Value range: 1~2147483647
namespace	String	Definition: Repository path.

Status code: 401**Table 4-35** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-36** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/1/hooks/1/logs
```

Example Responses**Status code: 200**

OK

```
[ {
  "id" : 664135687,
  "web_hook_id" : 990085,
  "trigger" : "push_hooks",
  "url" : "http://demo.com",
  "response_status" : "200",
  "execution_duration" : 0.01,
  "created_at" : "2025-05-23T14:54:37.780+08:00",
  "updated_at" : "2025-05-23T14:54:37.780+08:00",
  "uuid" : "161f36e5-fe6c-428d-9c17-1ce833f810e6",
  "repository" : {
    "id" : 1,
    "namespace" : "group/hello"
  }
}]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```


Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.6 Obtaining the Details of Specified Logs of Specified Webhooks in Repository Groups

Function

This API is used to obtain the details of specified logs of specified Webhooks in repository groups.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/hooks/{hook_id}/logs/{log_id}

Table 4-37 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
log_id	Yes	Integer	Definition: Webhook log ID. Value range: 1~2147483647

Request Parameters

Table 4-38 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-39 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Webhook log ID. Value range: 1~2147483647
web_hook_id	Integer	Definition: Webhook ID. Value range: 1~2147483647

Parameter	Type	Description
trigger	String	Definition: Trigger type.
url	String	Definition: Request address.
response_status	String	Definition: Response status. The default value is the response code. If the Webhook address does not return a response or other exceptions occur, internal error is recorded.
execution_duration	Double	Definition: Response duration, in seconds. Value range: 0~300
uuid	String	Definition: Each time the Webhook sends a message, the request body contains the uuid field. The value here is the uuid field of the record.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
request_headers	Object	Definition: Request header. Sensitive information, such as the transferred token, will be hidden here.
request_data	Object	Definition: Request body. The email address will be hidden here.
response_headers	Object	Definition: Response header.
response_body	Object	Definition: Response body.

Status code: 401

Table 4-40 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-41** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/1/hooks/1/logs/1
```

Example Responses

Status code: 200

OK

```
{
  "id" : 664135687,
  "web_hook_id" : 990085,
  "trigger" : "push_hooks",
  "url" : "http://demo.com",
  "response_status" : "200",
  "execution_duration" : 0.01,
  "created_at" : "2025-05-23T14:54:37.780+08:00",
  "updated_at" : "2025-05-23T14:54:37.780+08:00",
  "uuid" : "161f36e5-fe6c-428d-9c17-1ce833f810e6",
  "request_headers" : {
    "Content-Type" : "application/json"
  },
  "request_data" : {
    "object_kind" : "push"
  },
  "response_headers" : {
    "Content-Length" : 0
  },
  "response_body" : "{\\\"result\\\": \\\"success\\\"}"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.1.7 Obtaining the Webhook List of a Repository Group****Function**

This API is used to obtain the Webhook list of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/hooks

Table 4-42 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-43 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-44 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-45 Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of results of the current request.

Table 4-46 Response body parameters

Parameter	Type	Description
[items]	Array of WebhookDto objects	Definition Webhook data.

Table 4-47 WebhookDto

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-48** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-49** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/1/hooks
```

Example Responses

Status code: 200

OK

```
[ {
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check.",
  "description" : "Code check.",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}, {
  "id" : 2,
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "*****",
  "token_type" : "X-Repo-Token",
  "name" : "Code check.",
  "description" : "Code check.",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.8 Adding a Webhook in a Repository

Function

This API is used to add a Webhook in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/groups/{group_id}/hooks

Table 4-50 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-51 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-52 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	No	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	No	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	No	Boolean	Definition Whether to enable the tag push event.

Parameter	Mandatory	Type	Description
merge_requests_events	No	Boolean	Definition Whether to enable the MR event.
note_events	No	Boolean	Definition Whether to enable the comment event.
token	No	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	No	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	No	String	Definition Name. Range Mandatory. Max. 200 characters.
description	No	String	Definition Description. Range Mandatory. Max. 200 characters.

Response Parameters

Status code: 201

Table 4-53 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-54** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-55** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/groups/1/hooks
{
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "exampletoken",
  "token_type" : "X-Repo-Token",
  "name" : "Code check.",
  "description" : "Code check."
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 2,
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "*****",
  "token_type" : "X-Repo-Token",
  "name" : "Code check.",
  "description" : "Code check.",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Status Code	Description
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.9 Obtaining a Webhook in a Repository Group

Function

This API is used to obtain a Webhook in a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/hooks/{hook_id}

Table 4-56 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-57 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-58 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.

Parameter	Type	Description
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401

Table 4-59 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-60 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/1/hooks/1

Example Responses

Status code: 200

OK

```
{
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check.",
  "description" : "Code check.",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.1.10 Updating a Webhook in a Repository Group****Function**

This API is used to update a Webhook in a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/groups/{group_id}/hooks/{hook_id}

Table 4-61 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-62 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-63 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	No	Boolean	Definition Whether to enable the push event.

Parameter	Mandatory	Type	Description
push_events_branch_regex_filter	No	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	No	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	No	Boolean	Definition Whether to enable the MR event.
note_events	No	Boolean	Definition Whether to enable the comment event.
token	No	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	No	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	No	String	Definition Name. Range Mandatory. Max. 200 characters.
description	No	String	Definition Description. Range Mandatory. Max. 200 characters.

Response Parameters

Status code: 201

Table 4-64 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-65** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-66** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/groups/1/hooks/1
{
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "exampletoken",
  "token_type" : "X-Repo-Token",
  "name" : "Code check.",
  "description" : "Code check."
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check.",
  "description" : "Code check.",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Status Code	Description
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.11 Deleting a Webhook from a Repository Group

Function

This API is used to delete a Webhook from a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/groups/{group_id}/hooks/{hook_id}

Table 4-67 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-68 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 401

Table 4-69 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-70 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
DELETE https://{endpoint}/v4/groups/1/hooks/1
```

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.12 Obtaining the Webhook List Under a Project

Function

This API is used to obtain the webhook list under a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/hooks

Table 4-71 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-72 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-73 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-74 Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of results of the current request.

Table 4-75 Response body parameters

Parameter	Type	Description
[items]	Array of WebhookDto objects	Definition Webhook data.

Table 4-76 WebhookDto

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-77** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-78** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks
```

Example Responses

Status code: 200

OK

```
[ {
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}, {
  "id" : 2,
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "*****",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.13 Adding Webhooks to a Project

Function

This API is used to add webhooks to a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/projects/{project_id}/hooks

Table 4-79 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-80 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-81 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	No	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	No	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	No	Boolean	Definition Whether to enable the tag push event.

Parameter	Mandatory	Type	Description
merge_requests_events	No	Boolean	Definition Whether to enable the MR event.
note_events	No	Boolean	Definition Whether to enable the comment event.
token	No	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	No	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	No	String	Definition Name. Range Mandatory. Max. 200 characters.
description	No	String	Definition Description. Range Mandatory. Max. 200 characters.

Response Parameters

Status code: 201

Table 4-82 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401

Table 4-83 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks
```

```
{
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "exampletoken",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check"
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 2,
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "*****",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.1.14 Obtaining a Webhook Under a Project

Function

This API is used to obtain a webhook under a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/hooks/{hook_id}

Table 4-84 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-85 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-86 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-87** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-88** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1
```

Example Responses

Status code: 200

OK

```
{
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.15 Updating a Webhook Under a Project

Function

This API is used to update a webhook under a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/projects/{project_id}/hooks/{hook_id}

Table 4-89 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-90 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-91 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	No	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	No	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	No	Boolean	Definition Whether to enable the tag push event.

Parameter	Mandatory	Type	Description
merge_requests_events	No	Boolean	Definition Whether to enable the MR event.
note_events	No	Boolean	Definition Whether to enable the comment event.
token	No	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	No	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	No	String	Definition Name. Range Mandatory. Max. 200 characters.
description	No	String	Definition Description. Range Mandatory. Max. 200 characters.

Response Parameters

Status code: 201

Table 4-92 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-93** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-94** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1
{
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "exampletoken",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check"
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Status Code	Description
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.16 Deleting a Webhook from a Project

Function

This API is used to delete a webhook from a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/projects/{project_id}/hooks/{hook_id}

Table 4-95 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-96 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 401

Table 4-97 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-98 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
DELETE https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1
```

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.17 Obtaining the Webhook List Under a Repository

Function

This API is used to obtain the webhook list of under a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/hooks

Table 4-99 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-100 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-101 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-102 Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of results of the current request.

Table 4-103 Response body parameters

Parameter	Type	Description
[items]	Array of WebhookDto objects	Definition Webhook data.

Table 4-104 WebhookDto

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-105** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-106** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/1/hooks
```

Example Responses

Status code: 200

OK

```
[ {
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}, {
  "id" : 2,
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "*****",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.18 Adding a Webhook in a Repository

Function

This API is used to add webhooks under a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/hooks

Table 4-107 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-108 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-109 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	No	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	No	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	No	Boolean	Definition Whether to enable the tag push event.

Parameter	Mandatory	Type	Description
merge_requests_events	No	Boolean	Definition Whether to enable the MR event.
note_events	No	Boolean	Definition Whether to enable the comment event.
token	No	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	No	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	No	String	Definition Name. Range Mandatory. Max. 200 characters.
description	No	String	Definition Description. Range Mandatory. Max. 200 characters.

Response Parameters

Status code: 201

Table 4-110 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401

Table 4-111 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/repositories/1/hooks
```

```
{
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "exampletoken",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check"
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 2,
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "*****",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.1.19 Obtaining a Webhook in a Repository.

Function

This API is used to obtain data of a single webhook under a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/hooks/{hook_id}

Table 4-112 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-113 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-114 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-115** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-116** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/1/hooks/1
```

Example Responses

Status code: 200

OK

```
{
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.20 Updating a Webhook in a Repository.

Function

This API is used to update data of a single webhook under a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/hooks/{hook_id}

Table 4-117 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-118 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-119 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	No	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	No	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	No	Boolean	Definition Whether to enable the tag push event.

Parameter	Mandatory	Type	Description
merge_requests_events	No	Boolean	Definition Whether to enable the MR event.
note_events	No	Boolean	Definition Whether to enable the comment event.
token	No	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	No	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	No	String	Definition Name. Range Mandatory. Max. 200 characters.
description	No	String	Definition Description. Range Mandatory. Max. 200 characters.

Response Parameters

Status code: 201

Table 4-120 Response body parameters

Parameter	Type	Description
url	String	Definition Webhook URL. Range Mandatory. Max. 500 characters.
push_events	Boolean	Definition Whether to enable the push event.
push_events_branch_regex_filter	String	Definition Regular expression for push event branches filtering. Range Mandatory. Max. 500 characters.
tag_push_events	Boolean	Definition Whether to enable the tag push event.
merge_requests_events	Boolean	Definition Whether to enable the MR event.
note_events	Boolean	Definition Whether to enable the comment event.
token	String	Definition Token value. When it is used as the return value, the mask is used to replace the actual value. Range Mandatory. Max. 2,000 characters.
token_type	String	Definition Token type. The default value is X-Repo-Token. Range Mandatory. Max. 200 characters.
name	String	Definition Name. Range Mandatory. Max. 200 characters.

Parameter	Type	Description
description	String	Definition Description. Range Mandatory. Max. 200 characters.
id	Integer	Definition Webhook ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX
updated_at	String	Definition Update time. Definition yyyy-MM-dd'T'HH:mm:ss.SSSXXX

Status code: 401**Table 4-121** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-122** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/repositories/1/hooks/1
{
  "url" : "https://demo1.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "exampletoken",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check"
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 1,
  "url" : "https://demo.com",
  "push_events" : true,
  "push_events_branch_regex_filter" : ".*",
  "tag_push_events" : true,
  "merge_requests_events" : false,
  "note_events" : false,
  "token" : "",
  "token_type" : "X-Repo-Token",
  "name" : "Code check",
  "description" : "Code check",
  "created_at" : "2024-10-15T22:30:24.000+08:00",
  "updated_at" : "2024-10-15T22:30:24.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Status Code	Description
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.1.21 Deleting a Webhook in a Repository

Function

This API is used to delete a single webhook under a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/hooks/{hook_id}

Table 4-123 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
hook_id	Yes	Integer	Definition Webhook ID. Value range: 1~2147483647

Request Parameters

Table 4-124 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 401

Table 4-125 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-126 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
DELETE https://{endpoint}/v4/repositories/1/hooks/1
```

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.2 Repository

4.1.2.1 Downloading A Repository

Function

This API is used to download the repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/archive

Table 4-127 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-128 Query Parameters

Parameter	Mandatory	Type	Description
sha	No	String	Definition Branch name, tag name, or commit ID.
path	No	String	Definition File path. Range 1–100,000 characters.
archive_format	No	String	Definition Download format. Range • zip. • tar.gz. • tar.bz2. • tar. Default value: tar.gz

Request Parameters

Table 4-129 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

OK

Status code: 401**Table 4-130** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-131** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112029050/repository/archive
```

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.2.2 Obtaining the Submodule List of a Specified Branch or Tag in a Repository

Function

This API is used to obtain the submodule list of a specified branch or tag in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/submodules

Table 4-132 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-133 Query Parameters

Parameter	Mandatory	Type	Description
sha	Yes	String	Definition Branch name, tag name, or commit ID.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-134 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-135** Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request.

Table 4-136 Response body parameters

Parameter	Type	Description
[items]	Array of SubmoduleDto objects	Submodule list

Table 4-137 SubmoduleDto

Parameter	Type	Description
repo_id	Integer	Definition Repository ID.

Parameter	Type	Description
branch	String	Definition Branch name. Range 1 to 200 bytes.
path	String	Definition Branch name. Range 1 to 200 bytes
git_url	String	Definition Submodule Git address.
submodule_branch	String	Definition Submodule branch name. Range 1 to 200 bytes.
namespace_uuid	String	Organization name/Organization name.../Repository name
submodule_repo_id	Integer	Definition Submodule repository ID.
repo_name	String	Definition Submodule repository name.
sub_commitId	String	Definition Submodule repository commit.
deployKey_status	Integer	Definition: Deploy key synchronization status Value range: • 0: not synchronized • 1: synchronized Default value: 0
status	Integer	Definition Submodule status. Range • 0: abnormal. • 1: normal. Default value: 0

Status code: 401

Table 4-138 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-139 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-140 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112016472/repository/submodules?sha=111

Example Responses

Status code: 200

OK

```
[ {
  "repo_id" : 2112016472,
  "branch" : "base64",
  "path" : "repo1122",
  "git_url" : "git@** ***example.com:12345/repo1122.git",
  "submodule_branch" : "dsds",
  "namespace_uuid" : "0379d2da2bae4c38b3d2fbbdb6asd2fs",
  "submodule_repo_id" : 2112000256,
  "repo_name" : "repo1122",
  "sub_commitId" : "7963ac02",
  "deployKey_status" : 0,
  "status" : 1
}]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.3 Creating a Submodule

Function

This API is used to create a submodule.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/repository/submodules

Table 4-141 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-142 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-143 Request body parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Definition Branch name. Range 1 to 200 bytes Constraints Existing branch under the repository.
file_path	Yes	String	File path of the submodule under the repository.
subrepo_id	Yes	String	ID of the repository where the submodule locates
commit_message	Yes	String	Commit message.

Parameter	Mandatory	Type	Description
subrepo_branch	Yes	String	Definition Submodule branch name. Range 1 to 200 bytes Constraints Existing branch under the target repository.

Response Parameters

Status code: 200

Table 4-144 Response body parameters

Parameter	Type	Description
result	String	Definition Successful creation commit ID.
status	String	Definition Creation return status.

Status code: 401

Table 4-145 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/repositories/2112031271/repository/submodules
```

Example Responses

Status code: 200

OK

```
{  
  "result" : "e7a2c9c8a3672ee82b8eb5f771f468e1f6d50282",  
}
```



```
{  
  "status" : "success"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.2.4 Obtaining the File Content****Function**

This API is used to obtain file content.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/blobs

Table 4-146 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-147 Query Parameters

Parameter	Mandatory	Type	Description
blob_id	Yes	String	Definition: Blog file ID You can obtain file information of a repository by calling the API used to query file information of a repository . Value range: N/A

Request Parameters

Table 4-148 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-149** Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request.

Table 4-150 Response body parameters

Parameter	Type	Description
size	Long	Definition File size (in bytes). Constraints N/A.

Parameter	Type	Description
encoding	String	Definition File encoding mode. Constraints Base64. Default value: Base64.
content	String	Definition File content encoded using Base64. Constraints N/A.
blob_id	String	Definition Blob file ID. Constraints N/A

Status code: 401**Table 4-151** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-152** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-153 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112029050/repository/blobs?  
blob_id=63c469b50f8a4f2c2e734c05cab664939ffe5256
```

Example Responses

Status code: 200

OK

```
[ {  
  "size" : 13,  
  "encoding" : "base64",  
  "content" : "MTIzZGFkc+aYr+aYrw==",  
  "blob_id" : "63c469b50f8a4f2c2e734c05cab664939ffe5256"  
} ]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "CH.00000001",  
  "error_msg" : "User authentication info not found."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.00401008",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.00402000",  
  "error_msg" : "The repository does not exist. Check and try again."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.5 Obtaining the Commit Statistics of a Specified Branch of a Repository

Function

This API is used to obtain the commit statistics of a specified branch of the repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/commit-statistics

Table 4-154 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-155 Query Parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Definition Branch name. Range 1–2,000 characters.

Request Parameters

Table 4-156 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-157 Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of results of the current request.

Table 4-158 Response body parameters

Parameter	Type	Description
commits	Array of CommitStatisticsResultCommitDto objects	Definition Commit statistics.
statistics	Array of StatisticDto objects	Definition Committer statistics.
total	Integer	Definition Total number. Value range: 0~2147483647

Table 4-159 CommitStatisticsResultCommitDto

Parameter	Type	Description
author_name	String	Definition Author name.
date	String	Definition Commit date.
nick_name	String	Definition Alias.
tenant_name	String	Definition Tenant name.
user_name	String	Definition Username.
is_merge	Boolean	Definition Merged through merge or not. Range • true: through merge. • false: not through merge. Default value: false

Table 4-160 StatisticDto

Parameter	Type	Description
id	Integer	Definition Statistics ID. Value range: 1~2147483647
project_id	Integer	Definition Repository ID. Value range: 1~2147483647
branch	String	Definition Branch name. Range 1 to 200 bytes
user_name	String	Username
add_lines	Integer	Definition Number of added lines. Value range: 0~2147483647
delete_lines	Integer	Definition Number of deleted lines. Value range: 0~2147483647
commit_count	Integer	Definition Total number of commits. Value range: 0~2147483647
created_at	String	Definition Earliest commit time.
updated_at	String	Definition Latest update time.

Status code: 401

Table 4-161 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-162** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-163** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112016472/repository/commit-statistics?branch_name=master
```

Example Responses

Status code: 200

Obtain the commit statistics of a specified branch of the repository.

```
{
  "commits" : [ {
    "author_name" : "author_name_f4f97c9250c2",
    "date" : "2025-06-04",
    "nick_name" : "nick_name_317740f50a66",
    "tenant_name" : "tenant_name_11e88aeca457",
```

```
"user_name" : "user_name_7606b467e7c4",
"is_merge" : false
}],
"statistics" : [ {
  "id" : 0,
  "project_id" : 0,
  "branch" : "branch_571d7c4b3fe1",
  "user_name" : "user_name_37e99c1492e0",
  "add_lines" : 0,
  "delete_lines" : 0,
  "commit_count" : 0,
  "created_at" : "2025-05-28T17:45:03.000+08:00",
  "updated_at" : "2025-06-04T16:37:18.000+08:00"
}],
"total" : 1
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the commit statistics of a specified branch of the repository.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.6 Obtaining Statistics on the Default Branch Language of a Repository

Function

This API is used to obtain statistics on the default branch language of the repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/languages

Table 4-164 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-165 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-166** Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of results of the current request.

Table 4-167 Response body parameters

Parameter	Type	Description
languages	Array of LanguagesDto objects	Definition Language description.
status	String	Definition Returned status.

Table 4-168 LanguagesDto

Parameter	Type	Description
color	String	Definition Color.
label	String	Definition Language type.
value	Double	Definition Weight.

Status code: 401**Table 4-169** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-170** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-171** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2111915566/repository/languages
```

Example Responses

Status code: 200

Obtain the language statistics of the default branch of the repository.

```
{
  "languages": [ {
    "color": "#3572A5",
    "label": "Python",
    "value": 100
  } ],
  "status": "success"
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "CH.00000001",
  "error_msg": "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code": "CH.00401008",
  "error_msg": "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code": "CH.00402000",
  "error_msg": "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the language statistics of the default branch of the repository.
401	Unauthorized

Status Code	Description
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.7 Obtaining Repository Dynamics

Function

This API is used to obtain repository dynamics. (Only dynamic push available now)

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/events

Table 4-172 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-173 Query Parameters

Parameter	Mandatory	Type	Description
author_id	No	Integer	Definition Operator ID. Value range: 1~2147483647
filter	No	String	Definition Dynamic type. Constraints - all: indicates all. - push: indicates the push. Default value: all Enumeration values: - all - push
before	No	String	Definition Start date.
after	No	String	Definition End date.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-174 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-175** Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of results of the current request.

Table 4-176 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryPushEventDto objects	Definition Push dynamics.

Table 4-177 RepositoryPushEventDto

Parameter	Type	Description
action_name	String	Definition Action name. - pushed to: indicates the push. - pushed new: indicates the push and creation. - deleted: indicates deletion. Enumeration values: pushed to pushed new deleted
author	RepositoryEventAuthorDto object	Definition Information of the user who triggers the operation.
author_id	Integer	Definition ID of the user who triggers the operation. Value range: 1~2147483647
author_username	String	Definition Name of the user who triggers the operation.
created_at	String	Definition Creation time.
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
repository_name	String	Definition Repository name.
push_data	PushEventPayloadDto object	Definition Push information.

Table 4-178 RepositoryEventAuthorDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: activated - blocked: disabled Enumeration values: active blocked
avatar_url	String	Definition Profile picture URL.
name_cn	String	Definition Name (CN).
nick_name	String	Definition Alias.
tenant_name	String	Definition Tenant name.

Table 4-179 PushEventPayloadDto

Parameter	Type	Description
commit_count	Integer	Definition Number of commits. Value range: 1~2147483647
action	String	Definition Operation type.

Parameter	Type	Description
ref_type	String	Definition Ref type.
commit_from	String	Definition Source commit.
commit_to	String	Definition Target commit.
ref	String	Definition Branch.
commit_title	String	Definition Commit title.

Status code: 401**Table 4-180** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-181** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-182 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/10001/events

Example Responses

Status code: 200

Repository dynamics list.

```
[ {
  "action_name" : "pushed new",
  "author" : {
    "id" : 9124,
    "name" : "dev_test",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : "",
    "name_cn" : "dev_test",
    "nick_name" : "dev",
    "tenant_name" : "test_tenant"
  },
  "author_id" : 9124,
  "author_username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "created_at" : "2024-08-21T06:21:22.000Z",
  "repository_id" : 2111694664,
  "repository_name" : "lhstest00002/RepoProtal",
  "push_data" : {
    "commit_count" : 0,
    "action" : "created",
    "ref_type" : "branch",
    "commit_from" : null,
    "commit_to" : "17933c207b320a74dc10af80e0d9d9720a90dd5e",
    "ref" : "asdsada#fasdasda",
    "commit_title" : null
  }
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
}
```

```
{
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Repository dynamics list.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.8 Comparing Branches, Tags, and Commits

Function

This API is used for branch, tag, and commit comparison.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/compare

Table 4-183 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-184 Query Parameters

Parameter	Mandatory	Type	Description
from	Yes	String	Definition Name of the branch, label, or commit ID to be compared. Range 1–100,000 characters.
to	Yes	String	Definition Name of the branch, label, or ID of the commit to be stopped for comparison. Range 1–100,000 characters.
compare_type	No	String	Definition Comparison type. Range • branch: indicates branch. • commit: indicates commit. • tag: indicates label. Default value: branch Enumeration values: • branch • commit • tag

Parameter	Mandatory	Type	Description
target_id	No	Integer	Definition Target repository of the MR. The default value is the repository ID. Value range: 1~2147483647
straight	No	Boolean	Definition Comparison method. Range • true: direct comparison between 'from' and 'to' ('from'..'to'). • false: use merge base for comparison ('from'...'to'). Default value: false
ignore_whitespace_change	No	Boolean	Definition Whether to ignore the change of blank quantity. Range • true: ignore the change of blank quantity. • false: not to ignore the change of blank quantity. Default value: false

Parameter	Mandatory	Type	Description
view	No	String	Definition Whether to ignore the change of blank quantity. Range - count: indicates count of number. - commits: indicates commit information. - diffs: indicates difference information. - files: indicates file information. - commits and diffs: indicate commit information and difference information. Enumeration values: - count - commits - diffs - files - commits,diffs
only_count	No	Boolean	Definition Whether to return only results containing the commit count and difference count. Range - true: return only results containing the commit count and difference count are returned. - false: return result information according to the compare_view parameter. Default value: false

Parameter	Mandatory	Type	Description
file_path	No	String	Definition Returns different results based on the given file path. If the file has been renamed, file_path must contain old_path and new_path, for example, "file_path=old_path,new_path". Range 1-100,000 characters.
additional_fields	No	String	Definition Returns different results based on the given parameters. Range - change_lines, number of changed lines. Enumeration values: change_lines
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-185 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-186 Response header parameters

Parameter	Type	Description
X-Total	String	Commit, branch, and tag comparison result.

Table 4-187 Response body parameters

Parameter	Type	Description
commit	CommitDto object	Commit information
commits	Array of CommitDto objects	Commit information list
diffs	Array of DiffDto objects	Chang file information
diffs_files	Array of DiffDto objects	Chang file information

Parameter	Type	Description
compare_timeout	Boolean	Timed out or not
compare_same_ref	Boolean	Same or not
conflict_files	Array of ConflictFileDto objects	Conflict file
added_lines	Integer	Number of added lines Value range: 1~2147483647
removed_lines	Integer	Number of deleted lines Value range: 1~2147483647
commits_count	Integer	Number of commits Value range: 1~2147483647
diffs_count	Integer	Number of changed files Value range: 1~2147483647

Table 4-188 CommitDto

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification

Parameter	Type	Description
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user
short_id	String	Short ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	author_avatar_url
committer_avatar_url	String	committer_avatar_url
relate_url	Array of RelatedCommitSimpleDto objects	only for DevCloud
nick_name	String	Title
tenant_name	String	tenant_name
user_name	String	Username

Table 4-189 RelatedCommitSimpleDto

Parameter	Type	Description
related_id	String	Associated work item ID
related_url	String	Associated work item URL

Table 4-190 DiffDto

Parameter	Type	Description
old_path	String	Old file
new_path	String	New file

Parameter	Type	Description
a_mode	String	Old file type.
b_mode	String	New file type
file_path	String	File path
new_file	Boolean	New or not
file_type	String	File type
renamed_file	Boolean	Rename or not
deleted_file	Boolean	Whether to delete a file
diff	String	Comparison result
binary	Boolean	Binary or not
too_large	Boolean	Whether the file is too large
collapsed	Boolean	Collapsed or not
line_count	Array of integers	Value range: 1~2147483647
added_lines	Integer	Number of added lines Value range: 1~2147483647
removed_lines	Integer	Number of deleted lines Value range: 1~2147483647

Table 4-191 ConflictFileDto

Parameter	Type	Description
old_path	String	Old file
new_path	String	New file

Status code: 401**Table 4-192** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403

Table 4-193 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-194 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

Branch, tag, and commit comparison

```
{
  "commit" : {
    "id" : "1690246aeae929d672740fc4951db94ae635e493",
    "message" : "Connect MySQL to \\n\\nChange-Id: I06d0995d1362beff8ed530.",
    "parent_ids" : "[test01,test02]",
    "authored_date" : "2024-10-25T09:28:10.000Z",
    "author_name" : "test",
    "author_email" : "test@example.com",
    "committed_date" : "2024-10-25T09:28:10.000Z",
    "committer_name" : "test_name",
    "committer_email" : "test@example.com",
```



```
"open_gpg_verified" : null,
"verification_status" : 0,
"gpg_primary_key_id" : "",
"short_id" : "123",
"created_at" : "2024-10-25T09:28:10.000Z",
"title" : "test",
"author_avatar_url" : "https://test",
"committer_avatar_url" : "https://test",
"relate_url" : null
},
"commits" : null,
"diffs" : null,
"diffs_files" : null,
"compare_timeout" : null,
"compare_same_ref" : null,
"conflict_files" : null,
"added_lines" : 2,
"removed_lines" : 2,
"commits_count" : 2,
"diffs_count" : 2
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Branch, tag, and commit comparison
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.9 Querying Commit File Content by Line

Function

This API is used to query commit file content by line. A maximum of 1,000 lines can be displayed.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/diff-lines

Table 4-195 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-196 Query Parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Definition File path. Range 1–10,000 characters.
commit_id	Yes	String	Definition commit ID. Range 1–40 characters.

Parameter	Mandatory	Type	Description
start	Yes	Integer	Definition Number of lines at the beginning of a file. Value range: 1~2147483647
end	Yes	Integer	Definition Number of lines at the end of a file. Value range: 1~2147483647

Request Parameters

Table 4-197 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-198 Response body parameters

Parameter	Type	Description
text	String	Text information

Status code: 401**Table 4-199** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-200** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-201** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 200**

Query commit file content by line

```
{  
  "text" : "x"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "CH.00000001",  
  "error_msg" : "User authentication info not found."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.00401008",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.00402000",  
  "error_msg" : "The repository does not exist. Check and try again."  
}
```

Status Codes

Status Code	Description
200	Query commit file content by line
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.10 Obtaining Repository Notification Settings

Function

This API is used to obtain repository notification settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/notification-subscriptions/
subscription

Table 4-202 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-203 Query Parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Definition Notification type. Range - internal_message: indicates intra-site messages. - email: indicates emails. - qyweixin: indicates WeCom. - feishu: indicates Feishu. - dingding: indicates DingTalk. Enumeration values: internal_message email qyweixin feishu dingding

Request Parameters

Table 4-204 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-205** Response body parameters

Parameter	Type	Description
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
enabled	Boolean	Definition Enable notifications.
config_source	String	Definition Configure resources. Enumeration values: • repo • product
webhook_config	RepoWebHookSubscriptionDto object	Definition Webhook configurations.

Parameter	Type	Description
waring_repo_usage_rate	Integer	Definition Repository usage alarm threshold (%). Enumeration values: • 60 • 80 • 90
subscript_events	Array of RepoSubscriptionEventDto objects	Definition Notification event.

Table 4-206 RepoWebHookSubscriptionDto

Parameter	Type	Description
url	String	Definition Webhook URL.
mention_users	String	Definition User ID list. Tag a member: Mention a specified member in the group with max. 1,000 characters and max. 100 characters for each mention. Mentions should be separated by semicolons (;).
mention_phone	String	Definition Mobile phone number list. Tag a member: Mention the member corresponding to the mobile phone number in the group with max. 1,000 characters and max. 30 characters for each mention. Mentions should be separated by semicolons (;).
has_token	Boolean	Definition Whether a token is set.

Table 4-207 RepoSubscriptionEventDto

Parameter	Type	Description
resource_type	String	Definition Resource type. • repo: repository. • mr: merge request (MR). • member: member. • note: review comment. Enumeration values: • repo • mr • member • note
action	String	Definition Event name. • create: indicates creation. • open: indicates open. • update: indicates update. • delete: indicates deletion. • merge: indicates merge. • review: indicates review. • approve: indicates approving. • create_note: indicates comment creation. • resolve_note: indicates comment resolution. • mention: indicates being mentioned. Enumeration values: • create • open • update • delete • merge • review • approve • create_note • resolve_note • capacity_warning • mention

Parameter	Type	Description
enabled	Boolean	Definition Enable event notification.
role_ids	Array of strings	Definition ID list of roles to be notified.
role_names	Array of strings	Definition List of roles to be notified. • creator: indicates creator. • assignee: indicates merger. • reviewer: indicates scorer. • scorer: indicates approver. • approver: indicates reviewer. Enumeration values: • creator • assignee • reviewer • scorer • approver

Status code: 401**Table 4-208** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-209** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 404

Table 4-210 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

Get a repo notification subscription

```
{
  "repository_id" : 2111978605,
  "enabled" : true,
  "config_source" : "repo",
  "webhook_config" : {
    "url" : "https://example.com/webhook/send?key=xxxx",
    "mention_users" : "1;2",
    "mention_phone" : "17812341234;18512341234;16712345678"
  },
  "waring_repo_usage_rate" : 60,
  "subscript_events" : [ {
    "resource_type" : "mr",
    "action" : "open",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {
    "resource_type" : "mr",
    "action" : "update",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {
    "resource_type" : "mr",
    "action" : "merge",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {
    "resource_type" : "mr",
```

```
"action" : "review",
"enabled" : true,
"role_ids" : null,
"role_names" : [ ]
}, {
  "resource_type" : "mr",
  "action" : "approve",
  "enabled" : true,
  "role_ids" : null,
  "role_names" : [ ]
}, {
  "resource_type" : "mr",
  "action" : "create_note",
  "enabled" : true,
  "role_ids" : null,
  "role_names" : [ ]
}, {
  "resource_type" : "mr",
  "action" : "resolve_note",
  "enabled" : true,
  "role_ids" : null,
  "role_names" : [ ]
}, {
  "resource_type" : "repo",
  "action" : "delete",
  "enabled" : true,
  "role_ids" : [ "" ],
  "role_names" : null
}, {
  "resource_type" : "repo",
  "action" : "capacity_warning",
  "enabled" : true,
  "role_ids" : [ "" ],
  "role_names" : null
}
}]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Get a repo notification subscription
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.11 Modifying Repository Notification Settings

Function

This API is used to modify repository notification settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/notification-subscriptions/
subscription

Table 4-211 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-212 Query Parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Definition Notification type. Range - internal_message: indicates intra-site messages. - email: indicates emails. - qyweixin: indicates WeCom. - feishu: indicates Feishu. - dingding: indicates DingTalk. Enumeration values: internal_message email qyweixin feishu dingding

Request Parameters

Table 4-213 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-214 Request body parameters

Parameter	Mandatory	Type	Description
enabled	No	Boolean	Definition Enable notifications.
config_source	No	String	Definition Configure resources. Enumeration values: • repo • product
webhook_config	No	UpdateRepoWebHookSubscriptionDto object	Definition Webhook configurations.
waring_repo_usage_rate	No	Integer	Definition Repository usage alarm threshold (%). Enumeration values: • 60 • 80 • 90
subscript_events	No	Array of RepoSubscriptionEventDto objects	Definition Notification event.

Table 4-215 UpdateRepoWebHookSubscriptionDto

Parameter	Mandatory	Type	Description
url	No	String	Definition URL of the webhook (Base64 encoding is required).
token	No	String	Definition: Key

Parameter	Mandatory	Type	Description
mention_users	No	String	Definition User ID list. Tag a member: Mention a specified member in the group with max. 1,000 characters and max. 100 characters for each mention. Mentions should be separated by semicolons (;).
mention_phone	No	String	Definition Mobile phone number list (Base64 encoding required). Tag a member: Mention the member corresponding to the mobile phone number in the group with max. 1,000 characters and max. 30 characters for each mention. Mentions should be separated by semicolons (;).

Table 4-216 RepoSubscriptionEventDto

Parameter	Mandatory	Type	Description
resource_type	No	String	Definition Resource type. • repo: repository. • mr: merge request (MR). • member: member. • note: review comment. Enumeration values: • repo • mr • member • note

Parameter	Mandatory	Type	Description
action	No	String	Definition Event name. • create: indicates creation. • open: indicates open. • update: indicates update. • delete: indicates deletion. • merge: indicates merge. • review: indicates review. • approve: indicates approving. • create_note: indicates comment creation. • resolve_note: indicates comment resolution. • mention: indicates being mentioned. Enumeration values: • create • open • update • delete • merge • review • approve • create_note • resolve_note • capacity_warning • mention
enabled	No	Boolean	Definition Enable event notification.
role_ids	No	Array of strings	Definition ID list of roles to be notified.

Parameter	Mandatory	Type	Description
role_names	No	Array of strings	Definition List of roles to be notified. • creator: indicates creator. • assignee: indicates merger. • reviewer: indicates scorer. • scorer: indicates approver. • approver: indicates reviewer. Enumeration values: • creator • assignee • reviewer • scorer • approver

Response Parameters

Status code: 200

Table 4-217 Response body parameters

Parameter	Type	Description
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
enabled	Boolean	Definition Enable notifications.
config_source	String	Definition Configure resources. Enumeration values: • repo • product
webhook_config	RepoWebHookSubscriptionDto object	Definition Webhook configurations.

Parameter	Type	Description
waring_repo_usage_rate	Integer	Definition Repository usage alarm threshold (%). Enumeration values: • 60 • 80 • 90
subscript_events	Array of RepoSubscriptionEventDto objects	Definition Notification event.

Table 4-218 RepoWebHookSubscriptionDto

Parameter	Type	Description
url	String	Definition Webhook URL.
mention_users	String	Definition User ID list. Tag a member: Mention a specified member in the group with max. 1,000 characters and max. 100 characters for each mention. Mentions should be separated by semicolons (;).
mention_phone	String	Definition Mobile phone number list. Tag a member: Mention the member corresponding to the mobile phone number in the group with max. 1,000 characters and max. 30 characters for each mention. Mentions should be separated by semicolons (;).
has_token	Boolean	Definition Whether a token is set.

Table 4-219 RepoSubscriptionEventDto

Parameter	Type	Description
resource_type	String	Definition Resource type. • repo: repository. • mr: merge request (MR). • member: member. • note: review comment. Enumeration values: • repo • mr • member • note
action	String	Definition Event name. • create: indicates creation. • open: indicates open. • update: indicates update. • delete: indicates deletion. • merge: indicates merge. • review: indicates review. • approve: indicates approving. • create_note: indicates comment creation. • resolve_note: indicates comment resolution. • mention: indicates being mentioned. Enumeration values: • create • open • update • delete • merge • review • approve • create_note • resolve_note • capacity_warning • mention

Parameter	Type	Description
enabled	Boolean	Definition Enable event notification.
role_ids	Array of strings	Definition ID list of roles to be notified.
role_names	Array of strings	Definition List of roles to be notified. • creator: indicates creator. • assignee: indicates merger. • reviewer: indicates scorer. • scorer: indicates approver. • approver: indicates reviewer. Enumeration values: • creator • assignee • reviewer • scorer • approver

Status code: 401**Table 4-220** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-221** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 404**Table 4-222** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

Modify repository notification settings

PUT /v4/repositories/123/notification-subscriptions/subscription

```
{
  "enabled": true,
  "config_source": "repo",
  "waring_repo_usage_rate": 60,
  "webhook_config": {
    "url":
"aHR0cHM6Ly9xeWFwaS53ZWl4aW4ucXEuY29tL2NnaS1iaW4vd2ViaG9vay9zZW5kP2tleT02MDEyMTgxYS1l
MzRmLTQ2NDUtYjU2MS01N2FiNGlZy2Q1NjY=",
    "token": "YXNkZmFzZGYyQDEyMw==",
    "mention_users": "1;2",
    "mention_phone": "MTc4MTIzNDEyMzQ7MTg1MTIzNDEyMzQ7MTY3MTIzNDU2Nzg="
  },
  "subscription_events": [ {
    "resource_type": "repo",
    "action": "delete",
    "enabled": true
  }, {
    "resource_type": "repo",
    "action": "capacity_warning",
    "enabled": true
  }, {
    "resource_type": "mr",
    "action": "open",
    "enabled": true
  }, {
    "resource_type": "mr",
    "action": "update",
    "enabled": true
  }, {
    "resource_type": "mr",
    "action": "merge",
    "enabled": true
  }, {
    "resource_type": "mr",
    "action": "review",
```

```
    "enabled" : true
  }, {
    "resource_type" : "mr",
    "action" : "approve",
    "enabled" : true
  }, {
    "resource_type" : "mr",
    "action" : "create_note",
    "enabled" : true
  }, {
    "resource_type" : "mr",
    "action" : "resolve_note",
    "enabled" : true
  } ]
}
```

Example Responses

Status code: 200

Notification details.

```
{
  "repository_id" : 2111978605,
  "enabled" : true,
  "config_source" : "repo",
  "webhook_config" : {
    "url" : "https://example.com/cgi-bin/webhook/send?key=xxxx",
    "mention_users" : "1;2",
    "mention_phone" : "17812341234;18512341234;16712345678"
  },
  "waring_repo_usage_rate" : 60,
  "subscript_events" : [ {
    "resource_type" : "mr",
    "action" : "open",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {
    "resource_type" : "mr",
    "action" : "update",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {
    "resource_type" : "mr",
    "action" : "merge",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {
    "resource_type" : "mr",
    "action" : "review",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {
    "resource_type" : "mr",
    "action" : "approve",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {
    "resource_type" : "mr",
    "action" : "create_note",
    "enabled" : true,
    "role_ids" : null,
    "role_names" : [ ]
  }, {

```

```
{
  "resource_type": "mr",
  "action": "resolve_note",
  "enabled": true,
  "role_ids": null,
  "role_names": [ ]
}, {
  "resource_type": "repo",
  "action": "delete",
  "enabled": true,
  "role_ids": [ "" ],
  "role_names": null
}, {
  "resource_type": "repo",
  "action": "capacity_warning",
  "enabled": true,
  "role_ids": [ "" ],
  "role_names": null
}]
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "CH.00000001",
  "error_msg": "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code": "CH.00401008",
  "error_msg": "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code": "CH.00402000",
  "error_msg": "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Notification details.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.12 Obtaining the Status of Repository Notification Switch Settings

Function

This API is used to obtain the status of repository notification settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/notification-subscriptions/status

Table 4-223 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-224 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-225** Response body parameters

Parameter	Type	Description
internal_message	RepoNotificationSubscriptionStateDto object	Definition System messages.
email	RepoNotificationSubscriptionStateDto object	Definition Email notifications.
qyweixin	RepoNotificationSubscriptionStateDto object	Definition WeCom notifications.
feishu	RepoNotificationSubscriptionStateDto object	Definition Feishu notifications.
dingding	RepoNotificationSubscriptionStateDto object	Definition DingTalk notifications.

Table 4-226 RepoNotificationSubscriptionStateDto

Parameter	Type	Description
config_source	String	Definition Configure resources. Enumeration values: • repo • product
enabled	Boolean	Definition Enable notifications.

Status code: 401**Table 4-227** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-228** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-229** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

Status of notification switch.

```
{
  "internal_message" : {
    "config_source" : "repo",
    "enabled" : false
  },
  "email" : {
    "config_source" : "repo",
    "enabled" : true
  },
  "qyweixin" : {
    "config_source" : "repo",
    "enabled" : false
  },
  "feishu" : {
    "config_source" : "repo",
    "enabled" : false
  },
  "dingding" : {
    "config_source" : "repo",
    "enabled" : false
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
}
```

```
"error_msg" : "The repository does not exist. Check and try again."  
}
```

Status Codes

Status Code	Description
200	Status of notification switch.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.13 Obtaining the Status of a Repository Statistics Task

Function

This API is used to obtain the status of the repository statistics task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/statistics-status

Table 4-230 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-231 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-232** Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of results of the current request.

Table 4-233 Response body parameters

Parameter	Type	Description
can_statistics	Boolean	Definition Can be statistically calculated or not. Range - true: yes. - false: no.

Parameter	Type	Description
reason	Integer	Definition Can be statistically calculated or not. Range • 0: user triggers and repository triggers are not used up. • 1: repository triggers are used up. • 2: user triggers are used up. • 3: user triggers and repository triggers are used up. Default value: 0 Enumeration values: • 0 • 1 • 2 • 3
event	StatisticEventsD- to object	Event

Table 4-234 StatisticEventsDto

Parameter	Type	Description
id	Integer	Definition Statistics ID. Value range: 1~2147483647
user_id	Integer	Definition User ID. Value range: 1~2147483647
project_id	Integer	Definition Repository ID. Value range: 1~2147483647

Parameter	Type	Description
branch	String	Definition Branch name. Range 1 to 200 bytes
status	String	Definition Statistics status.
stat_date	String	Definition Statistics time.
created_at	String	Definition Statistics creation time.
updated_at	String	Definition Statistics update time.

Status code: 401**Table 4-235** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-236** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-237 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2111915566/repository/statistics-status
```

Example Responses

Status code: 200

Obtain repository statistics task status

```
{
  "can_statistics" : false,
  "reason" : 0,
  "event" : {
    "id" : 0,
    "user_id" : 0,
    "project_id" : 0,
    "branch" : "branch_bb453f4359fc",
    "status" : "status_6a687650fc63",
    "stat_date" : "20250604",
    "created_at" : "2025-06-04T16:14:29+08:00",
    "updated_at" : "2025-06-04T16:14:29+08:00"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Obtain repository statistics task status
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.14 Deleting a Deploy Key from a Repository

Function

This API is used to delete a deploy key.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/deploy-keys/{key_id}

Table 4-238 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
key_id	Yes	Integer	Definition: Deploy key ID. Value range: 1~2147483647

Request Parameters

Table 4-239 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 401

Table 4-240 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-241** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-242** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/2111855748/deploy-keys/1342115
```

Example Responses

Status code: 401

Unauthorized

```
{  
  "error_code" : "CH.00000002",  
  "error_msg" : "Recognize authentication information failed."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.00401001",  
  "error_msg" : "No access permission."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.00402000",  
  "error_msg" : "The repository does not exist. Check and try again."  
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.15 Starting Repository Image Synchronization

Function

This API is used to start repository image synchronization.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/remote-mirror

Table 4-243 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-244 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-245 Request body parameters

Parameter	Mandatory	Type	Description
username	No	String	Definition: Username (Base64 encoding required) Constraints: N/A Value range: N/A Default value: N/A
password	No	String	Definition: Password (Base64 encoding required) Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
endpoint_uuid	No	String	Definition: Endpoint UUID Constraints: N/A Value range: N/A Default value: N/A
force_fetch	No	Boolean	Definition: Force sync Constraints: N/A Value range: • true: forcible sync • false: non-forcible synchronization Default value: N/A

Response Parameters

Status code: 200

Table 4-246 Response body parameters

Parameter	Type	Description
jid	String	Definition Synchronization task ID.

Status code: 401

Table 4-247 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-248** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-249** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

Start repository image synchronization

```
POST /v4/repositories/123/remote-mirror
```

```
{
  "username" : "",
  "password" : "",
  "endpoint_uuid" : ""
}
```

Example Responses

Status code: 200

OK

```
{
  "jid" : "09a56216-cb37-494c-b314-d88dc6c9ff57"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
}
```



```
{
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permission and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Repository Not Found"
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.16 Obtaining Repository Image Details

Function

This API is used to obtain repository image details.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/remote-mirror

Table 4-250 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-251 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-252 Response body parameters

Parameter	Type	Description
id	Integer	Definition Repository image configuration ID.

Parameter	Type	Description
repository_id	Integer	Definition Repository ID.
update_status	String	Definition Synchronization status.
last_update_at	String	Definition Last modification time.
url	String	Definition Image address.
last_successful_update_at	String	Definition Last successful synchronization time.
number_of_failures	Integer	Definition Number of synchronization failures.
mirroring_enabled	Boolean	Definition Enable scheduled synchronization.
is_private	Boolean	Definition Private image.
endpoint_uuid	String	Definition Endpoint UUID.
last_error	String	Definition Last failure information.

Status code: 401**Table 4-253** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-254 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-255 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : 11887,
  "repository_id" : 2111985337,
  "update_status" : "failed",
  "last_update_at" : "2024-12-27T18:52:21.000+08:00",
  "url" : "https://example.com/foo/bar.git",
  "last_successful_update_at" : "2024-12-27T04:15:00.000+08:00",
  "number_of_failures" : 1,
  "mirroring_enabled" : false,
  "is_private" : false,
  "endpoint_uuid" : null,
  "last_error" : "{\"msg\":\"exit status 128\",\"code\":\"7\"}"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permission and try again."
}
```

Status code: 404**Not Found**

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Repository Not Found"
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.17 Triggering the Repository Statistics Task**Function**

This API is used to trigger a repository statistics task.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/repository/statistics

Table 4-256 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-257 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-258 Request body parameters

Parameter	Mandatory	Type	Description
branch_name	No	String	Definition: Branch name

Response Parameters

Status code: 204

Deleted successfully.

Status code: 401

Table 4-259 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-260 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
204	Deleted successfully.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.2.18 Creating a Repository System Tag

Function

This API is used to create a repository system tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/system-labels

Table 4-261 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-262 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-263** Response body parameters

Parameter	Type	Description
[items]	Array of LabelDetailDto objects	Tag list.

Table 4-264 LabelDetailDto

Parameter	Type	Description
id	Integer	Definition: Tag ID. Value range: 1–2147483647 Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Tag name. Value range: N/A.
color	String	Definition: Tag color, which is provided in a 6-character hexadecimal format starting with sign (#) (for example, #FFAABB). Value range: Regular expression: <code>^#([a-fA-F0-9]{6}/[a-fA-F0-9]{3})\$</code>
description	String	Definition: Description. Value range: N/A.
text_color	String	Definition: Font color, which is provided in a 6-digit hexadecimal format starting with sign (#) (for example, #FFAABB). Value range: Regular expression: <code>^#([a-fA-F0-9]{6}/[a-fA-F0-9]{3})\$</code>
expires_at	String	Definition: Expiration time. Value range: N/A.
is_expired	Boolean	Definition: Whether it is invalid. Value range: N/A.

Parameter	Type	Description
open_merge_requests_count	Integer	Definition: Number of enabled MRs to be associated. Constraints: This field is returned by the MR repository. Value range: 0-2147483647 Value range: 0~2147483647
open_change_request_count	Integer	Definition: Number of enabled CRs to be associated. Constraints: This field is returned by the CR repository. Value range: 0-2147483647 Value range: 0~2147483647
priority	Integer	Definition: Priority. Value range: N/A. Value range: 0~30
is_repository_label	Boolean	Definition: Whether it is a repository tag. Value range: N/A.

Example Requests

None

Example Responses

Status code: 200

Repository system tag.

```
[ {
  "id" : 196,
  "name" : "Bug",
  "color" : "#CC0033",
  "description" : "Fix bug",
  "text_color" : "#FFFFFF",
  "expires_at" : null,
  "is_expired" : false,
  "open_merge_requests_count" : 0,
  "priority" : 0,
  "is_repository_label" : true
}, {
  "id" : 197,
  "name" : "Critical",
  "color" : "#f90027",
  "description" : "Fix critical defects",
  "text_color" : "#FFFFFF",
  "expires_at" : null,
  "is_expired" : false,
  "open_merge_requests_count" : 0,
  "priority" : 0,
  "is_repository_label" : true
}, {
  "id" : 198,
  "name" : "Feature",
  "color" : "#428BCA",
  "description" : "New features",
  "text_color" : "#FFFFFF",
  "expires_at" : null,
  "is_expired" : false,
  "open_merge_requests_count" : 0,
  "priority" : 0,
  "is_repository_label" : true
}, {
  "id" : 199,
  "name" : "Major",
  "color" : "#F0AD4E",
  "description" : "Fix major defects",
  "text_color" : "#FFFFFF",
  "expires_at" : null,
  "is_expired" : false,
  "open_merge_requests_count" : 0,
  "priority" : 0,
  "is_repository_label" : true
}, {
  "id" : 200,
  "name" : "Minor",
  "color" : "#0033CC",
  "description" : "Fix minor defects",
  "text_color" : "#FFFFFF",
  "expires_at" : null,
  "is_expired" : false,
  "open_merge_requests_count" : 0,
  "priority" : 0,
  "is_repository_label" : true
}, {
  "id" : 201,
  "name" : "Suggestion",
  "color" : "#A8D695",
  "description" : "Optimization suggestions",
  "text_color" : "#333333",
  "expires_at" : null,
  "is_expired" : false,
  "open_merge_requests_count" : 0,
  "priority" : 0,
  "is_repository_label" : true
} ]
```

Status Codes

Status Code	Description
200	Repository system tag.

Error Codes

See [Error Codes](#).

4.1.2.19 Obtaining a Repository Tag List

Function

This API is used to obtain a repository tag list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/labels

Table 4-265 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-266 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
search	No	String	Definition: Search keywords. The tag name can be fuzzily matched. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Mandatory	Type	Description
sort	No	String	Definition: Sorting order Constraints: N/A Value range: • name_asc: Sort by tag name in ascending order. • name_desc: Sort by tag name in descending order. • created_asc: Sort by tag creation time in ascending order. • created_desc: Sort by tag creation time in descending order. • updated_desc: Sort by tag update time in descending order. -*updated_asc: Sort by tag update time in ascending order. Default value: name_asc Default value: name_asc Enumeration values: • name_asc • name_desc • created_asc • created_desc • updated_asc • updated_desc

Parameter	Mandatory	Type	Description
include_expired	No	Boolean	Definition: Whether it includes invalid tags. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: true Default value: true
view	No	String	Definition: Result set attribute. Different results are returned based on the given parameters. Constraints: N/A. Value range: • simple: Return brief information. • basic: Return basic information. • detail: Return detailed information. Default value: basic Default value: basic Enumeration values: • simple • basic • detail

Request Parameters

Table 4-267 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-268** Response body parameters

Parameter	Type	Description
[items]	Array of objects	Tag list.

Example Requests

None

Example Responses

Status code: 200

Repository tag list.

```
[ {  
  "id" : 115,  
  "name" : "bug",  
  "color" : "#6BC950",  
  "description" : "",  
  "text_color" : "#FFFFFF",  
  "expires_at" : "2025-06-10",  
  "is_expired" : true,  
  "open_merge_requests_count" : 0,  
  "priority" : 0,
```

```
"is_repository_label" : true  
}]
```

Status Codes

Status Code	Description
200	Repository tag list.

Error Codes

See [Error Codes](#).

4.1.2.20 Creating a Repository Tag

Function

This API is used to create a repository tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/labels

Table 4-269 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-270 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-271 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Tag name. Constraints: N/A. Value range: N/A. Default value: N/A.
color	No	String	Definition: Tag color, which is provided in a 6-character hexadecimal format starting with sign (#) (for example, #FFAABB). Constraints: N/A. Value range: Regular expression: <code>^#([a-fA-F0-9]{6})/([a-fA-F0-9]{3})\$</code> Default value: N/A.

Parameter	Mandatory	Type	Description
description	No	String	Definition: Description. Constraints: N/A. Value range: N/A. Default value: N/A.
expires_at	No	String	Definition: Expiration time. Constraints: N/A. Value range: N/A. Default value: N/A.

Response Parameters

Status code: 201

Table 4-272 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Tag ID. Value range: 1-2147483647 Value range: 1~2147483647
name	String	Definition: Tag name. Value range: N/A.

Parameter	Type	Description
color	String	Definition: Tag color, which is provided in a 6-character hexadecimal format starting with sign (#) (for example, #FFAABB). Value range: Regular expression: <code>^#([a-fA-F0-9]{6}/[a-fA-F0-9]{3})\$</code>
description	String	Definition: Description. Value range: N/A.
text_color	String	Definition: Font color, which is provided in a 6-digit hexadecimal format starting with sign (#) (for example, #FFAABB). Value range: Regular expression: <code>^#([a-fA-F0-9]{6}/[a-fA-F0-9]{3})\$</code>
expires_at	String	Definition: Expiration time. Value range: N/A.
is_expired	Boolean	Definition: Whether it is invalid. Value range: N/A.
open_merge_requests_count	Integer	Definition: Number of enabled MRs to be associated. Constraints: This field is returned by the MR repository. Value range: 0-2147483647 Value range: 0~2147483647

Parameter	Type	Description
open_change_request_count	Integer	Definition: Number of enabled CRs to be associated. Constraints: This field is returned by the CR repository. Value range: 0-2147483647 Value range: 0~2147483647
priority	Integer	Definition: Priority. Value range: N/A. Value range: 0~30
is_repository_label	Boolean	Definition: Whether it is a repository tag. Value range: N/A.

Example Requests

```
POST /v4/repositories/123/labels
{
  "name" : "test",
  "color" : "#6BC950",
  "description" : "test1",
  "expires_at" : "2025-6-18"
}
```

Example Responses

Status code: 201

Repository tag.

```
{
  "id" : 76,
  "name" : "test",
  "color" : "#6BC950",
  "description" : "test1",
  "text_color" : "#FFFFFF",
  "expires_at" : "2030-05-16",
  "is_expired" : false,
  "open_merge_requests_count" : 0,
  "priority" : 0,
```

```
"is_repository_label" : true  
}
```

Status Codes

Status Code	Description
201	Repository tag.

Error Codes

See [Error Codes](#).

4.1.2.21 Modifying a Repository Tag

Function

This API is used to modify a repository tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/label

Table 4-273 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-274 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-275 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Tag name. Constraints: N/A. Value range: N/A. Default value: N/A.
new_name	No	String	Definition: New tag name. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Mandatory	Type	Description
color	No	String	Definition: Tag color, which is provided in a 6-character hexadecimal format starting with sign (#) (for example, #FFAABB). Constraints: N/A. Value range: Regular expression: <code>^#([a-fA-F0-9]{6}) ([a-fA-F0-9]{3})\$</code> Default value: N/A.
description	No	String	Definition: Description. Constraints: N/A. Value range: N/A. Default value: N/A.
priority	No	Integer	Definition: Priority. Constraints: N/A. Value range: 0-30 Default value: N/A. Value range: 0~30
expires_at	No	String	Definition: Expiration time. Constraints: N/A. Value range: N/A. Default value: N/A.

Response Parameters

Status code: 200

Table 4-276 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Tag ID. Value range: 1-2147483647 Value range: 1~2147483647
name	String	Definition: Tag name. Value range: N/A.
color	String	Definition: Tag color, which is provided in a 6-character hexadecimal format starting with sign (#) (for example, #FFAABB). Value range: Regular expression: <code>^#([a-fA-F0-9]{6}/[a-fA-F0-9]{3})\$</code>
description	String	Definition: Description. Value range: N/A.
text_color	String	Definition: Font color, which is provided in a 6-digit hexadecimal format starting with sign (#) (for example, #FFAABB). Value range: Regular expression: <code>^#([a-fA-F0-9]{6}/[a-fA-F0-9]{3})\$</code>
expires_at	String	Definition: Expiration time. Value range: N/A.

Parameter	Type	Description
is_expired	Boolean	Definition: Whether it is invalid. Value range: N/A.
open_merge_requests_count	Integer	Definition: Number of enabled MRs to be associated. Constraints: This field is returned by the MR repository. Value range: 0-2147483647 Value range: 0~2147483647
open_change_request_count	Integer	Definition: Number of enabled CRs to be associated. Constraints: This field is returned by the CR repository. Value range: 0-2147483647 Value range: 0~2147483647
priority	Integer	Definition: Priority. Value range: N/A. Value range: 0~30

Example Requests

Modify a repository tag.

```
PUT /v4/repositories/123/label
{
  "name" : "bug22231",
  "description" : "4562",
  "color" : "#000"
}
```

Example Responses

Status code: 200

Get all labels of the project

```
{
  "id" : 24,
  "name" : "bug22231",
  "color" : "#000",
  "description" : "4562",
  "text_color" : "#FFFFFF",
  "expires_at" : null,
  "is_expired" : false,
  "open_merge_requests_count" : 0,
  "priority" : 0
}
```

Status Codes

Status Code	Description
200	Get all labels of the project

Error Codes

See [Error Codes](#).

4.1.2.22 Deleting a Repository Tag

Function

This API is used to delete a repository tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/label

Table 4-277 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-278 Query Parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Tag name. Constraints: Mandatory. Value range: N/A. Default value: N/A.

Request Parameters

Table 4-279 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

Delete an existing label

None

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
204	Delete an existing label

Error Codes

See [Error Codes](#).

4.1.2.23 Viewing the Source of Repository Inheritance Settings

Function

This API is used to view the source of repository inheritance settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/inherit-setting-source

Table 4-280 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-281 Query Parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Name setting. Constraints: N/A. Value range: • protected_branches: Protected branches. • protected_tags: Protected tags. Default value: N/A. Enumeration values: • protected_branches • protected_tags

Request Parameters

Table 4-282 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-283 Response body parameters

Parameter	Type	Description
source_type	String	Definition: Source type. Value range: • project: Project. • group: Repository group. • repository: Repository. Enumeration values: • project • group • repository
source_id	String	Definition: Source ID. Value range: 1-2147483647
upward_inherit_editable	Boolean	Definition: Whether the inheritance settings can be modified. Value range: • true: Yes. • false: No.

Example Requests

None

Example Responses

Status code: 200

Source of repository inheritance settings.

```
{
  "source_type": "repository",
  "source_id": "2112024386",
  "upward_inherit_editable": true
}
```

Status Codes

Status Code	Description
200	Source of repository inheritance settings.

Error Codes

See [Error Codes](#).

4.1.2.24 Creating a Directory in a Specified Branch

Function

This API is used to create a directory in a specified branch.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/repository/dir

Table 4-284 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-285 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-286 Request body parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Definition: Directory path. Constraints: The directory path level can contain a maximum of 29 levels. Value range: N/A. Default value: N/A.
branch_name	Yes	String	Definition: Branch name. Value range: 1 to 200 bytes. Constraints: Existing branch in the repository.

Parameter	Mandatory	Type	Description
commit_message	Yes	String	Definition: Commit message. Value range: N/A.

Response Parameters

Status code: 201

Table 4-287 Response body parameters

Parameter	Type	Description
-	String	Commit ID.

Status code: 401

Table 4-288 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-289 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 201

OK

```
[ "adadadadada213a45ad52dyr545ry" ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.2.25 Obtaining the Repository Contributor List

Function

This API is used to obtain the list of repository contributors.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/contributors

Table 4-290 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-291 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Parameter	Mandatory	Type	Description
order_by	No	String	Definition: Sorting order. Value range: • name: Name. • email: Email. • commits: Number of commits. Default value: commits Enumeration values: • name • email • commits
sort	No	String	Definition: Return sorting. • asc: It is returned by submitted quantity in ascending order. • desc: It is returned by submitted quantity in descending order. Default value: asc Enumeration values: • asc • desc
ref_name	No	String	Definition: Branch or tag name. Constraints: Do not start with hyphen (-), period (.) refs, heads, refs, or remotes. Do not end with . / .lock. Spaces and the following characters are not supported: [\ < ~ ^ : ? * ! () ' " Value range: 1 to 200 characters. Default value: Default branch of the repository.

Parameter	Mandatory	Type	Description
skip_merge	No	Boolean	Definition: Whether to skip the merge. Constraints: N/A. Value range: • false: Skip the merge. • true: Do not skip the merge. Default value: false
author	No	String	Definition: Committer. Constraints: N/A. Value range: N/A. Default value: N/A.

Request Parameters

Table 4-292 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-293 Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request.

Table 4-294 Response body parameters

Parameter	Type	Description
[items]	Array of ContributorDto objects	Contributor information list.

Table 4-295 ContributorDto

Parameter	Type	Description
name	String	Definition: Username. Constraints: N/A. Value range: N/A. Default value: N/A.
email	String	Definition: Email address. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Type	Description
commits	Integer	Definition: Commits. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647
nick_name	String	Definition: Alias. Constraints: N/A. Value range: N/A. Default value: N/A.
tenant_name	String	Definition: Tenant name. Constraints: N/A. Value range: N/A. Default value: N/A.
user_name	String	Definition: Username. Constraints: N/A. Value range: N/A. Default value: N/A.

Status code: 401

Table 4-296 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-297** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
[ {  
  "name" : "abc",  
  "email" : "aaaa@example.com",  
  "commits" : 4,  
  "nick_name" : null,  
  "tenant_name" : "adc",  
  "user_name" : "sda"  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
}
```

```
"error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.2.26 Viewing Repository Inheritance Settings

Function

This API is used to view repository inheritance settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/inherit-setting

Table 4-298 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-299 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-300 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryInheritSettingDto objects	Repository inheritance settings.

Table 4-301 RepositoryInheritSettingDto

Parameter	Type	Description
name	String	Definition: Source type. Value range: • protected_branches: Protected branch settings. • protected_tags: Protected tag settings. • repository_settings: Repository settings. • push_rules: Commit rule settings. • merge_requests: Merge request settings. • e2e_settings: E2E settings. • watermark: Watermark settings. Enumeration values: • protected_branches • protected_tags • repository_settings • push_rules • merge_requests • e2e_settings • watermark
inherit_mod	String	Definition: Inheritance settings. Value range: • inherit: Inherit the upper-level configuration. • custom: Use the current repository configuration. • force_inherit: Inherit upper-level configuration forcibly. Enumeration values: • inherit • custom • force_inherit

Example Requests

None

Example Responses

Status code: 200

Repository inheritance setting list.

```
[ {
  "name" : "protected_branches",
  "inherit_mod" : "custom"
}, {
  "name" : "protected_tags",
  "inherit_mod" : "custom"
}, {
  "name" : "repository_settings",
  "inherit_mod" : "inherit"
}, {
  "name" : "push_rules",
  "inherit_mod" : "inherit"
}, {
  "name" : "merge_requests",
  "inherit_mod" : "inherit"
}, {
  "name" : "e2e_settings",
  "inherit_mod" : "inherit"
}, {
  "name" : "watermark",
  "inherit_mod" : "inherit"
} ]
```

Status Codes

Status Code	Description
200	Repository inheritance setting list.

Error Codes

See [Error Codes](#).

4.1.2.27 Modifying Repository Inheritance Settings

Function

This API is used to modify repository inheritance settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/inherit-setting

Table 4-302 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-303 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-304 Request body parameters

Parameter	Mandatory	Type	Description
data	No	Array of RepositoryInheritSettingUpdateBodyDto objects	Definition: Inheritance settings. Constraints: N/A. Value range: N/A. Default value: N/A.

Table 4-305 RepositoryInheritSettingUpdateBodyDto

Parameter	Mandatory	Type	Description
name	No	String	Definition: Source type. Constraints: N/A. Value range: • protected_branches: Protected branch settings. • protected_tags: Protected tag settings. • repository_settings: Repository settings. • push_rules: Commit rule settings. • merge_requests: Merge request settings. • e2e_settings: E2E settings. • watermark: Watermark settings. Default value: N/A. Enumeration values: • protected_branches • protected_tags • repository_settings • push_rules • merge_requests • e2e_settings • watermark

Parameter	Mandatory	Type	Description
inherit_mod	No	String	Definition: Inheritance settings. Constraints: N/A. Value range: • inherit: Inherit the upper-level configuration. • custom: Use the current repository configuration. Default value: N/A. Enumeration values: • inherit • custom

Response Parameters

Status code: 200

Table 4-306 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryInheritSettingDto objects	Repository inheritance setting list.

Table 4-307 RepositoryInheritSettingDto

Parameter	Type	Description
name	String	Definition: Source type. Value range: • protected_branches: Protected branch settings. • protected_tags: Protected tag settings. • repository_settings: Repository settings. • push_rules: Commit rule settings. • merge_requests: Merge request settings. • e2e_settings: E2E settings. • watermark: Watermark settings. Enumeration values: • protected_branches • protected_tags • repository_settings • push_rules • merge_requests • e2e_settings • watermark
inherit_mod	String	Definition: Inheritance settings. Value range: • inherit: Inherit the upper-level configuration. • custom: Use the current repository configuration. • force_inherit: Inherit upper-level configuration forcibly. Enumeration values: • inherit • custom • force_inherit

Example Requests

This API is used to modify repository inheritance settings.

```
PUT /v4/repositories/123/inherit-setting
{
  "data": [ {
    "name": "protected_branches",
    "inherit_mod": "inherit"
  }, {
    "name": "protected_tags",
    "inherit_mod": "inherit"
  }, {
    "name": "repository_settings",
    "inherit_mod": "inherit"
  }, {
    "name": "push_rules",
    "inherit_mod": "inherit"
  }, {
    "name": "merge_requests",
    "inherit_mod": "inherit"
  }, {
    "name": "e2e_settings",
    "inherit_mod": "inherit"
  }, {
    "name": "watermark",
    "inherit_mod": "inherit"
  } ]
}
```

Example Responses

Status code: 200

Repository inheritance setting list.

```
[ {
  "name": "protected_branches",
  "inherit_mod": "custom"
}, {
  "name": "protected_tags",
  "inherit_mod": "custom"
}, {
  "name": "repository_settings",
  "inherit_mod": "inherit"
}, {
  "name": "push_rules",
  "inherit_mod": "inherit"
}, {
  "name": "merge_requests",
  "inherit_mod": "inherit"
}, {
  "name": "e2e_settings",
  "inherit_mod": "inherit"
}, {
  "name": "watermark",
  "inherit_mod": "inherit"
} ]
```

Status Codes

Status Code	Description
200	Repository inheritance setting list.

Error Codes

See [Error Codes](#).

4.1.2.28 Associating a Common Repository with a Remote Image

Function

This API is used to associate a common repository with a remote image.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/remote-mirror/associate

Table 4-308 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-309 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 201**Table 4-310** Response body parameters

Parameter	Type	Description
id	Integer	Definition Repository image configuration ID.
repository_id	Integer	Definition Repository ID.
update_status	String	Definition Synchronization status.
last_update_at	String	Definition Last modification time.
url	String	Definition Image address.
last_successful_update_at	String	Definition Last successful synchronization time.
number_of_failures	Integer	Definition Number of synchronization failures.

Parameter	Type	Description
mirroring_enabled	Boolean	Definition Enable scheduled synchronization.
is_private	Boolean	Definition Private image.
endpoint_uuid	String	Definition Endpoint UUID.
last_error	String	Definition Last failure information.

Status code: 401**Table 4-311** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-312** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-313 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

This API is used to associate a common repository with a remote image.

```
POST /v4/repositories/123/remote-mirror/associate
```

```
{
  "url" : "https://example.com/0379d2da2bae4c38b3d2fbdb6f2a3f2/test.git"
}
```

Example Responses

Status code: 201

Image information.

```
{
  "id" : 12439,
  "repository_id" : 2112029391,
  "update_status" : "finished",
  "last_update_at" : "2025-04-24T20:04:44.000+08:00",
  "url" : "https://example.com/0379d2da2bae4c38b3d2fbdb6f2a3f2/test.git",
  "last_successful_update_at" : "2025-04-24T20:04:44.000+08:00",
  "number_of_failures" : null,
  "mirroring_enabled" : false,
  "is_private" : false,
  "endpoint_uuid" : null,
  "last_error" : null
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401001",
  "error_msg" : "No access permission."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
201	Image information.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.29 Viewing the General Policies of a Repository

Function

This API is used to view the general policies of the repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/general-policy

Table 4-314 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-315 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-316** Response body parameters

Parameter	Type	Description
disable_fork	Boolean	Definition: Whether to forbid to fork this repository. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Parameter	Type	Description
generate_pre_merge_ref	Boolean	Definition: Whether to pre-merge MRs. Constraints: N/A. Value range: • true: Pre-merge MRs are not allowed. • false: Pre-merge MRs are allowed. Default value: N/A.
branch_name_regex	String	Definition: Branch name rule. Constraints: N/A. Value range: N/A. Default value: N/A.
tag_name_regex	String	Definition: Tag name rule. Constraints: N/A. Value range: N/A. Default value: N/A.
forbidden_developer_create_branch	Boolean	Definition: Whether to forbid developers to create branches. Constraints: N/A. Value range: • true: Yes. • false: No.
create_branch_whitelist_users	Array of PushRuleDevelopersDto objects	Definition: A whitelist of developers who have the permission to create branches.

Table 4-317 PushRuleDevelopersDto

Parameter	Type	Description
id	AnyType	Definition: Primary key ID. Value range: 1~2147483647
user_id	AnyType	Definition: User ID. Value range: 1~2147483647
user_name	AnyType	Definition: Username.
nick_name	String	Definition: Alias. Constraints: N/A. Value range: N/A. Default value: N/A.
tenant_name	String	Definition: Tenant name. Constraints: N/A. Value range: N/A. Default value: N/A.

Example Requests

None

Example Responses

Status code: 200

General policies of a repository.

```
{
  "disable_fork" : true,
  "generate_pre_merge_ref" : true,
```

```
"branch_name_regex" : "^([0-9])*$",  
"tag_name_regex" : "^([0-9])*$",  
"forbidden_developer_create_branch" : true,  
"create_branch_whitelist_users" : [ {  
  "id" : "198",  
  "user_id" : "9458",  
  "user_name" : "test_01",  
  "nick_name" : "test_01",  
  "tenant_name" : "test"  
} ]  
}
```

Status Codes

Status Code	Description
200	General policies of a repository.

Error Codes

See [Error Codes](#).

4.1.2.30 Modifying the General Policies of a Repository

Function

This API is used to modify the general policies of a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/general-policy

Table 4-318 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-319 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-320 Request body parameters

Parameter	Mandatory	Type	Description
disable_fork	No	Boolean	Definition: Whether to forbid to fork this repository. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
generate_pre_merge_ref	No	Boolean	Definition: Whether to pre-merge MRs. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Parameter	Mandatory	Type	Description
branch_name_regex	No	String	Definition: Branch name rule. Constraints: N/A. Value range: N/A. Default value: N/A.
tag_name_regex	No	String	Definition: Tag name rule. Constraints: N/A. Value range: N/A. Default value: N/A.
forbidden_developer_create_branch	No	Boolean	Definition: Whether to forbid developers to create branches. Constraints: N/A. Value range: • true: Yes. • false: No.
create_branch_whitelist_user_ids	No	String	Definition: A whitelist of developers who have the permission to create branches. Separate their IDs using commas (,).

Response Parameters

Status code: 200

Table 4-321 Response body parameters

Parameter	Type	Description
disable_fork	Boolean	Definition: Whether to forbid to fork this repository. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
generate_pre_merge_ref	Boolean	Definition: Whether to pre-merge MRs. Constraints: N/A. Value range: • true: Pre-merge MRs are not allowed. • false: Pre-merge MRs are allowed. Default value: N/A.
branch_name_regex	String	Definition: Branch name rule. Constraints: N/A. Value range: N/A. Default value: N/A.
tag_name_regex	String	Definition: Tag name rule. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Type	Description
forbidden_developer_create_branch	Boolean	Definition: Whether to forbid developers to create branches. Constraints: N/A. Value range: • true: Yes. • false: No.
create_branch_whitelist_users	Array of PushRuleDevelopersDto objects	Definition: A whitelist of developers who have the permission to create branches.

Table 4-322 PushRuleDevelopersDto

Parameter	Type	Description
id	AnyType	Definition: Primary key ID. Value range: 1~2147483647
user_id	AnyType	Definition: User ID. Value range: 1~2147483647
user_name	AnyType	Definition: Username.
nick_name	String	Definition: Alias. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Type	Description
tenant_name	String	Definition: Tenant name. Constraints: N/A. Value range: N/A. Default value: N/A.

Example Requests

This API is used to modify the general policies of a repository.

```
PUT /v4/repositories/123/general-policy
{
  "disable_fork" : true,
  "generate_pre_merge_ref" : true,
  "branch_name_regex" : "^[0-9]*$",
  "tag_name_regex" : "^[0-9]*$",
  "forbidden_developer_create_branch" : true,
  "create_branch_whitelist_user_ids" : "9458,1234"
}
```

Example Responses

Status code: 200

General policies of a repository.

```
{
  "disable_fork" : true,
  "generate_pre_merge_ref" : true,
  "branch_name_regex" : "^[0-9]*$",
  "tag_name_regex" : "^[0-9]*$",
  "forbidden_developer_create_branch" : true,
  "create_branch_whitelist_users" : [ {
    "id" : "198,",
    "user_id" : "9458,",
    "user_name" : "test_01",
    "nick_name" : "test_01",
    "tenant_name" : "test"
  }, {
    "id" : "198,",
    "user_id" : "1234,",
    "user_name" : "test_02",
    "nick_name" : "test_02",
    "tenant_name" : "t"
  } ]
}
```

Status Codes

Status Code	Description
200	General policies of a repository.

Error Codes

See [Error Codes](#).

4.1.2.31 Viewing the General Commit Rules of the Repository

Function

This API is used to view the general commit rules of the repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/general-commit-rule

Table 4-323 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-324 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-325** Response body parameters

Parameter	Type	Description
reject_unsigned_commits	Boolean	Definition: Whether to reject non-signed-off-by commits. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Parameter	Type	Description
reject_not_signed_by_gpg	Boolean	Definition: Whether to reject commits not signed by GPG. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
deny_delete_tag	Boolean	Definition: Whether tags can be deleted. Constraints: N/A. Value range: • true: Tags cannot be deleted. • false: Tags can be deleted. Default value: N/A.
prevent_secrets	Boolean	Definition: Whether to prevent committing secrets. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
deny_force_push	Boolean	Definition: Whether to disable forcible push. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Example Requests

None

Example Responses

Status code: 200

General commit rules of the repository.

```
{
  "reject_unsigned_commits" : true,
  "reject_not_signed_by_gpg" : true,
  "deny_delete_tag" : true,
  "prevent_secrets" : true,
  "deny_force_push" : true
}
```

Status Codes

Status Code	Description
200	General commit rules of the repository.

Error Codes

See [Error Codes](#).

4.1.2.32 Modifying the Common Commit Rules of a Repository

Function

This API is used to modify the general commit rules of a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/general-commit-rule

Table 4-326 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-327 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-328 Request body parameters

Parameter	Mandatory	Type	Description
reject_unsigned_commits	No	Boolean	Definition: Whether to reject non-signed-off-by commits. Constraints: N/A Value range: • true: yes • false: no Default value: N/A
reject_not_signed_by_gpg	No	Boolean	Definition: Whether to reject commits not signed by GPG. Constraints: N/A Value range: • true: yes • false: no Default value: N/A
deny_delete_tag	No	Boolean	Definition: Whether tags can be deleted. Constraints: N/A Value range: • true: Tags cannot be deleted. • false: Tags can be deleted. Default value: N/A

Parameter	Mandatory	Type	Description
prevent_secrets	No	Boolean	Definition: Whether to prevent committing secrets. Constraints: N/A Value range: • true: The submission of confidential files is blocked. • false: The submission of confidential files is allowed. Default value: N/A
deny_force_push	No	Boolean	Definition: Whether to disable force push. Constraints: N/A Value range: • true: Force push is disabled. • false: Force push is allowed. Default value: N/A

Response Parameters

Status code: 200

Table 4-329 Response body parameters

Parameter	Type	Description
reject_unsigned_commits	Boolean	Definition: Whether to reject non-signed-off-by commits. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Parameter	Type	Description
reject_not_signed_by_gpg	Boolean	Definition: Whether to reject commits not signed by GPG. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
deny_delete_tag	Boolean	Definition: Whether tags can be deleted. Constraints: N/A. Value range: • true: Tags cannot be deleted. • false: Tags can be deleted. Default value: N/A.
prevent_secrets	Boolean	Definition: Whether to prevent committing secrets. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
deny_force_push	Boolean	Definition: Whether to disable forcible push. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Example Requests

Modify general commit rules of the repository

```
PUT /v4/repositories/{repository_id}/general-commit-rule
{
  "reject_unsigned_commits" : true,
  "reject_not_signed_by_gpg" : true,
  "deny_delete_tag" : true,
  "prevent_secrets" : true,
  "deny_force_push" : true
}
```

Example Responses

Status code: 200

General commit rules of the repository

```
{
  "reject_unsigned_commits" : true,
  "reject_not_signed_by_gpg" : true,
  "deny_delete_tag" : true,
  "prevent_secrets" : true,
  "deny_force_push" : true
}
```

Status Codes

Status Code	Description
200	General commit rules of the repository

Error Codes

See [Error Codes](#).

4.1.2.33 Creating a Repository Commit Rule

Function

This API is used to create a repository commit rule.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/commit-rules

Table 4-330 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-331 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-332 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Rule name Constraints: Mandatory Value range: N/A Default value: N/A
branch_name	Yes	String	Definition: Branch rule Constraints: Mandatory Value range: N/A Default value: N/A
commit_message_regex	No	String	Definition: Commit message match Regular expression that every commit message must match, for example, \d+.* Every commit message that matches the regex can be committed. If this field is left blank, all messages can be committed. For E2E code tracing, you can set this expression to require that the committed information must contain a work item number. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
commit_message_negative_regex	No	String	Definition: Commit message negative match Regular expression that every commit message must match, for example, \d+.* Every file name that matches the regex provided in it, will be rejected. If this field is left blank, all messages can be committed. Constraints: N/A Value range: N/A Default value: N/A
author_regex	No	String	Definition: Regular expression of the committer. Regular expression matching must be performed for the committer, for example, /([a-zA-Z]\d){7}/. If this field is left blank, any committer is allowed. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
author_email_regex	No	String	Definition: Regular expression of the committer's email address. Regular expression matching must be performed for all committer's email addresses, for example, @my-company.com\$. If this field is left blank, any committer email address is allowed. Constraints: N/A Value range: N/A Default value: N/A
prohibited_file_name_regex	No	String	Definition: Regular expression of the file name that cannot be committed. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
max_file_size	No	Integer	Definition: Maximum size of a single file, in MB. If the size of a single file exceeds the specified value, the addition or update push will be rejected. Repo recommends max. 50 MB. The system supports max. 300 MB for each file. Constraints: N/A Value range: N/A Default value: 50 Value range: 1~300
binary_gate_enabled	No	Boolean	Definition: Do not allow new binary files (privileged users excepted) Constraints: N/A Value range: • true: Binary files cannot be added. • false: Binary files can be added. Default value: N/A

Parameter	Mandatory	Type	Description
allowed_modify_binary	No	Boolean	Definition: Allow changes to binary files (privileged users excepted) Constraints: N/A Value range: • true: The binary file can be modified. • false: The binary file cannot be modified. Default value: N/A
allowed_binary_file_name_regex	No	String	Definition: Binary file whitelist (files that can be directly imported to the database) All pushed binary file names must match the regular expression, for example, (.png .xls .xlsx .docx .doc)\$. Constraints: N/A Value range: N/A Default value: N/A
privileged_user_ids	No	Array of integers	Definition: Privileged user ID list (users who can directly push all binary files to the database) Only privileged users can push binary files. Constraints: N/A Value range: N/A Default value: N/A Value range: 1~2147483647

Parameter	Mandatory	Type	Description
effective_date	No	String	Definition: Rule effective time, for example, 2025-8-19. Constraints: N/A Value range: N/A Default value: N/A
skip_rule_check	No	Boolean	Definition: Rule detection is skipped. Constraints: This parameter is available only for the CR repository. Value range: N/A Default value: N/A
skip_rule_end_date	No	String	Definition: Expiration time of rule skipping, for example, 2025-8-19 10:00:00. Constraints: This parameter is available only for the CR repository. Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-333 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Primary key ID. Value range: N/A. Value range: 1~2147483647
repository_id	Integer	Definition: Repository ID. Value range: N/A. Value range: 1~2147483647
commit_message_regex	String	Definition: Commit message match.
commit_message_negative_regex	String	Definition: Commit message negative match.
prohibited_file_name_regex	String	Definition: File name that cannot be submitted.
author_email_regex	String	Definition: Committer's email address.
max_file_size	Integer	Definition: Maximum size of a single file, in MB. Value range: 0~300
allowed_max_file_size	Integer	Definition: Maximum size of a single file, in MB. Value range: 0~300
effective_date	String	Definition: Rule effective time.

Parameter	Type	Description
binary_gate_enabled	Boolean	Definition: Whether to forbid new binary files (invalid for privileged users). Constraints: N/A. Value range: • true: Binary files cannot be added. • false: Binary files can be added.
privileged_users	Array of RepositoryUserBasicDto objects	Definition: Privileged user (who can directly push all binary files to the database).
allowed_modify_binary	Boolean	Definition: Whether to allow changes to binary files (privileged users excepted). Constraints: N/A. Value range: • true: Binary files can be modified. • false: Binary files cannot be modified.
allowed_binary_file_name_regex	String	Definition: Binary file whitelist (that can be imported to the database).
author_regex	AnyType	Definition: Committer.
updated_at	String	Definition: Update time.
name	String	Definition: Rule name. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Type	Description
branch_name	String	Definition: Branch rule. Constraints: N/A. Value range: N/A. Default value: N/A.
created_at	String	Definition: Creation time. Constraints: N/A. Value range: N/A. Default value: N/A.
skip_rule_check	Boolean	Definition: Rule detection is skipped. Constraints: This parameter is available only for the CR repository.
skip_rule_end_date	String	Definition: Expiration time of rule skipping, for example, 2025-8-19. Constraints: This parameter is available only for the CR repository.

Table 4-334 RepositoryUserBasicDto

Parameter	Type	Description
id	Integer	Definition: User ID. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Username. Constraints: N/A.
username	String	Definition: Username. Constraints: N/A.
state	String	Definition: User status Value range: - active: activated - blocked: disabled Enumeration values: active blocked
service_license_status	Integer	Definition: Service-level permission status. 0: Disabled; 1: Enabled. Constraints: N/A. Value range: 1~2147483647
name_cn	String	Definition: Username in Chinese. Constraints: N/A.
nick_name	String	Definition: User alias. Constraints: N/A.
tenant_name	String	Definition: Tenant name. Constraints: N/A.

Example Requests

Create a repository commit rule

```
POST /v4/repositories/{repository_id}/commit-rules
{
  "binary_gate_enabled" : true,
  "allowed_modify_binary" : true,
  "max_file_size" : 50,
  "effective_date" : null,
  "privileged_user_ids" : [ 9124 ],
  "name" : "ffffff2233",
  "branch_name" : "mas1*"
}
```

Example Responses

Status code: 200

Repository commit rule

```
{
  "id" : 169352,
  "repository_id" : 2112035798,
  "commit_message_regex" : "test",
  "commit_message_negative_regex" : "test",
  "prohibited_file_name_regex" : "test",
  "author_email_regex" : "test",
  "max_file_size" : 50,
  "allowed_max_file_size" : 300,
  "effective_date" : "2025-01-14T20:13:56.000+08:00",
  "binary_gate_enabled" : true,
  "privileged_users" : [ {
    "id" : 9124,
    "name" : "test_user",
    "username" : "test_user",
    "state" : "active",
    "service_license_status" : null,
    "name_cn" : "test_user",
    "nick_name" : "beta_dv",
    "tenant_name" : "test_tenant"
  } ],
  "allowed_modify_binary" : true,
  "allowed_binary_file_name_regex" : "test",
  "author_regex" : "test",
  "name" : "2",
  "branch_name" : "2",
  "created_at" : "2025-06-20T17:37:55.000+08:00",
  "updated_at" : "2025-06-20T17:37:55.000+08:00"
}
```

Status Codes

Status Code	Description
200	Repository commit rule

Error Codes

See [Error Codes](#).

4.1.2.34 Viewing Repository Commit Rules

Function

This API is used to view repository commit rules.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/commit-rules

Table 4-335 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-336 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-337 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-338** Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request.

Table 4-339 Response body parameters

Parameter	Type	Description
[items]	Array of CommitRuleDto objects	Repository commit rule list.

Table 4-340 CommitRuleDto

Parameter	Type	Description
id	Integer	Definition: Primary key ID. Value range: N/A. Value range: 1~2147483647
repository_id	Integer	Definition: Repository ID. Value range: N/A. Value range: 1~2147483647
commit_message_regex	String	Definition: Commit message match.
commit_message_negative_regex	String	Definition: Commit message negative match.
prohibited_file_name_regex	String	Definition: File name that cannot be submitted.
author_email_regex	String	Definition: Committer's email address.
max_file_size	Integer	Definition: Maximum size of a single file, in MB. Value range: 0~300
allowed_max_file_size	Integer	Definition: Maximum size of a single file, in MB. Value range: 0~300
effective_date	String	Definition: Rule effective time.

Parameter	Type	Description
binary_gate_enabled	Boolean	Definition: Whether to forbid new binary files (invalid for privileged users). Constraints: N/A. Value range: • true: Binary files cannot be added. • false: Binary files can be added.
privileged_users	Array of RepositoryUserBasicDto objects	Definition: Privileged user (who can directly push all binary files to the database).
allowed_modify_binary	Boolean	Definition: Whether to allow changes to binary files (privileged users excepted). Constraints: N/A. Value range: • true: Binary files can be modified. • false: Binary files cannot be modified.
allowed_binary_file_name_regex	String	Definition: Binary file whitelist (that can be imported to the database).
author_regex	AnyType	Definition: Committer.
updated_at	String	Definition: Update time.
name	String	Definition: Rule name. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Type	Description
branch_name	String	Definition: Branch rule. Constraints: N/A. Value range: N/A. Default value: N/A.
created_at	String	Definition: Creation time. Constraints: N/A. Value range: N/A. Default value: N/A.
skip_rule_check	Boolean	Definition: Rule detection is skipped. Constraints: This parameter is available only for the CR repository.
skip_rule_end_date	String	Definition: Expiration time of rule skipping, for example, 2025-8-19. Constraints: This parameter is available only for the CR repository.

Table 4-341 RepositoryUserBasicDto

Parameter	Type	Description
id	Integer	Definition: User ID. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Username. Constraints: N/A.
username	String	Definition: Username. Constraints: N/A.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
service_license_status	Integer	Definition: Service-level permission status. 0: Disabled; 1: Enabled. Constraints: N/A. Value range: 1~2147483647
name_cn	String	Definition: Username in Chinese. Constraints: N/A.
nick_name	String	Definition: User alias. Constraints: N/A.
tenant_name	String	Definition: Tenant name. Constraints: N/A.

Example Requests

None

Example Responses

Status code: 200

Repository commit rule list.

```
[ {
  "id" : 169352,
  "repository_id" : 2112035798,
  "commit_message_regex" : "test",
  "commit_message_negative_regex" : "test",
  "prohibited_file_name_regex" : "test",
  "author_email_regex" : "test",
  "max_file_size" : 50,
  "allowed_max_file_size" : 300,
  "effective_date" : "2025-01-14T20:13:56.000+08:00",
  "binary_gate_enabled" : true,
  "privileged_users" : [ {
    "id" : 9124,
    "name" : "test_user",
    "username" : "test_user",
    "state" : "active",
    "service_license_status" : null,
    "name_cn" : "test_user",
    "nick_name" : "beta_dv",
    "tenant_name" : "test_tenant"
  } ],
  "allowed_modify_binary" : true,
  "allowed_binary_file_name_regex" : "test",
  "author_regex" : "test",
  "name" : "2",
  "branch_name" : "2",
  "created_at" : "2025-06-20T17:37:55.000+08:00",
  "updated_at" : "2025-06-20T17:37:55.000+08:00"
} ]
```

Status Codes

Status Code	Description
200	Repository commit rule list.

Error Codes

See [Error Codes](#).

4.1.2.35 Modifying a Repository Commit Rule

Function

This API is used to modify repository commit rules.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/commit-rules/{commit_rule_id}

Table 4-342 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
commit_rule_id	Yes	Integer	Definition: Repository commit rule ID Constraints: N/A Value range: 1-2147483647 Default value: N/A Value range: 1~2147483647

Request Parameters

Table 4-343 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-344 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Rule name Constraints: Mandatory Value range: N/A Default value: N/A
branch_name	Yes	String	Definition: Branch rule Constraints: Mandatory Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
commit_message_regex	No	String	Definition: Commit message match Regular expression that every commit message must match, for example, \d+.* Every commit message that matches the regex can be committed. If this field is left blank, all messages can be committed. For E2E code tracing, you can set this expression to require that the committed information must contain a work item number. Constraints: N/A Value range: N/A Default value: N/A
commit_message_negative_regex	No	String	Definition: Commit message negative match Regular expression that every commit message must match, for example, \d+.* Every file name that matches the regex provided in it, will be rejected. If this field is left blank, all messages can be committed. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
author_regex	No	String	Definition: Regular expression of the committer. Regular expression matching must be performed for the committer, for example, <code>/([a-zA-Z]\d){7}/</code> . If this field is left blank, any committer is allowed. Constraints: N/A Value range: N/A Default value: N/A
author_email_regex	No	String	Definition: Regular expression of the committer's email address. Regular expression matching must be performed for all committer's email addresses, for example, <code>@my-company.com\$</code> . If this field is left blank, any committer email address is allowed. Constraints: N/A Value range: N/A Default value: N/A
prohibited_file_name_regex	No	String	Definition: Regular expression of the file name that cannot be committed. Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
max_file_size	No	Integer	Definition: Maximum size of a single file, in MB. If the size of a single file exceeds the specified value, the addition or update push will be rejected. Repo recommends max. 50 MB. The system supports max. 300 MB for each file. Constraints: N/A Value range: N/A Default value: 50 Value range: 1~300
binary_gate_enabled	No	Boolean	Definition: Do not allow new binary files (privileged users excepted) Constraints: N/A Value range: • true: Binary files cannot be added. • false: Binary files can be added. Default value: N/A

Parameter	Mandatory	Type	Description
allowed_modify_binary	No	Boolean	Definition: Allow changes to binary files (privileged users excepted) Constraints: N/A Value range: • true: The binary file can be modified. • false: The binary file cannot be modified. Default value: N/A
allowed_binary_file_name_regex	No	String	Definition: Binary file whitelist (files that can be directly imported to the database) All pushed binary file names must match the regular expression, for example, (.png .xls .xlsx .docx .doc)\$. Constraints: N/A Value range: N/A Default value: N/A
privileged_user_ids	No	Array of integers	Definition: Privileged user ID list (users who can directly push all binary files to the database) Only privileged users can push binary files. Constraints: N/A Value range: N/A Default value: N/A Value range: 1~2147483647

Parameter	Mandatory	Type	Description
effective_date	No	String	Definition: Rule effective time, for example, 2025-8-19. Constraints: N/A Value range: N/A Default value: N/A
skip_rule_check	No	Boolean	Definition: Rule detection is skipped. Constraints: This parameter is available only for the CR repository. Value range: N/A Default value: N/A
skip_rule_end_date	No	String	Definition: Expiration time of rule skipping, for example, 2025-8-19 10:00:00. Constraints: This parameter is available only for the CR repository. Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-345 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Primary key ID. Value range: N/A. Value range: 1~2147483647
repository_id	Integer	Definition: Repository ID. Value range: N/A. Value range: 1~2147483647
commit_message_regex	String	Definition: Commit message match.
commit_message_negative_regex	String	Definition: Commit message negative match.
prohibited_file_name_regex	String	Definition: File name that cannot be submitted.
author_email_regex	String	Definition: Committer's email address.
max_file_size	Integer	Definition: Maximum size of a single file, in MB. Value range: 0~300
allowed_max_file_size	Integer	Definition: Maximum size of a single file, in MB. Value range: 0~300
effective_date	String	Definition: Rule effective time.

Parameter	Type	Description
binary_gate_enabled	Boolean	Definition: Whether to forbid new binary files (invalid for privileged users). Constraints: N/A. Value range: • true: Binary files cannot be added. • false: Binary files can be added.
privileged_users	Array of RepositoryUserBasicDto objects	Definition: Privileged user (who can directly push all binary files to the database).
allowed_modify_binary	Boolean	Definition: Whether to allow changes to binary files (privileged users excepted). Constraints: N/A. Value range: • true: Binary files can be modified. • false: Binary files cannot be modified.
allowed_binary_file_name_regex	String	Definition: Binary file whitelist (that can be imported to the database).
author_regex	AnyType	Definition: Committer.
updated_at	String	Definition: Update time.
name	String	Definition: Rule name. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Type	Description
branch_name	String	Definition: Branch rule. Constraints: N/A. Value range: N/A. Default value: N/A.
created_at	String	Definition: Creation time. Constraints: N/A. Value range: N/A. Default value: N/A.
skip_rule_check	Boolean	Definition: Rule detection is skipped. Constraints: This parameter is available only for the CR repository.
skip_rule_end_date	String	Definition: Expiration time of rule skipping, for example, 2025-8-19. Constraints: This parameter is available only for the CR repository.

Table 4-346 RepositoryUserBasicDto

Parameter	Type	Description
id	Integer	Definition: User ID. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Username. Constraints: N/A.
username	String	Definition: Username. Constraints: N/A.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
service_license_status	Integer	Definition: Service-level permission status. 0: Disabled; 1: Enabled. Constraints: N/A. Value range: 1~2147483647
name_cn	String	Definition: Username in Chinese. Constraints: N/A.
nick_name	String	Definition: User alias. Constraints: N/A.
tenant_name	String	Definition: Tenant name. Constraints: N/A.

Example Requests

Modify a repository commit rule

```
PUT /v4/repositories/{repository_id}/commit-rules/{commit_rule_id}

{
  "binary_gate_enabled" : true,
  "allowed_modify_binary" : true,
  "max_file_size" : 50,
  "effective_date" : null,
  "privileged_user_ids" : [ 9124 ],
  "name" : "ffffff2233",
  "branch_name" : "mas1*"
}
```

Example Responses

Status code: 200

Repository commit rule

```
{
  "id" : 169352,
  "repository_id" : 2112035798,
  "commit_message_regex" : "test",
  "commit_message_negative_regex" : "test",
  "prohibited_file_name_regex" : "test",
  "author_email_regex" : "test",
  "max_file_size" : 50,
  "allowed_max_file_size" : 300,
  "effective_date" : "2025-01-14T20:13:56.000+08:00",
  "binary_gate_enabled" : true,
  "privileged_users" : [ {
    "id" : 9124,
    "name" : "test_user",
    "username" : "test_user",
    "state" : "active",
    "service_license_status" : null,
    "name_cn" : "test_user",
    "nick_name" : "beta_dv",
    "tenant_name" : "test_tenant"
  } ],
  "allowed_modify_binary" : true,
  "allowed_binary_file_name_regex" : "test",
  "author_regex" : "test",
  "name" : "2",
  "branch_name" : "2",
  "created_at" : "2025-06-20T17:37:55.000+08:00",
  "updated_at" : "2025-06-20T17:37:55.000+08:00"
}
```

Status Codes

Status Code	Description
200	Repository commit rule

Error Codes

See [Error Codes](#).

4.1.2.36 Viewing the Repository Import Task List of the Current User

Function

This API is used to view the repository import task list of the current user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/user/repository-import-records

Table 4-347 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
state	No	String	Definition: Status. Value range: ● finished: The import is successful. ● fail: The import fails. ● importing: Importing. Enumeration values: ● finished ● fail ● importing

Parameter	Mandatory	Type	Description
source_type	No	String	Definition: Import source. Value range: • gitee • self_managed_gitlab • gitlab • github • git • svn • coding • bitbucket • gerrit • codeup Enumeration values: • gitee • self_managed_gitlab • gitlab • github • git • svn • coding • bitbucket • gerrit • codeup
created_after	No	String	Definition: Filter those imported after the time.
created_before	No	String	Definition: Filter those imported before the time.
finished_after	No	String	Definition: Filter those imported and completed after the time.
finished_before	No	String	Definition: Filter those imported and completed before the time.

Parameter	Mandatory	Type	Description
search	No	String	Definition: This API is used to search for repositories.
order_by	No	String	Definition: Sorting order. Value range: • created_at: Import time. • source_repo_name: Source repository path. • size: Source repository capacity. Enumeration values: • created_at • source_repo_name • size
sort	No	String	Definition: Return sorting. • asc: Ascending order. • desc: Descending order. Default value: desc Enumeration values: • asc • desc

Request Parameters

Table 4-348 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-349 Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request.

Table 4-350 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryImportRecordDto objects	Repository import task list of the current user.

Table 4-351 RepositoryImportRecordDto

Parameter	Type	Description
id	Integer	Definition: Primary key ID. Value range: 1~2147483647
state	String	Definition: Rule name. Constraints: N/A. Value range: • finished: The import is successful. • fail: The import fails. • importing: Importing. Default value: N/A. Enumeration values: • **finished**: The import is successful. • **fail**: The import fails. • **importing**: Importing.
repository	RepositorySimple Dto object	Definition: Repository information.
origin_full_name	String	Definition: Source repository URL.
source_url	String	Definition: Source repository address.

Parameter	Type	Description
source_type	String	Definition: Import source. Value range: • gitee • self_managed_gitlab • gitlab • github • git • svn • coding • bitbucket • gerrit • codeup Enumeration values: • gitee • self_managed_gitlab • gitlab • github • git • svn • coding • bitbucket • gerrit • codeup
created_at	String	Definition: Import time.
finished_at	String	Definition: Time when the import is complete.
repository_size	Double	Definition: Source repository capacity. Value range: 0.0~30720.0
error_message	String	Definition: Failure cause.
target_full_name	String	Definition: Repository path.

Parameter	Type	Description
target_project_id	String	Definition: Project ID.

Table 4-352 RepositorySimpleDto

Parameter	Type	Description
id	Integer	Definition: Repository ID. Value range: 1~2147483647
description	String	Definition: Repository description.
name	String	Definition: Repository name.
name_with_name space	String	Definition: Repository full name.
path	String	Definition: Repository path.
path_with_names pace	String	Definition: Complete repository path.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
archived	Boolean	Definition: Archived or not.
ssh_url_to_repo	String	Definition: Repository SSH address.
http_url_to_repo	String	Definition: HTTP address of the repository.
project_id	String	Definition: Repository project ID.
project_name	String	Definition: Repository project name.

Parameter	Type	Description
develop_mode	String	Definition: Repository development mode. Value range: • normal • CR Enumeration values: • normal • CR
moderation_result	Boolean	Definition: Review status.

Example Requests

None

Example Responses

Status code: 200

Repository import task list of the current user.

```
[ {
  "id" : 2623,
  "state" : "finished",
  "repository" : {
    "id" : 2112032644,
    "description" : "Description.",
    "name" : "007test",
    "name_with_namespace" : "3fba70fab5864b40bb759b5466f34e87 / 007test",
    "path" : "007test",
    "path_with_namespace" : "3fba70fab5864b40bb759b5466f34e87/007test",
    "created_at" : "2025-05-26T10:54:37.000+08:00",
    "updated_at" : "2025-05-26T10:54:37.000+08:00",
    "archived" : false,
    "ssh_url_to_repo" : "git@example.com:3fba70fab5864b40bb759b5466f34e87/007test.git",
    "http_url_to_repo" : "https://example.com/3fba70fab5864b40bb759b5466f34e87/007test.git",
    "project_id" : "3fba70fab5864b40bb759b5466f34e87",
    "project_name" : "Scrum0520north7",
    "develop_mode" : "normal",
    "moderation_result" : true
  },
  "origin_full_name" : "3fba70fab5864b40bb759b5466f34e87/007",
  "source_url" : "https://example.com/3fba70fab5864b40bb759b5466f34e87/007.git",
  "source_type" : "git",
  "created_at" : "2025-05-26T10:54:37.000+08:00",
  "finished_at" : "2025-05-26T10:54:39.000+08:00",
  "repository_size" : 0,
  "target_full_name" : "Scrum0520north7/007test",
  "target_project_id" : "3fba70fab5864b40bb759b5466f34e87"
} ]
```

Status Codes

Status Code	Description
200	Repository import task list of the current user.

Error Codes

See [Error Codes](#).

4.1.2.37 Obtaining the Latest Push Event of a Repository

Function

This API is used to obtain the latest push event of a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/last-push-event

Table 4-353 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-354 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-355** Response body parameters

Parameter	Type	Description
ref	String	Definition: Branch or tag name. Value range: N/A.
created_at	String	Definition: Creation time. Value range: N/A.
repository	RepositoryBriefDto object	Definition: Repository information. Value range: N/A.

Table 4-356 RepositoryBriefDto

Parameter	Type	Description
id	Integer	Definition: Repository ID. Value range: N/A. Value range: 1~2147483647
name	String	Definition: Repository name. Value range: N/A.
path	String	Definition: Repository path. Value range: N/A.
path_with_names pace	String	Definition: Complete repository path. Value range: N/A.
project_name	String	Definition: Repository project name. Value range: N/A.

Example Requests

None

Example Responses

Status code: 200

Obtain the latest push event of a repository.

```
{
  "ref" : "master",
  "created_at" : "2025-06-19T21:27:31.000+08:00",
  "repository" : {
    "id" : 2112036131,
    "name" : "ddddddddddd",
    "path" : "ddddddddddd",
    "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/test",
    "project_name" : "kanban"
  }
}
```

```
}  
}
```

Status Codes

Status Code	Description
200	Obtain the latest push event of a repository.

Error Codes

See [Error Codes](#).

4.1.2.38 Obtaining Repository Statistics Summary

Function

This API is used to obtain repository statistics summary.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/statistics-summary

Table 4-357 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-358 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-359** Response body parameters

Parameter	Type	Description
branches_count	Integer	Definition: Number of branches. Value range: N/A. Value range: 1~2147483647
commits_count	Integer	Definition: Commits. Value range: N/A. Value range: 1~2147483647

Parameter	Type	Description
members_count	Integer	Definition: Number of members. Value range: 1~2147483647
tags_count	Integer	Definition: Number of tags. Value range: N/A. Value range: 1~2147483647
merge_request_count	Long	Definition: Number of merge requests. Value range: N/A. Value range: 1~2147483647
note_count	Long	Definition: Number of remarks. Value range: N/A. Value range: 1~2147483647

Example Requests

None

Example Responses

Status code: 200

Obtain the latest push event of a repository.

```
{
  "branches_count" : 2,
  "commits_count" : 8,
  "members_count" : 8,
  "tags_count" : 0,
  "merge_request_count" : 0,
  "note_count" : 0
}
```

Status Codes

Status Code	Description
200	Obtain the latest push event of a repository.

Error Codes

See [Error Codes](#).

4.1.2.39 Obtaining the Branch-Level or Tag-Level Permissions of a CR Repository User

Function

This API is used to obtain the branch-level or tag-level permission of the CR repository user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/user-ref-permission

Table 4-360 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-361 Query Parameters

Parameter	Mandatory	Type	Description
target_ref	Yes	String	Definition: Branch or tag name. Constraints: Special characters such as [, , < , ~ , ^ , : , ? , * , ! , () , ' , " , are not supported. It cannot end with a period (.), slash (/), or .lock. Branches must start with refs or head. Tags must start with refs or tag. Value range: 1 to 210 characters. Default value: N/A.
action	No	String	Definition: Action type, which can be used to query the permission of a specified action. • read: View. • review: Review. • approval: Approve. • create-change: Create a change request. • merge: Merge a change request. • create-delete: Create or delete a branch. • push: Push. Enumeration values: • read • review • approval • create-change • merge • create-delete • push

Parameter	Mandatory	Type	Description
change_request_id	No	Integer	Definition: ID of the change request in a repository. Value range: 1~2147483647

Request Parameters

Table 4-362 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-363 Response body parameters

Parameter	Type	Description
read	UserRefPermissionBasicDto object	Definition: This API is used to view permission.
review	UserRefPermissionBasicDto object	Definition: This API is used to review permission.
approval	UserRefPermissionBasicDto object	Definition: Review permission.

Parameter	Type	Description
create_change	UserRefPermissionBasicDto object	Definition: Permission to create change requests.
merge	UserRefPermissionBasicDto object	Definition: Permission to merge change requests.
create_delete	UserRefPermissionBasicDto object	Definition: Permission to create and delete branches.
push	UserRefPermissionBasicDto object	Definition: Push permission.

Table 4-364 UserRefPermissionBasicDto

Parameter	Type	Description
has_permission	Boolean	Definition: Whether the user has the permissions. Value range: true: Yes; false: No.
is_protect	Boolean	Definition: Whether it is protected branches. Value range: true: Yes; false: No.

Status code: 401**Table 4-365** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-366 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/1/user-ref-permission?target_ref=refs/head/master

Example Responses

Status code: 200

OK

```
{
  "read" : {
    "has_permission" : true,
    "is_protect" : false
  },
  "review" : {
    "has_permission" : true,
    "is_protect" : false
  },
  "approval" : {
    "has_permission" : true,
    "is_protect" : false
  },
  "create_change" : {
    "has_permission" : true,
    "is_protect" : false
  },
  "merge" : {
    "has_permission" : true,
    "is_protect" : false
  },
  "create_delete" : {
    "has_permission" : true,
    "is_protect" : false
  },
  "push" : {
    "has_permission" : true,
    "is_protect" : false
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.2.40 Freeing Up the Repository Space

Function

This API is used to free up the repository space.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/housekeeping

Table 4-367 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-368 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

Free up the repository space.

None

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
204	Free up the repository space.

Error Codes

See [Error Codes](#).

4.1.2.41 Synchronizing the Repository Deploy Key to the Sub-repository

Function

This API is used to synchronize the deploy key of the repository to all sub-modules.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/deploy-keys/{key_id}/submodules

Table 4-369 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
key_id	Yes	Integer	Definition: Deploy key ID. Value range: 1~2147483647

Request Parameters

Table 4-370 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

OK

Status code: 401

Table 4-371 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-372 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

POST https://{endpoint}/v4/repositories/2112044451/deploy-keys/2112496470/submodules

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.2.42 Deleting the Deploy Key of a Sub-repository

Function

This API is used to delete the deploy key of the repository from the submodule.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/deploy-keys/{key_id}/submodules

Table 4-373 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
key_id	Yes	Integer	Definition: Deploy key ID. Value range: 1~2147483647

Request Parameters

Table 4-374 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 401

Table 4-375 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-376 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
DELETE https://{endpoint}/v4/repositories/2112044451/deploy-keys/2112496470/submodules
```

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.2.43 Obtaining Repository Watermark Settings

Function

This API is used to obtain repository watermark settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/watermark

Table 4-377 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-378 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-379** Response body parameters

Parameter	Type	Description
watermark	Boolean	Definition: Watermark status. • true: The watermark function is enabled. • false: The watermark function is disabled.
view_watermark	Boolean	Definition: Repository watermark status. • true: The watermark function is enabled. • false: The watermark function is disabled.

Status code: 401

Table 4-380 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-381** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-382** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/1000001/watermark
```

Example Responses

Status code: 200

Repository watermark settings.

```
{  
  "watermark" : false,  
  "view_watermark" : true  
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "DEV-23-50527",
  "error_msg" : "The repository does not exist or has been deleted."
}
```

Status Codes

Status Code	Description
200	Repository watermark settings.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.44 Updating Repository Watermark Settings

Function

This API is used to update repository watermark settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/watermark

Table 4-383 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-384 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-385 Request body parameters

Parameter	Mandatory	Type	Description
watermark	No	Boolean	Definition Watermark status. • true: enabled. • false: disabled.

Response Parameters

Status code: 200

Table 4-386 Response body parameters

Parameter	Type	Description
watermark	Boolean	Definition Watermark status. - true: enabled. - false: disabled.

Status code: 401

Table 4-387 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-388 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-389 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/repositories/1000001/watermark
{
  "watermark" : false
}
```

Example Responses

Status code: 200

Repository watermark settings.

```
{
  "watermark" : false
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "DEV-23-50527",
  "error_msg" : "The repository does not exist or has been deleted."
}
```

Status Codes

Status Code	Description
200	Repository watermark settings.
401	Unauthorized
403	Bad Request

Status Code	Description
404	Not Found

Error Codes

See [Error Codes](#).

4.1.2.45 Querying the Details About a Repository

Function

This API is used to query the details about a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}

Table 4-390 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-391 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-392 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Repository ID. Value range: 1~2147483647
description	String	Definition: Repository description.
name	String	Definition: Repository name.
name_with_name space	String	Definition: Repository full name.
path	String	Definition: Repository path.
path_with_names pace	String	Definition: Complete repository path.

Parameter	Type	Description
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
archived	Boolean	Definition: Archived or not.
ssh_url_to_repo	String	Definition: Repository SSH address.
http_url_to_repo	String	Definition: HTTP address of the repository.
project_id	String	Definition: Repository project ID.
project_name	String	Definition: Repository project name.
develop_mode	String	Definition: Repository development mode. Value range: • normal • CR Enumeration values: • normal • CR
moderation_result	Boolean	Definition: Review status.
default_branch	String	Definition: Default branch of the repository. Constraints: N/A.
avatar_url	String	Definition: Repository icon URL. Constraints: N/A.

Parameter	Type	Description
star_count	Integer	Definition: Follows. Constraints: N/A. Value range: 1~2147483647
forks_count	Integer	Definition: Number of forks. Constraints: N/A. Value range: 1~2147483647
open_issues_count	Integer	Definition: Number of enabling issues. Constraints: N/A. Value range: 1~2147483647
open_merge_requests_count	Integer	Definition: Number of enabled CRs and MRs. Constraints: N/A. Value range: 1~2147483647
last_activity_at	String	Definition: Time when the last action was performed. Constraints: N/A.
namespace	NamespaceBasicDto object	Definition: Namespace. Constraints: N/A.
empty_repo	Boolean	Definition: Empty repository. Constraints: N/A.

Parameter	Type	Description
starred	Boolean	Definition: Favorite or not. Constraints: N/A.
visibility	String	Definition: Repository visibility level. Constraints: N/A.
security_tag	String	Definition: Repository confidentiality level. Constraints: N/A.
security	String	Definition: Repository confidentiality level. Constraints: N/A.
network_type	String	Definition: Network type. Constraints: N/A.
owner	RepositoryUserBasicDto object	Definition: Repository owner. Constraints: N/A.
creator	RepositoryUserBasicDto object	Definition: Repository creator. Constraints: N/A.
creator_id	Integer	Definition: Creator ID. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
forked_from_repository	RepositorySimpleDto object	Definition: Source repository of the fork repository. Constraints: N/A.
uuid	String	Definition: Unique repository identifier. Constraints: N/A.
ancestor_ids	Array of integers	Definition: Ancestor repository ID list. Constraints: N/A. Value range: 1~2147483647
ancestor_names	Array of strings	Definition: Ancestor repository name list. Constraints: N/A.
import_status	String	Definition: Import status. Constraints: N/A.
import_url	String	Definition: Import source address. Constraints: N/A.
import_error	String	Definition: Information that indicates the import is error. Constraints: N/A.
repo_type	String	Definition: Repository type. Constraints: N/A.

Parameter	Type	Description
only_allow_merge_if_pipeline_succeeds	Boolean	Definition: Whether to merge only after the pipeline is successful. Constraints: N/A.
request_access_enabled	Boolean	Definition: Whether to enable access requests. Constraints: N/A.
only_allow_merge_if_all_discussions_are_resolved	Boolean	Definition: Whether to merge only after all review comments are confirmed. Constraints: N/A.
merge_method	String	Definition: Merging method. Constraints: N/A.
fork_network_repositories	Array of RepositoryIdentityDto objects	Definition: List of associated fork repositories. Constraints: N/A.
permissions	PermissionsDto object	Permission.
repository_type	String	Definition: Repository type. Constraints: N/A.
statistics	RepositoryStatisticsDto object	Definition: Project statistics. Constraints: N/A.

Parameter	Type	Description
branch_count	Integer	Definition: Number of branches. Constraints: N/A. Value range: 1~2147483647
tag_count	Integer	Definition: Number of tags. Constraints: N/A. Value range: 1~2147483647
label_count	Integer	Definition: Number of tags. Constraints: N/A. Value range: 1~2147483647
member_count	Integer	Definition: Number of members. Constraints: N/A. Value range: 1~2147483647

Table 4-393 NamespaceBasicDto

Parameter	Type	Description
id	Integer	Definition: Namespace ID. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Namespace name. Constraints: N/A.
path	String	Definition: Path. Constraints: N/A.
develop_mode	String	Definition: Development mode. Constraints: N/A.
kind	String	Definition: Type. Constraints: N/A.
full_path	String	Definition: Complete path. Constraints: N/A.
full_name	String	Definition: Full name. Constraints: N/A.
parent_id	Integer	Definition: Parent ID. Constraints: N/A. Value range: 1~2147483647
visibility_level	Integer	Definition: Visibility level. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
enable_file_control	Boolean	Definition: This API is used to enable file permission control. Constraints: N/A.
owner_id	Integer	Definition: Owner ID Constraints: N/A. Value range: 1~2147483647

Table 4-394 RepositoryUserBasicDto

Parameter	Type	Description
id	Integer	Definition: User ID. Constraints: N/A. Value range: 1~2147483647
name	String	Definition: Username. Constraints: N/A.
username	String	Definition: Username. Constraints: N/A.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked

Parameter	Type	Description
service_license_status	Integer	Definition: Service-level permission status. 0: Disabled; 1: Enabled. Constraints: N/A. Value range: 1~2147483647
name_cn	String	Definition: Username in Chinese. Constraints: N/A.
nick_name	String	Definition: User alias. Constraints: N/A.
tenant_name	String	Definition: Tenant name. Constraints: N/A.

Table 4-395 RepositorySimpleDto

Parameter	Type	Description
id	Integer	Definition: Repository ID. Value range: 1~2147483647
description	String	Definition: Repository description.
name	String	Definition: Repository name.
name_with_name_space	String	Definition: Repository full name.
path	String	Definition: Repository path.

Parameter	Type	Description
path_with_names pace	String	Definition: Complete repository path.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
archived	Boolean	Definition: Archived or not.
ssh_url_to_repo	String	Definition: Repository SSH address.
http_url_to_repo	String	Definition: HTTP address of the repository.
project_id	String	Definition: Repository project ID.
project_name	String	Definition: Repository project name.
develop_mode	String	Definition: Repository development mode. Value range: • normal • CR Enumeration values: • normal • CR
moderation_result	Boolean	Definition: Review status.

Table 4-396 RepositoryIdentityDto

Parameter	Type	Description
id	Integer	Definition: Project ID. Constraints: N/A. Value range: 1~2147483647
path_with_names pace	String	Definition: Project path. Constraints: N/A.

Table 4-397 PermissionsDto

Parameter	Type	Description
repository_access	MemberAccess object	Definition: Repository permission. Constraints: N/A.
group_access	MemberAccess object	Definition: Repository group permission. Constraints: N/A.

Table 4-398 MemberAccess

Parameter	Type	Description
access_level	Integer	Definition: Access level. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
notification_level	Integer	Definition: Notification level. Constraints: N/A. Value range: 1~2147483647

Table 4-399 RepositoryStatisticsDto

Parameter	Type	Description
commit_count	Integer	Definition: Commits. Constraints: N/A. Value range: 1~2147483647
storage_size	Double	Definition: Storage size. Constraints: N/A. Value range: 1.0~1024000.0
repository_size	Double	Definition: Repository size. Constraints: N/A. Value range: 1.0~1024000.0
lfs_objects_size	Double	Definition: Size of the LFS object. Constraints: N/A. Value range: 1.0~1024000.0

Parameter	Type	Description
tenant_repo_size_limit	Long	Definition: Limit of the tenant repository size. Constraints: N/A. Value range: 1~2147483647

Example Requests

None

Example Responses

Status code: 200

Obtain the details about a repository.

```
{
  "id" : 2111993598,
  "description" : null,
  "name" : "test_import",
  "name_with_namespace" : "22d9c8e7fe464697bc2a358df175dd29 / g111 / g22 / g3 / g4 / g5 / test_import",
  "path" : "test_import",
  "path_with_namespace" : "22d9c8e7fe464697bc2a358df175dd29/g111/g22/g3/g4/g5/test_import",
  "created_at" : "2025-01-14T20:13:56.000+08:00",
  "updated_at" : "2025-01-14T20:13:56.000+08:00",
  "archived" : false,
  "ssh_url_to_repo" : "git@repo.com:22d9c8e7fe464697bc2a358df175dd29/g111/g22/g3/g4/g5/test_import.git",
  "http_url_to_repo" : "https://repo.com/22d9c8e7fe464697bc2a358df175dd29/g111/g22/g3/g4/g5/test_import.git",
  "project_id" : "22d9c8e7fe464697bc2a358df175dd29",
  "project_name" : "SubscriptionTest",
  "develop_mode" : "normal",
  "moderation_result" : true,
  "default_branch" : "master",
  "star_count" : 0,
  "forks_count" : 0,
  "open_merge_requests_count" : 0,
  "last_activity_at" : "2025-01-14T20:13:56.000+08:00",
  "namespace" : {
    "id" : 2111853526,
    "name" : "g5",
    "path" : "g5",
    "develop_mode" : "normal",
    "kind" : "group",
    "full_path" : "22d9c8e7fe464697bc2a358df175dd29/g111/g22/g3/g4/g5",
    "full_name" : null,
    "parent_id" : 2111853525,
    "visibility_level" : 0,
    "enable_file_control" : null,
    "owner_id" : null
  },
  "empty_repo" : false,
  "starred" : false,
  "visibility" : "private",
  "security" : "internal",
}
```

```
"owner" : { },
"creator" : {
  "id" : 9124,
  "name" : "test_user",
  "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "state" : "active",
  "service_license_status" : null,
  "name_cn" : "test_user",
  "nick_name" : "beta_dv",
  "tenant_name" : "test_tenant"
},
"creator_id" : 9124,
"statistics" : { },
"branch_count" : 2,
"tag_count" : 0,
"member_count" : 8,
"import_status" : "none",
"import_url" : "https://gitee.com/api-review-test-group/return-test.git",
"import_error" : null,
"repo_type" : "normal",
"only_allow_merge_if_pipeline_succeeds" : false,
"only_allow_merge_if_all_discussions_are_resolved" : false,
"merge_method" : "merge",
"fork_network_repositories" : [ ],
"permissions" : {
  "repository_access" : {
    "access_level" : 50,
    "notification_level" : 3
  },
  "group_access" : {
    "access_level" : 50,
    "notification_level" : 3
  }
},
"repository_type" : null,
"uuid" : "b166cca9cf9442a0b82159769d6aec4c",
"ancestor_ids" : [ 2111851014, 2111853523, 2111853524, 2111853525, 2111853526 ],
"ancestor_names" : [ "g111", "g22", "g3", "g4", "g5" ]
}
```

Status Codes

Status Code	Description
200	Obtain the details about a repository.

Error Codes

See [Error Codes](#).

4.1.2.46 Obtaining the Repository of the Current Login User

Function

This API is used to obtain the repository of the current login user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/user/repositories

Table 4-400 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
order_by	No	String	Definition: Sorting field Value range: - created_at: creation time - updated_at: update time Constraints: N/A Default value: created_at Default value: created_at Enumeration values: - created_at - updated_at

Parameter	Mandatory	Type	Description
sort	No	String	Definition: Sorting field Value range: • asc: ascending order • desc: descending order Constraints: N/A Default value: desc Default value: desc Enumeration values: • asc • desc
archived	No	Boolean	Definition: Archived or not. Value range: • true: yes • false: no Constraints: N/A Default value: false. Default value: false
search	No	String	Definition: Repository search Value range: 1–512 Constraints: N/A Default value: N/A

Parameter	Mandatory	Type	Description
starred	No	Boolean	Definition: Favorited repository Value range: • true: favorited • false: not favorited Constraints: N/A Default value: N/A Default value: false
membership	No	Boolean	Definition: Repositories that you participate in (as repository member) Value range: • true: joined repositories • false: no filtering Constraints: N/A Default value: N/A Default value: false
user_created	No	Boolean	Definition: Created repository Value range: • true: Filter the repositories created by the current user. • false: no filtering Constraints: N/A Default value: N/A Default value: false

Parameter	Mandatory	Type	Description
include_abnormal	No	Boolean	Definition: Whether to include repositories in abnormal states. Value range: • true: yes • false: no Constraints: N/A Default value: N/A

Request Parameters

Table 4-401 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-402 Response body parameters

Parameter	Type	Description
[items]	Array of RepositorySimplestDto objects	Repository list.

Table 4-403 RepositorySimplestDto

Parameter	Type	Description
id	Integer	Definition: Repository ID. Constraints: N/A. Value range: 1~2147483647
name	String	Definition: Repository name. Constraints: N/A.
namespace	String	Definition: Namespace. Constraints: N/A.
path	String	Definition: Repository path. Constraints: N/A.
develop_mode	String	Definition: Development mode. Constraints: N/A.
visibility	String	Definition: Visibility. Constraints: N/A.

Parameter	Type	Description
security	String	Definition: Security level. Constraints: N/A.
star_count	Integer	Definition: Follows. Constraints: N/A. Value range: 1~2147483647
forks_count	Integer	Definition: Number of forks. Constraints: N/A. Value range: 1~2147483647
open_issues_count	Integer	Definition: Number of enabled issues. Constraints: N/A. Value range: 1~2147483647
open_merge_requests_count	Integer	Definition: Number of enabled merge requests. Constraints: N/A. Value range: 1~2147483647
starred	Boolean	Definition: Favorite or not. Constraints: N/A.
name_with_namespace	String	Definition: Repository name with a namespace. Constraints: N/A.

Parameter	Type	Description
last_activity_at	String	Definition: Time when the last action was performed. Constraints: N/A.
forked_from_repository	ForkedFromRepositorySimpleDto object	Definition: Source repository of the fork repository. Constraints: N/A.
permissions	Integer	Definition: Permission. Constraints: N/A. Value range: 1~2147483647
archived	Boolean	Definition: Archived or not. Constraints: N/A.
member_count	Integer	Definition: Number of members. Constraints: N/A. Value range: 1~2147483647
uuid	String	Definition: Unique repository identifier. Constraints: N/A.
description	String	Definition: Repository description. Constraints: N/A.

Parameter	Type	Description
last_repository_updated_at	String	Definition: Last update time. Constraints: N/A.
ssh_url_to_repo	String	Definition: SSH repository URL. Constraints: N/A.
http_url_to_repo	String	Definition: HTTP repository URL. Constraints: N/A.
status	String	Definition: Repository status. Constraints: N/A.
active_statistic	Array of integers	Definition: Active user statistics. Constraints: N/A. Value range: 1~2147483647
project_name	String	Definition: Project name. Constraints: N/A.
project_id	String	Definition: Project ID. Constraints: N/A.
project_is_delete	Boolean	Definition: Whether to delete the project. Constraints: N/A.

Parameter	Type	Description
creator_id	Integer	Definition: Creator ID. Constraints: N/A. Value range: 1~2147483647

Table 4-404 ForkedFromRepositorySimplestDto

Parameter	Type	Description
name_with_name space	String	Definition: Name of a repository that has a namespace. Constraints: N/A.
path_with_names pace	String	Definition: Repository path that has a namespace. Constraints: N/A.
name	String	Definition: Repository name. Constraints: N/A.
namespace	String	Definition: Namespace. Constraints: N/A.
id	Integer	Definition: Repository ID. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
project_id	String	Definition: Product ID. Constraints: N/A.
project_name	String	Definition: Product name. Constraints: N/A.

Example Requests

None

Example Responses

Status code: 200

Repository list.

[illegible]

Status Codes

Status Code	Description
200	Repository list.

Error Codes

See [Error Codes](#).

4.1.2.47 Obtaining Fork List of a Repository

Function

This API is used to obtain the fork list of a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/forks

Table 4-405 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-406 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
order_by	No	String	Definition: Sorting field. Constraints: The value must be an enumerated value. Value range: • created_at: Creation time. • updated_at: Update time. Default value: created_at. Default value: created_at Enumeration values: • created_at • updated_at

Parameter	Mandatory	Type	Description
sort	No	String	Definition: Sorting order. Constraints: The value must be an enumerated value. Value range: • asc • desc Default value: desc. Default value: desc Enumeration values: • asc • desc
view	No	String	Definition: View. Constraints: The value must be an enumerated value. Value range: • basic: Basic information. • least: Simplest information. Default value: least. Default value: least Enumeration values: • basic • least

Request Parameters

Table 4-407 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-408** Response body parameters

Parameter	Type	Description
[items]	Array of ForkRepositoryDto objects	Repository information.

Table 4-409 ForkRepositoryDto

Parameter	Type	Description
id	Integer	Definition: Repository ID. Constraints: N/A. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Repository name. Constraints: N/A.
archived	Boolean	Definition: Archived or not. Constraints: N/A.
product_id	String	Definition: Product ID. Constraints: N/A.
product_name	String	Definition: Product name. Constraints: N/A.
path_with_namespace	String	Definition: Repository path that has a namespace. Constraints: It is returned when the value of view is least .
namespace	String	Definition: Namespace. Constraints: It is returned when the value of view is basic .
path	String	Definition: Repository path. Constraints: It is returned when the value of view is basic .
develop_mode	String	Definition: Development mode. Constraints: It is returned when the value of view is basic .

Parameter	Type	Description
visibility	String	Definition: Visibility. Constraints: It is returned when the value of view is basic .
security	String	Definition: Security level. Constraints: It is returned when the value of view is basic .
star_count	Integer	Definition: Follows. Constraints: It is returned when the value of view is basic . Value range: 1~2147483647
forks_count	Integer	Definition: Number of forks. Constraints: It is returned when the value of view is basic . Value range: 1~2147483647
open_merge_requests_count	Integer	Definition: Number of enabled merge requests. Constraints: It is returned when the value of view is basic . Value range: 1~2147483647
starred	Boolean	Definition: Favorite or not. Constraints: It is returned when the value of view is basic .

Parameter	Type	Description
name_with_name space	String	Definition: Name of a repository that has a namespace. Constraints: It is returned when the value of view is basic .
last_activity_at	String	Definition: Time when the last action was performed. Constraints: It is returned when the value of view is basic .
created_at	String	Definition: Creation time. Constraints: It is returned when the value of view is basic .

Example Requests

None

Example Responses

Status code: 200

Repository information

```
[ {
  "id" : 2111851926,
  "path_with_namespace" : "41bcec7bf2c84efea690e987ca98ee40/test",
  "name" : "test",
  "product_id" : "41bcec7bf2c84efea690e987ca98ee40",
  "product_name" : "lhtest",
  "archived" : false
}, {
  "id" : 2111965407,
  "path_with_namespace" : "41bcec7bf2c84efea690e987ca98ee40/222",
  "name" : "222",
  "product_id" : "41bcec7bf2c84efea690e987ca98ee40",
  "product_name" : "lhtest",
  "archived" : false
}]
```

Status Codes

Status Code	Description
200	Repository information

Error Codes

See [Error Codes](#).

4.1.2.48 Checking Repository Names in Batches

Function

This API is used to check repository names in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST <https://{hostURL}/v4/repository-names/validations>

Request Parameters

Table 4-410 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-411 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Repository name Constraints: • Mandatory • Start with a letter, digit, or underscore (<code>_</code>), and use letters, digits, hyphens (<code>-</code>), underscores (<code>_</code>), and periods (<code>.</code>). Do not end with <code>.git</code>, <code>.atom</code>, or a period (<code>.</code>). • The repository path (including the repository group name and repository name) cannot exceed 256 characters. Value range: N/A Default value: N/A
project_id	No	String	Definition: Project ID Constraints: Mandatory Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
group_id	No	Integer	Definition: Repository group ID. If the repository name to be checked is in the project root directory, this parameter is not required. Constraints: N/A Value range: N/A Default value: 1-2147483647 Value range: 1~2147483647

Response Parameters

Status code: 200

Table 4-412 Response body parameters

Parameter	Type	Description
[items]	Array of ValidateRepoNameResultDto objects	Check result

Table 4-413 ValidateRepoNameResultDto

Parameter	Type	Description
name	String	Definition: Repository name Constraints: • Mandatory • Start with a letter, digit, or underscore (<code>_</code>), and use letters, digits, hyphens (<code>-</code>), underscores (<code>_</code>), and periods (<code>.</code>). Do not end with <code>.git</code>, <code>.atom</code>, or a period (<code>.</code>). • The repository path (including the repository group name and repository name) cannot exceed 256 characters. Value range: N/A Default value: N/A
project_id	String	Definition: Project ID Constraints: Mandatory Value range: N/A Default value: N/A
group_id	Integer	Definition: Repository group ID. If the repository name to be checked is in the project root directory, this parameter is not required. Constraints: N/A Value range: N/A Default value: 1-2147483647 Value range: 1~2147483647

Parameter	Type	Description
result	Boolean	Definition: Whether the verification is passed. Value range: • true: yes • false: no Constraints: N/A
error_message	String	Definition: Error information Constraints: N/A

Example Requests

Check repository names in batches.

POST /api/v4/repository-names/validations

```
[ {
  "name" : "ff123",
  "group_id" : null,
  "project_id" : "7efec10fa1704f07aa118ea3d5a93413"
}, {
  "name" : "r1",
  "group_id" : null,
  "project_id" : "7efec10fa1704f07aa118ea3d5a93413"
}, {
  "name" : "fff",
  "group_id" : 2111926488,
  "project_id" : "7efec10fa1704f07aa118ea3d5a93413"
} ]
```

Example Responses

Status code: 200

Batch check result

```
[ {
  "name" : "ff123",
  "project_id" : "7efec10fa1704f07aa118ea3d5a93413",
  "group_id" : null,
  "result" : true,
  "error_message" : null
}, {
  "name" : "r1",
  "project_id" : "7efec10fa1704f07aa118ea3d5a93413",
  "group_id" : null,
  "result" : false,
  "error_message" : "Repository or repository group with the same name already exists."
}, {
  "name" : "fff",
  "project_id" : "7efec10fa1704f07aa118ea3d5a93413",
  "group_id" : 2111926488,
  "result" : true,
  "error_message" : null
} ]
```

```
"result" : false,  
"error_message" : "Repository or repository group with the same name already exists."  
}]
```

Status Codes

Status Code	Description
200	Batch check result

Error Codes

See [Error Codes](#).

4.1.2.49 Obtaining the Repository List of a Project

Function

This API is used to obtain the repository list of a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/repositories

Table 4-414 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-415 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	Definition: Keyword for searching for a repository Value range: N/A Constraints: N/A Default value: N/A
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Parameter	Mandatory	Type	Description
order_by	No	String	Definition: Sorting field Value range: • id: repository ID • name: repository name • created_at: creation time • updated_at: update time Constraints: N/A Default value: updated_at Default value: updated_at Enumeration values: • id • name • created_at • updated_at
sort	No	String	Definition: Sorting field Value range: • asc: ascending order • desc: descending order Constraints: N/A Default value: desc Default value: desc Enumeration values: • asc • desc

Request Parameters

Table 4-416 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-417** Response body parameters

Parameter	Type	Description
[items]	Array of BasicRepositoryDto objects	Repository information

Table 4-418 BasicRepositoryDto

Parameter	Type	Description
id	Integer	Definition: Repository ID Constraints: N/A Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Repository name Constraints: N/A
namespace	String	Definition: Namespace Constraints: N/A
path	String	Definition: Repository path Constraints: N/A
develop_mode	String	Definition: Development mode Enumerated values. normal: merge request mode; CR: change request mode Constraints: N/A
visibility	String	Definition: Repository visibility Enumerated values. private: internal; public: public Constraints: N/A
security	String	Definition: Security level Enumerated values. product_internal: public within the project; tenant_internal: public within tenant Constraints: N/A
name_with_namespace	String	Definition: Repository name with a namespace Constraints: N/A

Parameter	Type	Description
archived	Boolean	Definition: Archived or not. true: archived; false: not archived Constraints: N/A
status	String	Definition: Repository status Constraints: N/A

Example Requests

None

Example Responses

Status code: 200

Repository list in a project

```
[ {  
  "id" : 2112041493,  
  "name" : "test3",  
  "namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/test3",  
  "path" : "test3",  
  "develop_mode" : "normal",  
  "visibility" : "private",  
  "security" : "internal",  
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / test3",  
  "archived" : false,  
  "status" : "0"  
}]
```

Status Codes

Status Code	Description
200	Repository list in a project

Error Codes

See [Error Codes](#).

4.1.2.50 Obtaining the Repository List in a Repository Group

Function

This API is used to obtain the repository list in a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/repositories

Table 4-419 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-420 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	Definition: Keyword for searching for a repository Value range: N/A Constraints: N/A Default value: N/A

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
order_by	No	String	Definition: Sorting field Value range: • id: repository ID • name: repository name • created_at: creation time • updated_at: update time Constraints: N/A Default value: updated_at Default value: updated_at Enumeration values: • id • name • created_at • updated_at

Parameter	Mandatory	Type	Description
sort	No	String	Definition: Sorting field Value range: • asc: ascending order • desc: descending order Constraints: N/A Default value: desc Default value: desc Enumeration values: • asc • desc

Request Parameters

Table 4-421 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-422 Response body parameters

Parameter	Type	Description
[items]	Array of BasicRepositoryDto objects	Repository information

Table 4-423 BasicRepositoryDto

Parameter	Type	Description
id	Integer	Definition: Repository ID Constraints: N/A Value range: 1~2147483647
name	String	Definition: Repository name Constraints: N/A
namespace	String	Definition: Namespace Constraints: N/A
path	String	Definition: Repository path Constraints: N/A
develop_mode	String	Definition: Development mode Enumerated values. normal: merge request mode; CR: change request mode Constraints: N/A

Parameter	Type	Description
visibility	String	Definition: Repository visibility Enumerated values. private: internal; public: public Constraints: N/A
security	String	Definition: Security level Enumerated values. product_internal: public within the project; tenant_internal: public within tenant Constraints: N/A
name_with_name_space	String	Definition: Repository name with a namespace Constraints: N/A
archived	Boolean	Definition: Archived or not. true: archived; false: not archived Constraints: N/A
status	String	Definition: Repository status Constraints: N/A

Example Requests

None

Example Responses

Status code: 200

Repository list in a repository group

```
[ {  
  "id" : 2112041493,  
  "name" : "test3",  
  "namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/test3",  
  "path" : "test3",  
  "develop_mode" : "normal",
```

```
"visibility" : "private",  
"security" : "internal",  
"name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / test3",  
"archived" : false,  
"status" : "0"  
}]
```

Status Codes

Status Code	Description
200	Repository list in a repository group

Error Codes

See [Error Codes](#).

4.1.2.51 Obtaining the Latest Commit Activities of the Current User

Function

This API is used to query the latest N commit activities.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/user/recent-push-events

Table 4-424 Query Parameters

Parameter	Mandatory	Type	Description
project_id	No	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Parameter	Mandatory	Type	Description
size	No	Integer	Definition: Obtained quantity Value range: 1~100 Default value: 10

Request Parameters

None

Response Parameters

Status code: 200

Table 4-425 Response body parameters

Parameter	Type	Description
[items]	Array of PersonalPushEventDto objects	Definition: Pushed activities list

Table 4-426 PersonalPushEventDto

Parameter	Type	Description
author	PersonalEventAuthorDto object	Definition: People who triggered this operation Constraints: N/A
repository	RepositorySimpleDto object	Definition: Repository information Constraints: N/A
push_data	PushEventPayloadDto object	Definition: Creation time Constraints: N/A

Parameter	Type	Description
created_at	String	Definition: Creation time Constraints: N/A

Table 4-427 PersonalEventAuthorDto

Parameter	Type	Description
id	Integer	Definition: User ID Constraints: N/A Value range: 1~2147483647
username	String	Definition: Username Constraints: N/A

Table 4-428 RepositorySimpleDto

Parameter	Type	Description
id	Integer	Definition: Repository ID. Value range: 1~2147483647
description	String	Definition: Repository description.
name	String	Definition: Repository name.
name_with_name space	String	Definition: Repository full name.
path	String	Definition: Repository path.

Parameter	Type	Description
path_with_namespace	String	Definition: Complete repository path.
created_at	String	Definition: Creation time.
updated_at	String	Definition: Update time.
archived	Boolean	Definition: Archived or not.
ssh_url_to_repo	String	Definition: Repository SSH address.
http_url_to_repo	String	Definition: HTTP address of the repository.
project_id	String	Definition: Repository project ID.
project_name	String	Definition: Repository project name.
develop_mode	String	Definition: Repository development mode. Value range: • normal • CR Enumeration values: • normal • CR
moderation_result	Boolean	Definition: Review status.

Table 4-429 PushEventPayloadDto

Parameter	Type	Description
commit_count	Integer	Definition Number of commits. Value range: 1~2147483647

Parameter	Type	Description
action	String	Definition Operation type.
ref_type	String	Definition Ref type.
commit_from	String	Definition Source commit.
commit_to	String	Definition Target commit.
ref	String	Definition Branch.
commit_title	String	Definition Commit title.

Example Requests

GET /v4/user/recent-push-events

```
[ {
  "author" : {
    "id" : 9124,
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c"
  },
  "repository" : {
    "id" : 2112044670,
    "description" : "",
    "name" : "123111",
    "name_with_namespace" : "75f271c4b55545ba9c65ab37206eb968 / group1 / 123111",
    "path" : "123111",
    "path_with_namespace" : "75f271c4b55545ba9c65ab37206eb968/123111",
    "created_at" : "2025-08-21T16:26:35.000+08:00",
    "updated_at" : "2025-08-21T16:26:35.000+08:00",
    "archived" : false,
    "ssh_url_to_repo" : "git@test.com:75f271c4b55545ba9c65ab37206eb968/123111.git",
    "http_url_to_repo" : "https://test.com/75f271c4b55545ba9c65ab37206eb968/123111.git",
    "project_id" : "75f271c4b55545ba9c65ab37206eb968",
    "project_name" : "wyj20250314_CR",
    "develop_mode" : "CR",
    "moderation_result" : true
  },
  "push_data" : {
    "commit_count" : 1,
    "action" : "created",
    "ref_type" : "branch",
    "commit_from" : null,
    "commit_to" : "a05a676d75dd58499f2b2e2d2c9f72aa4ba5d715",
    "ref" : "master",
    "commit_title" : "Initial commit"
  },
  "created_at" : "2025-08-21T16:26:40.000+08:00"
} ]
```

Example Responses

Status code: 200

Obtain the list of latest activities by the current user.

```
[ {
  "author" : {
    "id" : 9124,
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c"
  },
  "repository" : {
    "id" : 2112044670,
    "description" : "",
    "name" : "123111",
    "name_with_namespace" : "75f271c4b55545ba9c65ab37206eb968 / group1 / 123111",
    "path" : "123111",
    "path_with_namespace" : "75f271c4b55545ba9c65ab37206eb968/123111",
    "created_at" : "2025-08-21T16:26:35.000+08:00",
    "updated_at" : "2025-08-21T16:26:35.000+08:00",
    "archived" : false,
    "ssh_url_to_repo" : "git@test.com:75f271c4b55545ba9c65ab37206eb968/123111.git",
    "http_url_to_repo" : "https://test.com/75f271c4b55545ba9c65ab37206eb968/123111.git",
    "project_id" : "75f271c4b55545ba9c65ab37206eb968",
    "project_name" : "test",
    "develop_mode" : "CR",
    "moderation_result" : true
  },
  "push_data" : {
    "commit_count" : 1,
    "action" : "created",
    "ref_type" : "branch",
    "commit_from" : null,
    "commit_to" : "a05a676d75dd58499f2b2e2d2c9f72aa4ba5d715",
    "ref" : "master",
    "commit_title" : "Initial commit"
  },
  "created_at" : "2025-08-21T16:26:40.000+08:00"
} ]
```

Status Codes

Status Code	Description
200	Obtain the list of latest activities by the current user.

Error Codes

See [Error Codes](#).

4.1.2.52 Template Repository List

Function

Template repository list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repository-templates

Table 4-430 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
platform	No	String	Definition: Application type. Constraints: N/A. Value range: • Android. • Console. • HarmonyOS. • OTHERS. • REST API. • ServiceStage. • Website. • Graphical user interface. Default value: N/A.

Parameter	Mandatory	Type	Description
pipeline	No	String	Definition: Whether to support automatic pipeline creation. Constraints: N/A. Value range: • SupportPipeline: Yes. • UnsupportedPipeline: No. Default value: N/A. Enumeration values: • SupportPipeline • UnsupportedPipeline
type	Yes	String	Definition: Automatically create a pipeline. Constraints: N/A Value range: • SYSTEM, USER: personal and official templates • SYSTEM: official template • USER: personal template Default value: N/A Enumeration values: • SYSTEM,USER • SYSTEM • USER
search	No	String	Definition: Search keyword. Templates are searched by template repository title. Constraints: N/A. Value range: 0 to 50 characters. Default value: N/A.

Parameter	Mandatory	Type	Description
enter_type	No	String	Definition: Competition type. Constraints: N/A. Value range: • AI. • Big data. • Mini program. • Microservice. Default value: N/A.
date_order	No	String	Definition: Sort template repositories by creation time. Constraints: N/A. Value range: • up: Ascending order. • down: Descending order. Default value: N/A. Enumeration values: • up • down

Parameter	Mandatory	Type	Description
language	No	String	Definition: Programming language. Constraints: N/A. Value range: • ArkTS. • ASP.NET. • C. • C#. • C++. • Go. • Groovy. • HTML. • Java. • NodeJS. • OTHERS. • PHP. • Python. Default value: N/A.
project_id	No	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-431 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-432 Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request.

Table 4-433 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryTemplateDto objects	Template repository list.

Table 4-434 RepositoryTemplateDto

Parameter	Type	Description
repository_id	Integer	Definition: Repository ID. Value range: 1~2147483647
name	String	Definition: Template repository title. Value range: 1 to 50 characters.
system	Boolean	Definition: Whether the template is a system template. Value range: • true: system template • false: personal template
tags	Array of strings	Definition: Tag list. Value range: N/A.
description	String	Definition: Repository description. Value range: 0 to 2,000 characters.
language	String	Definition: Programming language. Value range: 0 to 32 characters.
repository_name	String	Definition: Template repository name. Value range: 0 to 255 characters.
brief_introduction	String	Definition: Introduction to the template repository. Value range: 0 to 32 characters.

Parameter	Type	Description
created_at	String	Definition: Creation time.
used_times	Integer	Definition: Number of times that the template repository is used. Value range: 0~2147483647
liked_times	Integer	Definition: Number of likes of the template repository. Value range: 0~2147483647
creator_name	String	Definition: Author. Value range: 0 to 128 characters.
https_url	String	Definition: Git address of the repository using HTTPS. Value range: Max. 512 characters.

Status code: 401**Table 4-435** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-436 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-437** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repository-templates
```

Example Responses

Status code: 200

Template repository list.

```
[ {  
  "repository_id" : 10015,  
  "name" : "Java Web Demo",  
  "system" : true,  
  "description" : "A Hello World applet compiled based on Spring boot",  
  "language" : "Java",  
  "tags" : [ "Java", "Website.", "SupportPipeline" ],  
  "repository_name" : "javaWebDemo",  
  "brief_introduction" : "A Hello World applet compiled based on Spring boot",  
  "created_at" : "2021-06-07T13:18:38.000Z",  
  "used_times" : 2976,  
  "liked_times" : 0,  
  "creator_name" : "CodeArts",  
  "https_url" : "https://example.com/demo_group_name/javaWebDemo.git"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "DEV-23-50527",
  "error_msg" : "The repository does not exist or has been deleted."
}
```

Status Codes

Status Code	Description
200	Template repository list.
401	Unauthorized
403	Bad Request
404	Not Found

Error CodesSee [Error Codes](#).**4.1.2.53 Updating Repository Mirror Information****Function**

This API is used to update repository mirror information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/remote-mirror

Table 4-438 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-439 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-440 Request body parameters

Parameter	Mandatory	Type	Description
url	No	String	Definition: Source repository address. Value range: N/A Constraints: Start with http:// or https:// Default value: N/A
sync_branch_type	No	String	Definition: Branch synchronization Value range: - all: synchronize all branches. - default: synchronize the default branch. Constraints: N/A Default value: N/A Enumeration values: - all - default
mirroring_enabled	No	Boolean	Definition: Enable scheduled synchronization Value range: - true: scheduled synchronization is disabled. - false: scheduled synchronization is enabled. Constraints: N/A Default value: N/A

Parameter	Mandatory	Type	Description
endpoint_uuid	No	String	Definition: UUID of a branch point Value range: N/A Constraints: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-441 Response body parameters

Parameter	Type	Description
url	String	Definition: Source repository address Constraints: N/A
mirroring_enabled	Boolean	Definition: Enable scheduled synchronization Value range: - true: scheduled synchronization is disabled. - false: scheduled synchronization is enabled. Constraints: N/A
endpoint_uuid	String	Definition: UUID of a branch point Constraints: N/A

Parameter	Type	Description
sync_branch_type	String	Definition: Branch synchronization Value range: - all: synchronize all branches. - default: synchronize the default branch. Constraints: N/A Enumeration values: - all - default

Example Requests

Update repository mirror information

```
PUT /v4/repositories/{repository_id}/remote-mirror
{
  "url" : "https://gitee.com/mars167/git-flow-test.git",
  "sync_branch_type" : "all",
  "mirroring_enable" : true,
  "endpoint_uuid" : "dd19c11ea8464520bc8de7cbdf4418a8"
}
```

Example Responses

Status code: 200

OK

```
{
  "url" : "https://gitee.com/mars167/git-flow-test.git",
  "mirroring_enabled" : true,
  "endpoint_uuid" : "dd19c11ea8464520bc8de7cbdf4418a8",
  "sync_branch_type" : "all"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.1.3 ProtectedRefs

4.1.3.1 Creating Protected Tags in Batches in a Repository

Function

This API is used to create protected tags in batches in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/protected-tags

Table 4-442 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-443 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-444 Request body parameters

Parameter	Mandatory	Type	Description
names	Yes	Array of strings	Definition: Protected tag name or wildcard list. Constraints: Mandatory. Each item must match at least one tag. Value range: Character string. Default value: N/A.
actions	No	Array of RepositoryProtectedTagActionBodyDto objects	Definition: Event setting list. Constraints: N/A. Value range: N/A. Default value: N/A.

Table 4-445 RepositoryProtectedTagActionBodyDto

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A. Default value: true
user_ids	No	Array of integers	Definition: User ID list. Constraints: N/A. Value range: Integer Default value: N/A. Value range: 1~2147483647
user_team_ids	No	Array of integers	Definition: Member group ID list. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
related_role_ids	No	Array of strings	Definition: Associated role ID list. Constraints: N/A. Value range: N/A. Default value: N/A.
action	No	String	Definition: Event name. Constraints: N/A. Value range: • create: Create. Default value: N/A. Enumeration values: • create

Response Parameters

Status code: 200

Table 4-446 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryProtectedTagDto objects	Protected tag list in a repository.

Table 4-447 RepositoryProtectedTagDto

Parameter	Type	Description
id	Integer	Definition: Protection tag ID. Value range: 1-2147483647

Parameter	Type	Description
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-448 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-449 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-450 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-451 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

Create protected tags in batches in a repository.

```
POST /v4/repositories/123/protected-tags
```

```
{  
  "names": [ "ttt7" ],  
  "actions": [ {  
    "action": "create",
```

```
"enable": true,
"user_ids": [ 9093, 9090, 9087 ],
"user_team_ids": [ 247 ],
"related_role_ids": [ "Administrator", "31bcd56943f0491fbc2f410d163f70cc",
"24f72d0b611746c3a43da596ea5065f5" ]
}]
}
```

Example Responses

Status code: 200

Protected tag list in a repository.

```
[ {
  "id": 124607,
  "name": "t1t7",
  "actions": [ {
    "action": "create",
    "enable": true,
    "users": [ {
      "id": 9087,
      "name": "test11",
      "username": "04ef19ad5eaf4b8c9cf2451d3536202d",
      "state": "blocked",
      "avatar_url": "",
      "nick_name": "",
      "tenant_name": "t1"
    }, {
      "id": 9090,
      "name": "test3",
      "username": "ba1bd837aa09470ba4ccf0cebb837f89",
      "state": "blocked",
      "avatar_url": "",
      "nick_name": "",
      "tenant_name": "t1"
    }, {
      "id": 9093,
      "name": "test444",
      "username": "a225d72a70df46c3a15915285be1eeb3",
      "state": "blocked",
      "avatar_url": "",
      "nick_name": "",
      "tenant_name": "t1"
    }
  ],
  "user_teams": [ {
    "id": 247,
    "name": "team-1"
  } ],
  "roles": [ {
    "id": 23836595,
    "name": "Administrator",
    "related_role_id": "7a96af96176e4f728f571b8af8551dec",
    "chinese_name": "Project administrator"
  }, {
    "id": 23836597,
    "name": "Test manager",
    "related_role_id": "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name": "Test manager"
  }, {
    "id": 23836612,
    "name": "customer_role_1",
    "related_role_id": "31bcd56943f0491fbc2f410d163f70cc",
    "chinese_name": "customer_role_1"
  } ]
} ]
}]
```


Status Codes

Status Code	Description
200	Protected tag list in a repository.

Error Codes

See [Error Codes](#).

4.1.3.2 Obtaining a Protected Tag List in a Repository

Function

This API is used to obtain a protected tag list in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/protected-tags

Table 4-452 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-453 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
search	No	String	Definition: Query keyword, which can be used for fuzzy match of the protected tag name. Constraints: N/A. Value range: N/A. Default value: N/A. Default value: N/A

Request Parameters

Table 4-454 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-455** Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryProtectedTagDto objects	Protected tag list in a repository.

Table 4-456 RepositoryProtectedTagDto

Parameter	Type	Description
id	Integer	Definition: Protection tag ID. Value range: 1–2147483647

Parameter	Type	Description
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-457 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-458 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: activated - blocked: disabled Enumeration values: active blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-459 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-460 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

None

Example Responses

Status code: 200

Protected tag list in a repository.

```
[ {
  "id" : 124607,
  "name" : "ttt7",
  "actions" : [ {
    "action" : "create",
    "enable" : true,
    "users" : [ {
      "id" : 9087,
      "name" : "test11",
      "username" : "04ef19ad5eaf4b8c9cf2451d3536202d",
      "state" : "blocked",
      "avatar_url" : "",
      "nick_name" : "",
      "tenant_name" : "t1"
    }, {
      "id" : 9090,
      "name" : "test3",
      "username" : "ba1bd837aa09470ba4ccf0cebb837f89",
      "state" : "blocked",
      "avatar_url" : "",
      "nick_name" : "",
      "tenant_name" : "t1"
    }, {
      "id" : 9093,
      "name" : "test444",
      "username" : "a225d72a70df46c3a15915285be1eeb3",
      "state" : "blocked",
      "avatar_url" : "",
      "nick_name" : "",
      "tenant_name" : "t1"
    } ],
  "user_teams" : [ {
    "id" : 247,
    "name" : "team-1"
  } ],
  "roles" : [ {
    "id" : 23836595,
    "name" : "Administrator",
    "related_role_id" : "7a96af96176e4f728f571b8af8551dec",
    "chinese_name" : "Project administrator"
  }, {
    "id" : 23836597,
    "name" : "Test manager",
    "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name" : "Test manager"
  }, {
    "id" : 23836612,
    "name" : "customer_role_1",
    "related_role_id" : "31bcd56943f0491fbc2f410d163f70cc",
    "chinese_name" : "customer_role_1"
  } ]
} ]
}]
```

Status Codes

Status Code	Description
200	Protected tag list in a repository.

Error Codes

See [Error Codes](#).

4.1.3.3 Updating Protected Tags in Batches in a Repository

Function

This API is used to update protected tags in batches in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/protected-tags

Table 4-461 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-462 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-463 Request body parameters

Parameter	Mandatory	Type	Description
names	Yes	Array of strings	Definition: Protected tag name or wildcard list. Constraints: Mandatory. Value range: N/A. Default value: N/A.
actions	No	Array of RepositoryProtectedTagActionBodyDto objects	Definition: Permissions. Constraints: N/A. Value range: N/A. Default value: N/A.

Table 4-464 RepositoryProtectedTagActionBodyDto

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A. Default value: true
user_ids	No	Array of integers	Definition: User ID list. Constraints: N/A. Value range: Integer Default value: N/A. Value range: 1~2147483647
user_team_ids	No	Array of integers	Definition: Member group ID list. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
related_role_ids	No	Array of strings	Definition: Associated role ID list. Constraints: N/A. Value range: N/A. Default value: N/A.
action	No	String	Definition: Event name. Constraints: N/A. Value range: • create: Create. Default value: N/A. Enumeration values: • create

Response Parameters

Status code: 200

Table 4-465 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryProtectedTagDto objects	Protected tag list in a repository.

Table 4-466 RepositoryProtectedTagDto

Parameter	Type	Description
id	Integer	Definition: Protection tag ID. Value range: 1-2147483647

Parameter	Type	Description
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-467 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-468 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-469 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-470 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

Update protected tags in batches in a repository.

```
PUT /v4/repositories/123/protected-tags
```

```
{  
  "names": [ "ttt6", "ttt5" ],  
  "actions": [ {  
    "action": "create",
```

```
"enable": true,
"user_ids": [ 9124 ],
"user_team_ids": [ 251 ],
"related_role_ids": [ "Administrator" ]
}]
}
```

Example Responses

Status code: 200

Protected tag list in a repository.

```
[ {
  "id": 124607,
  "name": "ttt7",
  "actions": [ {
    "action": "create",
    "enable": true,
    "users": [ {
      "id": 9087,
      "name": "test11",
      "username": "04ef19ad5eaf4b8c9cf2451d3536202d",
      "state": "blocked",
      "avatar_url": "",
      "nick_name": "",
      "tenant_name": "t1"
    }, {
      "id": 9090,
      "name": "test3",
      "username": "ba1bd837aa09470ba4ccf0cebb837f89",
      "state": "blocked",
      "avatar_url": "",
      "nick_name": "",
      "tenant_name": "t1"
    }, {
      "id": 9093,
      "name": "test444",
      "username": "a225d72a70df46c3a15915285be1eeb3",
      "state": "blocked",
      "avatar_url": "",
      "nick_name": "",
      "tenant_name": "t1"
    } ],
  "user_teams": [ {
    "id": 247,
    "name": "team-1"
  } ],
  "roles": [ {
    "id": 23836595,
    "name": "Administrator",
    "related_role_id": "7a96af96176e4f728f571b8af8551dec",
    "chinese_name": "Project administrator"
  }, {
    "id": 23836597,
    "name": "Test manager",
    "related_role_id": "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name": "Test manager"
  }, {
    "id": 23836612,
    "name": "customer_role_1",
    "related_role_id": "31bcd56943f0491fbc2f410d163f70cc",
    "chinese_name": "customer_role_1"
  } ]
}]
]
```

Status Codes

Status Code	Description
200	Protected tag list in a repository.

Error Codes

See [Error Codes](#).

4.1.3.4 Deleting Protected Tags in Batches in a Repository

Function

This API is used to delete protected tags in batches in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/protected-tags/bulk-deletion

Table 4-471 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-472 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-473 Request body parameters

Parameter	Mandatory	Type	Description
names	No	Array of strings	Definition: Protected tag name or wildcard list. Constraints: Mandatory. Value range: N/A. Default value: N/A.

Response Parameters

Status code: 204

Table 4-474 Response body parameters

Parameter	Type	Description
status	String	Definition: Status code • success: The API request is successful. • fail: The API request failed. Enumeration values: • success • fail

Example Requests

```
POST /v4/repositories/123/protected-tags/bulk-deletion
{
  "names": [ "ttd6", "ttd5" ]
}
```

Example Responses

Status code: 204

OK

```
{
  "status": "success"
}
```

Status Codes

Status Code	Description
204	OK

Error Codes

See [Error Codes](#).

4.1.3.5 Obtaining a Protected Tag

Function

This API is used to obtain a protected tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/protected-tag

Table 4-475 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-476 Query Parameters

Parameter	Mandatory	Type	Description
tag_name	Yes	String	Definition: Protected tag name or wildcard list. Constraints: N/A. Value range: N/A. Default value: N/A. Default value: N/A

Request Parameters

Table 4-477 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-478** Response body parameters

Parameter	Type	Description
id	Integer	Definition: Protection tag ID. Value range: 1–2147483647
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-479 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-480 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-481 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-482 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

None

Example Responses

Status code: 200

Protected tag in a repository.

```
{
  "id" : 124612,
  "name" : "ttt6",
  "actions" : [ {
    "action" : "create",
    "enable" : true,
    "users" : [ {
      "id" : 9124,
      "name" : "user1",
      "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "name",
      "tenant_name" : "t1"
    } ],
    "user_teams" : [ {
      "id" : 251,
      "name" : "team-2"
    } ],
    "roles" : [ {
      "id" : 23836595,
```

```
"name" : "Administrator",  
"related_role_id" : "7a96af96176e4f728f571b8af8551dec",  
"chinese_name" : "Project administrator"  
}]  
}]  
}
```

Status Codes

Status Code	Description
200	Protected tag in a repository.

Error Codes

See [Error Codes](#).

4.1.3.6 Updating a Protected Tag in a Repository

Function

This API is used to update a protected tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/protected-tag

Table 4-483 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-484 Query Parameters

Parameter	Mandatory	Type	Description
tag_name	Yes	String	Definition: Protected tag name or wildcard list. Constraints: N/A. Value range: N/A. Default value: N/A. Default value: N/A

Request Parameters

Table 4-485 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-486 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of RepositoryProtectedTagActionBodyDto objects	Protected tag permission list.

Table 4-487 RepositoryProtectedTagActionBodyDto

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A. Default value: true
user_ids	No	Array of integers	Definition: User ID list. Constraints: N/A. Value range: Integer Default value: N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
user_team_ids	No	Array of integers	Definition: Member group ID list. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647
related_role_ids	No	Array of strings	Definition: Associated role ID list. Constraints: N/A. Value range: N/A. Default value: N/A.
action	No	String	Definition: Event name. Constraints: N/A. Value range: ● create: Create. Default value: N/A. Enumeration values: ● create

Response Parameters

Status code: 200

Table 4-488 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Protection tag ID. Value range: 1-2147483647
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-489 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.

Parameter	Type	Description
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-490 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-491 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-492 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

Update a protected tag in a repository.

```
PUT /v4/repositories/123/protected-tag?tag_name=t1
```

```
[ {  
  "action" : "create",  
  "enable" : true,  
  "user_ids" : [ 9093 ],
```

```
"user_team_ids" : [ 247 ],  
"related_role_ids" : [ "Administrator", "24f72d0b611746c3a43da596ea5065f5" ]  
}]
```

Example Responses

Status code: 200

Protected tag in a repository.

```
{  
  "id" : 124612,  
  "name" : "tnt6",  
  "actions" : [ {  
    "action" : "create",  
    "enable" : true,  
    "users" : [ {  
      "id" : 9124,  
      "name" : "user1",  
      "username" : "c369c68f1ff84679b5a8ed904d8bff1c",  
      "state" : "active",  
      "avatar_url" : "",  
      "nick_name" : "name",  
      "tenant_name" : "t1"  
    } ],  
    "user_teams" : [ {  
      "id" : 251,  
      "name" : "team-2"  
    } ],  
    "roles" : [ {  
      "id" : 23836595,  
      "name" : "Administrator",  
      "related_role_id" : "7a96af96176e4f728f571b8af8551dec",  
      "chinese_name" : "Project administrator"  
    } ]  
  } ]  
}
```

Status Codes

Status Code	Description
200	Protected tag in a repository.

Error Codes

See [Error Codes](#).

4.1.3.7 Deleting a Protected Tag

Function

This API is used to delete a protected tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/protected-tag

Table 4-493 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-494 Query Parameters

Parameter	Mandatory	Type	Description
tag_name	Yes	String	Definition: Protected tag name or wildcard list. Constraints: N/A. Value range: N/A. Default value: N/A. Default value: N/A

Request Parameters

Table 4-495 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

Table 4-496 Response body parameters

Parameter	Type	Description
status	String	Definition: Status code • success: The API request is successful. • fail: The API request failed. Enumeration values: • success • fail

Example Requests

None

Example Responses

Status code: 204

OK

```
{  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
204	OK

Error Codes

See [Error Codes](#).

4.1.3.8 Creating Protected Branches in Batches in a Repository

Function

This API is used to create protected branches in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/protected-branches

Table 4-497 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-498 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-499 Request body parameters

Parameter	Mandatory	Type	Description
names	Yes	Array of strings	Definition: Protected branch name or wildcard array. Constraints: Mandatory. Each item must match at least one branch. Value range: Character string. Default value: N/A.
actions	No	Array of ProtectedBranchProtectedActionBodyDto objects	Definition: Event setting list. Constraints: N/A. Value range: N/A. Default value: N/A.

Table 4-500 ProtectedBranchProtectedActionBodyDto

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A. Default value: true
user_ids	No	Array of integers	Definition: User ID list. Constraints: N/A. Value range: Integer Default value: N/A. Value range: 1~2147483647
user_team_ids	No	Array of integers	Definition: Member group ID list. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
related_role_ids	No	Array of strings	Definition: Associated role ID list. Constraints: N/A. Value range: N/A. Default value: N/A.
action	No	String	Definition: Event name. Constraints: Mandatory. Value range: • push: Push. • merge: Merge. Default value: N/A. Enumeration values: • push • merge
addition_switchers	No	Array of ProtectedActionSwitcher objects	Definition: Additional switch Constraints: N/A Value range: N/A Default value: N/A

Table 4-501 ProtectedActionSwitcher

Parameter	Mandatory	Type	Description
name	No	String	Definition: Switch name Constraints: N/A Value range: - allowed_force_push: force push is allowed (disabled by default). Default value: N/A Enumeration values: allowed_force_push
enable	No	Boolean	Definition: Enabled or not Constraints: N/A Value range: - true: enabled - false: disabled Default value: N/A

Response Parameters

Status code: 200

Table 4-502 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryProtectedBranchDto objects	List of protected branches in a repository.

Table 4-503 RepositoryProtectedBranchDto

Parameter	Type	Description
id	Integer	Definition: ID of the protected branch. Value range: 1-2147483647 Value range: 1~2147483647
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-504 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.

Parameter	Type	Description
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-505 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-506 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-507 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

Create protected branches in batches in a repository.

```
POST /v4/repositories/123/protected-branches
```

```
{  
  "names": [ "t*", "test" ],  
  "actions": [ {  
    "action": "push",
```

```
"enable": true,
"user_ids": [ 9124 ],
"user_team_ids": [ 247 ],
"related_role_ids": [ "6115a3ddd9044e288c558d1ae827a732", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
}, {
  "action": "merge",
  "enable": true,
  "user_ids": [ 9124 ],
  "user_team_ids": [ 247 ],
  "related_role_ids": [ "Administrator", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
}]
}
```

Example Responses

Status code: 200

List of protected branches in a repository.

```
[ {
  "id": 2112012344,
  "name": "t*",
  "actions": [ {
    "action": "push",
    "enable": true,
    "users": [ {
      "id": 9124,
      "name": "user",
      "username": "c369c68f1ff84679b5a8ed904d8bff1c",
      "state": "active",
      "avatar_url": "",
      "nick_name": "user",
      "tenant_name": "tenantName"
    } ],
    "user_teams": [ {
      "id": 247,
      "name": "team-1"
    } ],
    "roles": [ {
      "id": 23836589,
      "name": "Committer",
      "related_role_id": "8425999e92974f2980b76b08ad423aa1",
      "chinese_name": "Committer"
    }, {
      "id": 23836590,
      "name": "Developer",
      "related_role_id": "f2464b129b064a6a988734a73c3f366b",
      "chinese_name": "Developer"
    }, {
      "id": 23836594,
      "name": "Project manager",
      "related_role_id": "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name": "Project manager"
    }, {
      "id": 23836597,
      "name": "Test manager",
      "related_role_id": "24f72d0b611746c3a43da596ea5065f5",
      "chinese_name": "Test manager"
    } ]
  }, {
    "action": "merge",
    "enable": true,
    "users": [ {
      "id": 9124,
      "name": "user",
      "username": "c369c68f1ff84679b5a8ed904d8bff1c",
      "state": "active",
```

```
    "avatar_url" : "",
    "nick_name" : "user",
    "tenant_name" : "tenantName"
  } ],
  "user_teams" : [ {
    "id" : 247,
    "name" : "team-1"
  } ],
  "roles" : [ {
    "id" : 23836589,
    "name" : "Committer",
    "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
    "chinese_name" : "Committer"
  }, {
    "id" : 23836590,
    "name" : "Developer",
    "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
    "chinese_name" : "Developer"
  }, {
    "id" : 23836595,
    "name" : "Administrator",
    "related_role_id" : "7a96af96176e4f728f571b8af8551dec",
    "chinese_name" : "Project administrator"
  }, {
    "id" : 23836597,
    "name" : "Test manager",
    "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name" : "Test manager"
  } ]
} ]
}, {
  "id" : 2112012345,
  "name" : "test",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 9124,
      "name" : "test_user",
      "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenant"
    } ],
  } ],
  "user_teams" : [ {
    "id" : 247,
    "name" : "team-1"
  } ],
  "roles" : [ {
    "id" : 23836589,
    "name" : "Committer",
    "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
    "chinese_name" : "Committer"
  }, {
    "id" : 23836590,
    "name" : "Developer",
    "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
    "chinese_name" : "Developer"
  }, {
    "id" : 23836594,
    "name" : "Project manager",
    "related_role_id" : "6115a3ddd9044e288c558d1ae827a732",
    "chinese_name" : "Project manager"
  }, {
    "id" : 23836597,
    "name" : "Test manager",
    "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name" : "Test manager"
  } ]
}
```

```
    } ]
  }, {
    "action" : "merge",
    "enable" : true,
    "users" : [ {
      "id" : 9124,
      "name" : "user",
      "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenant"
    } ],
    "user_teams" : [ {
      "id" : 247,
      "name" : "team-1"
    } ],
    "roles" : [ {
      "id" : 23836589,
      "name" : "Committer",
      "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
      "chinese_name" : "Committer"
    }, {
      "id" : 23836590,
      "name" : "Developer",
      "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
      "chinese_name" : "Developer"
    }, {
      "id" : 23836595,
      "name" : "Administrator",
      "related_role_id" : "7a96af96176e4f728f571b8af8551dec",
      "chinese_name" : "Project administrator"
    }, {
      "id" : 23836597,
      "name" : "Test manager",
      "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
      "chinese_name" : "Test manager"
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	List of protected branches in a repository.

Error Codes

See [Error Codes](#).

4.1.3.9 Obtaining the Protected Branch List

Function

This API is used to obtain protected branch list of a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/protected-branches

Table 4-508 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-509 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Parameter	Mandatory	Type	Description
search	No	String	Definition: Query keyword, which can be used for fuzzy match of the protected branch name. Constraints: N/A. Value range: N/A. Default value: N/A. Default value: N/A

Request Parameters

Table 4-510 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-511 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryProtectedBranchDto objects	List of protected branches in a repository.

Table 4-512 RepositoryProtectedBranchDto

Parameter	Type	Description
id	Integer	Definition: ID of the protected branch. Value range: 1-2147483647 Value range: 1~2147483647
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-513 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.

Parameter	Type	Description
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-514 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.

Parameter	Type	Description
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-515 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-516 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.

Parameter	Type	Description
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

None

Example Responses

Status code: 200

List of protected branches in a repository.

```
[ {
  "id" : 2112012342,
  "name" : "t*",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 9124,
      "name" : "test_user",
      "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenant"
    } ],
    "user_teams" : [ {
      "id" : 247,
      "name" : "team-1"
    } ],
    "roles" : [ {
      "id" : 23836589,
      "name" : "Committer",
      "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
      "chinese_name" : "Committer"
    }, {
      "id" : 23836590,
      "name" : "Developer",
      "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
      "chinese_name" : "Developer"
    }, {
      "id" : 23836594,
      "name" : "Project manager",
      "related_role_id" : "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name" : "Project manager"
    }, {
      "id" : 23836597,
      "name" : "Test manager",
      "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
      "chinese_name" : "Test manager"
    } ]
  } ], {
    "action" : "merge",
    "enable" : true,
    "users" : [ {
      "id" : 9493,
```

```
    "name" : "user",
    "username" : "84280e40b7974b9eaff329f8e43a5080",
    "state" : "active",
    "avatar_url" : "",
    "nick_name" : "user",
    "tenant_name" : "tenantName"
  } ],
  "user_teams" : [ {
    "id" : 247,
    "name" : "team-1"
  } ],
  "roles" : [ {
    "id" : 23836589,
    "name" : "Committer",
    "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
    "chinese_name" : "Committer"
  }, {
    "id" : 23836590,
    "name" : "Developer",
    "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
    "chinese_name" : "Developer"
  }, {
    "id" : 23836595,
    "name" : "Administrator",
    "related_role_id" : "7a96af96176e4f728f571b8af8551dec",
    "chinese_name" : "Project administrator"
  }, {
    "id" : 23836597,
    "name" : "Test manager",
    "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name" : "Test manager"
  } ]
} ],
{
  "id" : 2112012343,
  "name" : "tt*",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 9493,
      "name" : "user",
      "username" : "84280e40b7974b9eaff329f8e43a5080",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenantName"
    } ],
    "user_teams" : [ {
      "id" : 247,
      "name" : "team-1"
    } ],
    "roles" : [ {
      "id" : 23836589,
      "name" : "Committer",
      "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
      "chinese_name" : "Committer"
    }, {
      "id" : 23836590,
      "name" : "Developer",
      "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
      "chinese_name" : "Developer"
    }, {
      "id" : 23836594,
      "name" : "Project manager",
      "related_role_id" : "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name" : "Project manager"
    } ],
    "id" : 23836597,
```

```
{
  "name": "Test manager",
  "related_role_id": "24f72d0b611746c3a43da596ea5065f5",
  "chinese_name": "Test manager"
}]
}, {
  "action": "merge",
  "enable": true,
  "users": [ {
    "id": 9493,
    "name": "user",
    "username": "84280e40b7974b9eaff329f8e43a5080",
    "state": "active",
    "avatar_url": "",
    "nick_name": "user",
    "tenant_name": "tenantName"
  } ],
  "user_teams": [ {
    "id": 247,
    "name": "team-1"
  } ],
  "roles": [ {
    "id": 23836589,
    "name": "Committer",
    "related_role_id": "8425999e92974f2980b76b08ad423aa1",
    "chinese_name": "Committer"
  }, {
    "id": 23836590,
    "name": "Developer",
    "related_role_id": "f2464b129b064a6a988734a73c3f366b",
    "chinese_name": "Developer"
  }, {
    "id": 23836595,
    "name": "Administrator",
    "related_role_id": "7a96af96176e4f728f571b8af8551dec",
    "chinese_name": "Project administrator"
  }, {
    "id": 23836597,
    "name": "Test manager",
    "related_role_id": "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name": "Test manager"
  } ]
} ]
}
```

Status Codes

Status Code	Description
200	List of protected branches in a repository.

Error Codes

See [Error Codes](#).

4.1.3.10 Updating Protected Branches in Batches in a Repository

Function

This API is used to update protected branches in batches in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/protected-branches

Table 4-517 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-518 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-519 Request body parameters

Parameter	Mandatory	Type	Description
names	Yes	Array of strings	Definition: List of protected branch names. Constraints: N/A. Value range: N/A. Default value: N/A.
actions	No	Array of ProtectedBranchProtectedActionBodyDto objects	Definition: Protected event list. Constraints: N/A. Value range: N/A. Default value: N/A.

Table 4-520 ProtectedBranchProtectedActionBodyDto

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A. Default value: true

Parameter	Mandatory	Type	Description
user_ids	No	Array of integers	Definition: User ID list. Constraints: N/A. Value range: Integer Default value: N/A. Value range: 1~2147483647
user_team_ids	No	Array of integers	Definition: Member group ID list. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647
related_role_ids	No	Array of strings	Definition: Associated role ID list. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Mandatory	Type	Description
action	No	String	Definition: Event name. Constraints: Mandatory. Value range: • push: Push. • merge: Merge. Default value: N/A. Enumeration values: • push • merge
addition_switchers	No	Array of ProtectedActionSwitcher objects	Definition: Additional switch Constraints: N/A Value range: N/A Default value: N/A

Table 4-521 ProtectedActionSwitcher

Parameter	Mandatory	Type	Description
name	No	String	Definition: Switch name Constraints: N/A Value range: • allowed_force_push: force push is allowed (disabled by default). Default value: N/A Enumeration values: • allowed_force_push

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Enabled or not Constraints: N/A Value range: • true: enabled • false: disabled Default value: N/A

Response Parameters

Status code: 200

Table 4-522 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryProtectedBranchDto objects	List of protected branches in a repository.

Table 4-523 RepositoryProtectedBranchDto

Parameter	Type	Description
id	Integer	Definition: ID of the protected branch. Value range: 1-2147483647 Value range: 1~2147483647
name	String	Definition: Branch name or wildcard. Value range: N/A.

Parameter	Type	Description
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-524 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-525 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-526 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-527 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

```
PUT /v4/repositories/123/protected-branches
{
  "names": [ "t*", "tt*" ],
  "actions": [ {
    "action": "push",
    "enable": true,
    "user_ids": [ 9124 ],
```

```
"user_team_ids" : [ 247 ],
"related_role_ids" : [ "6115a3ddd9044e288c558d1ae827a732", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
}, {
  "action" : "merge",
  "enable" : true,
  "user_ids" : [ 9124 ],
  "user_team_ids" : [ 247, 251 ],
  "related_role_ids" : [ "Administrator", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
}]
}
```

Example Responses

Status code: 200

List of protected branches in a repository.

```
[ {
  "id" : 2112012344,
  "name" : "t*",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 9124,
      "name" : "user",
      "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenantName"
    } ],
    "user_teams" : [ {
      "id" : 247,
      "name" : "team-1"
    } ],
    "roles" : [ {
      "id" : 23836589,
      "name" : "Committer",
      "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
      "chinese_name" : "Committer"
    }, {
      "id" : 23836590,
      "name" : "Developer",
      "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
      "chinese_name" : "Developer"
    }, {
      "id" : 23836594,
      "name" : "Project manager",
      "related_role_id" : "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name" : "Project manager"
    }, {
      "id" : 23836597,
      "name" : "Test manager",
      "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
      "chinese_name" : "Test manager"
    } ]
  } ],
  "action" : "merge",
  "enable" : true,
  "users" : [ {
    "id" : 9124,
    "name" : "user",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : "",
    "nick_name" : "user",
```

```
    "tenant_name" : "tenantName"
  } ],
  "user_teams" : [ {
    "id" : 247,
    "name" : "team-1"
  } ],
  "roles" : [ {
    "id" : 23836589,
    "name" : "Committer",
    "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
    "chinese_name" : "Committer"
  }, {
    "id" : 23836590,
    "name" : "Developer",
    "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
    "chinese_name" : "Developer"
  }, {
    "id" : 23836595,
    "name" : "Administrator",
    "related_role_id" : "7a96af96176e4f728f571b8af8551dec",
    "chinese_name" : "Project administrator"
  }, {
    "id" : 23836597,
    "name" : "Test manager",
    "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name" : "Test manager"
  } ]
} ],
{
  "id" : 2112012345,
  "name" : "test",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 9124,
      "name" : "test_user",
      "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenant"
    } ],
  },
  "user_teams" : [ {
    "id" : 247,
    "name" : "team-1"
  } ],
  "roles" : [ {
    "id" : 23836589,
    "name" : "Committer",
    "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
    "chinese_name" : "Committer"
  }, {
    "id" : 23836590,
    "name" : "Developer",
    "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
    "chinese_name" : "Developer"
  }, {
    "id" : 23836594,
    "name" : "Project manager",
    "related_role_id" : "6115a3ddd9044e288c558d1ae827a732",
    "chinese_name" : "Project manager"
  }, {
    "id" : 23836597,
    "name" : "Test manager",
    "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
    "chinese_name" : "Test manager"
  } ]
}, {
```

```
"action" : "merge",
"enable" : true,
"users" : [ {
  "id" : 9124,
  "name" : "user",
  "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "state" : "active",
  "avatar_url" : "",
  "nick_name" : "user",
  "tenant_name" : "tenant"
} ],
"user_teams" : [ {
  "id" : 247,
  "name" : "team-1"
} ],
"roles" : [ {
  "id" : 23836589,
  "name" : "Committer",
  "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
  "chinese_name" : "Committer"
}, {
  "id" : 23836590,
  "name" : "Developer",
  "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
  "chinese_name" : "Developer"
}, {
  "id" : 23836595,
  "name" : "Administrator",
  "related_role_id" : "7a96af96176e4f728f571b8af8551dec",
  "chinese_name" : "Project administrator"
}, {
  "id" : 23836597,
  "name" : "Test manager",
  "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
  "chinese_name" : "Test manager"
} ]
} ]
}]
```

Status Codes

Status Code	Description
200	List of protected branches in a repository.

Error Codes

See [Error Codes](#).

4.1.3.11 Deleting Protected Branches in Batches in a Repository

Function

This API is used to delete protected branches in batches in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/protected-branches/bulk-deletion

Table 4-528 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-529 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-530 Request body parameters

Parameter	Mandatory	Type	Description
names	No	Array of strings	Definition: Protected branch name or wildcard list. Constraints: N/A. Value range: N/A. Default value: N/A.

Response Parameters

Status code: 204

Table 4-531 Response body parameters

Parameter	Type	Description
status	String	Definition: Status code • success: The API request is successful. • fail: The API request failed. Enumeration values: • success • fail

Example Requests

Delete protected branches in batches in a repository.

```
POST /v4/repositories/123/protected-branches/bulk-deletion
```

```
{
  "names": [ "t*", "tt*" ]
}
```

Example Responses

Status code: 204

OK

```
{  
  "status": "success"  
}
```

Status Codes

Status Code	Description
204	OK

Error Codes

See [Error Codes](#).

4.1.3.12 Obtaining a Protected Branch

Function

This API is used to obtain a protected branch.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/protected-branch

Table 4-532 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-533 Query Parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Definition: Protected branch name or wildcard expression. Constraints: N/A. Value range: N/A. Default value: N/A. Default value: N/A

Request Parameters

Table 4-534 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-535 Response body parameters

Parameter	Type	Description
id	Integer	Definition: ID of the protected branch. Value range: 1-2147483647 Value range: 1~2147483647
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-536 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.

Parameter	Type	Description
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-537 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-538 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-539 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

None

Example Responses

Status code: 200

Protected branch.

```
{
  "id" : 2112012344,
  "name" : "t*",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 9493,
      "name" : "user",
      "username" : "84280e40b7974b9eaff329f8e43a5080",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenantName"
    } ],
    "user_teams" : [ {
      "id" : 247,
      "name" : "team-1"
    } ],
    "roles" : [ {
      "id" : 23836589,
      "name" : "Committer",
      "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
      "chinese_name" : "Committer"
    }, {
      "id" : 23836590,
      "name" : "Developer",
      "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
      "chinese_name" : "Developer"
    }, {
      "id" : 23836594,
      "name" : "Project manager",
      "related_role_id" : "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name" : "Project manager"
    }, {
      "id" : 23836597,
      "name" : "Test manager",
      "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
      "chinese_name" : "Test manager"
    } ]
  }, {
    "action" : "merge",
    "enable" : true,
    "users" : [ {
      "id" : 9493,
      "name" : "user",
      "username" : "84280e40b7974b9eaff329f8e43a5080",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenantName"
    } ],
    "user_teams" : [ {
      "id" : 247,
      "name" : "team-1"
    } ],
    "roles" : [ {
      "id" : 23836589,
      "name" : "Committer",
      "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
      "chinese_name" : "Committer"
    }, {
      "id" : 23836590,
      "name" : "Developer",
      "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
      "chinese_name" : "Developer"
    }, {
      "id" : 23836595,
      "name" : "Administrator",
```

```
"related_role_id" : "7a96af96176e4f728f571b8af8551dec",
"chinese_name" : "Project administrator"
}, {
  "id" : 23836597,
  "name" : "Test manager",
  "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
  "chinese_name" : "Test manager"
}]
}]
}
```

Status Codes

Status Code	Description
200	Protected branch.

Error Codes

See [Error Codes](#).

4.1.3.13 Protected Branch

Function

This API is used to update a protected branch.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/protected-branch

Table 4-540 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-541 Query Parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Definition: Protected branch name or wildcard expression. Constraints: N/A. Value range: N/A. Default value: N/A. Default value: N/A

Request Parameters

Table 4-542 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-543 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of ProtectedBranchProtectedActionBodyDto objects	Protected branch permission list.

Table 4-544 ProtectedBranchProtectedActionBodyDto

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A. Default value: true
user_ids	No	Array of integers	Definition: User ID list. Constraints: N/A. Value range: Integer Default value: N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
user_team_ids	No	Array of integers	Definition: Member group ID list. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647
related_role_ids	No	Array of strings	Definition: Associated role ID list. Constraints: N/A. Value range: N/A. Default value: N/A.
action	No	String	Definition: Event name. Constraints: Mandatory. Value range: • push: Push. • merge: Merge. Default value: N/A. Enumeration values: • push • merge
addition_switchers	No	Array of ProtectedActionSwitcher objects	Definition: Additional switch Constraints: N/A Value range: N/A Default value: N/A

Table 4-545 ProtectedActionSwitcher

Parameter	Mandatory	Type	Description
name	No	String	Definition: Switch name Constraints: N/A Value range: - allowed_force_push: force push is allowed (disabled by default). Default value: N/A Enumeration values: allowed_force_push
enable	No	Boolean	Definition: Enabled or not Constraints: N/A Value range: - true: enabled - false: disabled Default value: N/A

Response Parameters

Status code: 200

Table 4-546 Response body parameters

Parameter	Type	Description
id	Integer	Definition: ID of the protected branch. Value range: 1~2147483647 Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Branch name or wildcard. Value range: N/A.
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Value range: N/A.

Table 4-547 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-548 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-549 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-550 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

This API is used to update a protected branch.

```
PUT /v4/repositories/123/protected-branch?branch_name=tt*
```

```
[ {  
  "action" : "push",  
  "enable" : true,  
  "user_ids" : [ 9090 ],
```

```
"user_team_ids" : [ 247, 521 ],
"related_role_ids" : [ "Administrator", "24f72d0b611746c3a43da596ea5065f5" ]
}, {
  "action" : "merge",
  "enable" : true,
  "user_ids" : [ 9124 ],
  "user_team_ids" : [ 247 ],
  "related_role_ids" : [ "Administrator", "31bcd56943f0491fbc2f410d163f70cc",
    "24f72d0b611746c3a43da596ea5065f5" ]
}]
```

Example Responses

Status code: 200

Protected branch.

```
{
  "id" : 2112012344,
  "name" : "t*",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 9493,
      "name" : "user",
      "username" : "84280e40b7974b9eaff329f8e43a5080",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenantName"
    } ],
    "user_teams" : [ {
      "id" : 247,
      "name" : "team-1"
    } ],
    "roles" : [ {
      "id" : 23836589,
      "name" : "Committer",
      "related_role_id" : "8425999e92974f2980b76b08ad423aa1",
      "chinese_name" : "Committer"
    }, {
      "id" : 23836590,
      "name" : "Developer",
      "related_role_id" : "f2464b129b064a6a988734a73c3f366b",
      "chinese_name" : "Developer"
    }, {
      "id" : 23836594,
      "name" : "Project manager",
      "related_role_id" : "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name" : "Project manager"
    }, {
      "id" : 23836597,
      "name" : "Test manager",
      "related_role_id" : "24f72d0b611746c3a43da596ea5065f5",
      "chinese_name" : "Test manager"
    } ]
  }, {
    "action" : "merge",
    "enable" : true,
    "users" : [ {
      "id" : 9493,
      "name" : "user",
      "username" : "84280e40b7974b9eaff329f8e43a5080",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenantName"
    } ],
  }
```



```
"user_teams": [ {  
  "id": 247,  
  "name": "team-1"  
} ],  
"roles": [ {  
  "id": 23836589,  
  "name": "Committer",  
  "related_role_id": "8425999e92974f2980b76b08ad423aa1",  
  "chinese_name": "Committer"  
}, {  
  "id": 23836590,  
  "name": "Developer",  
  "related_role_id": "f2464b129b064a6a988734a73c3f366b",  
  "chinese_name": "Developer"  
}, {  
  "id": 23836595,  
  "name": "Administrator",  
  "related_role_id": "7a96af96176e4f728f571b8af8551dec",  
  "chinese_name": "Project administrator"  
}, {  
  "id": 23836597,  
  "name": "Test manager",  
  "related_role_id": "24f72d0b611746c3a43da596ea5065f5",  
  "chinese_name": "Test manager"  
}  
}]  
}]  
}
```

Status Codes

Status Code	Description
200	Protected branch.

Error Codes

See [Error Codes](#).

4.1.3.14 Deleting a Protected Branch

Function

This API is used to delete a protected branch.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/protected-branch

Table 4-551 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-552 Query Parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Definition: Protected branch name or wildcard list.

Request Parameters

Table 4-553 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

Table 4-554 Response body parameters

Parameter	Type	Description
status	String	Definition: Status code • success: The API request is successful. • fail: The API request failed. Enumeration values: • success • fail

Example Requests

None

Example Responses

Status code: 204

OK

```
{  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
204	OK

Error Codes

See [Error Codes](#).

4.1.3.15 Obtaining the List of Protected Branches in a Project

Function

This API is used to obtain the protected branch list of a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/protected-branches

Table 4-555 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-556 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
search	No	String	Definition: Name of the protected branch Value range: 1–2,000 characters

Parameter	Mandatory	Type	Description
user_actions	No	Boolean	Definition: Whether to use the return content of the actions permission point. Value range: 1–2,000 characters
view	No	String	Definition: The value can only be simple, indicating that the simple mode is used and only the name is returned. Value range: 1–2,000 characters

Request Parameters

Table 4-557 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-558 Response body parameters

Parameter	Type	Description
[items]	Array of ProjectProtectedBranchApiDto objects	Protected branch list of a project

Table 4-559 ProjectProtectedBranchApiDto

Parameter	Type	Description
id	Integer	Definition: Unique ID of the protected branch Value range: 1~2147483647
name	String	Definition: Name of the protected branch Value range: 1–1,000 characters.
actions	Array of ProjectProtectedActionResultApiDto objects	Definition: Event list

Table 4-560 ProjectProtectedActionResultApiDto

Parameter	Type	Description
action	String	Definition: Event name Value range: 1–1,000 characters.
enable	Boolean	Definition: Enabled or not
users	Array of UserBasicDto objects	Definition: User list
user_teams	Array of UserTeamBasicDto objects	Definition: Member group list

Parameter	Type	Description
roles	Array of RoleBasicDto objects	Definition: Role list
addition_switchers	Array of ForceActionEnableDto objects	Definition: Operation selection list

Table 4-561 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias

Parameter	Type	Description
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-562 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-563 RoleBasicDto

Parameter	Type	Description
id	Integer	Definition: Unique role ID Value range: 1~2147483647
name	String	Definition: Role name Value range: 1-1,000 characters.
related_role_id	String	Definition: Role ID Value range: 1-1,000 characters.

Parameter	Type	Description
chinese_name	String	Definition: Role name (CN) Value range: 1–1,000 characters.

Table 4-564 ForceActionEnableDto

Parameter	Type	Description
name	String	Definition: Name of the forced operation Value range: 1–1,000 characters.
enable	Boolean	Definition: Whether to force open this operation.

Status code: 401**Table 4-565** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-566** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/3132f98fb2c44430ba68f356af3a8e0d/protected-branches
```

Example Responses

Status code: 200

Obtain the protected branches of a project

```
[ {
  "id" : 250,
  "name" : 3,
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ ],
    "user_teams" : [ ],
    "roles" : [ ],
    "addition_switchers" : [ {
      "name" : "allowed_force_push",
      "enable" : false
    } ]
  } ],
  {
    "action" : "merge",
    "enable" : false,
    "users" : null,
    "user_teams" : null,
    "roles" : null,
    "addition_switchers" : null
  } ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the protected branches of a project
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.3.16 Creating a Protected Branch in a Project

Function

This API is used to create a protected branch under a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/projects/{project_id}/protected-branches

Table 4-567 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-568 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-569 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Name of the protected branch Value range 1–1,000 characters.
actions	No	Array of ProtectedActionBasicApiDto objects	Definition: Event list

Table 4-570 ProtectedActionBasicApiDto

Parameter	Mandatory	Type	Description
action	No	String	Definition: Event name Value range: push: push; merge: merge 1~1,000 characters. Enumeration values: • push • merge
enable	No	Boolean	Definition: Enabled or not
user_ids	No	Array of integers	Definition: User ID list Constraints: N/A Value range: Integer Default value: N/A Value range: 1~2147483647
user_team_ids	No	Array of integers	Definition: Member group ID list Constraints: N/A Value range: N/A Default value: N/A Value range: 1~2147483647

Parameter	Mandatory	Type	Description
related_role_ids	No	Array of strings	Definition: Associated role ID list Constraints: N/A Value range: N/A Default value: N/A
addition_switches	No	Array of ForceActionEnableDto objects	Definition: Operation selection list

Table 4-571 ForceActionEnableDto

Parameter	Mandatory	Type	Description
name	No	String	Definition: Name of the forced operation Value range: 1–1,000 characters.
enable	No	Boolean	Definition: Whether to force open this operation.

Response Parameters

Status code: 200

Table 4-572 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Unique ID of the protected branch Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition: Name of the protected branch Value range: 1–1,000 characters.
actions	Array of ProjectProtectedActionResultApiDto objects	Definition: Event list

Table 4-573 ProjectProtectedActionResultApiDto

Parameter	Type	Description
action	String	Definition: Event name Value range: 1–1,000 characters.
enable	Boolean	Definition: Enabled or not
users	Array of UserBasicDto objects	Definition: User list
user_teams	Array of UserTeamBasicDto objects	Definition: Member group list
roles	Array of RoleBasicDto objects	Definition: Role list
addition_switchers	Array of ForceActionEnableDto objects	Definition: Operation selection list

Table 4-574 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-575 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-576 RoleBasicDto

Parameter	Type	Description
id	Integer	Definition: Unique role ID Value range: 1~2147483647
name	String	Definition: Role name Value range: 1-1,000 characters.
related_role_id	String	Definition: Role ID Value range: 1-1,000 characters.
chinese_name	String	Definition: Role name (CN) Value range: 1-1,000 characters.

Table 4-577 ForceActionEnableDto

Parameter	Type	Description
name	String	Definition: Name of the forced operation Value range: 1–1,000 characters.
enable	Boolean	Definition: Whether to force open this operation.

Example Requests

Create a protected branch in a project

POST https://{endpoint}/v4/projects/3132f98fb2c44430ba68f356af3a8e0d/protected-branch

```
{
  "name" : "212",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "user_ids" : [ 9124 ],
    "user_team_ids" : [ 247 ],
    "related_role_ids" : [ "6115a3ddd9044e288c558d1ae827a732", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
  }, {
    "action" : "merge",
    "enable" : true,
    "user_ids" : [ 9124 ],
    "user_team_ids" : [ 247 ],
    "related_role_ids" : [ "Administrator", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
  } ]
}
```

Example Responses

Status code: 200

Protected branch details in a project

```
{
  "id" : 260,
  "name" : "212",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 9087,
      "name" : "test11",
      "username" : "04ef19ad5eaf4b8c9cf2451d3536202d",
      "state" : "blocked",
      "avatar_url" : null,
      "avatar_path" : null,
      "email" : null,
      "name_cn" : null,
      "web_url" : null,
      "nick_name" : "",
      "tenant_name" : "devcloud_codehub_l00314597_01",
```

```
{
  "error_message" : null
}, {
  "user_teams" : [ {
    "id" : 312,
    "name" : "team1"
  } ],
  "roles" : [ {
    "id" : 35471438,
    "name" : "Administrator",
    "related_role_id" : "e134545ad4724ea0b77a00a0fec5cd4c",
    "chinese_name" : "Administrator"
  } ],
  "addition_switchers" : [ {
    "name" : "allowed_force_push",
    "enable" : false
  } ]
}, {
  "action" : "merge",
  "enable" : true,
  "users" : [ ],
  "user_teams" : [ ],
  "roles" : [ ],
  "addition_switchers" : null
} ]
}
```

Status Codes

Status Code	Description
200	Protected branch details in a project

Error Codes

See [Error Codes](#).

4.1.3.17 Creating a Protection Tag for a Project

Function

This API is used to create a protected tag under a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/projects/{project_id}/protected-tags

Table 4-578 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-579 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-580 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Protected tag name Value range 1–1,000 characters.
actions	No	Array of ProjectProtectedTagAction Dto objects	Definition: Event list

Table 4-581 ProjectProtectedTagActionDto

Parameter	Mandatory	Type	Description
action	No	String	Definition: Event name ** Value range: read (query); create-delete (create and delete); create (create)** 1–1,000 characters. Enumeration values: • read • create-delete • create
enable	No	Boolean	Definition: Enabled or not
user_ids	No	Array of integers	Definition: User ID list Constraints: N/A Value range: Integer Default value: N/A Value range: 1~2147483647
user_names	No	Array of strings	Definition: User name list Constraints: N/A Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
user_team_ids	No	Array of integers	Definition: Member group ID list Constraints: N/A Value range: N/A Default value: N/A Value range: 1~2147483647
user_team_names	No	Array of strings	Definition: Member group name list Constraints: N/A Value range: N/A Default value: N/A
related_role_ids	No	Array of strings	Definition: Associated role ID list Constraints: N/A Value range: N/A Default value: N/A

Response Parameters

Status code: 200

Table 4-582 Response body parameters

Parameter	Type	Description
name	String	Definition: Protected tag name Value range 1–1,000 characters.

Parameter	Type	Description
actions	Array of ProjectProtectedTagActionDto objects	Definition: Event list

Table 4-583 ProjectProtectedTagActionDto

Parameter	Type	Description
action	String	Definition: Event name ** Value range: read (query); create-delete (create and delete); create (create)** 1-1,000 characters. Enumeration values: • read • create-delete • create
enable	Boolean	Definition: Enabled or not
user_ids	Array of integers	Definition: User ID list Constraints: N/A Value range: Integer Default value: N/A Value range: 1~2147483647
user_names	Array of strings	Definition: User name list Constraints: N/A Value range: N/A Default value: N/A

Parameter	Type	Description
user_team_ids	Array of integers	Definition: Member group ID list Constraints: N/A Value range: N/A Default value: N/A Value range: 1~2147483647
user_team_names	Array of strings	Definition: Member group name list Constraints: N/A Value range: N/A Default value: N/A
related_role_ids	Array of strings	Definition: Associated role ID list Constraints: N/A Value range: N/A Default value: N/A

Example Requests

The protected tag created under the project

PUT https://{endpoint}/v4/projects/{project_id}/protected-tags

```
{
  "name" : "123",
  "actions" : [ {
    "action" : "create",
    "enable" : true,
    "user_ids" : [ 9124 ],
    "user_team_ids" : [ 247 ],
    "related_role_ids" : [ "6115a3ddd9044e288c558d1ae827a732", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
  }, {
    "action" : "read",
```



```
"enable": true,
"user_ids": [ 9124 ],
"user_team_ids": [ 247 ],
"related_role_ids": [ "6115a3ddd9044e288c558d1ae827a732", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
}]
}
```

Example Responses

Status code: 200

Details about the protected tag of the created project

```
{
  "name": "123",
  "actions": [ {
    "action": "create",
    "enable": true,
    "user_ids": [ 9124 ],
    "user_names": [ ],
    "user_team_ids": [ 247 ],
    "user_team_names": [ ],
    "related_role_ids": [ "6115a3ddd9044e288c558d1ae827a732", "8425999e92974f2980b76b08ad423aa1",
"f2464b129b064a6a988734a73c3f366b", "24f72d0b611746c3a43da596ea5065f5" ]
  } ]
}
```

Status Codes

Status Code	Description
200	Details about the protected tag of the created project

Error Codes

See [Error Codes](#).

4.1.3.18 Obtaining the Details of a Protected Tag of a Specified Project

Function

This API is used to obtain protected tag details of a specified project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/protected-tags

Table 4-584 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-585 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-586 Response body parameters

Parameter	Type	Description
[items]	Array of ProjectProtected-TagPo objects	Protected tag details list

Table 4-587 ProjectProtectedTagPo

Parameter	Type	Description
id	Integer	Definition: Unique ID of the protected branch Value range: 1~2147483647
source	String	Definition: Source Value range: 1-1,000 characters.
project_id	String	Definition: Project ID Value range: 1-1,000 characters.
updated_at	String	Definition: Update time Value range: 1-1,000 characters.
name	String	Definition: Protected branch name Value range: 1-1,000 characters.
actions	Array of ProjectProtectedActionResultDto objects	Definition: Event list

Table 4-588 ProjectProtectedActionResultDto

Parameter	Type	Description
action	String	Definition: Action Value range: 1-1,000 characters.
enable	Boolean	Definition: Enabled or not

Parameter	Type	Description
levels	String	Definition: Permission point Value range: 1–1,000 characters.
level_names	String	Definition: Permission name Value range: 1–1,000 characters.
users	Array of UserBasicDto objects	Definition: Member list
user_teams	Array of UserTeamBasicDto objects	Definition: Member group list
roles	Array of RoleBasicDto objects	Definition: Role list
addition_switchers	Array of ForceActionEnableDto objects	Definition: Operation selection list

Table 4-589 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-590 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647

Parameter	Type	Description
name	String	Definition: User group name. Value range: N/A.

Table 4-591 RoleBasicDto

Parameter	Type	Description
id	Integer	Definition: Unique role ID Value range: 1~2147483647
name	String	Definition: Role name Value range: 1-1,000 characters.
related_role_id	String	Definition: Role ID Value range: 1-1,000 characters.
chinese_name	String	Definition: Role name (CN) Value range: 1-1,000 characters.

Table 4-592 ForceActionEnableDto

Parameter	Type	Description
name	String	Definition: Name of the forced operation Value range: 1-1,000 characters.
enable	Boolean	Definition: Whether to force open this operation.

Status code: 401**Table 4-593** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-594** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-595** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/protected-tags
```

Example Responses

Status code: 200

Obtain protected tag details of a specified project

```
[ {  
  "id" : 85,  
  "source" : null,
```

```
"project_id" : "bf8e0877a109417ba0f184208b44fedc",
"updated_at" : "2025-09-23",
"name" : "123",
"actions" : [ {
  "action" : "create",
  "enable" : false,
  "users" : [ {
    "id" : 1111,
    "name" : "user1",
    "username" : "user1",
    "state" : "active",
    "avatar_url" : null,
    "avatar_path" : null,
    "email" : null,
    "name_cn" : null,
    "web_url" : null,
    "nick_name" : "",
    "tenant_name" : "devcloud_test",
    "error_message" : null
  } ],
  "user_teams" : [ {
    "id" : 1111,
    "name" : "team1"
  } ],
  "roles" : [ {
    "id" : 1111,
    "name" : "Developer",
    "related_role_id" : "dfcd80a52b5e46cab86a8e1fa7ecd25a",
    "chinese_name" : "Developer"
  } ]
} ],
}, {
  "id" : 85,
  "source" : null,
  "project_id" : "bf8e0877a109417ba0f184208b44fedc",
  "updated_at" : "2025-09-23",
  "name" : "123",
  "actions" : [ {
    "action" : "create",
    "enable" : false,
    "users" : [ {
      "id" : 1111,
      "name" : "user1",
      "username" : "user1",
      "state" : "active",
      "avatar_url" : null,
      "avatar_path" : null,
      "custom_attributes" : null,
      "email" : null,
      "name_cn" : null,
      "web_url" : null,
      "nick_name" : "",
      "tenant_name" : "devcloud_test",
      "error_message" : null
    } ],
    "user_teams" : [ {
      "id" : 1111,
      "name" : "team1"
    } ],
    "roles" : [ {
      "id" : 1111,
      "name" : "Developer",
      "related_role_id" : "dfcd80a52b5e46cab86a8e1fa7ecd25a",
      "chinese_name" : "Developer"
    } ]
  } ]
} ]
}]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Project Not Found. Project Not Found"
}
```

Status Codes

Status Code	Description
200	Obtain protected tag details of a specified project
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.4 Permission

4.1.4.1 Obtaining the Permission List for Pushing Repository Files

Function

This API is used to obtain the repository file push permission list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/file-push-permissions

Table 4-596 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-597 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	Definition Query keyword, which can be used for fuzzy match of the protected branch name. Constraints N/A Range N/A Default Value N/A Default value: N/A
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-598 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-599 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryFilePushPermissionDto objects	Repository file push permission list.

Table 4-600 RepositoryFilePushPermissionDto

Parameter	Type	Description
id	Integer	Definition Repository file push permission ID. Range 1-2147483647 Value range: 1~2147483647
path	String	Definition Directory path or wildcard. Range N/A
actions	Array of RepositoryProtectedActionDto objects	Definition Event list. Range N/A

Table 4-601 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.

Parameter	Type	Description
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-602 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-603 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-604 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

None

Example Responses

Status code: 200

Repository file push permission list

```
[ {
  "id" : 44,
  "path" : "33",
  "actions" : [ {
    "action" : "push",
    "enable" : true,
    "users" : [ {
      "id" : 7574,
      "name" : "user",
      "username" : "a618e34bd5704be3ae3395dfede06041",
      "state" : "active",
      "avatar_url" : "",
      "nick_name" : "user",
      "tenant_name" : "tenant"
    } ],
    "user_teams" : [ {
      "id" : 247,
      "name" : "team-1"
    } ],
    "roles" : [ {
      "id" : 23836594,
      "name" : "Project manager",
      "related_role_id" : "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name" : "Project manager"
    } ]
  } ]
} ]
```

Status Codes

Status Code	Description
200	Repository file push permission list

Error Codes

See [Error Codes](#).

4.1.4.2 Updating the Push Permissions of Repository Files in Batches

Function

This API is used to update the push permission of repository files in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/file-push-permissions

Table 4-605 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-606 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-607 Request body parameters

Parameter	Mandatory	Type	Description
permissions	No	Array of FilePushPermissionUpdateDto objects	Definition File push permission update list. Constraints N/A Range N/A Default Value N/A

Table 4-608 FilePushPermissionUpdateDto

Parameter	Mandatory	Type	Description
id	No	Integer	Definition Repository file push permission ID. Constraints N/A Range N/A Default Value N/A Value range: 1~2147483647
path	No	String	Definition Directory path or wildcard. Constraints N/A Range N/A Default Value N/A

Parameter	Mandatory	Type	Description
actions	No	Array of FilePushPermissionActionBodyDto objects	Definition Event setting list. Constraints N/A Range N/A Default Value N/A

Table 4-609 FilePushPermissionActionBodyDto

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A. Default value: true
user_ids	No	Array of integers	Definition: User ID list. Constraints: N/A. Value range: Integer Default value: N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
user_team_ids	No	Array of integers	Definition: Member group ID list. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647
related_role_ids	No	Array of strings	Definition: Associated role ID list. Constraints: N/A. Value range: N/A. Default value: N/A.
action	No	String	Definition Event name. Constraints N/A Range • push: push. Default Value N/A Enumeration values: • push

Response Parameters

Status code: 200

Table 4-610 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryFilePushPermissionDto objects	Repository file push permission list.

Table 4-611 RepositoryFilePushPermissionDto

Parameter	Type	Description
id	Integer	Definition Repository file push permission ID. Range 1-2147483647 Value range: 1~2147483647
path	String	Definition Directory path or wildcard. Range N/A
actions	Array of RepositoryProtectedActionDto objects	Definition Event list. Range N/A

Table 4-612 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.

Parameter	Type	Description
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-613 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.

Parameter	Type	Description
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-614 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-615 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.

Parameter	Type	Description
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

Update the push permission of repository files in batches.

```
PUT /v4/repositories/123/file-push-permissions
{
  "permissions": [ {
    "id": 5,
    "path": "/config/*",
    "actions": [ {
      "action": "push",
      "enable": true,
      "user_ids": [ 9124 ],
      "user_team_ids": [ 247 ],
      "related_role_ids": [ "24f72d0b611746c3a43da596ea5065f5" ]
    } ]
  } ]
}
```

Example Responses

Status code: 200

Repository file push permission list.

```
[ {
  "id": 44,
  "path": "33",
  "actions": [ {
    "action": "push",
    "enable": true,
    "users": [ {
      "id": 7574,
      "name": "user",
      "username": "a618e34bd5704be3ae3395dfede06041",
      "state": "active",
      "avatar_url": "",
      "nick_name": "user",
      "tenant_name": "tenant"
    } ],
    "user_teams": [ {
      "id": 247,
      "name": "team-1"
    } ],
    "roles": [ {
      "id": 23836594,
      "name": "Project manager",
      "related_role_id": "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name": "Project manager"
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	Repository file push permission list.

Error Codes

See [Error Codes](#).

4.1.4.3 Creating Repository File Push Permissions

Function

This API is used to create the repository file push permission.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/file-push-permissions

Table 4-616 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-617 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-618 Request body parameters

Parameter	Mandatory	Type	Description
path	Yes	String	Definition Directory path or wildcard. Constraints N/A Range N/A Default Value N/A
actions	No	Array of FilePushPermissionActionBodyDto objects	Definition Event setting list. Constraints N/A Range N/A Default Value N/A

Table 4-619 FilePushPermissionActionBodyDto

Parameter	Mandatory	Type	Description
enable	No	Boolean	Definition: Whether to enable. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A. Default value: true
user_ids	No	Array of integers	Definition: User ID list. Constraints: N/A. Value range: Integer Default value: N/A. Value range: 1~2147483647
user_team_ids	No	Array of integers	Definition: Member group ID list. Constraints: N/A. Value range: N/A. Default value: N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
related_role_ids	No	Array of strings	Definition: Associated role ID list. Constraints: N/A. Value range: N/A. Default value: N/A.
action	No	String	Definition Event name. Constraints N/A Range - push: push. Default Value N/A Enumeration values: - push

Response Parameters

Status code: 200

Table 4-620 Response body parameters

Parameter	Type	Description
id	Integer	Definition Repository file push permission ID. Range 1-2147483647 Value range: 1~2147483647
path	String	Definition Directory path or wildcard. Range N/A

Parameter	Type	Description
actions	Array of RepositoryProtectedActionDto objects	Definition: Event list. Range: N/A

Table 4-621 RepositoryProtectedActionDto

Parameter	Type	Description
action	String	Definition: Event name. Value range: N/A.
enable	Boolean	Definition: Whether to enable. Value range: • true: Yes. • false: No.
users	Array of RepositoryUserDto objects	Definition: Whitelisted user list. Value range: N/A.
user_teams	Array of UserTeamBasicDto objects	Definition: Whitelisted user group list. Value range: N/A.
roles	Array of BasicRoleDto objects	Definition: Whitelisted role list. Value range: N/A.

Table 4-622 RepositoryUserDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: activated • blocked: disabled Enumeration values: • active • blocked
avatar_url	String	Definition: Profile picture URL. Value range: N/A.
nick_name	String	Definition: User alias. Value range: N/A.
tenant_name	String	Definition: Tenant name. Value range: N/A.

Table 4-623 UserTeamBasicDto

Parameter	Type	Description
id	Integer	Definition: User group ID. Value range: 1-2147483647
name	String	Definition: User group name. Value range: N/A.

Table 4-624 BasicRoleDto

Parameter	Type	Description
id	Integer	Definition: Role ID. Value range: 1-2147483647
name	String	Definition: Role name. Value range: N/A.
related_role_id	String	Definition: Associated role ID. Value range: N/A.
chinese_name	String	Definition: Role name in Chinese. Value range: N/A.

Example Requests

Create repository file push permissions

POST /v4/repositories/123/file-push-permissions

```
{
  "path" : "/config1/*",
  "actions" : [ {
    "action" : "push",
```

```
{
  "enable": true,
  "user_ids": [ 9124 ],
  "user_team_ids": [ 247 ],
  "related_role_ids": [ "6115a3ddd9044e288c558d1ae827a732" ]
}
```

Example Responses

Status code: 200

Repository file push permission.

```
{
  "id": 44,
  "path": "33",
  "actions": [ {
    "action": "push",
    "enable": true,
    "users": [ {
      "id": 7574,
      "name": "user",
      "username": "a618e34bd5704be3ae3395dfede06041",
      "state": "active",
      "avatar_url": "",
      "nick_name": "user",
      "tenant_name": "tenant"
    } ],
    "user_teams": [ {
      "id": 247,
      "name": "team-1"
    } ],
    "roles": [ {
      "id": 23836594,
      "name": "Project manager",
      "related_role_id": "6115a3ddd9044e288c558d1ae827a732",
      "chinese_name": "Project manager"
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	Repository file push permission.

Error Codes

See [Error Codes](#).

4.1.4.4 Deleting the Push Permission of Repository Files in Batches

Function

This API is used to delete the push permission of repository files in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/file-push-permissions/
batch-delete

Table 4-625 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-626 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-627 Request body parameters

Parameter	Mandatory	Type	Description
ids	No	Array of integers	Definition Push permission ID list. Constraints N/A Range N/A Default Value N/A Value range: 1~2147483647

Response Parameters

Status code: 204

Delete the push permission of repository files in batches.

None

Example Requests

Delete the push permission of repository files in batches.

```
POST /v4/repositories/123/file-push-permissions/batch-delete
```

```
{  
  "ids" : [ 7 ]  
}
```

Example Responses

None

Status Codes

Status Code	Description
204	Delete the push permission of repository files in batches.

Error Codes

See [Error Codes](#).

4.1.4.5 Querying the Repository Permission Matrix Configuration

Function

This API is used to query the repository permission matrix configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repository/{repository_id}/permissions/{resource_name}

Table 4-628 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
resource_name	Yes	String	Definition: Resource name Constraints: N/A Value range: • repository: repository • code: code. • member: member • branch: branch • tag: tag • mr: merge request • label: merge request label Default value: N/A

Table 4-629 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-630 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-631 Response body parameters

Parameter	Type	Description
[items]	Array of ResponsePermissionInfo objects	Repository permission matrix configuration list

Table 4-632 ResponsePermissionInfo

Parameter	Type	Description
role_id	String	Definition: Role ID Value range: N/A
role_name	String	Definition: Role name Value range: N/A
role_name_cn	String	Definition: Role name (CN) Value range: N/A
resource_permissions	AnyType	Definition: Resource permission details Value range: N/A

Example Requests

None

Example Responses

Status code: 200

Query repository permission matrix configuration

```
[ {  
  "role_id" : "d0457f74cc5b43d989ded7248f71b4e5",  
  "role_name" : "Developer",  
  "role_name_cn" : "Developer",  
  "resource_permissions" : {  
    "fork" : {  
      "permission_id" : "2",  
      "action" : "fork",
```

```
"display_name" : "fork",
"display_name_cn" : "fork",
"enabled" : "true",
"editable" : "true"
},
"delete" : {
  "permission_id" : "3",
  "action" : "delete",
  "display_name" : "delete",
  "display_name_cn" : "Delete",
  "enabled" : "true",
  "editable" : "true"
}
}
}]
```

Status Codes

Status Code	Description
200	Query repository permission matrix configuration

Error Codes

See [Error Codes](#).

4.1.4.6 Updating the Repository Permission Matrix Configuration

Function

This API is used to update the repository permission matrix configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repository/{repository_id}/permissions/{resource_name}

Table 4-633 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
resource_name	Yes	String	Definition: Resource name Constraints: N/A Value range: • repository: repository • code: code. • member: member • branch: branch • tag: tag • mr: merge request • label: merge request label Default value: N/A

Request Parameters

Table 4-634 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-635 Request body parameters

Parameter	Mandatory	Type	Description
data	No	Array of UpdatePermissionDto objects	Definition: Update resource permission details. Value range: N/A

Table 4-636 UpdatePermissionDto

Parameter	Mandatory	Type	Description
role_id	No	String	Definition: Role ID Value range: N/A
role_name	No	String	Definition: Role name Value range: N/A

Parameter	Mandatory	Type	Description
permissions	No	Array of UpdatePermissionDetail objects	Definition: Update permission point details Value range: N/A

Table 4-637 UpdatePermissionDetail

Parameter	Mandatory	Type	Description
permission_id	No	Integer	Definition: Permission point ID Value range: N/A Value range: 1~2147483647
enabled	No	Boolean	Definition: Permission point status Value range: • true: enabled • false: disabled

Response Parameters

Status code: 200

Table 4-638 Response body parameters

Parameter	Type	Description
status	String	Definition: Status code • success: The API request is successful. • fail: The API request failed. Enumeration values: • success • fail

Example Requests

Update repository permission matrix configuration

```
PUT /v4/repository/{repository_id}/permissions/{resource_name}
```

Example Responses

Status code: 200

Update repository permission matrix configuration

```
{
  "status" : 200
}
```

Status Codes

Status Code	Description
200	Update repository permission matrix configuration

Error Codes

See [Error Codes](#).

4.1.4.7 Updating the Repository Permission Inheritance Configuration

Function

This API is used to update the repository permission inheritance configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/permission-inherit-setting

Table 4-639 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-640 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-641 Request body parameters

Parameter	Mandatory	Type	Description
inherit_parent_permission	Yes	Boolean	Definition Permission inheritance settings. Constraints N/A. Range • true, the upper-layer permission configuration is used. If the upper-layer is a repository group, the repository group permission configuration is used. If the upper-layer is a project, the project permission configuration is used. • false, the repository permission configuration is used.

Response Parameters

Status code: 200

Table 4-642 Response body parameters

Parameter	Type	Description
inherit_parent_permission	Boolean	Definition Permission inheritance settings. Constraints N/A. Range • true, the upper-layer permission configuration is used. If the upper-layer is a repository group, the repository group permission configuration is used. If the upper-layer is a project, the project permission configuration is used. • false, the repository permission configuration is used.

Status code: 401

Table 4-643 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-644** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-645** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/repositories/100000/permission-inherit-setting
{
  "inherit_parent_permission" : true
}
```

Example Responses**Status code: 200**

OK

```
{  
  "inherit_parent_permission" : true  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permission and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.004404",  
  "error_msg" : "Group Not Found"  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.4.8 Querying Repository Permission Configurations

Function

This API is used to query the repository permission configuration.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/permission-inherit-setting

Table 4-646 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-647 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-648 Response body parameters

Parameter	Type	Description
inherit_parent_permission	Boolean	Definition Permission inheritance settings. Constraints N/A. Range - true, the upper-layer permission configuration is used. If the upper-layer is a repository group, the repository group permission configuration is used. If the upper-layer is a project, the project permission configuration is used. - false, the repository permission configuration is used.

Status code: 401**Table 4-649** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-650** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-651 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/100000/permission-inherit-setting
```

Example Responses

Status code: 200

OK

```
{  
  "inherit_parent_permission" : true  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permission and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.004404",  
  "error_msg" : "Group Not Found"  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Status Code	Description
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.5 Project

4.1.5.1 Obtaining Project Watermark Settings

Function

This API is used to obtain project watermark settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/watermark

Table 4-652 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-653 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-654** Response body parameters

Parameter	Type	Description
watermark	Boolean	Definition Watermark status. • true: enabled. • false: disabled.
can_update	Boolean	Definition Whether the current user has the permission to update the watermark setting. • true: Yes. • false: No.

Status code: 401

Table 4-655 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-656** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-657** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/86548fcf4dc944afb96d07bc9839e45c/watermark
```

Example Responses

Status code: 200

Project watermark settings.

```
{  
  "watermark" : false,  
  "can_update" : true  
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "The project does not exist or has been deleted."
}
```

Status Codes

Status Code	Description
200	Project watermark settings.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.5.2 Updating Project Watermark Settings

Function

This API is used to update project watermark settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/projects/{project_id}/watermark

Table 4-658 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-659 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-660 Request body parameters

Parameter	Mandatory	Type	Description
watermark	No	Boolean	Definition Watermark status. • true: enabled. • false: disabled.

Response Parameters

Status code: 200

Table 4-661 Response body parameters

Parameter	Type	Description
watermark	Boolean	Definition Watermark status. • true: enabled. • false: disabled.

Status code: 401**Table 4-662** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-663** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-664** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/projects/86548fcf4dc944afb96d07bc9839e45c/watermark
{
  "watermark" : false
}
```

Example Responses

Status code: 200

Project watermark settings.

```
{
  "watermark" : false
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "The project does not exist or has been deleted."
}
```

Status Codes

Status Code	Description
200	Project watermark settings.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.5.3 Obtaining the List of Repository Groups and Repositories in a Project

Function

This API is used to obtain the list of repository groups and repositories in a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/subgroups-and-repositories

Table 4-665 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-666 Query Parameters

Parameter	Mandatory	Type	Description
filter	No	Integer	Definition Search criteria, name. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
order_by	No	String	Definition Sorting order. id: unique identifier. name: name. created_at: creation time. updated_at: update time. Default value: updated_at Enumeration values: • id • name • created_at • updated_at
sort	No	String	Definition Sorting order. asc: ascending. desc: descending Default value: desc Enumeration values: • asc • desc
archived	No	Boolean	Definition Archived or not. Default value: false
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-667 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-668** Response body parameters

Parameter	Type	Description
[items]	Array of SubgroupAndProjectBaseDto objects	Definition: List of repository groups and repositories in a project.

Table 4-669 SubgroupAndProjectBaseDto

Parameter	Type	Description
project_id	String	Definition: Project ID. Value range: 1 to 1,000 characters.

Parameter	Type	Description
project_name	String	Definition: Project name. Value range: 1 to 1,000 characters.
role_namecn	String	Definition: Role name in Chinese. Value range: 1 to 1,000 characters.
role_nameen	String	Definition: Role name in English. Value range: 1 to 1,000 characters.
full_name	String	Definition: Full name. Value range: 1 to 1,000 characters.
full_path	String	Definition: Full path. Value range: 1 to 1,000 characters.
created_at	String	Definition: Creation time. Value range: 1 to 1,000 characters.
updated_at_timestamp	String	Definition: Update timestamp. Value range: 1 to 1,000 characters.
star_time	String	Definition: Start timestamp. Value range: 1 to 1,000 characters.
starred	Boolean	Definition: Whether to add it to favorites.

Parameter	Type	Description
develop_mode	String	Definition: Development mode. Normal: CR. Value range: 1 to 1,000 characters.
id	Integer	Definition: Repository or repository group ID. Value range: 1~2147483647
name	String	Definition: Repository group or repository name. Value range: 1 to 1,000 characters.
path	String	Definition: Path. Value range: 1 to 1,000 characters.
group_level	Integer	Definition: Repository group level. Value range: 1~2147483647
description	String	Definition: Description of the repository group or repository. Value range: 1 to 1,000 characters.
subgroup_count	Integer	Definition: Number of child repository groups. Value range: 1~2147483647
project_count	Integer	Definition: Number of repositories. Value range: 1~2147483647

Parameter	Type	Description
group_role	Integer	Definition: Repository group role. Value range: 1~2147483647
group_members_count	Integer	Definition: Number of members in a repository group. Value range: 1~2147483647
descendant_type	String	Definition: Resource type: group or project. Value range: 1 to 1,000 characters.
visibility_level	Integer	Definition: Visibility level: 0 (private) or 20 (public). Value range: 1~2147483647
visibility	String	Definition: Visibility: private or public. Value range: 1 to 1,000 characters.
is_project_admin	Integer	Definition: Whether the current user is the project creator. Value range: 1~2147483647
is_group_creator	Integer	Definition: Whether the current user is the creator of a repository group. Value range: 1~2147483647
is_repo_creator	Integer	Definition: Whether the current user is the repository creator. Value range: 1~2147483647

Parameter	Type	Description
role_show_flag	Integer	Definition: Role display flag. Value range: 1~2147483647
uuid	String	Definition: Repository UUID. Value range: 1 to 1,000 characters.
forks_count	Integer	Definition: Number of forks. Value range: 1~2147483647
is_kia	Boolean	Definition: Whether it is Kia.
is_owner	Boolean	Definition: Owner or not.
archived	Boolean	Definition: Whether it is archived.
last_repository_updated_at	String	Definition: Last update time of the repository. Value range: 1 to 1,000 characters.
open_merge_requests_count	Integer	Definition: Number of enabled MRs. Value range: 1~2147483647
all_merge_requests_count	Integer	Definition: Total number of MRs. Value range: 1~2147483647
project_role	Integer	Definition: Repository role. Value range: 1~2147483647

Parameter	Type	Description
project_members_count	Integer	Definition: Number of forks. Value range: 1~2147483647
project_creator	ProjectCreatorDto object	Definition: Project creator.
star_count	Integer	Definition: Number of forks. Value range: 1~2147483647
tag_list	Array of strings	Definition: Tag list.
http_url_to_repo	String	Definition: HTTP URL of the repository. Value range: 1 to 1,000 characters.
ssh_url_to_repo	String	Definition: SSH URL of the repository. Value range: 1 to 1,000 characters.
status	Integer	Definition: Status. Value range: 1~2147483647
active_statistic	Array of integers	Definition: Active user statistics. Value range: 1~2147483647
security_tag	String	Definition: Security tag. Value range: 1 to 1,000 characters.

Table 4-670 ProjectCreatorDto

Parameter	Type	Description
id	Integer	Definition: Unique ID. Value range: 1~2147483647
name	String	Definition: Name. Value range: 1 to 1,000 characters.
username	String	Definition: iam_id. Value range: 1 to 1,000 characters.

Status code: 401**Table 4-671** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-672** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/subgroups-and-repositories?offset=0&limit=20
```


Example Responses

Status code: 200

Obtain the list of repository groups and repositories in a project.

```
[ {
  "project_id" : "c65b44ca43b04961860e728cb91acfc6",
  "project_name" : "Null: Project name",
  "role_namecn" : "Project administrator",
  "role_nameen" : "project_admin",
  "full_name" : "p_group3",
  "full_path" : "p_group3",
  "created_at" : "2025-06-03T22:45:31.000+08:00",
  "updated_at_timestamp" : 1748904331000,
  "star_time" : 1749955042000,
  "starred" : false,
  "develop_mode" : "normal",
  "id" : 2111919928,
  "name" : "p_group3",
  "path" : "p_group3",
  "group_level" : 1,
  "description" : null,
  "subgroup_count" : 1,
  "project_count" : 0,
  "group_role" : 50,
  "group_members_count" : 2,
  "descendant_type" : "Group",
  "visibility_level" : 0,
  "visibility" : "private",
  "is_project_admin" : 1,
  "is_group_creator" : 1,
  "is_repo_creator" : 0,
  "role_show_flag" : 6
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the list of repository groups and repositories in a project.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.5.4 Obtaining Roles and Permissions Corresponding to Resource Points

Function

This API is used to obtain roles and permissions corresponding to resource points.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/permissions-resources/{resource_id}

Table 4-673 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
resource_id	Yes	Integer	Definition Resource ID, which is the ID in the data obtained from the API for obtaining the repository group permission resource point list. Value range: 1~2147483647

Table 4-674 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-675 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-676 Response body parameters

Parameter	Type	Description
[items]	Array of PermissionDto objects	Definition Resource permission list.

Table 4-677 PermissionDto

Parameter	Type	Description
order	Integer	Definition Order ID. Value range: 1~2147483647
role_id	String	Definition Role ID. Range 1–1,000 characters.
role_name	String	Definition Role name. Range 1–1,000 characters.
role_name_cn	String	Definition Role name in Chinese. Range 1–1,000 characters.
resource_permissions	PermissionMap object	Definition Resource permission mapping.

Table 4-678 PermissionMap

Parameter	Type	Description
{User defined key}	Map<String, ResourcePermissionDto >	Definition Resource permission object.

Table 4-679 ResourcePermissionDto

Parameter	Type	Description
permission_id	Integer	Definition Record ID. Value range: 1~2147483647
action	String	Definition Operation. Range 1–1,000 characters.
display_name	String	Definition Operation name. Range 1–1,000 characters.
display_name_cn	String	Definition Operation name in Chinese. Range 1–1,000 characters.
enabled	Boolean	Definition Whether to enable.
editable	Boolean	Definition Whether to edit.

Status code: 401**Table 4-680** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-681 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/{group_id}/permissions-resources/{resource_id}?offset=0&limit=20

Example Responses

Status code: 200

Obtain roles and permissions corresponding to resource points.

```
[ {
  "order" : 1,
  "role_id" : "d4b6fd9af7e34b168de2fef683058f13",
  "role_name" : "Project manager",
  "role_name_cn" : "Project manager",
  "resource_permissions" : {
    "fork" : {
      "permission_id" : 2,
      "action" : "fork",
      "display_name" : "fork",
      "display_name_cn" : "fork",
      "enabled" : true,
      "editable" : true
    },
    "create" : {
      "permission_id" : 1,
      "action" : "create",
      "display_name" : "create",
      "display_name_cn" : "Create",
      "enabled" : true,
      "editable" : true
    },
    "delete" : {
      "permission_id" : 3,
      "action" : "delete",
      "display_name" : "delete",
      "display_name_cn" : "Delete",
      "enabled" : true,
      "editable" : true
    },
    "setting" : {
      "permission_id" : 30,
      "action" : "setting",
      "display_name" : "setting",
      "display_name_cn" : "Setting",
      "enabled" : true,
      "editable" : true
    }
  }
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain roles and permissions corresponding to resource points.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.5.5 Obtaining Project Inheritance Settings

Function

This API is used to obtain project inheritance settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/settings-inherit-cfg

Table 4-682 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-683 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-684 Response body parameters

Parameter	Type	Description
[items]	Array of ProjectSettingsInheritCfgDto objects	Project inheritance settings list

Table 4-685 ProjectSettingsInheritCfgDto

Parameter	Type	Description
name	String	Definition: Source type Constraints: N/A Value range: - protected_branches: Protected branch settings - protected_tags: Protected tag settings - repository_settings: Repository settings - push_rules: Commit rule settings - merge_requests: Merge request settings - e2e_settings: E2E settings - watermark: Watermark settings - webhook_settings: Webhook settings - mr_branch_policies: Merge branch policy settings - reviews: review settings - deploy_keys: deployment parameter settings Default value: N/A Enumeration values: protected_branches protected_tags repository_settings push_rules merge_requests e2e_settings watermark webhook_settings mr_branch_policies reviews deploy_keys

Parameter	Type	Description
inherit_mod	String	Definition: Inheritance settings Constraints: N/A Value range: - force_inherit: force inherit configuration - custom: use current configuration Default value: N/A Enumeration values: force_inherit custom

Status code: 401**Table 4-686** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-687** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-688 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/3132f98fb2c44430ba68f356af3a8e0d/settings-inherit-cfg
```

Example Responses

Status code: 200

Get Project Inheritance Settings

```
[ {
  "name" : "protected_branches",
  "inherit_mod" : "custom"
}, {
  "name" : "protected_tags",
  "inherit_mod" : "custom"
}, {
  "name" : "repository_settings",
  "inherit_mod" : "inherit"
}, {
  "name" : "push_rules",
  "inherit_mod" : "inherit"
}, {
  "name" : "merge_requests",
  "inherit_mod" : "inherit"
}, {
  "name" : "e2e_settings",
  "inherit_mod" : "inherit"
}, {
  "name" : "watermark",
  "inherit_mod" : "inherit"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Group Not Found. Group Not Found"
}
```

Status Codes

Status Code	Description
200	Get Project Inheritance Settings
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.5.6 Updating Project Inheritance Settings

Function

This API is used to update inherited project settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/projects/{project_id}/settings-inherit-cfg

Table 4-689 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-690 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-691 Request body parameters

Parameter	Mandatory	Type	Description
data	No	Array of ProjectSettingsInheritCfgDto objects	Definition: Inheritance settings Constraints: N/A Value range: N/A Default value: N/A

Table 4-692 ProjectSettingsInheritCfgDto

Parameter	Mandatory	Type	Description
name	No	String	Definition: Source type Constraints: N/A Value range: - protected_branches: Protected branch settings - protected_tags: Protected tag settings - repository_settings: Repository settings - push_rules: Commit rule settings - merge_requests: Merge request settings - e2e_settings: E2E settings - watermark: Watermark settings - webhook_settings: Webhook settings - mr_branch_policies: Merge branch policy settings - reviews: review settings - deploy_keys: deployment parameter settings Default value: N/A Enumeration values: protected_branches protected_tags repository_settings push_rules merge_requests e2e_settings watermark webhook_settings mr_branch_policies reviews deploy_keys

Parameter	Mandatory	Type	Description
inherit_mod	No	String	Definition: Inheritance settings Constraints: N/A Value range: - force_inherit: force inherit configuration - custom: use current configuration Default value: N/A Enumeration values: force_inherit custom

Response Parameters

Status code: 200

Table 4-693 Response body parameters

Parameter	Type	Description
[items]	Array of ProjectSettingsInheritCfgDto objects	Inherited project settings list

Table 4-694 ProjectSettingsInheritCfgDto

Parameter	Type	Description
name	String	Definition: Source type Constraints: N/A Value range: - protected_branches: Protected branch settings - protected_tags: Protected tag settings - repository_settings: Repository settings - push_rules: Commit rule settings - merge_requests: Merge request settings - e2e_settings: E2E settings - watermark: Watermark settings - webhook_settings: Webhook settings - mr_branch_policies: Merge branch policy settings - reviews: review settings - deploy_keys: deployment parameter settings Default value: N/A Enumeration values: - protected_branches - protected_tags - repository_settings - push_rules - merge_requests - e2e_settings - watermark - webhook_settings - mr_branch_policies - reviews - deploy_keys

Parameter	Type	Description
inherit_mod	String	Definition: Inheritance settings Constraints: N/A Value range: - force_inherit: force inherit configuration - custom: use current configuration Default value: N/A Enumeration values: force_inherit custom

Example Requests

Update inherited project settings.

PUT https://{endpoint}/v4/projects/3132f98fb2c44430ba68f356af3a8e0d/settings-inherit-cfg

```
{
  "data" : [ {
    "name" : "protected_branches",
    "inherit_mod" : "inherit"
  }, {
    "name" : "protected_tags",
    "inherit_mod" : "inherit"
  }, {
    "name" : "repository_settings",
    "inherit_mod" : "inherit"
  }, {
    "name" : "push_rules",
    "inherit_mod" : "inherit"
  }, {
    "name" : "merge_requests",
    "inherit_mod" : "inherit"
  }, {
    "name" : "e2e_settings",
    "inherit_mod" : "inherit"
  }, {
    "name" : "watermark",
    "inherit_mod" : "inherit"
  } ]
}
```

Example Responses

Status code: 200

Inherited project settings list

```
[ {
  "name" : "protected_branches",
  "inherit_mod" : "custom"
}
```

```
}, {  
  "name" : "protected_tags",  
  "inherit_mod" : "custom"  
}, {  
  "name" : "repository_settings",  
  "inherit_mod" : "inherit"  
}, {  
  "name" : "push_rules",  
  "inherit_mod" : "inherit"  
}, {  
  "name" : "merge_requests",  
  "inherit_mod" : "inherit"  
}, {  
  "name" : "e2e_settings",  
  "inherit_mod" : "inherit"  
}, {  
  "name" : "watermark",  
  "inherit_mod" : "inherit"  
}]
```

Status Codes

Status Code	Description
200	Inherited project settings list

Error Codes

See [Error Codes](#).

4.1.5.7 Obtaining Project Member Settings

Function

This API is used to obtain project member settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/member-setting

Table 4-695 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-696 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-697 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-698** Response body parameters

Parameter	Type	Description
product_id	String	Definition: Project ID Value range: 1–1,000 characters.
sync_enabled	Boolean	Definition: Synchronization switch
sync_all_role_enabled	Boolean	Definition: Switch for synchronizing all roles
role_sync	Array of RoleSyncDto objects	Definition: Role synchronization

Table 4-699 RoleSyncDto

Parameter	Type	Description
id	Integer	Definition Role record ID. Value range: 1~2147483647
role_id	String	Definition Role ID. Range 1–1,000 characters.
role_sync_enabled	Boolean	Definition Role synchronization switch.
role_name	String	Definition Role name. Range 1–1,000 characters.
role_type	String	Definition Role type. Range 1–1,000 characters.
role_chinese_name	String	Definition Role name in Chinese. Range 1–1,000 characters.
created_at	String	Definition Creation time. Range 1–1,000 characters.
updated_at	String	Definition Update time. Range 1–1,000 characters.

Status code: 401

Table 4-700 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-701** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-702** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/member-setting?offset=1&limit=20
```

Example Responses

Status code: 200

Obtain project member settings.

```
{
  "product_id" : "66d26441a9a24158af9db7603f1e0937",
  "sync_enabled" : true,
  "role_sync" : [ {
    "id" : 11588179,
    "role_id" : "d4b6fd9af7e34b168de2fef683058f13",
```

```
{
  "role_sync_enabled" : true,
  "role_name" : "Project manager",
  "role_type" : "template-customized-inst",
  "role_chinese_name" : "Project manager",
  "created_at" : 1745289920273,
  "updated_at" : 1745289920273
}, {
  "id" : 11588178,
  "role_id" : "f7b9f99aa0d94dc595aef01d2ed661a9",
  "role_sync_enabled" : false,
  "role_name" : "Product manager",
  "role_type" : "template-customized-inst",
  "role_chinese_name" : "Product manager",
  "created_at" : 1745289920268,
  "updated_at" : 1745289920268
}]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Group Not Found. Group Not Found"
}
```

Status Codes

Status Code	Description
200	Obtain project member settings.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.5.8 Obtaining Basic Settings of a Specified Project

Function

This API is used to obtain basic settings of a specified project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/policies/general

Table 4-703 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-704 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-705 Response body parameters

Parameter	Type	Description
disable_fork	Boolean	Definition Whether to disable fork.
forbidden_developer_create_branch	Boolean	Definition Whether to forbid developers to create branches.
forbidden_developer_create_tag	Boolean	Definition Whether to forbid developers to create tags.
forbidden_committer_create_branch	Boolean	Definition Developers are not allowed to create tags.
branch_name_regex	String	Definition Regular expression of the branch name. Range 1–1,000 characters.
tag_name_regex	String	Definition Regular expression of the tag name. Range 1–1,000 characters.
generate_pre_merge_ref	Boolean	Definition Generate a merge request for pre-merging.
forbidden_gitlab_access	Boolean	Definition Whether to forbid repo access.
rebase_disable_trigger_webhook	Boolean	Definition Whether to forbid the MR rebase to trigger the webhook event.
open_gpg_verified	Boolean	Definition Whether to enable GPG public key authentication.

Status code: 401

Table 4-706 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-707** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-708** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/policies/general
```

Example Responses

Status code: 200

Obtain basic settings of a specified project.

```
{
  "disable_fork" : false,
  "forbidden_developer_create_branch" : false,
  "forbidden_developer_create_tag" : false,
  "forbidden_committer_create_branch" : null,
  "branch_name_regex" : null,
```

```
"tag_name_regex" : null,  
"generate_pre_merge_ref" : false,  
"forbidden_gitlab_access" : null,  
"rebase_disable_trigger_webhook" : null,  
"open_gpg_verified" : null  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.004404",  
  "error_msg" : "Project Not Found. Project Not Found"  
}
```

Status Codes

Status Code	Description
200	Obtain basic settings of a specified project.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.5.9 Updating Basic Settings of a Project

Function

This API is used to update basic project settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/projects/{project_id}/general-policy

Table 4-709 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-710 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-711 Request body parameters

Parameter	Mandatory	Type	Description
disable_fork	No	Boolean	Definition: Whether to disable fork.
branch_name_regex	No	String	Definition: Regular expression of the branch name Value range: 1–1,000 characters.
tag_name_regex	No	String	Definition: Regular expression of the tag name Value range: 1–1,000 characters.
generate_pre_merge_ref	No	Boolean	Definition: Generate a merge request for pre-merging

Response Parameters

Status code: 200

Table 4-712 Response body parameters

Parameter	Type	Description
disable_fork	Boolean	Definition: Whether to disable fork.
branch_name_regex	String	Definition: Regular expression of the branch name Value range: 1–1,000 characters.
tag_name_regex	String	Definition: Regular expression of the tag name Value range: 1–1,000 characters.
generate_pre_merge_ref	Boolean	Definition: Generate a merge request for pre-merging

Example Requests

Update basic project settings

```
PUT https://{endpoint}/v4/projects/3132f98fb2c44430ba68f356af3a8e0d/general-policy
{
  "disable_fork" : false,
  "branch_name_regex" : null,
  "tag_name_regex" : null,
  "generate_pre_merge_ref" : false
}
```

Example Responses

Status code: 200

Basic settings of a project

```
{
  "disable_fork" : false,
  "branch_name_regex" : null,
  "tag_name_regex" : null,
  "generate_pre_merge_ref" : false
}
```

Status Codes

Status Code	Description
200	Basic settings of a project

Error Codes

See [Error Codes](#).

4.1.5.10 Obtaining the Basic Settings of a Specified Project

Function

This API is used to obtain basic settings of a specified project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/general-policy

Table 4-713 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-714 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-715 Response body parameters

Parameter	Type	Description
disable_fork	Boolean	Definition Whether to disable fork.
forbidden_developer_create_branch	Boolean	Definition Whether to forbid developers to create branches.

Parameter	Type	Description
forbidden_developer_create_tag	Boolean	Definition Whether to forbid developers to create tags.
forbidden_committer_create_branch	Boolean	Definition Developers are not allowed to create tags.
branch_name_regex	String	Definition Regular expression of the branch name. Range 1–1,000 characters.
tag_name_regex	String	Definition Regular expression of the tag name. Range 1–1,000 characters.
generate_pre_merge_ref	Boolean	Definition Generate a merge request for pre-merging.
forbidden_gitlab_access	Boolean	Definition Whether to forbid repo access.
rebase_disable_trigger_webhook	Boolean	Definition Whether to forbid the MR rebase to trigger the webhook event.
open_gpg_verified	Boolean	Definition Whether to enable GPG public key authentication.

Status code: 401**Table 4-716** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-717** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-718** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/general-policy
```

Example Responses

Status code: 200

Obtain basic settings of a specified project.

```
{
  "disable_fork" : false,
  "forbidden_developer_create_branch" : false,
  "forbidden_developer_create_tag" : false,
  "forbidden_committer_create_branch" : null,
  "branch_name_regex" : null,
  "tag_name_regex" : null,
  "generate_pre_merge_ref" : false,
  "forbidden_gitlab_access" : null,
  "rebase_disable_trigger_webhook" : null,
  "open_gpg_verified" : null
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Project Not Found. Project Not Found"
}
```

Status Codes

Status Code	Description
200	Obtain basic settings of a specified project.
401	Unauthorized
403	Bad Request
404	Not Found

Error CodesSee [Error Codes](#).**4.1.5.11 Obtaining Commit Information Associated with a Work Item****Function**

Commit information associated with a work item

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/items/{item_id}/commits

Table 4-719 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
item_id	Yes	String	Definition: Work item ID Constraints: N/A Value range: 1 to 128 characters.

Table 4-720 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Definition: Commit type associated with a work item Constraints: N/A Value range: • commit: commit • branch: branch • mergerequest: merge request Default value: commit Enumeration values: • commit • branch • mergerequest

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-721 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-722 Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request

Table 4-723 Response body parameters

Parameter	Type	Description
[items]	Array of ItemCommitDto objects	Commit information associated with a work item

Table 4-724 ItemCommitDto

Parameter	Type	Description
id	Integer	Definition: Association ID Value range: N/A Value range: 0~2147483647
title	String	Definition: Merge request title Value range: N/A
result	Integer	Definition: Repository status Value range: • 1: association succeeded • 2: association failed • 3: transfer succeeded Value range: 0~10

Parameter	Type	Description
type	String	Definition: Associated commit type Value range: • commit: commit • branch: branch • mergerequest: merge request
message	String	Definition: Cause of the association failure Value range: N/A
item_id	String	Definition: Work item ID Value range: N/A
repository_id	String	Definition: Repository ID Value range: N/A
branch_name	String	Definition: Branch name Value range: N/A
user_name	String	Definition: Username Value range: N/A
commit_id	String	Definition: Commit ID Value range: N/A
commit_short_id	String	Definition: Short commit ID Value range: N/A

Parameter	Type	Description
commit_msg	String	Definition: Commit message Value range: N/A
commit_url	String	Definition: Commit access address Value range: N/A
iam_id	String	Definition: iamId. Value range: N/A
create_at	String	Definition: Creation time Value range: N/A
update_at	String	Definition: Update time Value range: N/A
item_url	String	Definition: Work item access address Value range: N/A

Status code: 401**Table 4-725** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-726 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/936c6b54d29446958a7e668d04eceaac/items/9261401/commits
```

Example Responses

Status code: 200

OK

```
[ {
  "id" : 2111625445,
  "title" : null,
  "result" : 3,
  "type" : "commit",
  "message" : null,
  "iam_id" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "repository_id" : "2111984490",
  "branch_name" : "dev1",
  "user_name" : "CodeHub_beta_dev",
  "commit_id" : "9052a9accb4b2838daefeda790bda8c871ee3551",
  "commit_short_id" : "9052a9ac",
  "commit_msg" : "Update README.md fix #9261401 dev123",
  "commit_url" : "https://example.com/codehub/
2111984490/9052a9accb4b2838daefeda790bda8c871ee3551/commitdetail",
  "item_id" : "9261401",
  "create_at" : "2025-09-17T07:58:59.000+00:00",
  "update_at" : "null,",
  "item_url" : "https://example.com/projectman/scrum/936c6b54d29446958a7e668d04eceaac/task/detail/
9261401"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "DEV-23-50804",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```


Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.6 ThirdParty

4.1.6.1 Verifying Whether the Deploy Key Is Configured in the Upper-Layer Repository Group or Project

Function

This API is used to verify whether a deploy key is configured in the upper-layer repository group or project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/deploy-keys/check-key

Table 4-727 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-728 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-729 Request body parameters

Parameter	Mandatory	Type	Description
key	No	String	Definition Key value to be checked. Range 1–5,000 characters.

Response Parameters

Status code: 200

Table 4-730 Response body parameters

Parameter	Type	Description
exists	Boolean	Definition: Whether the deploy key is configured in the upper-layer repository group or project. Value range: • true: configured in the upper-layer repository group or project. • false: not configured in the upper-layer repository group or project.

Status code: 401**Table 4-731** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-732** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-733 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/repositories/1/deploy-keys/check-key
```

```
{
  "key" : "ssh-rsa AAAAB3Nza*****gdcdvS8= zhangsan@DESKTOP-12MP13A"
}
```

Example Responses

Status code: 200

OK

```
{
  "exists" : false
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.6.2 Checking Whether the Deploy Key of the Repository Group Is Configured in the Upper-Layer Repository Group or Project

Function

This API is used to check whether the deployment key of a repository group is configured in the upper-layer repository group or project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/groups/{group_id}/deploy-keys/check-key

Table 4-734 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-735 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-736 Request body parameters

Parameter	Mandatory	Type	Description
key	No	String	Definition Key value to be checked. Range 1–5,000 characters.

Response Parameters

Status code: 200

Table 4-737 Response body parameters

Parameter	Type	Description
exists	Boolean	Definition: Whether the deploy key is configured in the upper-layer repository group or project. Value range: • true: configured in the upper-layer repository group or project. • false: not configured in the upper-layer repository group or project.

Status code: 401**Table 4-738** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-739** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-740 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/groups/1/deploy-keys/check-key
{
  "key" : "ssh-rsa AAAAB3Nza*****gdcdvS8= zhangsan@DESKTOP-12MP13A"
}
```

Example Responses

Status code: 200

OK

```
{
  "exists" : false
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```


Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.6.3 Obtaining the List of Deployment Keys in a Repository

Function

This API is used to obtain the list of deployment keys in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/deploy-keys

Table 4-741 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-742 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-743 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-744 Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of results of the current request.

Table 4-745 Response body parameters

Parameter	Type	Description
[items]	Array of DeployKeyDto objects	Definition: Deployment key list.

Table 4-746 DeployKeyDto

Parameter	Type	Description
id	Integer	Definition: Deployment key ID. Value range: 1~2147483647
title	String	Definition: Deployment key title.
fingerprint	String	Definition: Deployment key fingerprint.
created_at	String	Definition: Creation time.

Status code: 401**Table 4-747** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-748 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/1/deploy-keys

Example Responses

Status code: 200

OK

```
[ {  
  "id" : 1,  
  "title" : "demo",  
  "fingerprint" : "16:e4:e2:16:6d:38:dd:29:8e:48:6b:07:09:cf:37:fd",  
  "created_at" : "2025-06-14T20:30:10.000+08:00"  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.6.4 Obtaining the Deployment Key List of a Repository Group

Function

This API is used to obtain the deployment key list of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/deploy-keys

Table 4-749 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-750 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-751 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-752 Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of results of the current request.

Table 4-753 Response body parameters

Parameter	Type	Description
[items]	Array of DeployKeyDto objects	Definition: Deployment key object.

Table 4-754 DeployKeyDto

Parameter	Type	Description
id	Integer	Definition: Deployment key ID. Value range: 1~2147483647
title	String	Definition: Deployment key title.
fingerprint	String	Definition: Deployment key fingerprint.
created_at	String	Definition: Creation time.

Status code: 401**Table 4-755** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-756** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/1/deploy-keys
```

Example Responses

Status code: 200

OK

```
[ {  
  "id" : 1,  
  "title" : "demo",  
  "fingerprint" : "16:e4:e2:16:6d:38:dd:29:8e:48:6b:07:09:cf:37:fd",  
  "created_at" : "2025-06-14T20:30:10.000+08:00"  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.6.5 Obtaining the Deployment Key List of a Project

Function

This API is used to obtain the deployment key list of a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/deploy-keys

Table 4-757 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-758 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-759 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-760** Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of results of the current request.

Table 4-761 Response body parameters

Parameter	Type	Description
[items]	Array of DeployKeyDto objects	Definition: Deployment key object.

Table 4-762 DeployKeyDto

Parameter	Type	Description
id	Integer	Definition: Deployment key ID. Value range: 1~2147483647
title	String	Definition: Deployment key title.
fingerprint	String	Definition: Deployment key fingerprint.
created_at	String	Definition: Creation time.

Status code: 401**Table 4-763** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-764** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/deploy-keys
```

Example Responses

Status code: 200

OK

```
[ {
  "id" : 1,
  "title" : "demo",
  "fingerprint" : "16:e4:e2:16:6d:38:dd:29:8e:48:6b:07:09:cf:37:fd",
  "created_at" : "2025-06-14T20:30:10.000+08:00"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.6.6 Obtaining the List of Associated Work Items of a Specified Branch in a Repository

Function

This API is used to obtain the list of associated work items of a specified branch in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/branch/work-items

Table 4-765 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-766 Query Parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Definition: Branch name. Constraints: Do not start with hyphen (-), period (.) refs, heads, refs, or remotes. Do not end with . / .lock. Spaces and the following characters are not supported: [\ < ~ ^ : ? * ! () ' " Value range: 1 to 200 characters. Default value: N/A.

Request Parameters

Table 4-767 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-768 Response body parameters

Parameter	Type	Description
[items]	Array of WorkItemSimpleDto objects	Definition: Basic information about the associated work item.

Table 4-769 WorkItemSimpleDto

Parameter	Type	Description
related_id	String	Definition: Work item ID.
related_url	String	Definition: Work item address.

Status code: 401

Table 4-770 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-771** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/1/branch/work-items?branch_name=master
```

Example Responses

Status code: 200

OK

```
[ {  
  "related_id" : 664135687,  
  "related_url" : "http://demo.com"  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.6.7 Obtaining the Work Item List in a Repository

Function

This API is used to obtain the list of work items in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/work-items

Table 4-772 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-773 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
is_ipd	Yes	Boolean	Definition: Whether the work item is of the IPD project type. Value range: true or false
subject	No	String	Definition: Keyword for searching work item titles. Value range: 1 to 200 characters.

Parameter	Mandatory	Type	Description
target_branch	No	String	Definition: Target branch of a merge request. If you want to obtain the list of work items that can be associated with a merge request, this field is required. Constraints: Do not start with hyphen (-), period (.) refs, heads, refs, or remotes. Do not end with . / .lock. Spaces and the following characters are not supported: [\ < ~ ^ : ? * ! () ' " Value range: 1 to 200 characters. Default value: N/A.

Request Parameters

Table 4-774 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-775 Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of results of the current request.

Table 4-776 Response body parameters

Parameter	Type	Description
[items]	Array of ReqWorkItemDto objects	Definition: Work item data.

Table 4-777 ReqWorkItemDto

Parameter	Type	Description
id	String	Definition: Work item ID.
subject	String	Definition: Work item title.
sequence	String	Definition: Work item ID. This parameter is left empty for Scrum projects.
tracker	ReqWorkItemBasicDto object	Definition: Work item type.
status	ReqWorkItemBasicDto object	Definition: Work item status.
priority	ReqWorkItemBasicDto object	Definition: Work item priority.

Table 4-778 ReqWorkItemBasicDto

Parameter	Type	Description
id	String	Definition: Property ID.

Parameter	Type	Description
name	String	Definition: Attribute name.

Status code: 401**Table 4-779** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-780** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/1/work-items?  
project_id=ac90e21856c04707a041fbe2a9a020dc&is_ipd=false&offset=0&limit=10
```

Example Responses

Status code: 200

OK

```
[ {  
  "id" : "1096177668293902337",  
  "subject" : "2",  
  "sequence" : "IR20250211809298",  
  "tracker" : {  
    "id" : "7",  
    "name" : "Story"  
  },  
  "status" : {  
    "id" : "1",  
    "name" : "New."  
  }  
}
```

```
},  
"priority": {  
  "id": "2",  
  "name": "Medium."  
}  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code": "DEV.00000003",  
  "error_msg": "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code": "CH.004403",  
  "error_msg": "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.6.8 Obtaining E2E Settings in a Repository

Function

This API is used to obtain E2E settings in a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/e2e-setting

Table 4-781 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-782 Query Parameters

Parameter	Mandatory	Type	Description
take_effect	No	Boolean	Definition: Whether to query the effective E2E settings. Value range: true: yes, for example, the E2E configuration inherited from the repository group or project; false: no.

Request Parameters

Table 4-783 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-784** Response body parameters

Parameter	Type	Description
e2e_policies	E2ePolicyDto object	Definition: E2E common settings
req	ReqSettingDto object	Definition: CodeArts Req settings that can be integrated.
link	LinkSettingDto object	Definition: Link settings that can be integrated.

Table 4-785 E2ePolicyDto

Parameter	Type	Description
auto_extract	Boolean	Definition: Whether to enable automatic extraction of IDs. Value range: true: yes; false: no
prefix_symbol	String	Definition: Set of ID prefixes for automatic extraction separated by commas (,) Value range: A prefix can contain a maximum of 200 characters. A maximum of 10 prefixes can be configured.
separator	String	Definition: Separator for automatic extraction
suffix_symbol	String	Definition: ID suffix of automatic extraction

Table 4-786 ReqSettingDto

Parameter	Type	Description
active	Boolean	Definition: Whether to enable integration with CodeArts Req. Value range: true: yes; false: no
branches	String	Definition: Enable branch list that can be excluded and associated with specified categories. The branch refers to the target branch of the merge request. Multiple branches can be separated by commas (,) or regular expressions. Only regular expressions can be configured at the project and repository group levels.

Parameter	Type	Description
branches_type	String	Definition: Branch type, which can be text or regular expression. Value range: plain: text; regex: regular expression Enumeration values: • plain • regex
project_type	String	Definition: Type of the associated CodeArts Req project Value range: scrum: Scrum project; ipd: IPD project; xboard: Kanban project Enumeration values: • scrum • ipd • xboard
categories	String	Definition: List of association types, separated by commas (,)
category_codes	String	Definition: List of associable type codes, which are separated by commas (,)
exclude_statuses	String	Definition: List of excluded states, separated by commas (,)
exclude_status_codes	String	Definition: List of excluded state codes, separated by commas (,)

Table 4-787 LinkSettingDto

Parameter	Type	Description
active	Boolean	Definition: Whether to enable the integration with Link. Value range: true: yes; false: no
url	String	Definition: Interconnection address of the Link service
app_auth_type	String	Definition: AK/SK for interconnecting with Link. ak_sk: AK and SK are used for authentication. Enumeration values: • ak_sk
app_ak	String	Definition: AK for interconnecting with Link
app_sk	String	Definition: SK for interconnecting with Link. If the SK has been configured, the mask in the format of ***** is returned.
categories	String	Definition: List of association types, separated by commas (,).
exclude_statuses	String	Definition: List of excluded states, separated by commas (,).

Status code: 401**Table 4-788** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-789 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/1/e2e-setting

Example Responses

Status code: 200

OK

```
{
  "e2e_policies" : {
    "auto_extract" : true,
    "prefix_symbol" : "TicketNo",
    "separator" : ";",
    "suffix_symbol" : "\\\\n"
  },
  "req" : {
    "active" : true,
    "branches" : "dev",
    "branches_type" : "plain",
    "categories" : "Epic,Story",
    "category_codes" : "5,7",
    "exclude_statuses" : "New, resolved",
    "exclude_status_codes" : "1,3",
    "project_type" : "scrum"
  },
  "link" : {
    "active" : true,
    "url" : "https://demo.com",
    "app_auth_type" : "ak_sk",
    "app_ak" : "testak",
    "app_sk" : "*****",
    "categories" : "IR",
    "exclude_statuses" : "New"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.6.9 Obtaining E2E Settings in a Repository Group

Function

This API is used to obtain E2E settings in a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/e2e-setting

Table 4-790 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-791 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-792** Response body parameters

Parameter	Type	Description
e2e_policies	E2ePolicyDto object	Definition: E2E common settings
req	ReqSettingDto object	Definition: CodeArts Req settings that can be integrated.
link	LinkSettingDto object	Definition: Link settings that can be integrated.

Table 4-793 E2ePolicyDto

Parameter	Type	Description
auto_extract	Boolean	Definition: Whether to enable automatic extraction of IDs. Value range: true: yes; false: no
prefix_symbol	String	Definition: Set of ID prefixes for automatic extraction separated by commas (,) Value range: A prefix can contain a maximum of 200 characters. A maximum of 10 prefixes can be configured.
separator	String	Definition: Separator for automatic extraction
suffix_symbol	String	Definition: ID suffix of automatic extraction

Table 4-794 ReqSettingDto

Parameter	Type	Description
active	Boolean	Definition: Whether to enable integration with CodeArts Req. Value range: true: yes; false: no
branches	String	Definition: Enable branch list that can be excluded and associated with specified categories. The branch refers to the target branch of the merge request. Multiple branches can be separated by commas (,) or regular expressions. Only regular expressions can be configured at the project and repository group levels.

Parameter	Type	Description
branches_type	String	Definition: Branch type, which can be text or regular expression. Value range: plain: text; regex: regular expression Enumeration values: • plain • regex
project_type	String	Definition: Type of the associated CodeArts Req project Value range: scrum: Scrum project; ipd: IPD project; xboard: Kanban project Enumeration values: • scrum • ipd • xboard
categories	String	Definition: List of association types, separated by commas (,)
category_codes	String	Definition: List of associable type codes, which are separated by commas (,)
exclude_statuses	String	Definition: List of excluded states, separated by commas (,)
exclude_status_codes	String	Definition: List of excluded state codes, separated by commas (,)

Table 4-795 LinkSettingDto

Parameter	Type	Description
active	Boolean	Definition: Whether to enable the integration with Link. Value range: true: yes; false: no
url	String	Definition: Interconnection address of the Link service
app_auth_type	String	Definition: AK/SK for interconnecting with Link. ak_sk: AK and SK are used for authentication. Enumeration values: • ak_sk
app_ak	String	Definition: AK for interconnecting with Link
app_sk	String	Definition: SK for interconnecting with Link. If the SK has been configured, the mask in the format of ***** is returned.
categories	String	Definition: List of association types, separated by commas (,).
exclude_statuses	String	Definition: List of excluded states, separated by commas (,).

Status code: 401**Table 4-796** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-797 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/1/e2e-setting

Example Responses

Status code: 200

OK

```
{
  "e2e_policies" : {
    "auto_extract" : true,
    "prefix_symbol" : "TicketNo",
    "separator" : ";",
    "suffix_symbol" : "\\\\n"
  },
  "req" : {
    "active" : true,
    "branches" : "dev",
    "branches_type" : "plain",
    "categories" : "Epic,Story",
    "category_codes" : "5,7",
    "exclude_statuses" : "New, resolved",
    "exclude_status_codes" : "1,3",
    "project_type" : "scrum"
  },
  "link" : {
    "active" : true,
    "url" : "https://demo.com",
    "app_auth_type" : "ak_sk",
    "app_ak" : "testak",
    "app_sk" : "*****",
    "categories" : "IR",
    "exclude_statuses" : "New"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.6.10 Obtaining E2E Settings of a Project

Function

This API is used to obtain the E2E settings of a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/e2e-setting

Table 4-798 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-799 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-800** Response body parameters

Parameter	Type	Description
e2e_policies	E2ePolicyDto object	Definition: E2E common settings
req	ReqSettingDto object	Definition: CodeArts Req settings that can be integrated.
link	LinkSettingDto object	Definition: Link settings that can be integrated.

Table 4-801 E2ePolicyDto

Parameter	Type	Description
auto_extract	Boolean	Definition: Whether to enable automatic extraction of IDs. Value range: true: yes; false: no
prefix_symbol	String	Definition: Set of ID prefixes for automatic extraction separated by commas (,) Value range: A prefix can contain a maximum of 200 characters. A maximum of 10 prefixes can be configured.
separator	String	Definition: Separator for automatic extraction
suffix_symbol	String	Definition: ID suffix of automatic extraction

Table 4-802 ReqSettingDto

Parameter	Type	Description
active	Boolean	Definition: Whether to enable integration with CodeArts Req. Value range: true: yes; false: no
branches	String	Definition: Enable branch list that can be excluded and associated with specified categories. The branch refers to the target branch of the merge request. Multiple branches can be separated by commas (,) or regular expressions. Only regular expressions can be configured at the project and repository group levels.

Parameter	Type	Description
branches_type	String	Definition: Branch type, which can be text or regular expression. Value range: plain: text; regex: regular expression Enumeration values: • plain • regex
project_type	String	Definition: Type of the associated CodeArts Req project Value range: scrum: Scrum project; ipd: IPD project; xboard: Kanban project Enumeration values: • scrum • ipd • xboard
categories	String	Definition: List of association types, separated by commas (,)
category_codes	String	Definition: List of associable type codes, which are separated by commas (,)
exclude_statuses	String	Definition: List of excluded states, separated by commas (,)
exclude_status_codes	String	Definition: List of excluded state codes, separated by commas (,)

Table 4-803 LinkSettingDto

Parameter	Type	Description
active	Boolean	Definition: Whether to enable the integration with Link. Value range: true: yes; false: no
url	String	Definition: Interconnection address of the Link service
app_auth_type	String	Definition: AK/SK for interconnecting with Link. ak_sk: AK and SK are used for authentication. Enumeration values: • ak_sk
app_ak	String	Definition: AK for interconnecting with Link
app_sk	String	Definition: SK for interconnecting with Link. If the SK has been configured, the mask in the format of ***** is returned.
categories	String	Definition: List of association types, separated by commas (,).
exclude_statuses	String	Definition: List of excluded states, separated by commas (,).

Status code: 401**Table 4-804** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-805 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/e2e-setting

Example Responses

Status code: 200

OK

```
{
  "e2e_policies" : {
    "auto_extract" : true,
    "prefix_symbol" : "TicketNo",
    "separator" : ";",
    "suffix_symbol" : "\\n"
  },
  "req" : {
    "active" : true,
    "branches" : "dev",
    "branches_type" : "plain",
    "categories" : "Epic,Story",
    "category_codes" : "5,7",
    "exclude_statuses" : "New, resolved",
    "exclude_status_codes" : "1,3",
    "project_type" : "scrum"
  },
  "link" : {
    "active" : true,
    "url" : "https://demo.com",
    "app_auth_type" : "ak_sk",
    "app_ak" : "testak",
    "app_sk" : "*****",
    "categories" : "IR",
    "exclude_statuses" : "First release"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.7 Tenant

4.1.7.1 Obtaining the Tenant Repository List

Function

This API is used to query the list of all repositories that occupy resources under a tenant.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/tenant/repositories

Table 4-806 Query Parameters

Parameter	Mandatory	Type	Description
repository_name	No	String	Definition: Repository name Value range: 1 to 128 characters.

Parameter	Mandatory	Type	Description
member_number	No	Integer	Definition: Number of members Value range: 1~2147483647
status	No	Integer	Definition: Repository status Value range: 0: normal 3: frozen 4: closed 5: clearing 7: deleting Enumeration values: 0 3 4 5 7
owner	No	String	Definition: Repository owner Value range: 1 to 128 characters.
created_after	No	String	Definition: Filter the repositories created after this specified time.
created_before	No	String	Definition: Filter the repositories created before this specified time.

Parameter	Mandatory	Type	Description
sort	No	String	Definition: Sorting order of the result set Constraints: This parameter is used together with sort_field . Value range: • asc: The value is returned in ascending order. • desc: The value is returned in descending order. Default value: desc Enumeration values: • asc • desc
sort_field	No	String	Definition: Sorting field • owner: repository owner • capacity: used space • status: repository status • create_time: creation time • member_number: number of members • repository_name: repository name Default value: create_time Enumeration values: • owner • capacity • status • create_time • member_number • repository_name

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-807 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-808 Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request

Table 4-809 Response body parameters

Parameter	Type	Description
[items]	Array of TenantRepositoryDto objects	Repository list

Table 4-810 TenantRepositoryDto

Parameter	Type	Description
owner	String	Definition: Repository owner Value range: 1 to 128 characters.
capacity	Double	Definition: Repository capacity (MB, 2 decimal places) Value range: N/A Value range: 0~30720

Parameter	Type	Description
status	Integer	Definition: Repository status Value range: • 0: normal • 3: frozen • 4: closed • 5: clearing • 7: deleting Enumeration values: • 0 • 3 • 4 • 5 • 7
moderation_result	Boolean	Definition: Content approving result Value range: true: approved false: rejected
create_time	String	Definition: Creation time Value range: N/A
member_number	Integer	Definition: Number of members Value range: N/A Value range: 1~1000
repository_id	Integer	Definition: Repository ID Value range: N/A Value range: 1~2147483647

Parameter	Type	Description
repository_name	String	Definition: Repository name Value range: N/A
project_name	String	Definition: Project name Value range: N/A
project_id	String	Definition: Project ID Value range: N/A

Status code: 401**Table 4-811** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-812** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/tenant/repositories

Example Responses

Status code: 200

OK

```
[ {
  "owner" : "CodeHub_beta_test",
  "capacity" : 0.04,
  "status" : 0,
  "moderation_result" : true,
  "create_time" : "2025-09-23T16:05:39.000+08:00",
  "member_number" : 22,
  "repository_id" : 2112046425,
  "repository_name" : "ddddddddd",
  "project_name" : "lh_test",
  "project_id" : "c1f7364751e0406b8d9a46f492cba662"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "DEV-23-50804",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.7.2 Tenant repository list

Function

This API is used to query the list of all repositories that occupy resources under a tenant.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST <https://{hostURL}/v4/tenant/repositories/export>

Request Parameters

Table 4-813 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-814 Request body parameters

Parameter	Mandatory	Type	Description
repository_ids	No	Array of integers	Value range: 1~2147483647

Response Parameters

Status code: 200

OK

Status code: 401

Table 4-815 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-816** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/tenant/repositories/export
{
  "repository_ids" : [ 2112046489, 2112046488, 2112046487 ]
}
```

Example Responses**Status code: 401**

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "DEV-23-50804",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.7.3 Modifying the IP Address Whitelist of a Tenant

Function

This API is used to modify a tenant IP address whitelist.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/tenant/trusted-ip-addresses/{ip_id}

Table 4-817 Path Parameters

Parameter	Mandatory	Type	Description
ip_id	Yes	Integer	Definition IP address whitelist ID. Value range: 1~2147483647

Request Parameters

Table 4-818 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-819 Request body parameters

Parameter	Mandatory	Type	Description
ip_type	No	Integer	Definition Format type. • 0: indicates a specified IP address. • 1: indicates the IP address range. • 2: indicates CIDR. Default value: 0 Enumeration values: • 0 • 1 • 2
ip_start	No	String	Definition Start IP address.
ip_end	No	String	Definition End IP address.

Parameter	Mandatory	Type	Description
view_flag	No	Integer	Definition Whether to allow access to the repository. • 0: indicates that the access is forbidden. • 1: indicates that the access is allowed. Default value: 0 Enumeration values: • 0 • 1
download_flag	No	Integer	Definition Whether to allow code download. • 0: indicates that the download is forbidden. • 1: indicates that the download is allowed. Default value: 0 Enumeration values: • 0 • 1
upload_flag	No	Integer	Definition Whether to allow code commit. • 0: indicates that the commit is forbidden. • 1: indicates that the commit is allowed. Default value: 0 Enumeration values: • 0 • 1

Parameter	Mandatory	Type	Description
remark	No	String	Definition Remarks. Range Mandatory. Max. 200 characters.

Response Parameters

Status code: 200

Table 4-820 Response body parameters

Parameter	Type	Description
id	String	Definition IP address whitelist ID.
user_id	Integer	Definition User ID. Value range: 0~2147483647
domain_id	String	Definition Tenant ID.
ip_range	String	Definition IP address range.
ip_type	Integer	Definition Format type. • 0: indicates a specified IP address. • 1: indicates the IP address range. • 2: indicates CIDR. Default value: 0 Enumeration values: • 0 • 1 • 2
ip_start	String	Definition Start IP address.

Parameter	Type	Description
ip_end	String	Definition End IP address.
view_flag	Integer	Definition Whether to allow access to the repository. • 0: indicates that the access is forbidden. • 1: indicates that the access is allowed. Default value: 0 Enumeration values: • 0 • 1
download_flag	Integer	Definition Whether to allow code download. • 0: indicates that the download is forbidden. • 1: indicates that the download is allowed. Default value: 0 Enumeration values: • 0 • 1
upload_flag	Integer	Definition Whether to allow code commit. • 0: indicates that the commit is forbidden. • 1: indicates that the commit is allowed. Default value: 0 Enumeration values: • 0 • 1

Parameter	Type	Description
remark	String	Definition Remarks. Range Mandatory. Max. 200 characters.
created_at	String	Definition Creation time. Definition MMM dd, yyyy hh:mm:ss a
updated_at	String	Definition Update time. Definition MMM dd, yyyy hh:mm:ss a
order_flag	Integer	Definition Sorting. • 0: indicates the default rule. • 1: indicates the custom rule. Enumeration values: • 0 • 1

Status code: 401

Table 4-821 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/tenant/trusted-ip-addresses/1
{
  "ip_type" : 0,
  "ip_start" : "1.1.1.1",
  "ip_end" : "1.1.1.1",
  "view_flag" : 1,
  "download_flag" : 1,
  "upload_flag" : 1,
```

```
{  
  "remark" : "xxx office network"  
}
```

Example Responses

Status code: 200

OK

```
{  
  "id" : 19326,  
  "user_id" : 7574,  
  "ip_range" : "1.1.1.1",  
  "ip_start" : "1.1.1.1",  
  "ip_end" : "1.1.1.1",  
  "ip_type" : 0,  
  "view_flag" : 1,  
  "download_flag" : 1,  
  "upload_flag" : 1,  
  "order_flag" : 1,  
  "domain_id" : "159b65b41ead484d8ddff250a4731781",  
  "remark" : ""  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.8 Group

4.1.8.1 Obtaining the Repository Group List

Function

This API is used to obtain the list of repository groups.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/list

Table 4-822 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	Definition Search content. Default value: false
all_available	No	Boolean	Definition All available repository groups.
order_by	No	String	Definition: Sorting order. name: name. path: path. id: unique identifier. created_at: creation time. updated_at: update time. Default value: created_at Enumeration values: • name • path • id • created_at • updated_at
sort	No	String	Definition Sorting order. asc: ascending. desc: descending Default value: desc Enumeration values: • asc • desc

Parameter	Mandatory	Type	Description
starred	No	Boolean	Definition Favorited or not. Default value: false
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
owned	No	Boolean	Definition

Request Parameters

Table 4-823 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-824 Response body parameters

Parameter	Type	Description
[items]	Array of GroupBaseDto objects	Definition: Repository group list.

Table 4-825 GroupBaseDto

Parameter	Type	Description
project_id	String	Definition Project ID. Range 1–1,000 characters.
project_name	String	Definition Project name. Range 1–1,000 characters.
ancestor_ids	Array of integers	Definition Repository group ID. Value range: 1~2147483647
ancestor_names	Array of strings	Definition Repository group name.
develop_mode	String	Definition Development mode. Normal: CR. Range 1–1,000 characters.
id	Integer	Definition Record ID. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition Name. Range 1–1,000 characters.
path	String	Definition Path. Range 1–1,000 characters.
group_level	Integer	Definition Repository group level. Value range: 1~2147483647
description	String	Definition Description. Range 1–1,000 characters.
subgroup_count	Integer	Definition Number of child repository groups. Value range: 1~2147483647
project_count	Integer	Definition Number of repositories. Value range: 1~2147483647
group_role	Integer	Definition Repository group role. Value range: 1~2147483647
group_members_count	Integer	Definition Number of members in a repository group. Value range: 1~2147483647

Parameter	Type	Description
descendant_type	String	Definition Type. Range 1–1,000 characters.
visibility_level	Integer	Definition Visibility: 0 or 20. Value range: 1~2147483647
visibility	String	Definition Visibility: private or public. Range 1–1,000 characters.
is_project_admin	Integer	Definition Whether the user is the project creator. Value range: 1~2147483647
is_group_creator	Integer	Definition Whether the user is the creator of a repository group. Value range: 1~2147483647 Default value: 0
is_repo_creator	Integer	Definition Whether the user is the repository creator. Value range: 1~2147483647
lfs_enabled	Boolean	Definition LFS enabled or not.
full_name	String	Definition Full name. Range 1–1,000 characters.

Parameter	Type	Description
full_path	String	Definition Full path. Range 1–1,000 characters.
item_type	String	Definition Item type. Range 1–1,000 characters.
parent_id	Integer	Definition Parent repository group ID. Value range: 1~2147483647
my_role	GroupMyRoleDto V4 object	Definition My role.
members	Integer	Definition Member. Value range: 1~2147483647
web_url	String	Definition URL. Range 1–1,000 characters.
created_at	String	Definition Creation time. Range 1–1,000 characters.
sub_group_count	Integer	Definition Number of child repository groups. Value range: 1~2147483647
last_owner	Boolean	Definition Whether the user is the last owner.
starred	Boolean	Definition Favorited or not.

Table 4-826 GroupMyRoleDtoV4

Parameter	Type	Description
id	Integer	Definition: Record ID. Value range: 1~2147483647
access_level	Integer	Definition Role. Value range: 1~2147483647
role_namecn	String	Definition: Role name in Chinese. Value range: 1 to 1,000 characters.
role_namen	String	Definition: Role name in English. Value range: 1 to 1,000 characters.
source_id	Integer	Definition: Resource ID. Value range: 1~2147483647
source_type	String	Definition: Resource type. Value range: Group project 1 to 1,000 characters.
user_id	Integer	Definition: User ID. Value range: 1~2147483647
notification_level	Integer	Definition: Notification. Value range: 1~2147483647

Parameter	Type	Description
created_at	String	Definition: Creation time. Value range: 1 to 1,000 characters.
updated_at	String	Definition: Update time. Value range: 1 to 1,000 characters.
is_project_admin	Integer	Definition: Whether the user is the project creator. Value range: 1~2147483647
is_group_creator	Integer	Definition: Whether the user is the creator of a repository group. Value range: 1~2147483647
is_repo_creator	Integer	Definition: Whether the user is the repository creator. Value range: 1~2147483647
role_show_flag	Integer	Definition: Role display. Value range: 1~2147483647

Status code: 401**Table 4-827** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-828 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/list

Example Responses

Status code: 200

Obtain the list of repository groups.

```
[ {
  "project_id" : "c65b44ca43b04961860e728cb91acfc6",
  "project_name" : "Scrum_ltest_sync",
  "ancestor_ids" : [ 2111921555 ],
  "ancestor_names" : [ "te" ],
  "develop_mode" : "normal",
  "id" : 2111921555,
  "name" : "te",
  "web_url" : null,
  "lfs_enabled" : true,
  "full_name" : "te",
  "full_path" : "te",
  "path" : "te",
  "visibility" : "public",
  "description" : null,
  "item_type" : "Group",
  "parent_id" : 2111919908,
  "my_role" : {
    "id" : 1084102,
    "access_level" : 50,
    "role_namecn" : "Project administrator",
    "role_namen" : "project_admin",
    "source_id" : 2111921555,
    "source_type" : "Namespace",
    "user_id" : 7574,
    "notification_level" : 3,
    "created_at" : "2025-06-20T22:32:56.000+08:00",
    "updated_at" : "2025-06-20T22:32:56.000+08:00",
    "is_project_admin" : 1,
    "is_group_creator" : 1,
    "is_repo_creator" : 0,
    "role_show_flag" : 6
  },
  "members" : 2,
  "created_at" : "2025-06-20T22:32:56.000+08:00",
  "project_count" : 0,
  "sub_group_count" : 0,
  "last_owner" : true,
  "starred" : false
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the list of repository groups.
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.8.2 Obtaining the List of Members That Can Be Added to a Repository Group****Function**

This API is used to obtain the list of members that can be added to a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/members/list

Table 4-829 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-830 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
query	No	String	Definition Member search string.
join_way	No	String	Definition Member adding mode. domain: tenant. normal: common, inherit: inherited. Enumeration values: • domain • normal • inherit
access_level	No	Integer	Definition Access level of members to be filtered. 10: to be reviewed; 20: viewer; 30: developer; 40: administrator; 50: owner Value range: 1~2147483647

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-831 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-832 Response body parameters

Parameter	Type	Description
[items]	Array of GroupMemberDetailDto objects	Definition: Member list.

Table 4-833 GroupMemberDetailDto

Parameter	Type	Description
id	Integer	Definition Unique ID. Value range: 1~2147483647
source_id	Integer	Definition Resource ID. Value range: 1~2147483647
user_id	Integer	Definition User ID. Value range: 1~2147483647
user_from	String	Definition User source. Range 1-1,000 characters.
role_id	String	Definition Role ID. Range 1-1,000 characters.
role_name	String	Definition Role name. Range 1-1,000 characters.
cn_role_name	String	Definition Role name in Chinese. Range 1-1,000 characters.

Parameter	Type	Description
req_role_id	String	Definition Project role ID. Range 1–1,000 characters.
req_role_name	String	Definition Project role name. Range 1–1,000 characters.
user_group_id	String	Definition Member group ID. Range 1–1,000 characters.
group_name	String	Definition Repository group name. Range 1–1,000 characters.
user_name	String	Definition Username. Range 1–1,000 characters.
domain_id	String	Definition Tenant ID. Range 1–1,000 characters.
domain_name	String	Definition Tenant name. Range 1–1,000 characters.
nick_name	String	Definition User alias. Range 1–1,000 characters.
is_group_creator	Boolean	Definition Whether the user is the creator of a repository group.

Parameter	Type	Description
is_project_admin	Boolean	Definition Whether the user is a project administrator.
path	String	Definition Path. Range 1–1,000 characters.
role_chinese_name	String	Definition Role name in Chinese. Range 1–1,000 characters.
can_remove	Boolean	Definition Removable or not.
access_level	Integer	Definition Role. Value range: 1~2147483647
service_license_status	Integer	Definition Service license status. Value range: 1~2147483647
iam_id	String	Definition IAM ID of the user. Range 1–1,000 characters.
current_group_member	Boolean	Definition Whether the user is a member of the current repository group.

Status code: 401**Table 4-834** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403**Table 4-835** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/{group_id}/members/list
```

Example Responses

Status code: 200

Obtain the list of members that can be added to a repository group.

```
[ {  
  "id" : 1067730,  
  "source_id" : 2111919928,  
  "user_id" : 9091,  
  "user_from" : "Project members",  
  "role_id" : "42501d8587994fb1ace57dc2bd80a51f",  
  "role_name" : "Project manager",  
  "cn_role_name" : "Project manager",  
  "req_role_id" : "42501d8587994fb1ace57dc2bd80a51f",  
  "req_role_name" : "Project manager",  
  "user_group_id" : null,  
  "group_name" : "p_group3",  
  "user_name" : "03e2dc950c7441df8d26972e33cadb15",  
  "domain_id" : "159b65b41ead484d8ddff250a4731781",  
  "domain_name" : "devcloud_codehub_l00314597_01",  
  "nick_name" : null,  
  "is_group_creator" : false,  
  "is_project_admin" : false,  
  "path" : null,  
  "role_chinese_name" : null,  
  "can_remove" : true,  
  "access_level" : 40,  
  "service_license_status" : 1,  
  "iam_id" : "03e2dc950c7441df8d26972e33cadb15",  
  "current_group_member" : true  
}
```

Status code: 401

Unauthorized


```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the list of members that can be added to a repository group.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.8.3 Obtaining the List of Members That Can Be Added to a Repository Group

Function

This API is used to obtain the list of members that can be added to a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/members/addable-list

Table 4-836 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-837 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-838 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-839** Response body parameters

Parameter	Type	Description
[items]	Array of GroupBatchAddMemberDto objects	Definition: Member list.

Table 4-840 GroupBatchAddMemberDto

Parameter	Type	Description
iam_id	String	Definition IAM ID of the user. Range 1–1,000 characters.

Parameter	Type	Description
user_id	String	Definition User ID. Range 1–1,000 characters.
name	String	Definition Username. Range 1–1,000 characters.
nick_name	String	Definition User alias. Range 1–1,000 characters.
domain_name	String	Definition Tenant name. Range 1–1,000 characters.
domain_id	String	Definition Tenant ID. Range 1–1,000 characters.
repo_role_id	String	Definition Role ID. Range 1–1,000 characters.
req_role_id	String	Definition Project role ID. Range 1–1,000 characters.
repo_role_name	String	Definition Role name. Range 1–1,000 characters.
req_role_name	String	Definition Project role name. Range 1–1,000 characters.

Status code: 401

Table 4-841 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-842 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/{group_id}/members/addable-list

Example Responses

Status code: 200

Obtain the list of members that can be added to a repository group.

```
[ {
  "iam_id" : "7be75ff77809436bb8acb031a7640098",
  "user_id" : null,
  "name" : "7be75ff77809436bb8acb031a7640098",
  "nick_name" : null,
  "domain_name" : "devcloud_codehub_l00314597_01",
  "domain_id" : "159b65b41ead484d8ddff250a4731781",
  "repo_role_id" : "c58e56f8e8684d2e83f48b8674485de7",
  "req_role_id" : "c58e56f8e8684d2e83f48b8674485de7",
  "repo_role_name" : "Committer",
  "req_role_name" : "Committer"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
}
```

```
{
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the list of members that can be added to a repository group.
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.8.4 Obtaining the Member Groups That Can Be Added to a Repository Group****Function**

This API is used to obtain the member groups that can be added to a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/user-groups/addable-list

Table 4-843 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-844 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-845 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 201**Table 4-846** Response body parameters

Parameter	Type	Description
[items]	Array of UserGroupDto objects	Definition: Member group list.

Table 4-847 UserGroupDto

Parameter	Type	Description
id	Integer	Definition: Unique ID. Value range: 1~2147483647
name	String	Definition: Name. Value range: 1 to 1,000 characters.

Parameter	Type	Description
user_group_id	String	Definition: Member group ID. Value range: 1 to 1,000 characters.
project_id	String	Definition: Project ID. Value range: 1 to 1,000 characters.
tenant_id	String	Definition: Tenant ID. Value range: 1 to 1,000 characters.
group_type	String	Definition: Repository group type. Value range: 1 to 1,000 characters.
member_count	Integer	Definition: Number of members. Value range: 1~2147483647
created_at	String	Definition: Creation time. Value range: 1 to 1,000 characters.
updated_at	String	Definition: Update time. Value range: 1 to 1,000 characters.

Status code: 401**Table 4-848** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403

Table 4-849 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/{group_id}/user-groups/addable-list?offset=0&limit=20
```

Example Responses

Status code: 201

Obtain the member groups that can be added to a repository group.

```
[ {
  "id" : 291,
  "name" : 3123,
  "user_group_id" : "a89f298bfcfa42a2804920cba6f6e5c2",
  "project_id" : "c65b44ca43b04961860e728cb91acfc6",
  "tenant_id" : "159b65b41ead484d8ddff250a4731781",
  "group_type" : "normal",
  "created_at" : "2025-06-17T01:45:28.904+08:00",
  "updated_at" : "2025-06-17T01:45:28.904+08:00"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	Obtain the member groups that can be added to a repository group.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.8.5 Obtaining the Lists of Sub-Repository Groups and Repositories in a Repository Group

Function

This API is used to obtain the sub-repository groups and repository lists of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/subgroups-and-repositories

Table 4-850 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-851 Query Parameters

Parameter	Mandatory	Type	Description
filter	No	Integer	Definition Search criteria, name. Value range: 1~2147483647
order_by	No	String	Definition Sorting order. id: unique identifier. name: name. created_at: creation time. updated_at: update time. Default value: updated_at Enumeration values: • id • name • created_at • updated_at
sort	No	String	Definition Sorting order. asc: ascending. desc: descending Default value: desc Enumeration values: • asc • desc
archived	No	Boolean	Definition Archived or not. Default value: false
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-852 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-853 Response body parameters

Parameter	Type	Description
[items]	Array of SubgroupAndProjectBaseDto objects	Definition: List of repository groups and repositories in a project.

Table 4-854 SubgroupAndProjectBaseDto

Parameter	Type	Description
project_id	String	Definition: Project ID. Value range: 1 to 1,000 characters.
project_name	String	Definition: Project name. Value range: 1 to 1,000 characters.
role_namecn	String	Definition: Role name in Chinese. Value range: 1 to 1,000 characters.
role_nameen	String	Definition: Role name in English. Value range: 1 to 1,000 characters.
full_name	String	Definition: Full name. Value range: 1 to 1,000 characters.
full_path	String	Definition: Full path. Value range: 1 to 1,000 characters.
created_at	String	Definition: Creation time. Value range: 1 to 1,000 characters.
updated_at_times tamp	String	Definition: Update timestamp. Value range: 1 to 1,000 characters.

Parameter	Type	Description
star_time	String	Definition: Start timestamp. Value range: 1 to 1,000 characters.
starred	Boolean	Definition: Whether to add it to favorites.
develop_mode	String	Definition: Development mode. Normal: CR. Value range: 1 to 1,000 characters.
id	Integer	Definition: Repository or repository group ID. Value range: 1~2147483647
name	String	Definition: Repository group or repository name. Value range: 1 to 1,000 characters.
path	String	Definition: Path. Value range: 1 to 1,000 characters.
group_level	Integer	Definition: Repository group level. Value range: 1~2147483647
description	String	Definition: Description of the repository group or repository. Value range: 1 to 1,000 characters.
subgroup_count	Integer	Definition: Number of child repository groups. Value range: 1~2147483647

Parameter	Type	Description
project_count	Integer	Definition: Number of repositories. Value range: 1~2147483647
group_role	Integer	Definition: Repository group role. Value range: 1~2147483647
group_members_count	Integer	Definition: Number of members in a repository group. Value range: 1~2147483647
descendant_type	String	Definition: Resource type: group or project. Value range: 1 to 1,000 characters.
visibility_level	Integer	Definition: Visibility level: 0 (private) or 20 (public). Value range: 1~2147483647
visibility	String	Definition: Visibility: private or public. Value range: 1 to 1,000 characters.
is_project_admin	Integer	Definition: Whether the current user is the project creator. Value range: 1~2147483647
is_group_creator	Integer	Definition: Whether the current user is the creator of a repository group. Value range: 1~2147483647

Parameter	Type	Description
is_repo_creator	Integer	Definition: Whether the current user is the repository creator. Value range: 1~2147483647
role_show_flag	Integer	Definition: Role display flag. Value range: 1~2147483647
uuid	String	Definition: Repository UUID. Value range: 1 to 1,000 characters.
forks_count	Integer	Definition: Number of forks. Value range: 1~2147483647
is_kia	Boolean	Definition: Whether it is Kia.
is_owner	Boolean	Definition: Owner or not.
archived	Boolean	Definition: Whether it is archived.
last_repository_updated_at	String	Definition: Last update time of the repository. Value range: 1 to 1,000 characters.
open_merge_requests_count	Integer	Definition: Number of enabled MRs. Value range: 1~2147483647
all_merge_requests_count	Integer	Definition: Total number of MRs. Value range: 1~2147483647

Parameter	Type	Description
project_role	Integer	Definition: Repository role. Value range: 1~2147483647
project_members_count	Integer	Definition: Number of forks. Value range: 1~2147483647
project_creator	ProjectCreatorDto object	Definition: Project creator.
star_count	Integer	Definition: Number of forks. Value range: 1~2147483647
tag_list	Array of strings	Definition: Tag list.
http_url_to_repo	String	Definition: HTTP URL of the repository. Value range: 1 to 1,000 characters.
ssh_url_to_repo	String	Definition: SSH URL of the repository. Value range: 1 to 1,000 characters.
status	Integer	Definition: Status. Value range: 1~2147483647
active_statistic	Array of integers	Definition: Active user statistics. Value range: 1~2147483647
security_tag	String	Definition: Security tag. Value range: 1 to 1,000 characters.

Table 4-855 ProjectCreatorDto

Parameter	Type	Description
id	Integer	Definition: Unique ID. Value range: 1~2147483647
name	String	Definition: Name. Value range: 1 to 1,000 characters.
username	String	Definition: iam_id. Value range: 1 to 1,000 characters.

Status code: 401**Table 4-856** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-857** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/{group_id}/subgroups-and-repositories?offset=0&limit=20

Example Responses

Status code: 200

Obtain the sub-repository groups and repository lists of a repository group.

```
[ {
  "project_id" : "c65b44ca43b04961860e728cb91acfc6",
  "project_name" : null,
  "role_namecn" : "Project administrator",
  "role_nameen" : "project_admin",
  "full_name" : "p_group3",
  "full_path" : "p_group3",
  "created_at" : "2025-06-03T22:45:31.000+08:00",
  "updated_at_timestamp" : 1748904331000,
  "star_time" : 1749955042000,
  "starred" : false,
  "develop_mode" : "normal",
  "id" : 2111919928,
  "name" : "p_group3",
  "path" : "p_group3",
  "group_level" : 1,
  "description" : null,
  "subgroup_count" : 1,
  "project_count" : 0,
  "group_role" : 50,
  "group_members_count" : 2,
  "descendant_type" : "Group",
  "visibility_level" : 0,
  "visibility" : "private",
  "is_project_admin" : 1,
  "is_group_creator" : 1,
  "is_repo_creator" : 0,
  "role_show_flag" : 6
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the sub-repository groups and repository lists of a repository group.

Status Code	Description
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.8.6 Obtaining the Inheritance Settings of a Repository Group

Function

This API is used to obtain the inheritance settings of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/inherit

Table 4-858 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-859 Query Parameters

Parameter	Mandatory	Type	Description
setting_type	Yes	String	Definition: Mandatory. Setting types. protected_branches: protected branches; protected_tags: protected tags; push_rules: push rules; merge_requests: merge request; mr_branch_policies: merged branches; reviews: review comments; e2e_settings: e2e settings; webhook_settings: hook settings; deploy_keys: deploy keys; watermark: watermark; repository_settings: repository settings. Enumeration values: • protected_branches • protected_tags • push_rules • merge_requests • mr_branch_policies • reviews • e2e_settings • webhook_settings • deploy_keys • watermark • repository_settings

Request Parameters

Table 4-860 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 202**Table 4-861** Response body parameters

Parameter	Type	Description
group_id	String	Definition: Repository group ID. Value range: 1 to 1,000 characters.
source_setting	String	Definition: Resource type settings. Value range: 1 to 1,000 characters.
project_id	String	Definition: Project ID. Value range: 1 to 1,000 characters.
upward_inherit_ed itable	Boolean	Definition: Whether the current setting items can be edited during upward inheritance.

Status code: 401**Table 4-862** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-863** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/{group_id}/inherit?offset=0&limit=20
```

Example Responses

Status code: 202

Obtain the inheritance settings of a repository group.

```
{
  "group_id" : 2111919928,
  "source_setting" : "group",
  "project_id" : "c65b44ca43b04961860e728cb91acfc6",
  "upward_inherit_editable" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
}
```



```
"error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
202	Obtain the inheritance settings of a repository group.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.8.7 Transferring a Repository Group

Function

This API is used to transfer a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/groups/{group_id}/transfer

Table 4-864 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-865 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-866 Request body parameters

Parameter	Mandatory	Type	Description
owner_id	No	Integer	ID of the target transfer user Value range: 1~2147483647

Response Parameters

Status code: 200

Table 4-867 Response body parameters

Parameter	Type	Description
id	Integer	Repository group ID
full_name	String	Full name of the repository group
full_path	String	Full path of the repository group
my_role	GroupMyRoleDto object	Member role information
name	String	Repository group name
parent_id	Integer	Parent ID of the repository group

Parameter	Type	Description
creator_id	Integer	Repository group owner ID

Table 4-868 GroupMyRoleDto

Parameter	Type	Description
id	Integer	Member ID
access_level	Integer	Member role value
role_namecn	String	Role name (CN)
role_namen	String	Role name
source_id	Integer	Source repository group ID
source_type	String	Source type
user_id	Integer	User ID
notification_level	Integer	Suggestion level
created_at	String	Creation time
updated_at	String	Update time.
created_by_id	Integer	Creator ID
invite_email	String	Invitation email
invite_token	String	Invitation token
invite_accepted_at	String	Invitation acceptance time
requested_at	String	Request time
expires_at	String	Expiration time
limited	Boolean	Limit
isProjectAdmin	Integer	Project administrator or not
isGroupCreator	Integer	Organization creator or not
isRepoCreator	Integer	Repository creator or not
roleShowFlag	Integer	Display flag

Status code: 401

Table 4-869 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-870** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/groups/{group_id}/transfer
{
  "owner_id" : 111
}
```

Example Responses**Status code: 200**

OK

```
{
  "id" : 2111892588,
  "full_name" : "2b4a0a1743fe45d4869aff725b8c8293 / group2 / group2.1",
  "full_path" : "2b4a0a1743fe45d4869aff725b8c8293/group2/group2.1",
  "my_role" : {
    "id" : 714996,
    "access_level" : "50",
    "role_namecn" : null,
    "role_namen" : null,
    "source_id" : 2111890734,
    "source_type" : "Namespace",
    "user_id" : 7574,
    "notification_level" : 3,
    "created_at" : "2025-02-19T00:32:17.000+08:00",
    "updated_at" : "2025-02-18T16:32:56.000+08:00",
    "created_by_id" : null,
    "invite_email" : null,
    "invite_token" : null,
    "invite_accepted_at" : null,
    "requested_at" : null,
    "expires_at" : null,
  }
}
```

```
"limited" : false,
"isProjectAdmin" : null,
"isGroupCreator" : null,
"isRepoCreator" : null,
"roleShowFlag" : null
},
"name" : "group2.1",
"parent_id" : 2111892586,
"creator_id" : 9124
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.8.8 Associating a Repository Group with a Member Group****Function**

This API is used to associate a repository group with a member group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/{project_id}/groups/{group_id}/user-group/{user_group_id}

Table 4-871 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
user_group_id	Yes	String	Definition Member group ID. Range String length: 32 characters.

Request Parameters

Table 4-872 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 201

Table 4-873 Response body parameters

Parameter	Type	Description
success	Array of MemberBaseDto objects	Associated members
failure	Array of FailureForBatchCreateGroupMembersDto objects	Members that failed to be associated

Table 4-874 MemberBaseDto

Parameter	Type	Description
id	String	User ID
iam_id	String	iam_id
name	String	Member name

Table 4-875 FailureForBatchCreateGroupMembersDto

Parameter	Type	Description
iam_id	String	iam_id
message	Array of strings	Failure cause

Status code: 401**Table 4-876** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/5109940fad834a4eb3e408182d3b5786/groups/2111717210/user-group/  
2bde30f6f7834db7af487450a9d155c5
```

Example Responses

Status code: 201

OK

```
{  
  "success" : [ {  
    "id" : 10091,  
    "name" : "paas_codeartsrepo_f30041672_01",  
    "iam_id" : "4a7049ad346d43419328a37b93b38ad4"  
  }, {  
    "id" : 9443,  
    "name" : "example_name",  
    "iam_id" : "4a7049ad346d43419328a37b93b38ad4"  
  }, {  
    "id" : 9405,  
    "name" : "example_name",  
    "iam_id" : "4a7049ad346d43419328a37b93b38ad4"  
  } ],  
  "failure" : [ ]  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.000000003",  
  "error_msg" : "Authentication information expired."  
}
```


Status Codes

Status Code	Description
201	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.8.9 Obtaining the Inheritance Settings of a Repository Group

Function

This API is used to obtain the inheritance configuration items of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/settings-inherit-cfg

Table 4-877 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-878 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-879** Response body parameters

Parameter	Type	Description
can_update	Boolean	Definition Whether it is available.
id	Integer	Definition Record ID. Value range: 1~2147483647
product_id	String	Definition Project ID. Range 1–1,000 characters.
namespace_id	Integer	Definition Repository group ID. Value range: 1~2147483647

Parameter	Type	Description
parent_id	Integer	Definition Parent ID. Value range: 1~2147483647
ownership	Integer	Definition Order ID. Value range: 1~2147483647
pbi	Integer	Definition Order ID. Value range: 1~2147483647
protected_branches	Integer	Definition Protected branch policy. Value range: 1~2147483647
protected_tags	Integer	Definition Tag protection policy. Value range: 1~2147483647
push_rules	Integer	Definition Push rule policy. Value range: 1~2147483647
change_requests	Integer	Definition CR policy. Value range: 1~2147483647
custom_ctrl_items	Integer	Definition Order ID. Value range: 1~2147483647
reviews	Integer	Definition Order ID. Value range: 1~2147483647

Parameter	Type	Description
issues	Integer	Definition Issue inheritance mode. Value range: 1~2147483647
cr_evaluation	Integer	Definition Order ID. Value range: 1~2147483647
e2e_settings	Integer	Definition E2E policy. Value range: 1~2147483647
committer_settings	Integer	Definition Commit policy. Value range: 1~2147483647
webhook_settings	Integer	Definition Webhook policy. Value range: 1~2147483647
stream_event_settings	Integer	Definition Order ID. Value range: 1~2147483647
pipeline_settings	Integer	Definition Order ID. Value range: 1~2147483647
issue_templates	Integer	Definition Issue template inheritance mode. Value range: 1~2147483647
cr_comment_templates	Integer	Definition: Order ID Value range: 1~2147483647

Parameter	Type	Description
merge_requests	Integer	Definition Order ID. Value range: 1~2147483647
mr_branch_policies	Integer	Definition Merge request policy. Value range: 1~2147483647
repository_settings	Integer	Definition Repository policy. Value range: 1~2147483647
deploy_keys	Integer	Definition: Deploy key policy Value range: 1~2147483647
watermark	Integer	Definition Watermark policy. Value range: 1~2147483647
created_at	String	Definition Creation time.
update_at	String	Definition Update time.

Status code: 401**Table 4-880** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-881 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-882** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/{group_id}/settings-inherit-cfg

Example Responses

Status code: 200

Get Group Inheritance Settings

```
{
  "can_update" : null,
  "id" : 352996,
  "product_id" : null,
  "namespace_id" : 2111918419,
  "parent_id" : 0,
  "ownership" : 0,
  "pbi" : 0,
  "protected_branches" : 1000,
  "protected_tags" : 1003,
  "push_rules" : 1000,
  "change_requests" : 0,
  "custom_ctrl_items" : 0,
  "reviews" : 0,
  "issues" : 0,
  "cr_evaluation" : 0,
  "e2e_settings" : 1000,
  "committer_settings" : 0,
  "webhook_settings" : 1000,
  "stream_event_settings" : 0,
  "pipeline_settings" : 0,
  "issue_templates" : 0,
  "cr_comment_templates" : 0,
  "merge_requests" : 1000,
  "mr_branch_policies" : 1000,
```

```
{
  "repository_settings" : 1000,
  "deploy_keys" : 1000,
  "watermark" : 1000,
  "created_at" : "2025-05-22 22:43:07 +0800",
  "update_at" : "2025-05-22 22:43:07 +0800"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Group Not Found. Group Not Found"
}
```

Status Codes

Status Code	Description
200	Get Group Inheritance Settings
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.8.10 Obtaining the Inheritance Permission Setting Switch of a Repository Group

Function

This API is used to obtain the switch for setting the permission inheritance of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/permission-inherit-enabled

Table 4-883 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-884 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-885 Response body parameters

Parameter	Type	Description
permission_inherit_enabled	Boolean	Definition Whether to enable the project permission configuration function.

Status code: 401**Table 4-886** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-887** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-888** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/{group_id}/permission-inherit-enabled
```

Example Responses

Status code: 200

Obtain the switch for setting the permission inheritance of a repository group.

```
{
  "permission_inherit_enabled" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Group Not Found. Group Not Found"
}
```

Status Codes

Status Code	Description
200	Obtain the switch for setting the permission inheritance of a repository group.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.8.11 Obtaining Basic Settings of a Specified Repository Group

Function

This API is used to obtain basic settings of a specified repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/policies/general

Table 4-889 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-890 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-891 Response body parameters

Parameter	Type	Description
disable_fork	Boolean	Definition Whether to disable fork.
forbidden_developer_create_branch	Boolean	Definition Whether to forbid developers to create branches.
forbidden_developer_create_tag	Boolean	Definition Whether to forbid developers to create tags.
forbidden_committer_create_branch	Boolean	Definition Developers are not allowed to create tags.
branch_name_regex	String	Definition Regular expression of the branch name. Range 1–1,000 characters.
tag_name_regex	String	Definition Regular expression of the tag name. Range 1–1,000 characters.
generate_pre_merge_ref	Boolean	Definition Generate a merge request for pre-merging.
forbidden_gitlab_access	Boolean	Definition Whether to forbid repo access.
rebase_disable_trigger_webhook	Boolean	Definition Whether to forbid the MR rebase to trigger the webhook event.
open_gpg_verified	Boolean	Definition Whether to enable GPG public key authentication.

Status code: 401

Table 4-892 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-893** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-894** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/{group_id}/policies/general
```

Example Responses

Status code: 200

Obtain basic settings of a specified repository group.

```
{
  "disable_fork" : false,
  "forbidden_developer_create_branch" : false,
  "forbidden_developer_create_tag" : false,
  "forbidden_committer_create_branch" : null,
  "branch_name_regex" : null,
```

```
"tag_name_regex" : null,  
"generate_pre_merge_ref" : false,  
"forbidden_gitlab_access" : null,  
"rebase_disable_trigger_webhook" : null,  
"open_gpg_verified" : null  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.004404",  
  "error_msg" : "Group Not Found. Group Not Found"  
}
```

Status Codes

Status Code	Description
200	Obtain basic settings of a specified repository group.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.8.12 Obtain the List of Repository Group Permission Resource Points.

Function

This API is used to obtain the list of repository group permission resource points.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/permissions/resources

Table 4-895 Query Parameters

Parameter	Mandatory	Type	Description
scope	No	String	Definition Type of the resource created. Constraints • group: repository group. • project: project. • all: repository groups and projects Default value: all Enumeration values: • group • project • all

Request Parameters

Table 4-896 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-897** Response body parameters

Parameter	Type	Description
use_project_permission	Boolean	Definition Whether to use the project permission.
resources	Array of PermissionResourcesDto objects	Definition Resource list.

Table 4-898 PermissionResourcesDto

Parameter	Type	Description
id	Integer	Definition Resource ID. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition Resource name. Range 1–1,000 characters.
name_cn	String	Definition Resource name in Chinese. Range 1–1,000 characters.
resource_name_display	String	Definition Name of the disabled resource. Range 1–1,000 characters.
resource_name_cn_display	String	Definition Name of the disabled resource in Chinese. Range 1–1,000 characters.
path	String	Definition Permission path. Range 1–1,000 characters.
scope	String	Definition Resource type. Range 1–1,000 characters.
created_at	String	Definition Creation time. Range 1–1,000 characters.
updated_at	String	Definition Update time. Range 1–1,000 characters.

Status code: 401

Table 4-899 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-900** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/permissions/resources

Example Responses

Status code: 200

Obtain the list of repository group permission resource points.

```
{
  "resources": [ {
    "id": 1,
    "name": "repository",
    "name_cn": "Repository",
    "path": "/codeartsrepo/repo/repository/*",
    "created_at": "2023-09-12T22:49:09.000+08:00",
    "updated_at": "2023-09-12T22:49:09.000+08:00"
  }, {
    "id": 2,
    "name": "code",
    "name_cn": "Code",
    "path": "/codeartsrepo/repo/code/*",
    "created_at": "2023-09-12T22:49:09.000+08:00",
    "updated_at": "2023-09-12T22:49:09.000+08:00"
  } ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "DEV.00000003",
}
```

```
{  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	Obtain the list of repository group permission resource points.
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.8.13 Obtaining the Watermark Settings of a Repository Group****Function**

This API is used to obtain the watermark settings of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/watermark

Table 4-901 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-902 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-903 Response body parameters

Parameter	Type	Description
watermark	Boolean	Definition Watermark status. • true: enabled. • false: disabled.

Parameter	Type	Description
can_update	Boolean	Definition Whether the current user has the permission to update the watermark setting. • true: Yes. • false: No.

Status code: 401**Table 4-904** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-905** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-906** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/100001/watermark
```

Example Responses

Status code: 200

Obtain the Watermark Settings of a Repository Group

```
{
  "watermark" : false,
  "can_update" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Group Not Found. Group Not Found"
}
```

Status Codes

Status Code	Description
200	Obtain the Watermark Settings of a Repository Group
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.8.14 Updating the Watermark Settings of a Repository Group

Function

This API is used to update the watermark settings of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/groups/{group_id}/watermark

Table 4-907 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-908 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-909 Request body parameters

Parameter	Mandatory	Type	Description
watermark	No	Boolean	Definition Watermark status. • true: enabled. • false: disabled.

Response Parameters

Status code: 200

Table 4-910 Response body parameters

Parameter	Type	Description
watermark	Boolean	Definition Watermark status. • true: enabled. • false: disabled.

Status code: 401

Table 4-911 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-912 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-913 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/groups/100001/watermark
{
  "watermark" : false
}
```

Example Responses

Status code: 200

Repository group watermark settings.

```
{
  "watermark" : false
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Group Not Found. Group Not Found"
}
```

Status Codes

Status Code	Description
200	Repository group watermark settings.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.8.15 Obtaining the Inheritance Configuration Items of a Repository Group

Function

This API is used to obtain the inheritance configuration items of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/inherit-setting

Table 4-914 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-915 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-916** Response body parameters

Parameter	Type	Description
[items]	Array of ProjectSettingsInheritCfgDto objects	Repository group inheritance settings

Table 4-917 ProjectSettingsInheritCfgDto

Parameter	Type	Description
name	String	Definition: Source type Constraints: N/A Value range: - protected_branches: Protected branch settings - protected_tags: Protected tag settings - repository_settings: Repository settings - push_rules: Commit rule settings - merge_requests: Merge request settings - e2e_settings: E2E settings - watermark: Watermark settings - webhook_settings: Webhook settings - mr_branch_policies: Merge branch policy settings - reviews: review settings - deploy_keys: deployment parameter settings Default value: N/A Enumeration values: protected_branches protected_tags repository_settings push_rules merge_requests e2e_settings watermark webhook_settings mr_branch_policies reviews deploy_keys

Parameter	Type	Description
inherit_mod	String	Definition: Inheritance settings Constraints: N/A Value range: • force_inherit: force inherit configuration • custom: use current configuration Default value: N/A Enumeration values: • force_inherit • custom

Status code: 401**Table 4-918** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-919** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-920 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/{group_id}/inherit-setting

Example Responses

Status code: 200

Get Group Inheritance Settings

```
[ {
  "name" : "protected_branches",
  "inherit_mod" : "custom"
}, {
  "name" : "protected_tags",
  "inherit_mod" : "custom"
}, {
  "name" : "repository_settings",
  "inherit_mod" : "inherit"
}, {
  "name" : "push_rules",
  "inherit_mod" : "inherit"
}, {
  "name" : "merge_requests",
  "inherit_mod" : "inherit"
}, {
  "name" : "e2e_settings",
  "inherit_mod" : "inherit"
}, {
  "name" : "watermark",
  "inherit_mod" : "inherit"
}, {
  "name" : "webhook_settings",
  "inherit_mod" : "inherit"
}, {
  "name" : "mr_branch_policies",
  "inherit_mod" : "inherit"
}, {
  "name" : "reviews",
  "inherit_mod" : "inherit"
}, {
  "name" : "deploy_keys",
  "inherit_mod" : "inherit"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Group Not Found. Group Not Found"
}
```

Status Codes

Status Code	Description
200	Get Group Inheritance Settings
401	Unauthorized
403	Bad Request
404	Not Found

Error CodesSee [Error Codes](#).**4.1.8.16 Updating the Basic Settings of a Repository Group****Function**

This API is used to update the basic settings of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/groups/{group_id}/general-policy

Table 4-921 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-922 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-923 Request body parameters

Parameter	Mandatory	Type	Description
disable_fork	No	Boolean	Definition: Whether to disable fork.
branch_name_regex	No	String	Definition: Regular expression of the branch name Value range: 1–1,000 characters.

Parameter	Mandatory	Type	Description
tag_name_regex	No	String	Definition: Regular expression of the tag name Value range: 1–1,000 characters.
generate_pre_merge_ref	No	Boolean	Definition: Generate a merge request for pre-merging

Response Parameters

Status code: 200

Table 4-924 Response body parameters

Parameter	Type	Description
disable_fork	Boolean	Definition: Whether to disable fork.
branch_name_regex	String	Definition: Regular expression of the branch name Value range: 1–1,000 characters.
tag_name_regex	String	Definition: Regular expression of the tag name Value range: 1–1,000 characters.
generate_pre_merge_ref	Boolean	Definition: Generate a merge request for pre-merging

Example Requests

Update the basic settings of a repository group

```
PUT https://{endpoint}/v4/groups/{group_id}/general-policy
```

```
{
  "disable_fork" : false,
  "branch_name_regex" : null,
  "tag_name_regex" : null,
  "generate_pre_merge_ref" : false
}
```

Example Responses

Status code: 200

Basic settings of a project

```
{
  "disable_fork" : false,
  "branch_name_regex" : null,
  "tag_name_regex" : null,
  "generate_pre_merge_ref" : false
}
```

Status Codes

Status Code	Description
200	Basic settings of a project

Error Codes

See [Error Codes](#).

4.1.8.17 Obtaining Basic Settings of a Specified Repository Group

Function

This API is used to obtain basic settings of a specified repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/general-policy

Table 4-925 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-926 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-927** Response body parameters

Parameter	Type	Description
disable_fork	Boolean	Definition Whether to disable fork.
forbidden_developer_create_branch	Boolean	Definition Whether to forbid developers to create branches.
forbidden_developer_create_tag	Boolean	Definition Whether to forbid developers to create tags.
forbidden_committer_create_branch	Boolean	Definition Developers are not allowed to create tags.
branch_name_regex	String	Definition Regular expression of the branch name. Range 1–1,000 characters.

Parameter	Type	Description
tag_name_regex	String	Definition Regular expression of the tag name. Range 1–1,000 characters.
generate_pre_merge_ref	Boolean	Definition Generate a merge request for pre-merging.
forbidden_gitlab_access	Boolean	Definition Whether to forbid repo access.
rebase_disable_trigger_webhook	Boolean	Definition Whether to forbid the MR rebase to trigger the webhook event.
open_gpg_verified	Boolean	Definition Whether to enable GPG public key authentication.

Status code: 401**Table 4-928** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-929** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-930 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/{group_id}/general-policy

Example Responses

Status code: 200

Obtain the basic settings of a specified repository group.

```
{
  "disable_fork" : false,
  "forbidden_developer_create_branch" : false,
  "forbidden_developer_create_tag" : false,
  "forbidden_committer_create_branch" : null,
  "branch_name_regex" : null,
  "tag_name_regex" : null,
  "generate_pre_merge_ref" : false,
  "forbidden_gitlab_access" : null,
  "rebase_disable_trigger_webhook" : null,
  "open_gpg_verified" : null
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Project Not Found. Project Not Found"
}
```

Status Codes

Status Code	Description
200	Obtain the basic settings of a specified repository group.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.8.18 Querying the Member Group List Under an Organization

Function

Query the member group list under an organization.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/user-groups

Table 4-931 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-932 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	Definition: ID of a user group in an organization Value range: 1–1,000 characters.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-933 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-934 Response body parameters

Parameter	Type	Description
[items]	Array of ProjectUserGroupDto objects	Member group list

Table 4-935 ProjectUserGroupDto

Parameter	Type	Description
id	Integer	Definition: User group record ID Value range: 1~2147483647
user_group_id	String	Definition: User group ID Value range: 1-1,000 characters.
name	String	Definition: User group name Value range: 1-1,000 characters.
project_id	String	Definition: ID of the project where the user group is located Value range: 1-1,000 characters.
tenant_id	String	Definition: ID of the tenant to which the user group belongs Value range: 1-1,000 characters.
group_type	String	Definition: Type of the user group Value range: 1-1,000 characters.

Parameter	Type	Description
member_count	Integer	Definition: Number of user group members Value range: 0~2147483647
created_at	String	Definition: Creation time Value range: 1–1,000 characters.
updated_at	String	Definition: Update time Value range: 1–1,000 characters.
description	String	Definition: Description Value range: 1–1,000 characters.

Status code: 401**Table 4-936** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-937** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-938** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/{group_id}/user-groups?project_id={project_id}&offset=0&limit=20
```

Example Responses**Status code: 200**

Query the member group list under an organization.

```
[ {
  "id" : 345,
  "user_group_id" : "2e191c60e5c04aa9a57a27344d4b74d4",
  "name" : "team1",
  "project_id" : null,
  "tenant_id" : "159b65b41ead484d8ddff250a4731781",
  "group_type" : null,
  "member_count" : 1,
  "created_at" : "2025-09-17T19:30:03.275+08:00",
  "updated_at" : "2025-09-17T19:30:03.275+08:00",
  "description" : null
}, {
  "id" : 346,
  "user_group_id" : "2e191c60e5c04aa9a57a27344d4b74d4",
  "name" : "team2",
  "project_id" : null,
  "tenant_id" : "159b65b41ead484d8ddff250a4731781",
  "group_type" : null,
  "member_count" : 1,
  "created_at" : "2025-09-17T19:30:03.275+08:00",
  "updated_at" : "2025-09-17T19:30:03.275+08:00",
  "description" : null
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
}
```

```
{
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Project Not Found. Project Not Found"
}
```

Status Codes

Status Code	Description
200	Query the member group list under an organization.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.9 Member

4.1.9.1 Obtaining the Member Group List of a Repository

Function

This API is used to obtain the member group list of a repository (used in protected branch and protected tag settings).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/protected-refs/user-groups

Table 4-939 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-940 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
search	No	String	Definition Query keyword for fuzzy match, such as username, user alias, and tenant name.

Request Parameters

Table 4-941 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-942** Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of member groups

Table 4-943 Response body parameters

Parameter	Type	Description
[items]	Array of ProtectedRefsUserGroupBasicDto objects	Member group list

Table 4-944 ProtectedRefsUserGroupBasicDto

Parameter	Type	Description
id	Integer	Definition: Member group ID Value range: N/A Value range: 0~2147483647
name	String	Definition: Member group name Value range: N/A

Status code: 401**Table 4-945** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-946** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112029050/protected-refs/user-groups

Example Responses

Status code: 200

OK

```
[ {  
  "id" : 220,  
  "name" : "hxbcr1024_1"  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.9.2 Obtaining the Member Group List of a Repository Group

Function

This API is used to obtain the member group list of a repository group (used in protected branch and protected tag settings).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/protected-refs/user-groups

Table 4-947 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-948 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
search	No	String	Definition Query keyword for fuzzy match, such as username, user alias, and tenant name.

Request Parameters

Table 4-949 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-950** Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of member groups

Table 4-951 Response body parameters

Parameter	Type	Description
[items]	Array of ProtectedRefsUserGroupBasicDto objects	Member group list

Table 4-952 ProtectedRefsUserGroupBasicDto

Parameter	Type	Description
id	Integer	Definition: Member group ID Value range: N/A Value range: 0~2147483647
name	String	Definition: Member group name Value range: N/A

Status code: 401**Table 4-953** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-954** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/groups/2111927068/protected-refs/user-groups

Example Responses

Status code: 200

OK

```
[ {  
  "id" : 220,  
  "name" : "hxbcr1024_1"  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.9.3 Obtaining the Member Group List of a Project

Function

This API is used to obtain the member group list of a project (used in protected branch and protected tag settings).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/protected-refs/user-groups

Table 4-955 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-956 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
search	No	String	Definition Query keyword for fuzzy match, such as username, user alias, and tenant name.

Request Parameters

Table 4-957 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-958** Response header parameters

Parameter	Type	Description
X-Total	String	Definition: Total number of member groups

Table 4-959 Response body parameters

Parameter	Type	Description
[items]	Array of ProtectedRefsUse rGroupBasicDto objects	Member group list

Table 4-960 ProtectedRefsUserGroupBasicDto

Parameter	Type	Description
id	Integer	Definition: Member group ID Value range: N/A Value range: 0~2147483647
name	String	Definition: Member group name Value range: N/A

Status code: 401**Table 4-961** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-962** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/projects/f11fc2c7ff0e429ab934a97faa6e9efa/protected-refs/user-groups

Example Responses

Status code: 200

OK

```
[ {  
  "id" : 220,  
  "name" : "hxbcr1024_1"  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.9.4 Obtaining the Member List in a Project

Function

This API is used to obtain the member list in a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/members

Table 4-963 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-964 Query Parameters

Parameter	Mandatory	Type	Description
query	No	String	Definition Member search string.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-965 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-966** Response body parameters

Parameter	Type	Description
[items]	Array of GrantedUsersDto objects	Definition: Member list.

Table 4-967 GrantedUsersDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username. Range 1–1,000 characters.

Parameter	Type	Description
name_cn	String	Definition Username in Chinese. Range 1–1,000 characters.
username	String	Definition IAM ID of the user. Range 1–1,000 characters.
nick_name	String	Definition User alias. Range 1–1,000 characters.
tenant_name	String	Definition Tenant name. Range 1–1,000 characters.
email	String	Definition Email address of the user. Range 1–1,000 characters.
iam_id	String	Definition IAM ID of the user. Range 1–1,000 characters.
service_license_status	Integer	Definition License status. Value range: 1~2147483647

Status code: 401**Table 4-968** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403

Table 4-969 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/members?offset=0&limit=20
```

Example Responses

Status code: 200

Obtain the member list in a project.

```
[ {
  "id" : 7574,
  "name" : "devcloud_codehub_l00314597_01",
  "name_cn" : null,
  "username" : "a618e34bd5704be3ae3395dfede06041",
  "nick_name" : "Tenant administrator",
  "tenant_name" : "devcloud_codehub_l00314597_01",
  "email" : "a618e34bd5704be3ae3395dfede06041@example.com",
  "iam_id" : "a618e34bd5704be3ae3395dfede06041",
  "service_license_status" : 1
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the member list in a project.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.9.5 Obtaining the Member Group List

Function

This API is used to obtain the member group list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/user-groups

Table 4-970 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-971 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	Definition Query keyword for fuzzy match, such as username, user alias, and tenant name.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-972 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-973 Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request.

Table 4-974 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryUserGroupDto objects	Repository member group details

Table 4-975 RepositoryUserGroupDto

Parameter	Type	Description
user_group_name	String	Definition Member group name. Constraints N/A.
user_group_id	String	Definition Member group ID. Constraints N/A.
project_id	String	Definition Project ID. Constraints N/A.
user_count	String	Definition Number of users in a member group. Constraints N/A.

Parameter	Type	Description
description	String	Definition Member group description. Constraints N/A.

Status code: 401**Table 4-976** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-977** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-978** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

Query the repository member list.

```
[ {  
  "member_group_name" : "Member group 1",  
  "member_group_id" : 10323,  
  "project_id" : "9ce763c569e54df38804944fe597ba72",  
  "description" : "test12",  
  "member_count" : 5  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "CH.00000001",  
  "error_msg" : "User authentication info not found."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.00401008",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.00402000",  
  "error_msg" : "The repository does not exist. Check and try again."  
}
```

Status Codes

Status Code	Description
200	Query the repository member list.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.9.6 Obtaining the Repository Member List

Function

This API is used to obtain repository members.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/members

Table 4-979 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-980 Query Parameters

Parameter	Mandatory	Type	Description
search	No	String	Definition Query keyword for fuzzy match, such as username, user alias, and tenant name.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
permission	No	String	Definition Permission point. Constraints • repository: indicates a repository. • code: indicates code. • member: indicates member. • branch: indicates branch. • tag: indicates tag. • mr: indicates MR. • label: indicates label. Enumeration values: • repository • code • member • branch • tag • mr • label

Parameter	Mandatory	Type	Description
action	No	String	Definition Permission action point. Different permission points have different actions. Constraints • repository:create,fork,delete,setting • code:push,download • member:create,update,delete • branch:create,delete • tag:create,delete • mr:create,update,comment,review,approve,merge,close,reopen • label:create,delete,update Enumeration values: • repository:create,fork,delete,setting • code:push,download • member:create,update,delete • branch:create,delete • tag:create,delete • mr:create,update,comment,review,approve,merge,close,reopen • label:create,delete,update

Request Parameters

Table 4-981 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-982** Response header parameters

Parameter	Type	Description
X-Total	String	Total number of results of the current request.

Table 4-983 Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryMemberDto objects	Repository member details

Table 4-984 RepositoryMemberDto

Parameter	Type	Description
user_id	Integer	User ID
user_iam_id	String	IAM user ID.

Parameter	Type	Description
user_name	String	Username
user_nick_name	String	User alias
tenant_name	String	Tenant name
tenant_id	String	Tenant ID
is_repo_creator	Integer	Repository owner or not Value range: 0~1
is_group_creator	Integer	Parent repository group owner or not Value range: 0~1
is_Project_admin	Integer	Project administrator or not Value range: 0~1
project_role_name	String	Project role name
repository_role_name	String	Repository role name
repository_role_id	String	Repository role ID
member_source	String	Name of the member group from which members come
member_group_source	String	Name of the upper-level repository group from which members come
member_source_id	String	Member source ID, which can be a repository group ID or member group ID
service_license_status	Integer	Member service-level permission status. 1: in use; 0: disabled Value range: 0~1
action_enabled	Boolean	Whether the member has the corresponding permission. true: yes; false: no

Status code: 401

Table 4-985 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-986 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-987 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

Query the repository member list.

```
[ {  
  "id" : "5765703695634b32a2ad0016d8938281",  
  "user_id" : 10323,  
  "user_iam_id" : "9ce763c569e54df38804944fe597ba72",  
  "user_name" : "test_name",  
}
```

```
"user_nick_name" : "test",
"tenant_name" : "tenant_example",
"tenant_id" : "159b65b41ead484d8ddff250a4731781",
"is_repo_creator" : 1,
"is_group_creator" : 0,
"is_Project_admin" : 1,
"project_role_name" : "Developer",
"repository_role_name" : "Developer",
"repository_role_id" : "4a6a226613c84c1199413983a63acf77",
"member_source" : "user group name",
"member_group_source" : "group name",
"member_source_id" : 2111842051,
"service_license_status" : 1,
"action_enabled" : true
}]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Query the repository member list.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.9.7 Adding Repository Members in Batches

Function

This API is used to add repository members in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/members

Table 4-988 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-989 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-990 Request body parameters

Parameter	Mandatory	Type	Description
users	Yes	Array of CreateRepositoryMemberDto objects	Definition Member information list.

Table 4-991 CreateRepositoryMemberDto

Parameter	Mandatory	Type	Description
user_iam_id	No	String	Definition IAM user ID Constraints N/A.
user_name	No	String	Definition Username. Constraints N/A.

Parameter	Mandatory	Type	Description
tenant_name	No	String	Definition Tenant name. Constraints • N/A.
tenant_id	No	String	Definition Tenant ID. Constraints • N/A.
repository_role_id	No	String	Definition Role ID. Constraints • N/A.

Response Parameters

Status code: 200

Table 4-992 Response body parameters

Parameter	Type	Description
[items]	Array of BatchCreateRepositoryMemberDto objects	Response to the request for creating members in batches.

Table 4-993 BatchCreateRepositoryMemberDto

Parameter	Type	Description
status	String	Definition Whether batch member addition is successful. Constraints • success: all members are added successfully. • error: not all members are added.

Parameter	Type	Description
result	Array of CreateRepositoryMemberResponseDto objects	Definition Batch addition result details. Constraints N/A.

Table 4-994 CreateRepositoryMemberResponseDto

Parameter	Type	Description
user_iam_id	String	Definition IAM user ID. Constraints N/A.
user_name	String	Definition Username. Constraints N/A.
tenant_name	String	Definition Tenant name. Constraints • N/A.
user_nick_name	String	Definition User alias. Constraints • N/A.
status	String	Definition Role ID. Constraints Constraints • success: adding succeeded. • error: adding failed.
message	String	Definition Member adding result. Constraints • N/A.

Status code: 401

Table 4-995 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-996** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-997** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/repositories/1/members
```

```
{
  "users" : [ {
    "user_iam_id" : "9ce763c569e54df38804944fe597ba72",
    "user_name" : "test_name",
    "repository_role_id" : "9ce763c569e54df38804944fe597ba72",
    "tenant_name" : "tenant_example",
    "tenant_id" : "159b65b41ead484d8ddff250a4731781"
  } ]
}
```

Example Responses

Status code: 200

Add repository members in batches.

```
{
  "result": [ {
    "user_iam_id": "9ce763c569e54df38804944fe597ba72",
    "user_name": "test_name",
    "user_nick_name": "nicekName",
    "tenant_name": "tenant_example",
    "status": "success",
    "message": "Members added."
  } ],
  "status": "success"
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "CH.00000001",
  "error_msg": "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code": "CH.00401008",
  "error_msg": "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code": "CH.00402000",
  "error_msg": "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Add repository members in batches.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.10 User

4.1.10.1 Obtaining the HTTPS Authentication Mode

Function

This API is used to obtain the HTTPS authentication mode.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/user/https-password-setting

Request Parameters

Table 4-998 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-999 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether to use the HTTPS authentication mode: true or false . Value range: 1 to 1,000 characters.

Status code: 401**Table 4-1000** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1001** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/user/https-password-setting
```

Example Responses

Status code: 200

Obtain the HTTPS authentication mode.

```
true
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the HTTPS authentication mode.
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.10.2 Changing the HTTPS Authentication Mode****Function**

This API is used to modify the HTTPS authentication mode.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/user/https-password-setting

Request Parameters

Table 4-1002 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1003 Request body parameters

Parameter	Mandatory	Type	Description
https_clone_iam_auth	No	String	Definition: Whether to use the HTTPS authentication mode: true or false . Value range: 1 to 1,000 characters.

Response Parameters

Status code: 200

Table 4-1004 Response body parameters

Parameter	Type	Description
-	String	Definition: Whether to use the HTTPS authentication mode: true or false . Value range: 1 to 1,000 characters.

Status code: 401**Table 4-1005** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/user/https-password-setting
{
  "https_clone_iam_auth" : false
}
```

Example Responses**Status code: 200**

OK

success

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error CodesSee [Error Codes](#).

4.1.10.3 Adding an SSH Public Key

Function

This API is used to add an SSH public key.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/user/keys

Request Parameters

Table 4-1006 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1007 Request body parameters

Parameter	Mandatory	Type	Description
title	No	String	Definition Title. Range 1–1,000 characters.

Parameter	Mandatory	Type	Description
key	No	String	Definition Key. Range 1–1,000 characters.

Response Parameters

Status code: 201

Table 4-1008 Response body parameters

Parameter	Type	Description
id	Integer	Definition: Key ID Value range: 1~2147483647
title	String	Definition: Secret name Value range: 1–1,000 characters.
key	String	Definition Public key. Range 1–1,000 characters.
created_at	String	Definition Creation time. Range 1–1,000 characters.

Status code: 401

Table 4-1009 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/user/keys
{
  "key" : null,
  "title" : 12312
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 2112483822,
  "title" : 12312,
  "key" : null,
  "created_at" : "2025-06-16T03:05:58.000+08:00"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.10.4 Deleting an SSH Public Key

Function

This API is used to delete an SSH public key.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/user/keys/{key_id}

Table 4-1010 Path Parameters

Parameter	Mandatory	Type	Description
key_id	Yes	Integer	Definition Resource ID, which is the ID in the data obtained from the API for obtaining the repository group permission resource point list. Value range: 1~2147483647

Request Parameters

Table 4-1011 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 401**Table 4-1012** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
DELETE https://{endpoint}/v4/user/keys/{key_id}
```

Example Responses

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.10.5 Obtaining the Personal Access Token of a User

Function

This API is used to obtain the personal access token of a user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/users/impersonation-tokens

Table 4-1013 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-1014 Query Parameters

Parameter	Mandatory	Type	Description
state	No	String	Definition: Status. all: all; active: active; inactive: inactive. Default value: all Enumeration values: • all • active • inactive
search	No	String	Definition Search content. Default value: false
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1015 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1016 Response body parameters

Parameter	Type	Description
[items]	Array of ImpersonationToken objects	This feature was introduced in 9.0

Table 4-1017 ImpersonationToken

Parameter	Type	Description
id	Integer	Definition: Unique ID Value range: 1~2147483647
name	String	Definition: Name. Value range: 1 to 1,000 characters.
revoked	Boolean	Definition: Cancel or not.
created_at	String	Definition: Creation time. Value range: 1 to 1,000 characters.
scopes	Array of strings	Definition: Scope permission. Value range: 0 to 1,000 characters.
active	Boolean	Definition: Whether it is available.
expires_at	String	Definition: Expiration time. Value range: 1 to 1,000 characters.
impersonation	Boolean	Definition: Whether the token is a personal token.
description	String	Definition: Description. Value range: 1 to 1,000 characters.

Status code: 401

Table 4-1018 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1019** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/users/impersonation-tokens?offset=0&limit=20
```

Example Responses

Status code: 200

Obtain the personal access token of a user.

```
[ {  
  "id" : 27169,  
  "name" : "ss",  
  "revoked" : false,  
  "created_at" : "2025-02-28T17:04:03.000+08:00",  
  "scopes" : [ "download\push" ],  
  "active" : false,  
  "expires_at" : "2025-03-30T00:00:00.000+08:00",  
  "impersonation" : true,  
  "description" : null  
} ]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the personal access token of a user.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.10.6 Obtaining Permissions in the Repository Group List Specified by the Current User

Function

This API is used to obtain permissions of the repository group list specified by the current user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/user/groups/group-permissions

Request Parameters

Table 4-1020 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1021 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of GroupPermissionsDto objects	Definition: Repository group permission list

Table 4-1022 GroupPermissionsDto

Parameter	Mandatory	Type	Description
project_id	No	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
group_name	No	String	Definition: Repository group name Value range: 1–1,000 characters.

Parameter	Mandatory	Type	Description
group_id	No	String	Definition: Definition: Repository group ID, which is the numeric ID next to Group ID on the repository group homepage.

Response Parameters

Status code: 201

Table 4-1023 Response body parameters

Parameter	Type	Description
[items]	Array of UserGroupPermissionDto objects	Definition: Repository group permission list

Table 4-1024 UserGroupPermissionDto

Parameter	Type	Description
can_create_group	Boolean	Definition: Whether a repository group can be created.
can_craete_project	Boolean	Definition: Whether a repository can be created.
can_set_group	Boolean	Definition: Whether a repository group can be set.
group_id	Integer	Definition: Repository group ID Value range: 1~2147483647
group_visibility	String	Definition: Visibility. The value can be private or public.

Status code: 401

Table 4-1025 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/user/email-verify-code
```

```
[ {  
  "group_id" : 2111927182  
}]
```

Example Responses

Status code: 201

OK

```
[ {  
  "can_create_group" : true,  
  "can_create_project" : true,  
  "can_set_group" : true,  
  "group_id" : 2111927182,  
  "group_visibility" : "private"  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.10.7 Obtaining the `gpg_key` List of the Current User

Function

This API is used to obtain the **gpg_key** list of the current user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/user/gpg-keys

Table 4-1026 Query Parameters

Parameter	Mandatory	Type	Description
query	No	String	Definition Title of the key. Range 1–2,000 characters.

Request Parameters

Table 4-1027 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1028 Response body parameters

Parameter	Type	Description
id	Integer	Definition Record ID. Value range: 1~2147483647
created_at	String	Definition Creation time. Range 1-1,000 characters.
emails_with_verified_status	Map<String, Boolean>	Definition Parsed email address list and whether it takes effect.
fingerprint	String	Definition Fingerprint format of the primary private/public key. Range 1-1,000 characters.
key	String	Definition GPG public key. Range 1-1,000 characters.
description	String	Definition Description. Range 1-1,000 characters.
title	String	Definition Title of the GPG key. Range 1-1,000 characters.
primary_keyid	String	Definition ID of the primary key or public key. Range 1-1,000 characters.

Parameter	Type	Description
active	Boolean	Definition Whether this function takes effect.
subkeys	Array of GpgSubKeyDto objects	Definition Subkey list. Range 0–1,000 characters.

Table 4-1029 GpgSubKeyDto

Parameter	Type	Description
id	Integer	Definition ID of the sub-public key. Value range: 1~2147483647
fingerprint	String	Definition Fingerprint format of the sub-public key. Range 1–1,000 characters.
gpg_key_id	Integer	Definition gpg_key ID. Value range: 1~2147483647
keyid	String	Definition: Subkey ID Value range: 1–1,000 characters.

Status code: 401**Table 4-1030** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403**Table 4-1031** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1032** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/user/gpg-keys
```

Example Responses

Status code: 200

Obtain the **gpg_key** list of the current user.

```
{
  "id" : 116,
  "created_at" : "2025-04-09T17:37:49.000+08:00",
  "emails_with_verified_status" : {
    "1@email.com" : false
  },
  "fingerprint" : "---",
  "key" : "-----",
  "description" : "---",
  "title" : "test_gpg",
  "primary_keyid" : "---",
  "active" : true,
```

```
"subkeys" : [ {  
  "id" : 159,  
  "fingerprint" : "---",  
  "gpg_key_id" : 116,  
  "keyid" : "---"  
}]  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.004404",  
  "error_msg" : "Group Not Found. Group Not Found"  
}
```

Status Codes

Status Code	Description
200	Obtain the gpg_key list of the current user.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.10.8 Obtaining the Key List of the Current User

Function

This API is used to obtain the key list of the current user.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/user/keys

Table 4-1033 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
query	No	String	Definition Title of the key. Range 1–2,000 characters.

Request Parameters

Table 4-1034 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1035** Response body parameters

Parameter	Type	Description
keys	Array of SSHKeyDto objects	Definition Key list. Range 0–1,000 characters.
total	Integer	Definition Number of results. Value range: 1~2147483647

Table 4-1036 SSHKeyDto

Parameter	Type	Description
id	Integer	Definition: Key ID Value range: 1~2147483647
title	String	Definition: Secret name Value range: 1~1,000 characters.
key	String	Definition Public key. Range 1~1,000 characters.
created_at	String	Definition Creation time. Range 1~1,000 characters.

Status code: 401

Table 4-1037 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1038 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/user/keys
```

Example Responses

Status code: 200

Obtain the key list of the current user.

```
{
  "keys": [ {
    "id": 2111842119,
    "title": "lssh",
    "key": "ssh-rsa AAAAB3...",
    "created_at": "2022-12-14T11:22:57.000+08:00"
  } ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "DEV.00000003",
  "error_msg": "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code": "CH.004403",
  "error_msg": "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	Obtain the key list of the current user.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.10.9 Sending Email Verification Code

Function

This API is used to send an email verification code.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/user/email-verify-code

Request Parameters

Table 4-1039 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1040 Request body parameters

Parameter	Mandatory	Type	Description
email	No	String	Definition Email address. Range 1–1,000 characters.

Parameter	Mandatory	Type	Description
verify_code	No	String	Definition Verification code. Range 1–1,000 characters.

Response Parameters

Status code: 201

Table 4-1041 Response body parameters

Parameter	Type	Description
result	String	Definition Result of sending an email verification code. Range 1–1,000 characters.

Status code: 401

Table 4-1042 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/user/email-verify-code
{
  "email" : "11@email.com"
}
```

Example Responses

Status code: 201

OK

```
{  
  "result" : "Verification Code Sent"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.10.10 Updating an Email Address****Function**

This API is used to update an email address.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/user/emails

Request Parameters

Table 4-1043 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1044 Request body parameters

Parameter	Mandatory	Type	Description
email	No	String	Definition Email address. Range 1–1,000 characters.
verify_code	No	String	Definition Verification code. Range 1–1,000 characters.

Response Parameters

Status code: 200

Table 4-1045 Response body parameters

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username. Range 1–1,000 characters.
username	String	Definition Long user ID. Range 1–1,000 characters.
state	String	Definition: User status. active: active user; blocked: locked user Default value: active Enumeration values: • active • blocked
created_at	String	Definition Creation time. Range 1–1,000 characters.
updated_at	String	Definition Update time. Range 1–1,000 characters.
last_activity_on	String	Definition Last active time. Range 1–1,000 characters.
commit_email	String	Definition Commit email. Range 1–1,000 characters.

Status code: 401**Table 4-1046** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/user/emails
{
  "email" : "11@email.com",
  "verify_code" : "SFLAJA"
}
```

Example Responses**Status code: 200**

OK

```
{
  "id" : 21820,
  "name" : "tr8",
  "username" : "ac105e52a4764a4c8f29b306508f016d",
  "state" : "active",
  "created_at" : "2025-03-27T14:17:11.000+08:00",
  "updated_at" : "2025-05-20T15:42:31.351+08:00",
  "last_activity_on" : "2025-05-17",
  "commit_email" : "1@email.com"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.10.11 Obtaining User Email Information

Function

This API is used to obtain user email information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/user/emails

Request Parameters

Table 4-1047 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1048 Response body parameters

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username. Range 1–1,000 characters.
username	String	Definition Long user ID. Range 1–1,000 characters.
state	String	Definition: User status. active: active user; blocked: locked user Default value: active Enumeration values: • active • blocked
created_at	String	Definition Creation time. Range 1–1,000 characters.
updated_at	String	Definition Update time. Range 1–1,000 characters.
last_activity_on	String	Definition Last active time. Range 1–1,000 characters.
commit_email	String	Definition Commit email. Range 1–1,000 characters.

Status code: 401**Table 4-1049** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1050** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/user/emails
```

Example Responses

Status code: 200

Obtain user email information.

```
{
  "id" : 21820,
  "name" : "tr8",
  "username" : "ac105e52a4764a4c8f29b306508f016d",
  "state" : "active",
  "created_at" : "2025-03-27T14:17:11.000+08:00",
  "updated_at" : "2025-05-20T15:42:31.351+08:00",
  "last_activity_on" : "2025-05-17",
  "commit_email" : "1@email.com"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
}
```

```
{  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	Obtain user email information.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11 MergeRequest

4.1.11.1 Obtaining the Latest Pipeline Associated with a Merge Request

Function

This API is used to obtain the latest pipeline associated with a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/actual-head-pipeline

Table 4-1051 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1052 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1053 Response body parameters

Parameter	Type	Description
data	PipelineDetailDto object	Pipeline details
is_valid	Boolean	Whether the latest commit has a corresponding pipeline

Table 4-1054 PipelineDetailDto

Parameter	Type	Description
id	Integer	Pipeline ID Value range: 1~2147483647
web_url	String	Pipeline link
sha	String	commit id
ref	String	Branch
status	String	Pipeline status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout
created_at	String	Pipeline creation time
updated_at	String	Pipeline update time
started_at	String	Pipeline start time
finished_at	String	Pipeline end time
repository_id	Integer	Repository ID Value range: 1~2147483647
is_invalid	Boolean	Whether the pipeline is invalid

Parameter	Type	Description
type	String	Pipeline type. MERGE REQUEST indicates that the pipeline is triggered by an MR Enumeration values: • MERGE REQUEST
stages	Array of PipelineStageDto objects	Phase information
is_latest	Boolean	The latest pipeline or not.
trigger_user	String	Triggered user
all_job_finished	Boolean	Whether all jobs are complete

Table 4-1055 PipelineStageDto

Parameter	Type	Description
id	Integer	Stage ID Value range: 1~2147483647
repository_id	Integer	Repository ID Value range: 1~2147483647
pipeline_id	Integer	Pipeline ID Value range: 1~2147483647
name	String	Stage name
sort_id	Integer	Phase sequence ID Value range: 1~2147483647

Parameter	Type	Description
status	String	Stage status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout

Status code: 401**Table 4-1056** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1057** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/2111976239/merge-requests/6/actual-head-pipeline
```

Example Responses

Status code: 200

OK

```
{
  "is_valid" : true,
  "data" : {
    "id" : 8125,
    "web_url" : "https://example.com/72271b5446614062a01b8be944c9f372/hxb11222/pipelines/8125",
    "sha" : "5167228a3d13f9d59f969104c6fc4dbb38f7b5cc",
    "ref" : "master",
    "status" : "failed",
    "created_at" : "2024-12-12T20:47:46.000+08:00",
    "updated_at" : "2024-12-12T20:47:47.000+08:00",
    "started_at" : "2024-12-12T20:47:47.000+08:00",
    "finished_at" : "2024-12-12T20:47:47.000+08:00",
    "repository_id" : 2111976239,
    "is_invalid" : null,
    "type" : "MERGE REQUEST",
    "stages" : [ {
      "id" : 12625,
      "repository_id" : 2111976239,
      "pipeline_id" : 8125,
      "name" : "CodeArtsCheck",
      "sort_id" : null,
      "status" : "failed"
    } ],
    "is_latest" : true,
    "trigger_user" : null,
    "all_job_finished" : true
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
404	Not Found

Error Codes

See [Error Codes](#).

4.1.11.2 Obtaining the Merge Request Score

Function

This API is used to obtain the merge request score.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/votes

Table 4-1058 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1059 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1060** Response body parameters

Parameter	Type	Description
scores	Integer	Definition Total score of all scorers. Value range: -2147483648~2147483647
merge_request_id	Integer	Definition MR ID. Value range: 1~2147483647
merge_request_creator	String	Definition MR author name.
votes	Array of MergeRequestVotesDto objects	Definition Score details of a scorer.

Table 4-1061 MergeRequestVotesDto

Parameter	Type	Description
id	Integer	Definition Scoring record ID. Value range: 1~2147483647
score	Integer	Definition Score. Value range: -2~2
author_name	String	Definition Author.
author_username	String	Definition Author username.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
last_committed_id	String	Definition ID of the last commit record.
author_id	Integer	Definition Author ID.
avatar_url	String	Definition Author profile picture URL.
nick_name	String	Definition Author alias.
tenant_name	String	Definition Author tenant name.

Status code: 401

Table 4-1062 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "scores" : -1,
  "merge_request_id" : 3276215,
  "merge_request_creator" : "zhangsan",
  "votes" : [ {
    "id" : 801569,
    "score" : 1,
    "author_name" : "example_name",
    "author_username" : "example_name",
    "created_at" : "2025-06-10T17:22:44.249+08:00",
    "updated_at" : "2025-06-10T17:22:44.249+08:00",
    "last_committed_id" : "709acacadc93b51470441375209278276c93af92",
    "author_id" : 57858,
    "avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/example_name/120"
  }, {
    "id" : 801568,
    "score" : -2,
    "author_name" : "zhangsan",
    "author_username" : "ex",
    "created_at" : "2025-06-10T17:22:26.008+08:00",
    "updated_at" : "2025-06-10T17:22:26.008+08:00",
    "last_committed_id" : "709acacadc93b51470441375209278276c93af92",
    "author_id" : 84986,
    "avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/ex/120"
  } ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.3 Updating the Merge Request Score

Function

This API is used to update the merge request score.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/vote

Table 4-1063 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1064 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1065 Request body parameters

Parameter	Mandatory	Type	Description
score	No	Integer	Definition Score. Value range: -2~2
action	No	String	Definition Operation type. (If the same score is invoked again, the score will be deleted. If vote is transferred, the score will not be deleted.) Enumeration values: • vote

Response Parameters

Status code: 200

Table 4-1066 Response body parameters

Parameter	Type	Description
id	Integer	Definition Scoring record ID. Value range: 1~2147483647
merge_request_id	Integer	Definition MR ID. Value range: 1~2147483647
score	Integer	Definition Score. Value range: -2~2
author	UserSafeDto object	Definition Scoring user information.

Table 4-1067 UserSafeDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Status code: 401**Table 4-1068** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/merge-requests/123/vote
```

```
{  
  "score" : 1,  
  "action" : "vote"  
}
```

Example Responses

Status code: 200

OK

```
{  
  "id" : 330,  
  "merge_request_id" : 6273,  
  "score" : 1,  
  "author" : {  
    "id" : 9124,  
    "name" : "dev_test",  
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c"  
  }  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.4 Deleting a Merge Request Score

Function

This API is used to delete a merge request score.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/vote

Table 4-1069 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1070 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 400**Table 4-1071** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1072** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405030",
  "error_msg" : "Merge requests cannot be scored under the approval mechanism."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
204	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.5 Obtaining MR Details

Function

This API is used to obtain merge request details.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}

Table 4-1073 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1074 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1075** Response body parameters

Parameter	Type	Description
id	Integer	MR ID
iid	Integer	MR IID
repository_id	Integer	Target repository ID
title	String	MR title
description	String	MR description
state	String	MR status
created_at	String	Creation time
updated_at	String	Update time.
source_branch	String	Source branch
target_branch	String	Target branch
is_source_branch_protected	Boolean	Whether the source branch is a protected branch

Parameter	Type	Description
devcloud_source_branch	String	Source branch
author	UserBasicExternalDto object	Author
source_repository_id	Integer	Source repository ID
target_repository_id	Integer	Target repository ID
source_project_id	String	Source project ID
target_project_id	String	Target project ID
labels	Array of objects	Label
work_in_progress	Boolean	Work in progress (WIP)
milestone	MilestoneBasicDto object	Milestone
merge_when_build_succeeds	Boolean	Automatically merged when the pipeline is successful
merge_status	String	Mergeable status
sha	String	Latest commit of the current MR
merge_commit_sha	String	Merge commit node
subscribed	Boolean	Subscription
merged_by	UserBasicExternalDto object	Merger
merged_at	String	Merge time
closed_by	UserBasicExternalDto object	Closer
closed_at	String	Close time
user_notes_count	Integer	Number of review comments
force_remove_source_branch	Boolean	Delete source branch after merge
web_url	String	Homepage URL
merge_request_diff	MergeRequestDiffExternalDto object	MR diff

Parameter	Type	Description
merge_request_reviewers_count	Integer	Number of scorers
merge_request_review_count	Integer	Scoring
merge_request_reviewer_list	Array of MergeRequestReviewerExternalDto objects	Scorer list
merge_request_as_signee_list	Array of UserBasicExternalDto objects	Merger list
notes	Integer	Review comment
codecheck_state	Integer	Code check status
codecheck_defect_count	Integer	Code check issues
merge_request_related_work_items	Array of MergeRequestRelatedWorkItemDto objects	Number of associated tickets of an MR
diverged_commits_count	Integer	Number of commits that a source branch is behind
moderation_result	Boolean	Approving result
moderation_time	Long	Timestamp of approving submission Value range: 1~9223372036854775807
moderation_statuses	Integer	Approving status code Value range: 1~2147483647
is_use_temp_branch	Boolean	Use temporary branch or not
review_mode	String	Review mode
squash	Boolean	Squash merge
approval_merge_request_approvers	Array of ApprovalUserDto objects	Approver in the approval mode
approval_merge_request_reviewers	Array of ApprovalUserDto objects	Reviewer in the approval mode

Parameter	Type	Description
source_repository	ProjectSimpleDto object	Source repository
target_repository	ProjectSimpleDto object	Target repository
is_source_branch_exist	Boolean	Source branch exists
merge_request_type	String	MR type
squash_commit_message	String	Squash commit information
auto_merge	Boolean	Auto merge
merge_error	String	Original MR error information
json_merge_error	MergeErrorDto object	MR error information
rebase_in_progress	Boolean	Whether rebase is in progress

Table 4-1076 MilestoneBasicDto

Parameter	Type	Description
id	Integer	Milestone ID Value range: 1~2147483647
iid	Integer	Milestone IID Value range: 1~2147483647
repository_id	Integer	Repository ID. Value range: 1~2147483647
title	String	Milestone title
description	String	Milestone description
state	String	Status
created_at	String	Creation time
updated_at	String	Update time.
due_date	String	Expiration time

Parameter	Type	Description
start_date	String	Start time
repository_path	String	Repository path
web_url	String	Homepage URL

Table 4-1077 UserBasicExternalDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
name	String	Name
username	String	Username
state	String	Status
avatar_url	String	Profile picture URL
web_url	String	Homepage URL
nick_name	String	User alias
tenant_name	String	Tenant name

Table 4-1078 MergeRequestDiffExternalDto

Parameter	Type	Description
id	Integer	Diff ID of an MR Value range: 1~2147483647
state	String	Status
merge_request_id	Integer	MR ID Value range: 1~2147483647
created_at	String	Creation time
updated_at	String	Update time.
base_commit_sha	String	Base commit node
real_size	String	Number of diff files

Parameter	Type	Description
head_commit_sha	String	Head commit node
start_commit_sha	String	Start commit node
commits_count	Integer	Number of commits Value range: 1~2147483647
external_diff	String	External diff file
external_diff_store	Integer	External difference storage Value range: 1~2147483647
stored_externally	Boolean	External storage or not
added_lines	Integer	Number of new lines Value range: 0~2147483647
removed_lines	Integer	Number of deleted lines Value range: 0~2147483647

Table 4-1079 MergeRequestReviewerExternalDto

Parameter	Type	Description
id	Integer	Scorer ID Value range: 1~2147483647
username	String	Scorer name
name	String	Scorer name
nick_name	String	Scorer alias
state	Boolean	Scorer status
score	Integer	Scoring Value range: -2~2
tenant_name	String	Tenant name

Table 4-1080 MergeRequestRelatedWorkItemDto

Parameter	Type	Description
id	Integer	Association ID Value range: 1~2147483647
user_id	String	User ID
repo_id	Integer	Repository ID Value range: 1~2147483647
merge_request_id	Integer	MR ID Value range: 1~2147483647
target_branch	String	Target branch
source_branch	String	Source branch
merge_request_title	String	MR title
merge_request_url	String	MR URL
merge_request_state	String	MR status
related_id	String	Associated ticket ID
related_title	String	Associated ticket title
related_url	String	Associated ticket URL
result	Integer	Association result
message	String	Association result information
create_at	String	Creation time
update_at	String	Update time.
subject	String	Topic
tracker	Object	Ticket follower
status	Object	Status

Table 4-1081 ApprovalUserDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
username	String	Username
name	String	Username
nick_name	String	User alias
name_cn	String	Name (CN)
email	String	Email
state	String	Status
updated_at	String	Update time
avatar_url	String	Profile picture URL
tenant_name	String	Tenant name
approver_comment	String	Approving comments

Table 4-1082 ProjectSimpleDto

Parameter	Type	Description
id	Integer	Repository ID.
description	String	Repository description
name	String	Repository name
name_with_name space	String	Organization name/Organization name.../Repository name
path	String	Repository path
path_with_names pace	String	Complete repository path
created_at	String	Creation time
updated_at	String	Update time.
archived	Boolean	Archived or not
is_kia	Boolean	Confidential or not
ssh_url_to_repo	String	Repository SSH address

Parameter	Type	Description
http_url_to_repo	String	Repository HTTP address
web_url	String	Repository page link
readme_url	String	Link to the readme file of the repository
project_id	String	Project ID
project_name	String	Project name
develop_mode	String	Repository development modes: normal and CR
moderation_result	Boolean	Approving status

Table 4-1083 MergeErrorDto

Parameter	Type	Description
merge_user_name	String	Merger name
merge_start_time	String	Merge time
error_title	String	Error title
http_code_status	String	Status code
error_code	String	Error code
error_message	String	Error message

Status code: 401**Table 4-1084** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-1085 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : 47858,
  "iid" : 1,
  "repository_id" : 2111983939,
  "title" : "Create file d",
  "description" : "merge \"ddd\" into \"master\"\nCreate file d",
  "state" : "opened",
  "created_at" : "2024-11-30T17:47:53.000+08:00",
  "updated_at" : "2025-03-06T17:43:39.000+08:00",
  "source_branch" : "ddd",
  "target_branch" : "master",
  "is_source_branch_protected" : false,
  "devcloud_source_branch" : "ddd",
  "author" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : "",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "dev",
    "tenant_name" : "example_name"
  },
  "source_repository_id" : 2111983939,
  "target_repository_id" : 2111983939,
  "source_project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
  "target_project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
  "labels" : [ ],
  "work_in_progress" : false,
  "milestone" : null,
  "merge_when_build_succeeds" : false,
  "merge_status" : "can_be_merged",
  "sha" : "4f14849504009dd415b288f7ab21420933ecb516",
  "merge_commit_sha" : null,
  "subscribed" : true,
  "merged_by" : null,
  "merged_at" : null,
  "closed_by" : null,
  "closed_at" : null,
  "user_notes_count" : 0,
  "force_remove_source_branch" : false,
  "web_url" : "https://example.com/*****/2111983939/1/mergedetail?source=ddd&target=master",
}
```

```
"merge_request_diff" : {
  "id" : 70760,
  "state" : "collected",
  "merge_request_id" : 47858,
  "created_at" : "2024-11-30T17:47:53.000+08:00",
  "updated_at" : "2024-11-30T17:47:53.000+08:00",
  "base_commit_sha" : "c4f7b1bed9a869f64c90050311fad29ad4e40eb4",
  "real_size" : "1",
  "head_commit_sha" : "4f14849504009dd415b288f7ab21420933ecb516",
  "start_commit_sha" : "c4f7b1bed9a869f64c90050311fad29ad4e40eb4",
  "commits_count" : 1,
  "external_diff" : "diff-70760",
  "external_diff_store" : 1,
  "stored_externally" : true,
  "added_lines" : 1,
  "removed_lines" : 0
},
"merge_request_reviewers_count" : 0,
"merge_request_review_count" : 0,
"merge_request_reviewer_list" : [ ],
"merge_request_assignee_list" : [ ],
"notes" : 0,
"codecheck_state" : 7,
"codecheck_defect_count" : 0,
"merge_request_related_work_items" : [ ],
"diverged_commits_count" : 6,
"moderation_result" : true,
"moderation_time" : 0,
"moderation_status" : 0,
"is_use_temp_branch" : false,
"review_mode" : "approval",
"squash" : false,
"approval_merge_request_approvers" : [ ],
"approval_merge_request_reviewers" : [ ],
"source_repository" : {
  "id" : 2111983939,
  "description" : "ddd",
  "name" : "dddd",
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / dddd",
  "path" : "dddd",
  "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "created_at" : "2024-11-30T17:46:46.000+08:00",
  "updated_at" : "2024-11-30T17:46:46.000+08:00",
  "archived" : false,
  "is_kia" : false,
  "ssh_url_to_repo" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "http_url_to_repo" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "web_url" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "readme_url" : null,
  "project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
  "project_name" : null,
  "develop_mode" : "normal",
  "moderation_result" : true
},
"target_repository" : {
  "id" : 2111983939,
  "description" : "ddd",
  "name" : "dddd",
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / dddd",
  "path" : "dddd",
  "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "created_at" : "2024-11-30T17:46:46.000+08:00",
  "updated_at" : "2024-11-30T17:46:46.000+08:00",
  "archived" : false,
  "is_kia" : false,
  "ssh_url_to_repo" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "http_url_to_repo" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "web_url" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "readme_url" : null,
```

```
{
  "project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
  "project_name" : null,
  "develop_mode" : "normal",
  "moderation_result" : true
},
"is_source_branch_exist" : true,
"merge_request_type" : "MergeRequest",
"squash_commit_message" : null,
"auto_merge" : false,
"merge_error" : null,
"json_merge_error" : null,
"rebase_in_progress" : false
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
404	Not Found

Error Codes

See [Error Codes](#).

4.1.11.6 Updating a Merge Request

Function

This API is used to update a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}

Table 4-1086 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1087 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1088 Request body parameters

Parameter	Mandatory	Type	Description
title	No	String	MR title
state_event	No	String	MR status Enumeration values: • reopen • close
assignee_ids	No	String	Merger ID list
reviewer_ids	No	String	Scorer ID list
description	No	String	MR description
milestone_id	No	Integer	Milestone ID
labels	No	Object	Label
force_remove_source_branch	No	Boolean	Delete source branch after merge
squash	No	Boolean	Squash merge
squash_commit_message	No	String	Squash commit information
work_item_ids	No	Array of strings	E2E ticket number

Response Parameters

Status code: 200

Table 4-1089 Response body parameters

Parameter	Type	Description
id	Integer	MR ID
iid	Integer	MR IID
repository_id	Integer	Target repository ID
title	String	MR title
description	String	MR description
state	String	MR status
created_at	String	Creation time
updated_at	String	Update time.

Parameter	Type	Description
source_branch	String	Source branch
target_branch	String	Target branch
is_source_branch_protected	Boolean	Whether the source branch is a protected branch
devcloud_source_branch	String	Source branch
author	UserBasicExternalDto object	Author
source_repository_id	Integer	Source repository ID
target_repository_id	Integer	Target repository ID
source_project_id	String	Source project ID
target_project_id	String	Target project ID
labels	Array of objects	Label
work_in_progress	Boolean	Work in progress (WIP)
milestone	MilestoneBasicDto object	Milestone
merge_when_build_succeeds	Boolean	Automatically merged when the pipeline is successful
merge_status	String	Mergeable status
sha	String	Latest commit of the current MR
merge_commit_sha	String	Merge commit node
subscribed	Boolean	Subscription
merged_by	UserBasicExternalDto object	Merger
merged_at	String	Merge time
closed_by	UserBasicExternalDto object	Closer
closed_at	String	Close time
user_notes_count	Integer	Number of review comments
force_remove_source_branch	Boolean	Delete source branch after merge

Parameter	Type	Description
web_url	String	Homepage URL
merge_request_diff	MergeRequestDiffExternalDto object	MR diff
merge_request_reviewers_count	Integer	Number of scorers
merge_request_review_count	Integer	Scoring
merge_request_reviewer_list	Array of MergeRequestReviewerExternalDto objects	Scorer list
merge_request_as_signee_list	Array of UserBasicExternalDto objects	Merger list
notes	Integer	Review comment
codecheck_state	Integer	Code check status
codecheck_defect_count	Integer	Code check issues
merge_request_related_work_items	Array of MergeRequestRelatedWorkItemDto objects	Number of associated tickets of an MR
diverged_commits_count	Integer	Number of commits that a source branch is behind
moderation_result	Boolean	Approving result
moderation_time	Long	Timestamp of approving submission Value range: 1~9223372036854775807
moderation_statuses	Integer	Approving status code Value range: 1~2147483647
is_use_temp_branch	Boolean	Use temporary branch or not
approval_merge_request_approvers	Array of ApprovalUserDto objects	Approver

Parameter	Type	Description
review_mode	String	MR mode Enumeration values: • vote • approval
squash	Boolean	Squash merge
squash_commit_message	String	Squash commit information
rebase_in_progress	Boolean	Whether rebase is in progress
source_repository	ProjectSimpleDto object	Source repository
target_repository	ProjectSimpleDto object	Target repository
is_source_branch_exists	Boolean	Whether the source branch exists
merge_request_type	String	MR type

Table 4-1090 MilestoneBasicDto

Parameter	Type	Description
id	Integer	Milestone ID Value range: 1~2147483647
iid	Integer	Milestone IID Value range: 1~2147483647
repository_id	Integer	Repository ID. Value range: 1~2147483647
title	String	Milestone title
description	String	Milestone description
state	String	Status
created_at	String	Creation time
updated_at	String	Update time.

Parameter	Type	Description
due_date	String	Expiration time
start_date	String	Start time
repository_path	String	Repository path
web_url	String	Homepage URL

Table 4-1091 UserBasicExternalDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
name	String	Name
username	String	Username
state	String	Status
avatar_url	String	Profile picture URL
web_url	String	Homepage URL
nick_name	String	User alias
tenant_name	String	Tenant name

Table 4-1092 MergeRequestDiffExternalDto

Parameter	Type	Description
id	Integer	Diff ID of an MR Value range: 1~2147483647
state	String	Status
merge_request_id	Integer	MR ID Value range: 1~2147483647
created_at	String	Creation time
updated_at	String	Update time.
base_commit_sha	String	Base commit node

Parameter	Type	Description
real_size	String	Number of diff files
head_commit_sha	String	Head commit node
start_commit_sha	String	Start commit node
commits_count	Integer	Number of commits Value range: 1~2147483647
external_diff	String	External diff file
external_diff_store	Integer	External difference storage Value range: 1~2147483647
stored_externally	Boolean	External storage or not
added_lines	Integer	Number of new lines Value range: 0~2147483647
removed_lines	Integer	Number of deleted lines Value range: 0~2147483647

Table 4-1093 MergeRequestReviewerExternalDto

Parameter	Type	Description
id	Integer	Scorer ID Value range: 1~2147483647
username	String	Scorer name
name	String	Scorer name
nick_name	String	Scorer alias
state	Boolean	Scorer status
score	Integer	Scoring Value range: -2~2
tenant_name	String	Tenant name

Table 4-1094 MergeRequestRelatedWorkItemDto

Parameter	Type	Description
id	Integer	Association ID Value range: 1~2147483647
user_id	String	User ID
repo_id	Integer	Repository ID Value range: 1~2147483647
merge_request_id	Integer	MR ID Value range: 1~2147483647
target_branch	String	Target branch
source_branch	String	Source branch
merge_request_title	String	MR title
merge_request_url	String	MR URL
merge_request_state	String	MR status
related_id	String	Associated ticket ID
related_title	String	Associated ticket title
related_url	String	Associated ticket URL
result	Integer	Association result
message	String	Association result information
create_at	String	Creation time
update_at	String	Update time.
subject	String	Topic
tracker	Object	Ticket follower
status	Object	Status

Table 4-1095 ApprovalUserDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
username	String	Username
name	String	Username
nick_name	String	User alias
name_cn	String	Name (CN)
email	String	Email
state	String	Status
updated_at	String	Update time
avatar_url	String	Profile picture URL
tenant_name	String	Tenant name
approver_comment	String	Approving comments

Table 4-1096 ProjectSimpleDto

Parameter	Type	Description
id	Integer	Repository ID.
description	String	Repository description
name	String	Repository name
name_with_name space	String	Organization name/Organization name.../Repository name
path	String	Repository path
path_with_names pace	String	Complete repository path
created_at	String	Creation time
updated_at	String	Update time.
archived	Boolean	Archived or not
is_kia	Boolean	Confidential or not
ssh_url_to_repo	String	Repository SSH address

Parameter	Type	Description
http_url_to_repo	String	Repository HTTP address
web_url	String	Repository page link
readme_url	String	Link to the readme file of the repository
project_id	String	Project ID
project_name	String	Project name
develop_mode	String	Repository development modes: normal and CR
moderation_result	Boolean	Approving status

Status code: 401**Table 4-1097** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/merge-requests/123  
  
{  
  "title" : "test-title",  
  "state_event" : "reopen",  
  "assignee_ids" : "111,222",  
  "reviewer_ids" : "111,222",  
  "description" : "test-desc",  
  "milestone_id" : 111,  
  "labels" : "222,333",  
  "force_remove_source_branch" : true,  
  "squash" : "Squash commit message",  
  "work_item_ids" : [ "US123456", "US456789" ]  
}
```

Example Responses**Status code: 200**

OK

```
{  
  "id" : 1242586,  
  "iid" : 1,  
}
```

```
"title" : "Update README.md",
"description" : "merge \\asfd\\ into \\master\\\\n Update README.md",
"state" : "opened",
"created_at" : "2024-08-14T14:17:39.000+08:00",
"updated_at" : "2025-01-06T15:38:31.000+08:00",
"source_branch" : "asfd",
"target_branch" : "master",
"is_source_branch_protected" : false,
"devcloud_source_branch" : "asfd",
"author" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"source_repository_id" : 2663641,
"target_repository_id" : 2663641,
"source_project_id" : "07c8683c4bb0445393c5eab0ea354003",
"target_project_id" : "07c8683c4bb0445393c5eab0ea354003",
"labels" : [ ],
"work_in_progress" : false,
"merge_when_build_succeeds" : false,
"merge_status" : "can_be_merged",
"sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
"subscribed" : true,
"user_notes_count" : 0,
"force_remove_source_branch" : false,
"web_url" : "https://example.com/*****/2663641/1/mergedetail?source\\u003dasfd\\u0026target\\u003dmaster",
"merge_request_diff" : {
  "id" : 1286204,
  "state" : "collected",
  "merge_request_id" : 1242586,
  "created_at" : "2024-08-14T14:17:39.000+08:00",
  "updated_at" : "2024-08-14T14:17:39.000+08:00",
  "base_commit_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "real_size" : 1,
  "head_commit_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
  "start_commit_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "commits_count" : 1,
  "external_diff" : "diff-1286204",
  "external_diff_store" : 1,
  "stored_externally" : true,
  "added_lines" : 1,
  "removed_lines" : 1
},
"merge_request_reviewers_count" : 0,
"merge_request_review_count" : 0,
"merge_request_reviewer_list" : [ ],
"merge_request_assignee_list" : [ ],
"notes" : 0,
"codecheck_state" : 7,
"codecheck_defect_count" : 0,
"merge_request_related_work_items" : [ ],
"diverged_commits_count" : 0,
"moderation_result" : true,
"moderation_time" : 0,
"moderation_status" : 0,
"is_use_temp_branch" : false,
"approval_merge_request_approvers" : [ ],
"review_mode" : "approval",
"squash" : false,
"source_repository" : {
  "id" : 2663641,
  "description" : null,
```

```
"name" : "mr_test",
"name_with_namespace" : "07c8683c4bb0445393c5eab0ea354003 / mr_test",
"path" : "mr_test",
"path_with_namespace" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
"created_at" : "2024-08-05T11:32:27.000+08:00",
"updated_at" : "2024-08-05T11:32:27.000+08:00",
"archived" : false,
"is_kia" : false,
"ssh_url_to_repo" : "git@example.com:07c8683c4bb0445393c5eab0ea354003/mr_test.git",
"http_url_to_repo" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test.git",
"web_url" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test",
"project_id" : "07c8683c4bb0445393c5eab0ea354003",
"project_name" : "sll_test",
"develop_mode" : "normal",
"moderation_result" : true
},
"target_repository" : {
  "id" : 2663641,
  "description" : null,
  "name" : "mr_test",
  "name_with_namespace" : "07c8683c4bb0445393c5eab0ea354003 / mr_test",
  "path" : "mr_test",
  "path_with_namespace" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "created_at" : "2024-08-05T11:32:27.000+08:00",
  "updated_at" : "2024-08-05T11:32:27.000+08:00",
  "archived" : false,
  "is_kia" : false,
  "ssh_url_to_repo" : "git@example.com:07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "http_url_to_repo" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "web_url" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test",
  "project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "project_name" : "sll_test",
  "develop_mode" : "normal",
  "moderation_result" : true
},
"is_source_branch_exist" : true,
"merge_request_type" : "MergeRequest"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.7 Obtaining the Status of a Merge Request

Function

This API is used to obtain the status of a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/mergeable-state-out

Table 4-1098 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1099 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1100 Response body parameters

Parameter	Type	Description
merge_request_id	Integer	Definition MR ID. Value range: 0~2147483647
state	Boolean	Definition Mergeable status of an MR. Constraints • true: an MR can be merged. • false: an MR cannot be merged.
conflict_passed	Boolean	Definition Whether the MR conflict gate passes the check. Constraints • true: no conflict exists. • false: conflicts exist.

Parameter	Type	Description
non_ff_passed	Boolean	Definition Whether to rebase an MR. Constraints • true: not to rebase the MR. • false: rebase the MR.
merged_by_user_passed	Boolean	Definition Whether the current user has the permission to merge the current MR. Constraints • true: user has the permission to merge the MR. • false: user does not have the permission to merge the MR.
work_in_progress_passed	Boolean	Definition Whether the MR WIP gate check is passed. Constraints • true: non-WIP status. • false: WIP status.
resolve_discussion_passed	Boolean	Definition Whether the MR review comment gate check is passed. Constraints • true: review comment gate check is passed. • false: review comment gate check is not passed.
ci_state_passed	Boolean	Definition Whether the MR pipeline gate is passed. Constraints • true: the MR pipeline gate is passed. • false: the MR pipeline gate is not passed.

Parameter	Type	Description
merge_by_self_passed	Boolean	Definition Whether the current user has the permission to merge the self-created MR. Constraints • true: An MR that is not self-created can be merged. • false: A self-created MR cannot be merged.
can_force_merge	Boolean	Definition Whether the current user can forcibly merge the current MR. Constraints • true: user can forcibly merge the MR. • false: user cannot forcibly merge the MR.
vote_passed	Boolean	Definition Whether the MR scoring gate check is passed. Constraints • true: the scoring gate check is passed. • false: the scoring gate check is not passed.
e2e_check_passed	Boolean	Definition Whether the gate check indicating an MR must be associated with CodeArts Req is passed. Constraints • true: the gate check indicating an MR must be associated with CodeArts Req is passed. • false: the gate check indicating an MR must be associated with CodeArts Req is not passed.

Parameter	Type	Description
all_issues_passed	Boolean	Definition Whether the gate check for all E2E ticket number verification of an MR is passed. Constraints • true: the gate check for all E2E ticket number verification of an MR is passed. • false: the gate check for all E2E ticket number verification of an MR is not passed.
only_one_issue_passed	Boolean	Definition Whether the gate check indicating an MR can only be associated with one ticket number is passed. Constraints • true, the gate check indicating an MR can only be associated with one ticket number is passed. • false, the gate check indicating an MR can only be associated with one ticket number is not passed.
approval_reviewers_required_passed	Boolean	Definition Whether the gate check for an MR review is passed. Constraints • true: the gate check for an MR review is passed. • false: MR review gate check is not passed.
approval_approver_required_passed	Boolean	Definition Whether an MR approving gate check is passed. Constraints • true: MR approving gate check is passed. • false: MR approving gate check is not passed.

Parameter	Type	Description
evaluation_passed	Boolean	Definition Whether the MR score evaluation gate check is passed. Constraints • true: the MR score evaluation gate check is passed. • false: the MR score evaluation gate check is not passed.

Status code: 401**Table 4-1101** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1102** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/1/merge-requests/1/mergeable-state-out
```

Example Responses

Status code: 200

OK

```
{  
  "merge_request_id" : 1,  
  "state" : true,
```

```
"conflict_passed" : true,
"non_ff_passed" : true,
"merged_by_user_passed" : true,
"work_in_progress_passed" : true,
"resolve_discussion_passed" : true,
"ci_state_passed" : true,
"merge_by_self_passed" : true,
"can_force_merge" : true,
"vote_passed" : true,
"e2e_check_passed" : true,
"all_issues_passed" : true,
"only_one_issue_passed" : true,
"approval_reviewers_required_passed" : true,
"approval_approvers_required_passed" : true,
"evaluation_passed" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
404	Not Found

Error Codes

See [Error Codes](#).

4.1.11.8 Merging a Merge Request

Function

This API is used to merge a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/merge

Table 4-1103 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1104 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1105 Request body parameters

Parameter	Mandatory	Type	Description
squash_commit_message	No	String	Squash merge information
squash	No	Boolean	Squash merge
force_merge	No	Boolean	Force push

Response Parameters

Status code: 200

Table 4-1106 Response body parameters

Parameter	Type	Description
id	Integer	MR ID
iid	Integer	MR IID
repository_id	Integer	Target repository ID
title	String	MR title
description	String	MR description
state	String	MR status
created_at	String	Creation time
updated_at	String	Update time.
source_branch	String	Source branch
target_branch	String	Target branch
is_source_branch_protected	Boolean	Whether the source branch is a protected branch
devcloud_source_branch	String	Source branch
author	UserBasicExternalIdto object	Author
source_repository_id	Integer	Source repository ID
target_repository_id	Integer	Target repository ID
source_project_id	String	Source project ID
target_project_id	String	Target project ID

Parameter	Type	Description
labels	Array of objects	Label
work_in_progress	Boolean	Work in progress (WIP)
milestone	MilestoneBasicDto object	Milestone
merge_when_build_succeeds	Boolean	Automatically merged when the pipeline is successful
merge_status	String	Mergeable status
sha	String	Latest commit of the current MR
merge_commit_sha	String	Merge commit node
subscribed	Boolean	Subscription
merged_by	UserBasicExternalDto object	Merger
merged_at	String	Merge time
closed_by	UserBasicExternalDto object	Closer
closed_at	String	Close time
user_notes_count	Integer	Number of review comments
force_remove_source_branch	Boolean	Delete source branch after merge
web_url	String	Homepage URL
merge_request_diff	MergeRequestDiffExternalDto object	MR diff
merge_request_reviewers_count	Integer	Number of scorers
merge_request_review_count	Integer	Scoring
merge_request_reviewer_list	Array of MergeRequestReviewerExternalDto objects	Scorer list
merge_request_as_signee_list	Array of UserBasicExternalDto objects	Merger list
notes	Integer	Review comment

Parameter	Type	Description
codecheck_state	Integer	Code check status
codecheck_defect_count	Integer	Code check issues
merge_request_related_work_items	Array of MergeRequestRelatedWorkItemDto objects	Number of associated tickets of an MR
diverged_commits_count	Integer	Number of commits that a source branch is behind
moderation_result	Boolean	Approving result
moderation_time	Long	Timestamp of approving submission Value range: 1~9223372036854775807
moderation_statuses	Integer	Approving status code Value range: 1~2147483647
is_use_temp_branch	Boolean	Use temporary branch or not
approval_merge_request_approvers	Array of ApprovalUserDto objects	Approver
review_mode	String	MR mode Enumeration values: • vote • approval
squash	Boolean	Squash merge
squash_commit_message	String	Squash commit information
rebase_in_progress	Boolean	Whether rebase is in progress
source_repository	ProjectSimpleDto object	Source repository
target_repository	ProjectSimpleDto object	Target repository
is_source_branch_exist	Boolean	Whether the source branch exists

Parameter	Type	Description
merge_request_type	String	MR type

Table 4-1107 MilestoneBasicDto

Parameter	Type	Description
id	Integer	Milestone ID Value range: 1~2147483647
iid	Integer	Milestone IID Value range: 1~2147483647
repository_id	Integer	Repository ID. Value range: 1~2147483647
title	String	Milestone title
description	String	Milestone description
state	String	Status
created_at	String	Creation time
updated_at	String	Update time.
due_date	String	Expiration time
start_date	String	Start time
repository_path	String	Repository path
web_url	String	Homepage URL

Table 4-1108 UserBasicExternalDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
name	String	Name
username	String	Username

Parameter	Type	Description
state	String	Status
avatar_url	String	Profile picture URL
web_url	String	Homepage URL
nick_name	String	User alias
tenant_name	String	Tenant name

Table 4-1109 MergeRequestDiffExternalDto

Parameter	Type	Description
id	Integer	Diff ID of an MR Value range: 1~2147483647
state	String	Status
merge_request_id	Integer	MR ID Value range: 1~2147483647
created_at	String	Creation time
updated_at	String	Update time.
base_commit_sha	String	Base commit node
real_size	String	Number of diff files
head_commit_sha	String	Head commit node
start_commit_sha	String	Start commit node
commits_count	Integer	Number of commits Value range: 1~2147483647
external_diff	String	External diff file
external_diff_store	Integer	External difference storage Value range: 1~2147483647
stored_externally	Boolean	External storage or not
added_lines	Integer	Number of new lines Value range: 0~2147483647

Parameter	Type	Description
removed_lines	Integer	Number of deleted lines Value range: 0~2147483647

Table 4-1110 MergeRequestReviewerExternalDto

Parameter	Type	Description
id	Integer	Scorer ID Value range: 1~2147483647
username	String	Scorer name
name	String	Scorer name
nick_name	String	Scorer alias
state	Boolean	Scorer status
score	Integer	Scoring Value range: -2~2
tenant_name	String	Tenant name

Table 4-1111 MergeRequestRelatedWorkItemDto

Parameter	Type	Description
id	Integer	Association ID Value range: 1~2147483647
user_id	String	User ID
repo_id	Integer	Repository ID Value range: 1~2147483647
merge_request_id	Integer	MR ID Value range: 1~2147483647
target_branch	String	Target branch
source_branch	String	Source branch

Parameter	Type	Description
merge_request_title	String	MR title
merge_request_url	String	MR URL
merge_request_state	String	MR status
related_id	String	Associated ticket ID
related_title	String	Associated ticket title
related_url	String	Associated ticket URL
result	Integer	Association result
message	String	Association result information
create_at	String	Creation time
update_at	String	Update time.
subject	String	Topic
tracker	Object	Ticket follower
status	Object	Status

Table 4-1112 ApprovalUserDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
username	String	Username
name	String	Username
nick_name	String	User alias
name_cn	String	Name (CN)
email	String	Email
state	String	Status
updated_at	String	Update time
avatar_url	String	Profile picture URL
tenant_name	String	Tenant name

Parameter	Type	Description
approver_comment	String	Approving comments

Table 4-1113 ProjectSimpleDto

Parameter	Type	Description
id	Integer	Repository ID.
description	String	Repository description
name	String	Repository name
name_with_name_space	String	Organization name/Organization name.../Repository name
path	String	Repository path
path_with_name_space	String	Complete repository path
created_at	String	Creation time
updated_at	String	Update time.
archived	Boolean	Archived or not
is_kia	Boolean	Confidential or not
ssh_url_to_repo	String	Repository SSH address
http_url_to_repo	String	Repository HTTP address
web_url	String	Repository page link
readme_url	String	Link to the readme file of the repository
project_id	String	Project ID
project_name	String	Project name
develop_mode	String	Repository development modes: normal and CR
moderation_result	Boolean	Approving status

Status code: 401

Table 4-1114 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/merge-requests/{merge_request_iid}/merge
{
  "squash_commit_message" : "squash_commit_message",
  "squash" : true,
  "force_merge" : false
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 1242586,
  "iid" : 1,
  "title" : "Update README.md",
  "description" : "merge \\asfd\\ into \\master\\\\n Update README.md",
  "state" : "opened",
  "created_at" : "2024-08-14T14:17:39.000+08:00",
  "updated_at" : "2025-01-06T15:38:31.000+08:00",
  "source_branch" : "asfd",
  "target_branch" : "master",
  "is_source_branch_protected" : false,
  "devcloud_source_branch" : "asfd",
  "author" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "source_repository_id" : 2663641,
  "target_repository_id" : 2663641,
  "source_project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "target_project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "labels" : [ ],
  "work_in_progress" : false,
  "merge_when_build_succeeds" : false,
  "merge_status" : "can_be_merged",
  "sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
  "subscribed" : true,
  "user_notes_count" : 0,
  "force_remove_source_branch" : false,
  "web_url" : "https://example.com/*****/2663641/1/mergedetail?source\\u003dasfd\\u0026target\\u003dmaster",
  "merge_request_diff" : {
```

```
"id" : 1286204,
"state" : "collected",
"merge_request_id" : 1242586,
"created_at" : "2024-08-14T14:17:39.000+08:00",
"updated_at" : "2024-08-14T14:17:39.000+08:00",
"base_commit_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
"real_size" : 1,
"head_commit_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
"start_commit_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
"commits_count" : 1,
"external_diff" : "diff-1286204",
"external_diff_store" : 1,
"stored_externally" : true,
"added_lines" : 1,
"removed_lines" : 1
},
"merge_request_reviewers_count" : 0,
"merge_request_review_count" : 0,
"merge_request_reviewer_list" : [ ],
"merge_request_assignee_list" : [ ],
"notes" : 0,
"codecheck_state" : 7,
"codecheck_defect_count" : 0,
"merge_request_related_work_items" : [ ],
"diverged_commits_count" : 0,
"moderation_result" : true,
"moderation_time" : 0,
"moderation_status" : 0,
"is_use_temp_branch" : false,
"approval_merge_request_approvers" : [ ],
"review_mode" : "approval",
"squash" : false,
"source_repository" : {
  "id" : 2663641,
  "description" : null,
  "name" : "mr_test",
  "name_with_namespace" : "07c8683c4bb0445393c5eab0ea354003 / mr_test",
  "path" : "mr_test",
  "path_with_namespace" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "created_at" : "2024-08-05T11:32:27.000+08:00",
  "updated_at" : "2024-08-05T11:32:27.000+08:00",
  "archived" : false,
  "is_kia" : false,
  "ssh_url_to_repo" : "git@example.com:07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "http_url_to_repo" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "web_url" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test",
  "project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "project_name" : "sll_test",
  "develop_mode" : "normal",
  "moderation_result" : true
},
"target_repository" : {
  "id" : 2663641,
  "description" : null,
  "name" : "mr_test",
  "name_with_namespace" : "07c8683c4bb0445393c5eab0ea354003 / mr_test",
  "path" : "mr_test",
  "path_with_namespace" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "created_at" : "2024-08-05T11:32:27.000+08:00",
  "updated_at" : "2024-08-05T11:32:27.000+08:00",
  "archived" : false,
  "is_kia" : false,
  "ssh_url_to_repo" : "git@example.com:07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "http_url_to_repo" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "web_url" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test",
  "project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "project_name" : "sll_test",
  "develop_mode" : "normal",
  "moderation_result" : true
}
```

```
}  
  "is_source_branch_exist" : true,  
  "merge_request_type" : "MergeRequest"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.11.9 Obtaining the MR List of a Repository****Function**

This API is used to obtain the MR list of repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests

Table 4-1115 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1116 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Parameter	Mandatory	Type	Description
state	No	String	Definition Returns MRs of the specified statuses. Constraints • all: all statuses. • opened: open status • closed: closed status • merged: merged status Default value: all Enumeration values: • all • opened • closed • merged
order_by	No	String	Definition Sorting method. Range • created_at: creation time. • updated_at: update time. Default value: created_at Enumeration values: • created_at • updated_at
sort	No	String	Definition Sorting method. Constraints • asc: ascending order. • desc: descending order. Default value: desc Enumeration values: • asc • desc

Parameter	Mandatory	Type	Description
author_id	No	String	Definition Returns the MR created by the users with the specified ID. Multiple IDs are separated by commas (,). The union of MRs that meet the conditions is returned.
source_branch	No	String	Definition Returns the MR of the specified source branch.
target_branch	No	String	Definition Returns the MR of the specified target branch.
search	No	String	Definition MR keyword search. Return MRs whose titles or descriptions contain the keyword.
source_repository_id	No	Integer	Definition Query the specified source repository data.
only_count	No	Boolean	Definition Whether to only return the number of MRs. Range • true: only the number of MRs is returned. • false: MR detailed information is returned. Default value: false
labels	No	String	Definition Query MRs that contain the specified labels. Value range: 1~2000

Request Parameters

Table 4-1117 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1118** Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestListBasicDto objects	MR basic information

Table 4-1119 MergeRequestListBasicDto

Parameter	Type	Description
id	Integer	Definition MR ID.
iid	Integer	Definition No. of the MR located in the current repository.
title	String	Definition MR title.

Parameter	Type	Description
source_branch	String	Definition MR source branch.
target_branch	String	Definition MR target branch.
state	String	Definition MR status.
created_at	String	Definition Time when an MR was created.
updated_at	String	Definition MR update time.
source_repository_id	Integer	Definition MR source repository ID.
review_mode	String	Definition MR review mode.
author	UserBasicDto object	Definition MR author.
closed_at	String	Definition Time when an MR was closed.
closed_by	UserBasicDto object	Definition MR closer.
merged_at	String	Definition Time when an MR was merged.
merged_by	UserBasicDto object	Definition MR merger.
pipeline_status	String	Definition MR pipeline status.
codequality_status	String	Definition MR code quality status.
pipeline_status_with_code_quality	String	Definition MR pipeline status.
notes	Integer	Definition MR review comment.
source_repository	ProjectSimpleDto object	Definition MR source repository information.

Parameter	Type	Description
target_repository	ProjectSimpleDto object	Definition MR target repository information.
web_url	String	Definition MR URL.
added_lines	Integer	Definition Lines of code added in an MR.
removed_lines	Integer	Definition Lines of code deleted in an MR.
merge_request_type	String	Definition MR review mode.
source_git_url	String	Definition MR Git address.
labels	Array of Map<String,Object> objects	Definition MR label.
score	Integer	Definition MR score.
min_merged_score	Integer	Definition Minimum merge score of an MR.
source_product_id	String	Definition MR source project ID.
target_product_id	String	Definition MR target project ID.
product_name	String	Definition MR project name.
notes_count	NotesCountDto object	Definition Number of MR review comments.
moderation_result	Boolean	Definition MR approving result.
moderation_time	Long	Definition MR approving time.
moderation_statuses	Integer	Definition MR approving status.

Table 4-1120 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1121 ProjectSimpleDto

Parameter	Type	Description
id	Integer	Repository ID.
description	String	Repository description
name	String	Repository name
name_with_name space	String	Organization name/Organization name.../Repository name
path	String	Repository path
path_with_names pace	String	Complete repository path
created_at	String	Creation time
updated_at	String	Update time.
archived	Boolean	Archived or not
is_kia	Boolean	Confidential or not
ssh_url_to_repo	String	Repository SSH address
http_url_to_repo	String	Repository HTTP address
web_url	String	Repository page link
readme_url	String	Link to the readme file of the repository
project_id	String	Project ID
project_name	String	Project name
develop_mode	String	Repository development modes: normal and CR
moderation_result	Boolean	Approving status

Table 4-1122 NotesCountDto

Parameter	Type	Description
notes_count	Integer	Total number of review comments
unresolved_notes_ count	Integer	Number of unresolved review comments
already_resolved_ count	Integer	Number of resolved review comments
need_resolved_co unt	Integer	Total number of review comments to be resolved

Status code: 401

Table 4-1123 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-1124 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : 72674,
  "iid" : 7,
  "title" : "Create a file",
  "source_branch" : "ddd1",
  "target_branch" : "master",
  "state" : "opened",
  "created_at" : "2025-05-21T12:03:32.000+08:00",
  "updated_at" : "2025-06-17T15:30:02.000+08:00",
  "source_repository_id" : 2111983939,
  "review_mode" : "approval",
  "author" : {
    "id" : 9124,
    "name" : "test",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "service_license_status" : null,
  }
}
```

```
"name_cn" : "test",
"nick_name" : "beta_dv",
"tenant_name" : "example_name",
"error_message" : null
},
"closed_at" : "2025-05-21T12:03:32.000+08:00",
"closed_by" : null,
"merged_at" : null,
"merged_by" : null,
"pipeline_status" : "",
"codequality_status" : null,
"pipeline_status_with_code_quality" : "",
"notes" : 0,
"web_url" : "https://example.com/*****/2111983939/7/mergedetail?source=ddd1&target=master",
"added_lines" : 0,
"removed_lines" : 0,
"merge_request_type" : "MergeRequest",
"source_git_url" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
"labels" : [ {
  "color" : "#000",
  "name" : "Bug",
  "description" : "456",
  "id" : 8,
  "title" : "Bug",
  "type" : null,
  "textColor" : "#FFFFFF"
}, {
  "color" : "#000",
  "name" : "bug",
  "description" : "456",
  "id" : 7,
  "title" : "bug",
  "type" : null,
  "textColor" : "#FFFFFF"
} ],
"score" : 0,
"min_merged_score" : null,
"source_project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
"target_project_id" : null,
"product_name" : null,
"notes_count" : null,
"moderation_result" : null,
"moderation_time" : null,
"moderation_status" : null,
"source_repository" : {
  "id" : 2111983939,
  "description" : "ddd",
  "name" : "dddd",
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / dddd",
  "path" : "dddd",
  "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "created_at" : "2024-11-30T17:46:46.000+08:00",
  "updated_at" : "2024-11-30T17:46:46.000+08:00",
  "archived" : false,
  "ssh_url_to_repo" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "http_url_to_repo" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "project_id" : null,
  "project_name" : null,
  "develop_mode" : null,
  "moderation_result" : null
},
"target_repository" : {
  "id" : 2111983939,
  "description" : "ddd",
  "name" : "dddd",
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / dddd",
  "path" : "dddd",
  "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "created_at" : "2024-11-30T17:46:46.000+08:00",
```



```
"updated_at" : "2024-11-30T17:46:46.000+08:00",
"archived" : false,
"ssh_url_to_repo" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
"http_url_to_repo" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
"project_id" : null,
"project_name" : null,
"develop_mode" : null,
"moderation_result" : null
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
404	Not Found

Error Codes

See [Error Codes](#).

4.1.11.10 Creating a Merge Request

Function

This API is used to create a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/merge-requests

Table 4-1125 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1126 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1127 Request body parameters

Parameter	Mandatory	Type	Description
title	Yes	String	MR title
source_branch	Yes	String	Source branch
target_branch	Yes	String	Target branch
target_repository_id	No	Integer	Target repository ID

Parameter	Mandatory	Type	Description
reviewer_ids	No	String	Scorer IDs in the score mode, which are separated by commas (,)
assignee_ids	No	String	Merger IDs, which are separated by commas (,)
approval_reviewer_ids	No	String	Reviewer IDs in the approval mode, which are separated by commas (,)
approval_approvers_ids	No	String	Approver IDs, which are separated by commas (,)
description	No	String	MR description
milestone_id	No	Integer	Milestone ID
labels	No	Object	Label names, which are separated by commas (,)
force_remove_source_branch	No	Boolean	Automatically delete source branch after merge
squash	No	Boolean	Squash merge
squash_commit_message	No	String	Squash merge information
work_item_ids	No	Array of strings	E2E ticket number
is_use_temp_branch	No	Boolean	Create an MR using a temporary branch
only_assignee_can_merge	No	Boolean	Only mergers can merge Default value: false

Response Parameters

Status code: 200

Table 4-1128 Response body parameters

Parameter	Type	Description
id	Integer	MR ID
iid	Integer	MR IID

Parameter	Type	Description
repository_id	Integer	Target repository ID
title	String	MR title
description	String	MR description
state	String	MR status
created_at	String	Creation time
updated_at	String	Update time.
source_branch	String	Source branch
target_branch	String	Target branch
is_source_branch_protected	Boolean	Whether the source branch is a protected branch
devcloud_source_branch	String	Source branch
author	UserBasicExternalDto object	Author
source_repository_id	Integer	Source repository ID
target_repository_id	Integer	Target repository ID
source_project_id	String	Source project ID
target_project_id	String	Target project ID
labels	Array of objects	Label
work_in_progress	Boolean	Work in progress (WIP)
milestone	MilestoneBasicDto object	Milestone
merge_when_build_succeeds	Boolean	Automatically merged when the pipeline is successful
merge_status	String	Mergeable status
sha	String	Latest commit of the current MR
merge_commit_sha	String	Merge commit node
subscribed	Boolean	Subscription
merged_by	UserBasicExternalDto object	Merger
merged_at	String	Merge time

Parameter	Type	Description
closed_by	UserBasicExternalDto object	Closer
closed_at	String	Close time
user_notes_count	Integer	Number of review comments
force_remove_source_branch	Boolean	Delete source branch after merge
web_url	String	Homepage URL
merge_request_diff	MergeRequestDiffExternalDto object	MR diff
merge_request_reviewers_count	Integer	Number of scorers
merge_request_review_count	Integer	Scoring
merge_request_reviewer_list	Array of MergeRequestReviewerExternalDto objects	Scorer list
merge_request_as_signee_list	Array of UserBasicExternalDto objects	Merger list
notes	Integer	Review comment
codecheck_state	Integer	Code check status
codecheck_defect_count	Integer	Code check issues
merge_request_related_work_items	Array of MergeRequestRelatedWorkItemDto objects	Number of associated tickets of an MR
diverged_commits_count	Integer	Number of commits that a source branch is behind
moderation_result	Boolean	Approving result
moderation_time	Long	Timestamp of approving submission Value range: 1~9223372036854775807

Parameter	Type	Description
moderation_statuses	Integer	Approving status code Value range: 1~2147483647
is_use_temp_branch	Boolean	Use temporary branch or not
approval_merge_request_approvers	Array of ApprovalUserDto objects	Approver
review_mode	String	MR mode Enumeration values: • vote • approval
squash	Boolean	Squash merge
squash_commit_message	String	Squash commit information
rebase_in_progress	Boolean	Whether rebase is in progress
source_repository	ProjectSimpleDto object	Source repository
target_repository	ProjectSimpleDto object	Target repository
is_source_branch_exist	Boolean	Whether the source branch exists
merge_request_type	String	MR type

Table 4-1129 MilestoneBasicDto

Parameter	Type	Description
id	Integer	Milestone ID Value range: 1~2147483647
iid	Integer	Milestone IID Value range: 1~2147483647

Parameter	Type	Description
repository_id	Integer	Repository ID. Value range: 1~2147483647
title	String	Milestone title
description	String	Milestone description
state	String	Status
created_at	String	Creation time
updated_at	String	Update time.
due_date	String	Expiration time
start_date	String	Start time
repository_path	String	Repository path
web_url	String	Homepage URL

Table 4-1130 UserBasicExternalDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
name	String	Name
username	String	Username
state	String	Status
avatar_url	String	Profile picture URL
web_url	String	Homepage URL
nick_name	String	User alias
tenant_name	String	Tenant name

Table 4-1131 MergeRequestDiffExternalDto

Parameter	Type	Description
id	Integer	Diff ID of an MR Value range: 1~2147483647
state	String	Status
merge_request_id	Integer	MR ID Value range: 1~2147483647
created_at	String	Creation time
updated_at	String	Update time.
base_commit_sha	String	Base commit node
real_size	String	Number of diff files
head_commit_sha	String	Head commit node
start_commit_sha	String	Start commit node
commits_count	Integer	Number of commits Value range: 1~2147483647
external_diff	String	External diff file
external_diff_store	Integer	External difference storage Value range: 1~2147483647
stored_externally	Boolean	External storage or not
added_lines	Integer	Number of new lines Value range: 0~2147483647
removed_lines	Integer	Number of deleted lines Value range: 0~2147483647

Table 4-1132 MergeRequestReviewerExternalDto

Parameter	Type	Description
id	Integer	Scorer ID Value range: 1~2147483647
username	String	Scorer name
name	String	Scorer name
nick_name	String	Scorer alias
state	Boolean	Scorer status
score	Integer	Scoring Value range: -2~2
tenant_name	String	Tenant name

Table 4-1133 MergeRequestRelatedWorkItemDto

Parameter	Type	Description
id	Integer	Association ID Value range: 1~2147483647
user_id	String	User ID
repo_id	Integer	Repository ID Value range: 1~2147483647
merge_request_id	Integer	MR ID Value range: 1~2147483647
target_branch	String	Target branch
source_branch	String	Source branch
merge_request_title	String	MR title
merge_request_url	String	MR URL
merge_request_state	String	MR status
related_id	String	Associated ticket ID

Parameter	Type	Description
related_title	String	Associated ticket title
related_url	String	Associated ticket URL
result	Integer	Association result
message	String	Association result information
create_at	String	Creation time
update_at	String	Update time.
subject	String	Topic
tracker	Object	Ticket follower
status	Object	Status

Table 4-1134 ApprovalUserDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
username	String	Username
name	String	Username
nick_name	String	User alias
name_cn	String	Name (CN)
email	String	Email
state	String	Status
updated_at	String	Update time
avatar_url	String	Profile picture URL
tenant_name	String	Tenant name
approver_comment	String	Approving comments

Table 4-1135 ProjectSimpleDto

Parameter	Type	Description
id	Integer	Repository ID.

Parameter	Type	Description
description	String	Repository description
name	String	Repository name
name_with_name space	String	Organization name/Organization name.../Repository name
path	String	Repository path
path_with_names pace	String	Complete repository path
created_at	String	Creation time
updated_at	String	Update time.
archived	Boolean	Archived or not
is_kia	Boolean	Confidential or not
ssh_url_to_repo	String	Repository SSH address
http_url_to_repo	String	Repository HTTP address
web_url	String	Repository page link
readme_url	String	Link to the readme file of the repository
project_id	String	Project ID
project_name	String	Project name
develop_mode	String	Repository development modes: normal and CR
moderation_result	Boolean	Approving status

Status code: 401

Table 4-1136 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST /v4/repositories/{repository_id}/merge-requests
```

```
{
  "title" : "Update README.md",
  "description" : "merge \\asfd\\ into \\master\\\\n Update README.md",
  "source_branch" : "asfd",
  "target_branch" : "master",
  "target_repository_id" : 2663641,
  "labels" : "label1,label2",
  "force_remove_source_branch" : false,
  "reviewer_ids" : "id1,id2",
  "assignee_ids" : "id1,id2",
  "approval_reviewer_ids" : "id1,id2",
  "approval_approvers_ids" : "id1,id2",
  "is_use_temp_branch" : false,
  "squash" : false
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 1242586,
  "iid" : 1,
  "title" : "Update README.md",
  "description" : "merge \\asfd\\ into \\master\\\\n Update README.md",
  "state" : "opened",
  "created_at" : "2024-08-14T14:17:39.000+08:00",
  "updated_at" : "2025-01-06T15:38:31.000+08:00",
  "source_branch" : "asfd",
  "target_branch" : "master",
  "is_source_branch_protected" : false,
  "devcloud_source_branch" : "asfd",
  "author" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "source_repository_id" : 2663641,
  "target_repository_id" : 2663641,
  "source_project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "target_project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "labels" : [ ],
  "work_in_progress" : false,
  "merge_when_build_succeeds" : false,
  "merge_status" : "can_be_merged",
  "sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
  "subscribed" : true,
  "user_notes_count" : 0,
  "force_remove_source_branch" : false,
  "web_url" : "https://example.com/*****/2663641/1/mergedetail?source\\u003dasfd\\u0026target\\u003dmaster",
  "merge_request_diff" : {
    "id" : 1286204,
    "state" : "collected",
    "merge_request_id" : 1242586,
    "created_at" : "2024-08-14T14:17:39.000+08:00",
    "updated_at" : "2024-08-14T14:17:39.000+08:00",
    "base_commit_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
    "real_size" : 1,
    "head_commit_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
    "start_commit_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
    "commits_count" : 1,
  }
}
```

```
"external_diff" : "diff-1286204",
"external_diff_store" : 1,
"stored_externally" : true,
"added_lines" : 1,
"removed_lines" : 1
},
"merge_request_reviewers_count" : 0,
"merge_request_review_count" : 0,
"merge_request_reviewer_list" : [ ],
"merge_request_assignee_list" : [ ],
"notes" : 0,
"codecheck_state" : 7,
"codecheck_defect_count" : 0,
"merge_request_related_work_items" : [ ],
"diverged_commits_count" : 0,
"moderation_result" : true,
"moderation_time" : 0,
"moderation_status" : 0,
"is_use_temp_branch" : false,
"approval_merge_request_approvers" : [ ],
"review_mode" : "approval",
"squash" : false,
"source_repository" : {
  "id" : 2663641,
  "description" : null,
  "name" : "mr_test",
  "name_with_namespace" : "07c8683c4bb0445393c5eab0ea354003 / mr_test",
  "path" : "mr_test",
  "path_with_namespace" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "created_at" : "2024-08-05T11:32:27.000+08:00",
  "updated_at" : "2024-08-05T11:32:27.000+08:00",
  "archived" : false,
  "is_kia" : false,
  "ssh_url_to_repo" : "git@example.com:07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "http_url_to_repo" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "web_url" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test",
  "project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "project_name" : "sll_test",
  "develop_mode" : "normal",
  "moderation_result" : true
},
"target_repository" : {
  "id" : 2663641,
  "description" : null,
  "name" : "mr_test",
  "name_with_namespace" : "07c8683c4bb0445393c5eab0ea354003 / mr_test",
  "path" : "mr_test",
  "path_with_namespace" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "created_at" : "2024-08-05T11:32:27.000+08:00",
  "updated_at" : "2024-08-05T11:32:27.000+08:00",
  "archived" : false,
  "is_kia" : false,
  "ssh_url_to_repo" : "git@example.com:07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "http_url_to_repo" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test.git",
  "web_url" : "https://example.com/07c8683c4bb0445393c5eab0ea354003/mr_test",
  "project_id" : "07c8683c4bb0445393c5eab0ea354003",
  "project_name" : "sll_test",
  "develop_mode" : "normal",
  "moderation_result" : true
},
"is_source_branch_exist" : true,
"merge_request_type" : "MergeRequest"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
}
```

```
"error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.11 Obtaining Repository Merge Request Statistics

Function

This API is used to obtain repository merge request statistics.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/statistic

Table 4-1137 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1138 Query Parameters

Parameter	Mandatory	Type	Description
iids	Yes	String	Definition MR IID. Value range: 1~2000
fields	No	String	Definition Statistical fields. Constraints • commits_count: number of commits • changed_files_count: number of file changes • notes_count: number of review comments • changed_lines_count: number of changed lines of code Enumeration values: • commits_count • changed_files_count • notes_count • changed_lines_count

Request Parameters

Table 4-1139 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1140** Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestStatisticDto objects	MR statistics

Table 4-1141 MergeRequestStatisticDto

Parameter	Type	Description
id	Integer	MR ID
iid	Integer	MR No.
title	String	MR title
state	String	MR status
commits_count	Integer	Number of MR commits
changed_files_count	String	Number of changed MR files

Parameter	Type	Description
notes_count	NotesCountDto object	Number of MR review comments
changed_lines_count	MergeRequestLineChange object	Number of MR code changes
merge_error	String	MR merge exception information
json_merge_error	Object	MR merge exception information
votes	Integer	MR scores

Table 4-1142 NotesCountDto

Parameter	Type	Description
notes_count	Integer	Total number of review comments
unresolved_notes_count	Integer	Number of unresolved review comments
already_resolved_count	Integer	Number of resolved review comments
need_resolved_count	Integer	Total number of review comments to be resolved

Table 4-1143 MergeRequestLineChange

Parameter	Type	Description
added_lines	Integer	Lines of code added in an MR
removed_lines	Integer	Lines of code deleted in an MR

Status code: 400**Table 4-1144** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1145** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 200**

OK

```
{
  "id" : 47858,
  "iid" : 1,
  "title" : "Create file d",
  "state" : "closed",
  "commits_count" : 3,
  "changed_files_count" : "3",
  "notes_count" : 3,
  "changed_lines_count" : 3,
  "merge_error" : null,
  "json_merge_error" : null,
  "votes" : 1
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.12 Obtaining MR Approving Setting List

Function

This API is used to obtain MR approving setting list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/approver-settings

Table 4-1146 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1147 Query Parameters

Parameter	Mandatory	Type	Description
target_type	No	String	Definition Approving configuration type. Constraints • branch: branch configuration. • file: file configuration (disabled). • project: project configuration (disabled). Default value: branch Enumeration values: • branch • file • project
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1148 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1149** Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestApproverSettingResultDto objects	Approving policy settings

Table 4-1150 MergeRequestApproverSettingResultDto

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk (*) <i>can be used as a wildcard. For example, dev</i> indicates all branches starting with dev.

Parameter	Type	Description
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list

Parameter	Type	Description
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1151 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 400**Table 4-1152** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1153** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 200**

OK

```
[ {  
  "id" : 330,  
  "target_type" : "branch",  
  "target" : "dev",  
  "is_use_approval" : true,  
  "approval_required_approvers" : 0,
```



```
"approval_required_reviewers" : 0,  
"reset_approvals_on_push" : true,  
"reset_reviewers_on_push" : true,  
"approvers_from_project" : false,  
"append_reviewer_ids" : [ ],  
"append_reviewers" : [ ],  
"append_approver_ids" : [ ],  
"append_approvers" : [ ],  
"only_merge_when_pipeline_pass" : true,  
"assignee_ids" : [ ],  
"assignees" : [ ],  
"approver_ids" : [ ],  
"approvers" : [ ],  
"reviewer_ids" : [ ],  
"reviewers" : [ ]  
}]
```

Status code: 400

Bad Request

```
{  
  "error_code" : "CH.00405011",  
  "error_msg" : "Request error."  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.13 Creating MR Approving Settings

Function

This API is used to create MR approving settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/approver-settings

Table 4-1154 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1155 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1156 Request body parameters

Parameter	Mandatory	Type	Description
id	No	String	Definition Primary key ID.

Parameter	Mandatory	Type	Description
target	No	String	Definition Branch. The asterisk (*) can be used as a wildcard. For example, dev indicates all branches starting with dev.
target_type	No	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	No	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	No	Integer	Minimum number of reviewers
approval_required_approvers	No	Integer	Minimum number of approvers
reset_approvals_on_push	No	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	No	Boolean	Whether to reset review gate status during push
approvers_from_project	No	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	No	Array of integers	ID list of reviewers to be added
append_reviewers	No	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	No	Array of integers	ID list of approvers to be added
append_approvers	No	Array of UserBasicDto objects	Entity list of approvers to be added
only_merge_when_pipeline_pass	No	Boolean	Whether to enable the pipeline gate

Parameter	Mandatory	Type	Description
assignee_ids	No	Array of integers	Merger ID list
assignees	No	Array of UserBasicDto objects	Merger entity list
approver_ids	No	Array of integers	Approver ID list
approvers	No	Array of UserBasicDto objects	Approver entity list
reviewer_ids	No	Array of integers	Reviewer ID list
reviewers	No	Array of UserBasicDto objects	Reviewer entity list

Table 4-1157 UserBasicDto

Parameter	Mandatory	Type	Description
id	No	Integer	Definition User ID. Value range: 1~2147483647
name	No	String	Definition Username.
username	No	String	Definition Username.
state	No	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error

Parameter	Mandatory	Type	Description
service_licens e_status	No	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	No	String	User profile picture URL
avatar_path	No	String	User profile picture path
email	No	String	User email
name_cn	No	String	Username (CN)
web_url	No	String	User homepage
nick_name	No	String	User alias
tenant_name	No	String	Tenant name
error_messag e	No	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Response Parameters

Status code: 201

Table 4-1158 Response body parameters

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk () <i>can be used as a wildcard. For example, dev</i> indicates all branches starting with dev.
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary

Parameter	Type	Description
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1159 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401

Table 4-1160 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1161** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

POST https://{endpoint}/v4/repositories/2561032/approver-settings

```
{
  "id" : 330,
  "target_type" : "branch",
  "target" : "dev",
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_reviewers" : [ ],
  "append_approver_ids" : [ ],
  "append_approvers" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "assignees" : [ ],
  "approver_ids" : [ ],
  "approvers" : [ ],
  "reviewer_ids" : [ ],
  "reviewers" : [ ]
}
```

Example Responses**Status code: 201**

OK

```
{
  "id" : 330,
  "target_type" : "branch",
```



```
"target" : "dev",
"approval_required_approvers" : 0,
"approval_required_reviewers" : 0,
"reset_approvals_on_push" : true,
"reset_reviewers_on_push" : true,
"approvers_from_project" : false,
"append_reviewer_ids" : [ ],
"append_reviewers" : [ ],
"append_approver_ids" : [ ],
"append_approvers" : [ ],
"only_merge_when_pipeline_pass" : true,
"assignee_ids" : [ ],
"assignees" : [ ],
"approver_ids" : [ ],
"approvers" : [ ],
"reviewer_ids" : [ ],
"reviewers" : [ ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.11.14 Updating MR Approving Settings****Function**

This API is used to update MR approving settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/approver-settings/{setting_id}

Table 4-1162 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
setting_id	Yes	Integer	Definition Merge request (MR) approving setting ID. Value range: 1~2147483647

Request Parameters

Table 4-1163 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1164 Request body parameters

Parameter	Mandatory	Type	Description
id	No	String	Definition Primary key ID.
target	No	String	Definition Branch. The asterisk (*) <i>can be used as a wildcard. For example, dev</i> indicates all branches starting with dev.
target_type	No	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	No	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	No	Integer	Minimum number of reviewers

Parameter	Mandatory	Type	Description
approval_required_approvers	No	Integer	Minimum number of approvers
reset_approvals_on_push	No	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	No	Boolean	Whether to reset review gate status during push
approvers_from_project	No	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	No	Array of integers	ID list of reviewers to be added
append_reviewers	No	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	No	Array of integers	ID list of approvers to be added
append_approvers	No	Array of UserBasicDto objects	Entity list of approvers to be added
only_merge_when_pipeline_pass	No	Boolean	Whether to enable the pipeline gate
assignee_ids	No	Array of integers	Merger ID list
assignees	No	Array of UserBasicDto objects	Merger entity list
approver_ids	No	Array of integers	Approver ID list
approvers	No	Array of UserBasicDto objects	Approver entity list
reviewer_ids	No	Array of integers	Reviewer ID list
reviewers	No	Array of UserBasicDto objects	Reviewer entity list

Table 4-1165 UserBasicDto

Parameter	Mandatory	Type	Description
id	No	Integer	Definition User ID. Value range: 1~2147483647
name	No	String	Definition Username.
username	No	String	Definition Username.
state	No	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_licens e_status	No	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	No	String	User profile picture URL
avatar_path	No	String	User profile picture path
email	No	String	User email
name_cn	No	String	Username (CN)
web_url	No	String	User homepage
nick_name	No	String	User alias
tenant_name	No	String	Tenant name
error_messag e	No	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Response Parameters

Status code: 201

Table 4-1166 Response body parameters

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk (*) <i>can be used as a wildcard. For example, dev</i> indicates all branches starting with dev.
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added

Parameter	Type	Description
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1167 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error

Parameter	Type	Description
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1168** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1169** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

PUT https://{endpoint}/v4/repository/2561032/approver-settings/330

```
{
  "id" : 330,
  "target_type" : "branch",
  "target" : "dev",
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_reviewers" : [ ],
  "append_approver_ids" : [ ],
  "append_approvers" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "assignees" : [ ],
  "approver_ids" : [ ],
  "approvers" : [ ],
  "reviewer_ids" : [ ],
  "reviewers" : [ ]
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 330,
  "target_type" : "branch",
  "target" : "dev",
  "is_use_approval" : true,
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_reviewers" : [ ],
  "append_approver_ids" : [ ],
  "append_approvers" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "assignees" : [ ],
  "approver_ids" : [ ],
  "approvers" : [ ],
  "reviewer_ids" : [ ],
  "reviewers" : [ ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.15 Deleting MR Approving Configurations

Function

This API is used to delete MR approving configurations.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/approver-settings/{setting_id}

Table 4-1170 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
setting_id	Yes	Integer	Definition Merge request (MR) approving setting ID. Value range: 1~2147483647

Request Parameters

Table 4-1171 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 400

Table 4-1172 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1173** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 400**

Bad Request

```
{
  "error_code" : "CH.00405030",
  "error_msg" : "Configuration deletion error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
204	OK
400	Bad Request
401	Unauthorized

Error CodesSee [Error Codes](#).

4.1.11.16 Obtaining the Merge Request Commit List

Function

This API is used to obtain the merge request commit list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/commits

Table 4-1174 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1175 Query Parameters

Parameter	Mandatory	Type	Description
view	No	String	Definition Whether to display commits in the simple mode. If simple is passed, commits are displayed in the simple mode. Otherwise, commits are normally displayed. Constraints - simple: commits are displayed in the simple mode. Enumeration values: simple
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1176 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1177** Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestCommitDto objects	MR commit list details

Table 4-1178 MergeRequestCommitDto

Parameter	Type	Description
id	String	commit id
short_id	String	Commit short ID
title	String	Commit title
message	String	Commit message
author_name	String	Commit author name
name	String	Username
user_name	String	Username

Parameter	Type	Description
tenant_name	String	Tenant name
nick_name	String	Alias
authored_date	String	Initial commit date (local commit date)
committed_date	String	Commit date (date when the commit is pushed to the repository)
committer_name	String	Committer name
gpg_primary_key_id	String	pgp key id
open_gpg_verified	Boolean	Whether GPG public key verification is enabled
verification_status	Boolean	Whether GPG public key verification is passed
parent_ids	Array of strings	Commit parent commit node
created_at	String	Commit creation time recorded in the database

Status code: 400**Table 4-1179** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1180** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : "c31a08bc85418c82f96e70fed197781ad62d3891",
  "short_id" : "c31a08bc",
  "title" : "Update dev",
  "message" : "Update dev",
  "author_name" : "example_name",
  "name" : "example.com",
  "user_name" : "example_name",
  "tenant_name" : "example_name",
  "nick_name" : "example_name",
  "authored_date" : "2024-12-18T16:09:26.000+08:00",
  "committed_date" : "2024-12-18T16:09:26.000+08:00",
  "committer_name" : "2024-12-18T16:09:26.000+08:00",
  "gpg_primary_key_id" : "87E44B5F42161434",
  "open_gpg_verified" : true,
  "verification_status" : 1,
  "parent_ids" : [ "ee792e378901e39008c6cbdd5bf01b056ba56e9b" ],
  "created_at" : "2024-12-18T16:09:26.000+08:00"
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.17 Obtaining the File Change Tree of a Merge Request

Function

This API is used to obtain the file change list tree of a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/changes-trees

Table 4-1181 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1182 Query Parameters

Parameter	Mandatory	Type	Description
approval_user_id	No	Integer	Definition Approver ID.

Parameter	Mandatory	Type	Description
commit_id	Yes	String	Definition commit ID. Range 1–40 characters.
from_diff_id	No	Integer	Definition ID of the source version for file change comparison.
to_diff_id	No	Integer	Definition ID of the target version for file change comparison.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1183 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1184** Response body parameters

Parameter	Type	Description
[items]	Array of ChangesTreeDto objects	MR file change list details

Table 4-1185 ChangesTreeDto

Parameter	Type	Description
can_show_my_approval_files	Boolean	Definition Display the approval file.
tree	Array of ChangesTreeObjectDto objects	Definition Change tree.

Table 4-1186 ChangesTreeObjectDto

Parameter	Type	Description
title	String	Definition Change file name.
level	Integer	Definition File level.
file_path	String	Definition File path.
file_type	String	Definition File type.
diff	ChangesTreeObjectDiffDto object	Definition File change comparison.
items	Array of ChangesTreeObjectDto objects	Definition Subfile change.

Table 4-1187 ChangesTreeObjectDiffDto

Parameter	Type	Description
diff	String	Definition Change content.
new_path	String	Definition New change path.
old_path	String	Definition Old change path.
a_mode	String	Definition Old file permissions.
b_mode	String	Definition New file permissions.
new_file	Boolean	Definition New file or not.
renamed_file	Boolean	Definition Renamed file or not.
deleted_file	Boolean	Definition Deleted file or not.

Parameter	Type	Description
too_large	Boolean	Definition Whether the content is too long.

Status code: 400

Table 4-1188 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401

Table 4-1189 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

/v4/repositories/2111976239/merge-requests/6/changes

Example Responses

Status code: 200

OK

```
{
  "can_show_my_approval_files" : null,
  "tree" : [ {
    "title" : "test2",
    "level" : 1,
    "file_path" : "test2",
    "file_type" : "file",
    "diff" : {
      "diff" : "",
      "new_path" : "test2",
      "old_path" : "test2",
      "a_mode" : "0",
```

```
"b_mode" : "100644",  
"new_file" : true,  
"renamed_file" : false,  
"deleted_file" : false,  
"too_large" : false  
}  
}]  
}
```

Status code: 400

Bad Request

```
{  
  "error_code" : "CH.00405011",  
  "error_msg" : "Request error."  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.18 Obtaining the Merge Request File Change List

Function

This API is used to obtain the merge request file change list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/changes

Table 4-1190 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1191 Query Parameters

Parameter	Mandatory	Type	Description
ignore_whitespace_change	No	Boolean	Definition Whether to ignore the change of blank quantity. Range • true: ignore the change of blank quantity. • false: not to ignore the change of blank quantity. Default value: false

Parameter	Mandatory	Type	Description
force_encode	No	Boolean	Definition Whether to forcibly convert the file content to the UTF-8 format. Constraints • true: forcibly convert the file content to the UTF-8 format. • false: not to forcibly convert the file content to the UTF-8 format. Default value: false
file_path	Yes	String	Definition File path. Range 1–10,000 characters.
from_diff_id	No	Integer	Definition ID of the source version for file change comparison.
to_diff_id	No	Integer	Definition ID of the target version for file change comparison.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1192 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1193 Response body parameters

Parameter	Type	Description
[items]	Array of SimpleMergeRequestChangesDto objects	MR file change list details

Table 4-1194 SimpleMergeRequestChangesDto

Parameter	Type	Description
id	Integer	MR id
repository_id	Integer	Repository ID
title	String	MR title
description	String	MR description
state	String	MR status
source_branch	String	MR source branch name

Parameter	Type	Description
target_branch	String	MR target branch name
author	UserBasicDto object	User information
web_url	String	MR URL
create_at	String	Time when an MR was created
update_at	String	Last update time of an MR
sha	String	Commit ID of the target version of the current change
change_count	Integer	Number of changed files
diff_refs	DiffRefDto object	MR change commit, including base_sha, start_sha, and head_sha
added_lines	Integer	New line
removed_lines	Integer	Deleted line
changes	Array of FileChangeDto objects	Change file details list

Table 4-1195 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1196 FileChangeDto

Parameter	Type	Description
file_path	String	File path
old_path	String	Change file source branch path
new_path	String	Change file target branch path
a_mode	String	Old file permissions
b_mode	String	New file permissions
mode_changed	Boolean	Whether the file permission is changed

Parameter	Type	Description
file_type	String	File type
new_file	Boolean	New file or not
renamed_file	Boolean	Renamed file or not
deleted_file	Boolean	Deleted file or not
diff	String	Change file content
binary	Boolean	Binary file or not
too_large	Boolean	Large file or not
collapsed	Boolean	Folded file or not
added_lines	Integer	New lines in a file
removed_lines	Integer	Lines deleted from the file
content_sha	String	Latest commit ID of the file
diff_refs	DiffRefDto object	MR change commit, including base_sha, start_sha, and head_sha

Table 4-1197 DiffRefDto

Parameter	Type	Description
base_sha	String	Commit ID of the common ancestor shared by target and source branches
head_sha	String	Latest commit ID of the source branch
start_sha	String	Latest commit ID of the target branch

Status code: 400**Table 4-1198** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401

Table 4-1199 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

/v4/repositories/2111976239/merge-requests/6/changes

Example Responses

Status code: 200

OK

```
{
  "id" : 61415,
  "repository_id" : 2111784689,
  "title" : "Update dev",
  "description" : "merge \\\dev\\" into \\\master\\"\\nUpdate dev",
  "state" : "opened",
  "source_branch" : "dev",
  "target_branch" : "master",
  "author" : {
    "id" : 10311,
    "name" : "repo_xuxu",
    "name_cn" : "repo_xuxu",
    "nick_name" : "repo_xx",
    "tenant_name" : "example_name",
    "username" : "e2dd5152774149298b749e245523bc78",
    "state" : "active",
    "email" : "e2dd5152774149298b749e245523bc78@example.com",
    "web_url" : "https://example.com/e2dd5152774149298b749e245523bc78"
  },
  "web_url" : "https://example.com/yx_test_repo_yangxu00001/author_approval_test/merge_requests/12",
  "sha" : "7817fb2d9d65e64389ce4cebc542aa2948f45da5",
  "change_count" : 1,
  "diff_refs" : {
    "base_sha" : "ee792e378901e39008c6cbdd5bf01b056ba56e9b",
    "head_sha" : "7817fb2d9d65e64389ce4cebc542aa2948f45da5",
    "start_sha" : "283ae4a61aefac2c6c559544ca2af6d1a85ee02b"
  },
  "added_lines" : null,
  "removed_lines" : null,
  "changes" : [ {
    "file_path" : "dev",
    "old_path" : "dev",
    "new_path" : "dev",
    "a_mode" : 33188,
    "b_mode" : 33188,
    "mode_changed" : false,
    "file_type" : "text_type",
    "new_file" : false,
    "renamed_file" : false,
    "deleted_file" : false,
    "diff" : "@@ -1,3 +1,3 @@\\n-dev1111\\n+dev1111222222333\\n",
    "binary" : false,
    "too_large" : false,
```

```
"collapsed" : false,
"added_lines" : 1,
"removed_lines" : 1,
"content_sha" : "7817fb2d9d65e64389ce4cebc542aa2948f45da5",
"diff_refs" : {
  "base_sha" : "ee792e378901e39008c6cbdd5bf01b056ba56e9b",
  "head_sha" : "7817fb2d9d65e64389ce4cebc542aa2948f45da5",
  "start_sha" : "283ae4a61aefac2c6c559544ca2af6d1a85ee02b"
},
"create_at" : "2025-02-18T15:20:50.000+08:00",
"update_at" : "2025-02-26T14:45:45.000+08:00"
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.19 Obtaining the MR Associated with the Commit

Function

This API is used to obtain the MR associated with the commit.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/commits/{sha}/merge-requests

Table 4-1200 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
sha	Yes	String	Definition Commit ID.

Table 4-1201 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1202 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1203** Response body parameters

Parameter	Type	Description
[items]	Array of CommitMergeRequestDto objects	Details of the MR associated with the commit

Table 4-1204 CommitMergeRequestDto

Parameter	Type	Description
id	Integer	Definition MR ID.
iid	Integer	Definition MR No.
title	String	Definition MR title.
description	String	Definition MR detailed description.

Parameter	Type	Description
state	String	Definition MR status.
created_at	String	Definition Time when an MR was created.
updated_at	String	Definition Time when an MR was last updated.
merged_by	UserBasicDto object	Definition MR merger information.
merged_at	String	Definition Time when an MR was merged.
closed_by	UserBasicDto object	Definition MR closer information.
closed_at	String	Definition Time when an MR was closed.
target_branch	String	Definition MR target branch name.
source_branch	String	Definition MR source branch name.
user_notes_count	Integer	Definition Number of review comments of an MR.
upvotes	Integer	Definition Number of positive scores of an MR.
downvotes	Integer	Definition Number of negative scores of an MR.
author	UserBasicDto object	Definition MR author information.
assignee	Array of UserBasicDto objects	Definition List of selected mergers of an MR.
source_repository_id	Integer	Definition Unique identifier of a source repository.
target_repository_id	Integer	Definition Unique identifier of a target repository.

Parameter	Type	Description
labels	Array of strings	Definition List of labels associated with an MR.
work_in_progress	Boolean	Definition Whether an MR is in progress.
milestone	MilestoneBasicDto object	Definition Information about milestones associated with an MR.
merge_when_pipeline_succeeds	Boolean	Definition Whether to automatically merge the request when the CI/CD pipeline is successful.
merge_status	String	Definition Merge status of an MR.
sha	String	Definition Commit hash of an MR.
merge_commit_sha	String	Definition Hash value of the merge commit.
discussion_locked	Boolean	Definition Whether the MR discussion is locked.
force_remove_source_branch	Boolean	Definition Whether the source branch is forcibly deleted.
should_remove_source_branch	Boolean	Definition Whether the source branch should be deleted.
allow_collaboration	Boolean	Definition Whether collaborators can participate.
allow_maintainer_to_push	Boolean	Definition Whether the maintainer can push code.
web_url	String	Definition URL of an MR.
time_stats	IssuableTimeStatsDto object	Definition MR time statistics.

Parameter	Type	Description
squash	Boolean	Definition Whether to squash commits into one when merging.
merge_request_type	String	Definition MR type.

Table 4-1205 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias

Parameter	Type	Description
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1206 MilestoneBasicDto

Parameter	Type	Description
id	Integer	Milestone ID Value range: 1~2147483647
iid	Integer	Milestone IID Value range: 1~2147483647
repository_id	Integer	Repository ID. Value range: 1~2147483647
title	String	Milestone title
description	String	Milestone description
state	String	Status
created_at	String	Creation time
updated_at	String	Update time.
due_date	String	Expiration time
start_date	String	Start time
repository_path	String	Repository path
web_url	String	Homepage URL

Table 4-1207 IssuableTimeStatsDto

Parameter	Type	Description
time_estimate	Integer	Estimated MR time consumption Default value: 0
total_time_spent	Integer	Total MR time consumption Default value: 0
human_time_estimate	String	Estimated MR manual time consumption
human_total_time_spent	String	Total MR manual time consumption

Status code: 401**Table 4-1208** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1209** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{
  "id" : 72674,
  "iid" : 7,
  "title" : "Create a file",
  "description" : "test",
  "state" : "opened",
  "created_at" : "2025-05-21T20:03:32.000+08:00",
  "updated_at" : "2025-06-17T23:30:02.000+08:00",
  "merged_by" : null,
  "merged_at" : null,
  "closed_by" : null,
  "closed_at" : "2025-05-21T12:03:32.000+08:00",
  "target_branch" : "master",
  "source_branch" : "ddd1",
  "user_notes_count" : 0,
  "upvotes" : 0,
  "downvotes" : 0,
  "author" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "service_license_status" : null,
    "name_cn" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : null,
    "tenant_name" : null,
    "error_message" : null
  },
  "assignee" : null,
  "source_repository_id" : 2111983939,
  "target_repository_id" : 2111983939,
  "labels" : [ "Bug", "bug" ],
  "work_in_progress" : false,
  "milestone" : null,
  "merge_when_pipeline_succeeds" : false,
  "merge_status" : "can_be_merged",
  "sha" : "2ce8081da020a9bc394164925394b3de7609c7a0",
  "merge_commit_sha" : null,
  "discussion_locked" : null,
  "force_remove_source_branch" : false,
  "should_remove_source_branch" : false,
  "allow_collaboration" : null,
  "allow_maintainer_to_push" : null,
  "web_url" : "https://example.com/*****/2111983939/mergedetail?source=ddd1&target=master",
  "time_stats" : {
    "time_estimate" : null,
    "total_time_spent" : 0,
    "human_time_estimate" : null,
    "human_total_time_spent" : null
  },
  "squash" : false,
  "merge_request_type" : "MergeRequest"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized
404	Not Found

Error Codes

See [Error Codes](#).

4.1.11.20 Obtaining the MR list on the homepage

Function

This API is used to obtain the MR list on your homepage.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/merge-requests

Table 4-1210 Query Parameters

Parameter	Mandatory	Type	Description
state	No	String	Definition: Merge request status Constraints: • all: returns merge requests of all statuses. • opened: returns merge requests that are being opened. • closed: returns closed merge requests • locked: returns locked merge requests • merged: returns merged merge requests Default value: all Enumeration values: • opened • closed • locked • merged • all
order_by	No	String	Definition: Sorting method Constraints: • created_at: sorted by creation time. • updated_at: sorted by update time. • merged_at: sorted by merge time. Default value: created_at Enumeration values: • created_at • updated_at • merged_at

Parameter	Mandatory	Type	Description
sort	No	String	Definition: Sorting order Constraints: • asc: ascending order • desc: descending order Default value: desc Enumeration values: • asc • desc
labels	No	String	Definition: Label associated with the merge request.
created_before	No	String	Definition: Created before the specified time
created_after	No	String	Definition: Created after the specified time
updated_after	No	String	Definition: Update after the specified time
updated_before	No	String	Definition: Update before the specified time
view	No	String	Definition: Result set attribute. Different results are returned based on the given parameters. simple: simple data; basic: basic data Enumeration values: • simple • basic
author_id	No	String	Definition: Merge request creator

Parameter	Mandatory	Type	Description
scope	No	String	Definition: • created_by_me: merge requests created by me • assigned_to_me: merge requests to be merged by me • need_my_review: merge requests to be reviewed by me • need_my_approve: merge requests to be approved by me • all: all merge requests that I have permission to access Enumeration values: • created_by_me • assigned_to_me • need_my_review • need_my_approve • all
source_branch	No	String	Definition: Original merge request branch
target_branch	No	String	Definition: MR target branch
search	No	String	Definition: Filter keywords based on the merge request header and description
wip	No	String	Definition: Whether the merge request title contains the keyword WIP Enumeration values: • true • false
merged_by	No	String	Definition: MR merger
merged_after	No	String	Definition: Merged after the specified time

Parameter	Mandatory	Type	Description
merged_before	No	String	Definition: Merged before the specified time
offset	No	Integer	Definition: Pagination parameter offset
limit	No	Integer	Definition: Maximum number of records on a page.
only_count	No	Boolean	Definition: Whether to return only the total number of merge requests Default value: false

Request Parameters

Table 4-1211 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1212 Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestListBasicDto objects	MR basic information

Table 4-1213 MergeRequestListBasicDto

Parameter	Type	Description
id	Integer	Definition MR ID.
iid	Integer	Definition No. of the MR located in the current repository.
title	String	Definition MR title.
source_branch	String	Definition MR source branch.
target_branch	String	Definition MR target branch.
state	String	Definition MR status.
created_at	String	Definition Time when an MR was created.
updated_at	String	Definition MR update time.
source_repository_id	Integer	Definition MR source repository ID.
review_mode	String	Definition MR review mode.
author	UserBasicDto object	Definition MR author.
closed_at	String	Definition Time when an MR was closed.
closed_by	UserBasicDto object	Definition MR closer.

Parameter	Type	Description
merged_at	String	Definition Time when an MR was merged.
merged_by	UserBasicDto object	Definition MR merger.
pipeline_status	String	Definition MR pipeline status.
codequality_status	String	Definition MR code quality status.
pipeline_status_with_code_quality	String	Definition MR pipeline status.
notes	Integer	Definition MR review comment.
source_repository	ProjectSimpleDto object	Definition MR source repository information.
target_repository	ProjectSimpleDto object	Definition MR target repository information.
web_url	String	Definition MR URL.
added_lines	Integer	Definition Lines of code added in an MR.
removed_lines	Integer	Definition Lines of code deleted in an MR.
merge_request_type	String	Definition MR review mode.
source_git_url	String	Definition MR Git address.
labels	Array of Map<String,Object> objects	Definition MR label.
score	Integer	Definition MR score.
min_merged_score	Integer	Definition Minimum merge score of an MR.

Parameter	Type	Description
source_product_id	String	Definition MR source project ID.
target_product_id	String	Definition MR target project ID.
product_name	String	Definition MR project name.
notes_count	NotesCountDto object	Definition Number of MR review comments.
moderation_result	Boolean	Definition MR approving result.
moderation_time	Long	Definition MR approving time.
moderation_statuses	Integer	Definition MR approving status.

Table 4-1214 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1215 ProjectSimpleDto

Parameter	Type	Description
id	Integer	Repository ID.
description	String	Repository description
name	String	Repository name
name_with_name space	String	Organization name/Organization name.../Repository name
path	String	Repository path

Parameter	Type	Description
path_with_namespace	String	Complete repository path
created_at	String	Creation time
updated_at	String	Update time.
archived	Boolean	Archived or not
is_kia	Boolean	Confidential or not
ssh_url_to_repo	String	Repository SSH address
http_url_to_repo	String	Repository HTTP address
web_url	String	Repository page link
readme_url	String	Link to the readme file of the repository
project_id	String	Project ID
project_name	String	Project name
develop_mode	String	Repository development modes: normal and CR
moderation_result	Boolean	Approving status

Table 4-1216 NotesCountDto

Parameter	Type	Description
notes_count	Integer	Total number of review comments
unresolved_notes_count	Integer	Number of unresolved review comments
already_resolved_count	Integer	Number of resolved review comments
need_resolved_count	Integer	Total number of review comments to be resolved

Status code: 401

Table 4-1217 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

/v4/merge-requests

Example Responses

Status code: 200

OK

```
{
  "id" : 72674,
  "iid" : 7,
  "title" : "Create a file",
  "source_branch" : "ddd1",
  "target_branch" : "master",
  "state" : "opened",
  "created_at" : "2025-05-21T12:03:32.000+08:00",
  "updated_at" : "2025-06-17T15:30:02.000+08:00",
  "source_repository_id" : 2111983939,
  "review_mode" : "approval",
  "author" : {
    "id" : 9124,
    "name" : "test",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "service_license_status" : null,
    "name_cn" : "test",
    "nick_name" : "beta_dv",
    "tenant_name" : "example_name",
    "error_message" : null
  },
  "closed_at" : "2025-05-21T12:03:32.000+08:00",
  "closed_by" : null,
  "merged_at" : null,
  "merged_by" : null,
  "pipeline_status" : "",
  "codequality_status" : null,
  "pipeline_status_with_code_quality" : "",
  "notes" : 0,
  "web_url" : "https://example.com/*****/2111983939/7/mergedetail?source=ddd1&target=master",
  "added_lines" : 0,
  "removed_lines" : 0,
  "merge_request_type" : "MergeRequest",
  "source_git_url" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "labels" : [ {
    "color" : "#000",
    "name" : "Bug",
    "description" : "456",
    "id" : 8,
    "title" : "Bug",
    "type" : null,
    "textColor" : "#FFFFFF"
  }
]
```

```
{, {
  "color" : "#000",
  "name" : "bug",
  "description" : "456",
  "id" : 7,
  "title" : "bug",
  "type" : null,
  "textColor" : "#FFFFFF"
} ],
"score" : 0,
"min_merged_score" : null,
"source_project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
"target_project_id" : null,
"product_name" : null,
"notes_count" : null,
"moderation_result" : null,
"moderation_time" : null,
"moderation_status" : null,
"source_repository" : {
  "id" : 2111983939,
  "description" : "ddd",
  "name" : "dddd",
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / dddd",
  "path" : "dddd",
  "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "created_at" : "2024-11-30T17:46:46.000+08:00",
  "updated_at" : "2024-11-30T17:46:46.000+08:00",
  "archived" : false,
  "ssh_url_to_repo" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "http_url_to_repo" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "project_id" : null,
  "project_name" : null,
  "develop_mode" : null,
  "moderation_result" : null
},
"target_repository" : {
  "id" : 2111983939,
  "description" : "ddd",
  "name" : "dddd",
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / dddd",
  "path" : "dddd",
  "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "created_at" : "2024-11-30T17:46:46.000+08:00",
  "updated_at" : "2024-11-30T17:46:46.000+08:00",
  "archived" : false,
  "ssh_url_to_repo" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "http_url_to_repo" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "project_id" : null,
  "project_name" : null,
  "develop_mode" : null,
  "moderation_result" : null
}
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.21 Obtain the Merge Request Participant

Function

This API is used to obtain the merge request participant.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/participants

Table 4-1218 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1219 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1220 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1221 Response body parameters

Parameter	Type	Description
[items]	Array of UserBasicDto objects	User information

Table 4-1222 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1223** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1224** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 200**

ok

```
{
  "id" : 9124,
  "name" : "example_name",
  "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "state" : "active",
  "service_license_status" : null,
```

```
{
  "name_cn" : "example_name",
  "nick_name" : "beta_dv",
  "tenant_name" : "example_name",
  "error_message" : null
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized
404	Not Found

Error Codes

See [Error Codes](#).

4.1.11.22 Importing a Merge Request

Function

This API is used to import a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/import-merge-requests

Table 4-1225 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1226 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1227 Request body parameters

Parameter	Mandatory	Type	Description
iid	Yes	Integer	MR IID Value range: 1~9223372036854775807
source_uniq_key	Yes	String	Import the unique identifier

Parameter	Mandatory	Type	Description
author_id	No	Integer	Author ID Value range: 1~9223372036854775807
state	Yes	String	Status Enumeration values: • opened • closed • merged
title	No	String	Title
description	No	String	Description.
source_branch	Yes	String	Source branch
target_branch	Yes	String	Target branch
target_repository_id	Yes	String	Target repository
labels	No	Object	Label
created_at	No	String	Creation time
updated_at	No	String	Update time.
merged_at	No	String	Merge time
closed_at	No	String	Close time
approvers	No	Array of ApproverParamDto objects	Approver list
diff_refs	Yes	Object	MR change commit list
squash	No	Boolean	Squash merge
remove_source_branch	No	Boolean	Delete the source branch after MR merge
branch_is_deleted	No	Boolean	Whether the source branch is deleted
fork	No	Boolean	Whether the source MR is a fork MR
import_source_from	No	String	Import source

Table 4-1228 ApproverParamDto

Parameter	Mandatory	Type	Description
approver_id	No	Integer	Approver ID
code_owner	No	Boolean	Code owner
accept	No	Boolean	Accepted or not

Table 4-1229 DiffRefsParamDto

Parameter	Mandatory	Type	Description
base_sha	Yes	String	Common reference point of the source branch and target branch in an MR
start_sha	Yes	String	In an MR, the first commit point in the direction starting from the common reference point to the source branch.
head_sha	Yes	String	Commit point to which the source branch directs in an MR

Response Parameters

Status code: 200

Table 4-1230 Response body parameters

Parameter	Type	Description
id	Integer	MR ID
iid	Integer	MR IID
repository_id	Integer	Target repository ID
title	String	MR title
description	String	MR description
state	String	MR status
created_at	String	Creation time
updated_at	String	Update time.
source_branch	String	Source branch
target_branch	String	Target branch

Parameter	Type	Description
is_source_branch_protected	Boolean	Whether the source branch is a protected branch
devcloud_source_branch	String	Source branch
author	UserBasicExternalDto object	Author
source_repository_id	Integer	Source repository ID
target_repository_id	Integer	Target repository ID
source_project_id	String	Source project ID
target_project_id	String	Target project ID
labels	Array of objects	Label
work_in_progress	Boolean	Work in progress (WIP)
milestone	MilestoneBasicDto object	Milestone
merge_when_build_succeeds	Boolean	Automatically merged when the pipeline is successful
merge_status	String	Mergeable status
sha	String	Latest commit of the current MR
merge_commit_sha	String	Merge commit node
subscribed	Boolean	Subscription
merged_by	UserBasicExternalDto object	Merger
merged_at	String	Merge time
closed_by	UserBasicExternalDto object	Closer
closed_at	String	Close time
user_notes_count	Integer	Number of review comments
force_remove_source_branch	Boolean	Delete source branch after merge
web_url	String	Homepage URL

Parameter	Type	Description
merge_request_diff	MergeRequestDiffExternalDto object	MR diff
merge_request_reviewers_count	Integer	Number of scorers
merge_request_review_count	Integer	Scoring
merge_request_reviewer_list	Array of MergeRequestReviewerExternalDto objects	Scorer list
merge_request_as_signee_list	Array of UserBasicExternalDto objects	Merger list
notes	Integer	Review comment
codecheck_state	Integer	Code check status
codecheck_defect_count	Integer	Code check issues
merge_request_related_work_items	Array of MergeRequestRelatedWorkItemDto objects	Number of associated tickets of an MR
diverged_commits_count	Integer	Number of commits that a source branch is behind
moderation_result	Boolean	Approving result
moderation_time	Long	Timestamp of approving submission Value range: 1~9223372036854775807
moderation_statuses	Integer	Approving status code Value range: 1~2147483647
is_use_temp_branch	Boolean	Use temporary branch or not
review_mode	String	Review mode
squash	Boolean	Squash merge
approval_merge_request_approvers	Array of ApprovalUserDto objects	Approver in the approval mode

Parameter	Type	Description
approval_merge_request_reviewers	Array of ApprovalUserDto objects	Reviewer in the approval mode
source_repository	ProjectSimpleDto object	Source repository
target_repository	ProjectSimpleDto object	Target repository
is_source_branch_exist	Boolean	Source branch exists
merge_request_type	String	MR type
squash_commit_message	String	Squash commit information
auto_merge	Boolean	Auto merge
merge_error	String	Original MR error information
json_merge_error	MergeErrorDto object	MR error information
rebase_in_progress	Boolean	Whether rebase is in progress

Table 4-1231 MilestoneBasicDto

Parameter	Type	Description
id	Integer	Milestone ID Value range: 1~2147483647
iid	Integer	Milestone IID Value range: 1~2147483647
repository_id	Integer	Repository ID. Value range: 1~2147483647
title	String	Milestone title
description	String	Milestone description
state	String	Status

Parameter	Type	Description
created_at	String	Creation time
updated_at	String	Update time.
due_date	String	Expiration time
start_date	String	Start time
repository_path	String	Repository path
web_url	String	Homepage URL

Table 4-1232 UserBasicExternalDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
name	String	Name
username	String	Username
state	String	Status
avatar_url	String	Profile picture URL
web_url	String	Homepage URL
nick_name	String	User alias
tenant_name	String	Tenant name

Table 4-1233 MergeRequestDiffExternalDto

Parameter	Type	Description
id	Integer	Diff ID of an MR Value range: 1~2147483647
state	String	Status
merge_request_id	Integer	MR ID Value range: 1~2147483647
created_at	String	Creation time

Parameter	Type	Description
updated_at	String	Update time.
base_commit_sha	String	Base commit node
real_size	String	Number of diff files
head_commit_sha	String	Head commit node
start_commit_sha	String	Start commit node
commits_count	Integer	Number of commits Value range: 1~2147483647
external_diff	String	External diff file
external_diff_store	Integer	External difference storage Value range: 1~2147483647
stored_externally	Boolean	External storage or not
added_lines	Integer	Number of new lines Value range: 0~2147483647
removed_lines	Integer	Number of deleted lines Value range: 0~2147483647

Table 4-1234 MergeRequestReviewerExternalDto

Parameter	Type	Description
id	Integer	Scorer ID Value range: 1~2147483647
username	String	Scorer name
name	String	Scorer name
nick_name	String	Scorer alias
state	Boolean	Scorer status
score	Integer	Scoring Value range: -2~2

Parameter	Type	Description
tenant_name	String	Tenant name

Table 4-1235 MergeRequestRelatedWorkItemDto

Parameter	Type	Description
id	Integer	Association ID Value range: 1~2147483647
user_id	String	User ID
repo_id	Integer	Repository ID Value range: 1~2147483647
merge_request_id	Integer	MR ID Value range: 1~2147483647
target_branch	String	Target branch
source_branch	String	Source branch
merge_request_title	String	MR title
merge_request_url	String	MR URL
merge_request_state	String	MR status
related_id	String	Associated ticket ID
related_title	String	Associated ticket title
related_url	String	Associated ticket URL
result	Integer	Association result
message	String	Association result information
create_at	String	Creation time
update_at	String	Update time.
subject	String	Topic
tracker	Object	Ticket follower
status	Object	Status

Table 4-1236 ApprovalUserDto

Parameter	Type	Description
id	Integer	User ID Value range: 1~2147483647
username	String	Username
name	String	Username
nick_name	String	User alias
name_cn	String	Name (CN)
email	String	Email
state	String	Status
updated_at	String	Update time
avatar_url	String	Profile picture URL
tenant_name	String	Tenant name
approver_comment	String	Approving comments

Table 4-1237 ProjectSimpleDto

Parameter	Type	Description
id	Integer	Repository ID.
description	String	Repository description
name	String	Repository name
name_with_name space	String	Organization name/Organization name.../Repository name
path	String	Repository path
path_with_names pace	String	Complete repository path
created_at	String	Creation time
updated_at	String	Update time.
archived	Boolean	Archived or not
is_kia	Boolean	Confidential or not
ssh_url_to_repo	String	Repository SSH address

Parameter	Type	Description
http_url_to_repo	String	Repository HTTP address
web_url	String	Repository page link
readme_url	String	Link to the readme file of the repository
project_id	String	Project ID
project_name	String	Project name
develop_mode	String	Repository development modes: normal and CR
moderation_result	Boolean	Approving status

Table 4-1238 MergeErrorDto

Parameter	Type	Description
merge_user_name	String	Merger name
merge_start_time	String	Merge time
error_title	String	Error title
http_code_status	String	Status code
error_code	String	Error code
error_message	String	Error message

Status code: 401**Table 4-1239** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/import-merge-requests  
  
{  
  "iid" : 9223372036854776000,
```

```
"source_uniq_key" : "string",
"author_id" : 9223372036854776000,
"state" : "string",
"title" : "string",
"description" : "string",
"source_branch" : "string",
"target_branch" : "string",
"target_repository_id" : "string",
"labels" : { },
"created_at" : "string",
"updated_at" : "string",
"merged_at" : "string",
"closed_at" : "string",
"approvers" : [ { } ],
"diff_refs" : {
  "base_sha" : "ssssssssshhhhhhhhaaaa",
  "start_sha" : "ssssssssshhhhhhhhaaaa",
  "head_sha" : "ssssssssxxxxxxxxaaaa"
},
"squash" : true,
"remove_source_branch" : true,
"branch_is_deleted" : true,
"fork" : true,
"import_source_from" : "string"
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 47858,
  "iid" : 1,
  "repository_id" : 2111983939,
  "title" : "Create file d",
  "description" : "merge \"ddd\" into \"master\"\nCreate file d",
  "state" : "opened",
  "created_at" : "2024-11-30T17:47:53.000+08:00",
  "updated_at" : "2025-03-06T17:43:39.000+08:00",
  "source_branch" : "ddd",
  "target_branch" : "master",
  "is_source_branch_protected" : false,
  "devcloud_source_branch" : "ddd",
  "author" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : "",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "dev",
    "tenant_name" : "example_name"
  },
  "source_repository_id" : 2111983939,
  "target_repository_id" : 2111983939,
  "source_project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
  "target_project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
  "labels" : [ ],
  "work_in_progress" : false,
  "milestone" : null,
  "merge_when_build_succeeds" : false,
  "merge_status" : "can_be_merged",
  "sha" : "4f14849504009dd415b288f7ab21420933ecb516",
  "merge_commit_sha" : null,
  "subscribed" : true,
  "merged_by" : null,
  "merged_at" : null,
}
```

```
"closed_by" : null,
"closed_at" : null,
"user_notes_count" : 0,
"force_remove_source_branch" : false,
"web_url" : "https://example.com/*****/2111983939/1/mergedetail?source=ddd&target=master",
"merge_request_diff" : {
  "id" : 70760,
  "state" : "collected",
  "merge_request_id" : 47858,
  "created_at" : "2024-11-30T17:47:53.000+08:00",
  "updated_at" : "2024-11-30T17:47:53.000+08:00",
  "base_commit_sha" : "c4f7b1bed9a869f64c90050311fad29ad4e40eb4",
  "real_size" : "1",
  "head_commit_sha" : "4f14849504009dd415b288f7ab21420933ecb516",
  "start_commit_sha" : "c4f7b1bed9a869f64c90050311fad29ad4e40eb4",
  "commits_count" : 1,
  "external_diff" : "diff-70760",
  "external_diff_store" : 1,
  "stored_externally" : true,
  "added_lines" : 1,
  "removed_lines" : 0
},
"merge_request_reviewers_count" : 0,
"merge_request_review_count" : 0,
"merge_request_reviewer_list" : [ ],
"merge_request_assignee_list" : [ ],
"notes" : 0,
"codecheck_state" : 7,
"codecheck_defect_count" : 0,
"merge_request_related_work_items" : [ ],
"diverged_commits_count" : 6,
"moderation_result" : true,
"moderation_time" : 0,
"moderation_status" : 0,
"is_use_temp_branch" : false,
"review_mode" : "approval",
"squash" : false,
"approval_merge_request_approvers" : [ ],
"approval_merge_request_reviewers" : [ ],
"source_repository" : {
  "id" : 2111983939,
  "description" : "ddd",
  "name" : "dddd",
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / dddd",
  "path" : "dddd",
  "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "created_at" : "2024-11-30T17:46:46.000+08:00",
  "updated_at" : "2024-11-30T17:46:46.000+08:00",
  "archived" : false,
  "is_kia" : false,
  "ssh_url_to_repo" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "http_url_to_repo" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd.git",
  "web_url" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "readme_url" : null,
  "project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
  "project_name" : null,
  "develop_mode" : "normal",
  "moderation_result" : true
},
"target_repository" : {
  "id" : 2111983939,
  "description" : "ddd",
  "name" : "dddd",
  "name_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f / dddd",
  "path" : "dddd",
  "path_with_namespace" : "3e1f6634946144c2b1ccb46fb8152b8f/dddd",
  "created_at" : "2024-11-30T17:46:46.000+08:00",
  "updated_at" : "2024-11-30T17:46:46.000+08:00",
  "archived" : false,
```

```
"is_kia" : false,
"ssh_url_to_repo" : "git@example.com:3e1f6634946144c2b1ccb46fb8152b8f/ddd.git",
"http_url_to_repo" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/ddd.git",
"web_url" : "https://example.com/3e1f6634946144c2b1ccb46fb8152b8f/ddd",
"readme_url" : null,
"project_id" : "3e1f6634946144c2b1ccb46fb8152b8f",
"project_name" : null,
"develop_mode" : "normal",
"moderation_result" : true
},
"is_source_branch_exist" : true,
"merge_request_type" : "MergeRequest",
"squash_commit_message" : null,
"auto_merge" : false,
"merge_error" : null,
"json_merge_error" : null,
"rebase_in_progress" : false
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.23 Obtaining Branch Code Conflicts

Function

This API is used to obtain branch code conflicts.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/conflict

Table 4-1240 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1241 Query Parameters

Parameter	Mandatory	Type	Description
source_repository_id	Yes	Integer	Definition Query the specified source repository data. Value range: 1~2147483647
source_branch	Yes	String	Definition Source branch.
target_branch	Yes	String	Definition Target branch.
target_repository_id	Yes	Integer	Definition Target repository ID. Repository to which the code is to be merged when an MR is created. Value range: 1~2147483647

Request Parameters

Table 4-1242 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1243** Response body parameters

Parameter	Type	Description
source_repository_id	Integer	Source repository ID
target_repository_id	Integer	Target repository ID
source_branch	String	Source branch
target_branch	String	Target branch
is_conflict	Boolean	Whether conflicts exist

Status code: 401**Table 4-1244** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "source_repository_id" : 9,
  "target_repository_id" : 9,
  "source_branch" : "dev",
  "is_conflict" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.24 Updating the Repository Merge Request Settings

Function

This API is used to update the repository merge request settings of a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/setting

Table 4-1245 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1246 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1247 Request body parameters

Parameter	Mandatory	Type	Description
review_mode	No	String	Definition Merge method. Enumeration values: • approval • vote
only_allow_merge_if_all_discussions_are_resolved	No	Boolean	Definition Merge after all reviews are resolved.
must_relate_issue	No	Boolean	Definition Must be associated with CodeArts Req.
only_allow_one_issue_check_passed	No	Boolean	Definition Associate only one ticket number.
need_all_issues_check_passed	No	Boolean	Definition Must be associated with CodeArts Req - All E2E ticket numbers must pass the verification.
need_relate_issue_branches	No	String	Definition Must be associated with CodeArts Req - Select the target branch and configure the MR policy (a character string in which branches are separated by commas).
evaluation_merge_gate	No	Boolean	Definition Use score as a merge gate.

Parameter	Mandatory	Type	Description
evaluation_role	No	Integer	Definition Whether to use the score as a merge gate - roles that participate in the evaluation. 29: Developer 30: Developer and committer 35: Committer 40: None Enumeration values: • 29 • 30 • 35 • 40
disable_merge_by_self	No	Boolean	Definition Cannot merge one's own merge requests.
disable_approve_by_self	No	Boolean	Definition Cannot approve one's own merge requests.
disable_review_by_self	No	Boolean	Definition Cannot review one's own merge requests.
can_force_merge	No	Boolean	Definition Allow repo administrator or project manager to forcibly merge code.
add_notes_after_merged	No	Boolean	Definition Allow code review and comment for merged or closed MRs.
mark_automatically_merged_mr_as_closed	No	Boolean	Definition Whether to mark the automatically merged MRs as closed.
can_reopen	No	Boolean	Definition Cannot re-open a closed MR.
delete_source_branch_when_merged	No	Boolean	Definition Delete source branch after merge for new MRs.

Parameter	Mandatory	Type	Description
disable_squash_merge	No	Boolean	Definition Forbid squash merge (Forbid to select squash merge when creating an MR).
auto_squash_merge	No	Boolean	Definition Enable Squash merge for new MRs.
merge_method	No	String	Definition Merge method. merge: Merge commit. rebase_merge: Merge commit with semi-linear history. ff: Fast-forward. Enumeration values: • merge • rebase_merge • ff
squash_merge_with_no_merge_commit	No	Boolean	Definition Do not generate Merge nodes during Squash merge.
merged_commit_author	No	String	Definition merged_by: Use MR merger to generate Merge Commit. created_by: Use MR creator to generate Merge Commit. Enumeration values: • merged_by • created_by
enable_custom_evaluation	No	Boolean	Definition Enable MR custom evaluation dimension type (MR evaluation settings).
evaluation_types	No	Array of strings	Definition Evaluation dimension (MR evaluation setting).

Parameter	Mandatory	Type	Description
only_allow_merge_if_vote_bigger_than	No	Integer	Definition Minimum score for merge in the score mode. Value range: 0~5
only_assignee_can_merge	No	Boolean	Definition: Only mergers can merge MRs.

Response Parameters

Status code: 200

Table 4-1248 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID. Value range: 1~2147483647
disable_merge_by_self	Boolean	Definition Cannot merge one's own merge requests.
disable_approve_by_self	Boolean	Definition Cannot approve one's own merge requests.
disable_review_by_self	Boolean	Definition Cannot review one's own merge requests.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
can_force_merge	Boolean	Definition Allow repo administrator or project manager to forcibly merge code.
disable_squash_merge	Boolean	Definition Forbid squash merge (Forbid to select squash merge when creating an MR).

Parameter	Type	Description
must_relate_issue	Boolean	Definition Must be associated with CodeArts Req.
need_relate_issue_branches	String	Definition Must be associated with CodeArts Req - Select the target branch and configure the MR policy (a character string in which branches are separated by commas).
need_all_issues_check_passed	Boolean	Definition Must be associated with CodeArts Req - All E2E ticket numbers must pass the verification.
review_mode	String	Definition Merge method. Enumeration values: • approval • vote
add_notes_after_merged	Boolean	Definition Allow code review and comment for merged or closed MRs.
merged_commit_author	String	Definition merged_by: Use MR merger to generate Merge Commit. created_by: Use MR creator to generate Merge Commit. Enumeration values: • merged_by • created_by

Parameter	Type	Description
evaluation_role	Integer	Definition Whether to use the score as a merge gate - roles that participate in the evaluation. 29: Developer 30: Developer and committer 35: Committer 40: None Enumeration values: • 29 • 30 • 35 • 40
evaluation_merge_gate	Boolean	Definition Use score as a merge gate.
mark_auto_merged_mr_as_closed	Boolean	Definition Whether to mark the automatically merged MRs as closed.
delete_source_branch_when_merged	Boolean	Definition Delete source branch after merge for new MRs.
auto_squash_merge	Boolean	Definition Enable Squash merge for new MRs.
squash_merge_with_no_merge_commit	Boolean	Definition Do not generate Merge nodes during Squash merge.
only_allow_one_issue_check_passed	Boolean	Definition Associate only one ticket number.
enable_custom_evaluation	Boolean	Definition Enable MR custom evaluation dimension type (MR evaluation settings).
evaluation_types	Array of EvaluationTypeDto objects	Definition Evaluation dimension (MR evaluation setting).
can_reopen	Boolean	Definition Cannot re-open a closed MR.

Parameter	Type	Description
only_allow_merge_if_all_discussions_are_resolved	Boolean	Definition Merge after all reviews are resolved.
merge_method	String	Definition Merge method. merge: Merge commit. rebase_merge: Merge commit with semi-linear history. ff: Fast-forward. Enumeration values: • merge • rebase_merge • ff
only_allow_merge_if_vote_bigger_than	Integer	Definition Minimum score for merge in the score mode. Value range: 0~5
only_assignee_can_merge	Boolean	Definition Only these mergers can merge MRs.
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647

Table 4-1249 EvaluationTypeDto

Parameter	Type	Description
id	Integer	Definition Custom evaluation primary key ID. Value range: 1~2147483647
name	String	Definition Custom evaluation name.

Status code: 401

Table 4-1250 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/merge-requests/setting
{
  "disable_merge_by_self" : false,
  "disable_review_by_self" : false,
  "disable_approve_by_self" : false,
  "can_force_merge" : false,
  "disable_squash_merge" : false,
  "must_relate_issue" : false,
  "need_relate_issue_branches" : "dev, master",
  "need_all_issues_check_passed" : false,
  "review_mode" : "vote",
  "evaluation_types" : "a, b",
  "can_reopen" : true,
  "only_allow_merge_if_all_discussions_are_resolved" : false,
  "merge_method" : "ff",
  "only_allow_merge_if_vote_bigger_than" : 0,
  "only_assignee_can_merge" : true
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 3223015,
  "disable_merge_by_self" : false,
  "disable_review_by_self" : false,
  "disable_approve_by_self" : false,
  "created_at" : "2025-02-25T19:44:44.000+08:00",
  "updated_at" : "2025-02-25T20:07:32.000+08:00",
  "can_force_merge" : false,
  "disable_squash_merge" : false,
  "must_relate_issue" : false,
  "need_relate_issue_branches" : null,
  "need_all_issues_check_passed" : false,
  "review_mode" : "vote",
  "add_notes_after_merged" : false,
  "merged_commit_author" : "created_by",
  "evaluation_role" : 35,
  "evaluation_merge_gate" : true,
  "mark_auto_merged_mr_as_closed" : false,
  "delete_source_branch_when_merged" : false,
  "auto_squash_merge" : true,
  "squash_merge_with_no_merge_commit" : false,
  "only_allow_one_issue_check_passed" : false,
  "enable_custom_evaluation" : true,
  "evaluation_types" : [ {
    "id" : 32,
```

```
"name" : "a"
}, {
  "id" : 33,
  "name" : "b"
}],
"can_reopen" : true,
"only_allow_merge_if_all_discussions_are_resolved" : false,
"merge_method" : "ff",
"only_allow_merge_if_vote_bigger_than" : 0,
"only_assignee_can_merge" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.25 Obtaining Merge Request Settings

Function

This API is used to obtain the merge request settings of a repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/setting

Table 4-1251 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1252 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1253 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID. Value range: 1~2147483647
disable_merge_by_self	Boolean	Definition Cannot merge one's own merge requests.
disable_approve_by_self	Boolean	Definition Cannot approve one's own merge requests.
disable_review_by_self	Boolean	Definition Cannot review one's own merge requests.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
can_force_merge	Boolean	Definition Allow repo administrator or project manager to forcibly merge code.
disable_squash_merge	Boolean	Definition Forbid squash merge (Forbid to select squash merge when creating an MR).
must_relate_issue	Boolean	Definition Must be associated with CodeArts Req.
need_relate_issue_branches	String	Definition Must be associated with CodeArts Req - Select the target branch and configure the MR policy (a character string in which branches are separated by commas).
need_all_issues_check_passed	Boolean	Definition Must be associated with CodeArts Req - All E2E ticket numbers must pass the verification.

Parameter	Type	Description
review_mode	String	Definition Merge method. Enumeration values: • approval • vote
add_notes_after_merged	Boolean	Definition Allow code review and comment for merged or closed MRs.
merged_commit_author	String	Definition merged_by: Use MR merger to generate Merge Commit. created_by: Use MR creator to generate Merge Commit. Enumeration values: • merged_by • created_by
evaluation_role	Integer	Definition Whether to use the score as a merge gate - roles that participate in the evaluation. 29: Developer 30: Developer and committer 35: Committer 40: None Enumeration values: • 29 • 30 • 35 • 40
evaluation_merge_gate	Boolean	Definition Use score as a merge gate.
mark_auto_merged_mr_as_closed	Boolean	Definition Whether to mark the automatically merged MRs as closed.
delete_source_branch_when_merged	Boolean	Definition Delete source branch after merge for new MRs.

Parameter	Type	Description
auto_squash_merge	Boolean	Definition Enable Squash merge for new MRs.
squash_merge_with_no_merge_commit	Boolean	Definition Do not generate Merge nodes during Squash merge.
only_allow_one_issue_check_passed	Boolean	Definition Associate only one ticket number.
enable_custom_evaluation	Boolean	Definition Enable MR custom evaluation dimension type (MR evaluation settings).
evaluation_types	Array of EvaluationTypeDto objects	Definition Evaluation dimension (MR evaluation setting).
can_reopen	Boolean	Definition Cannot re-open a closed MR.
only_allow_merge_if_all_discussions_are_resolved	Boolean	Definition Merge after all reviews are resolved.
merge_method	String	Definition Merge method. merge: Merge commit. rebase_merge: Merge commit with semi-linear history. ff: Fast-forward. Enumeration values: • merge • rebase_merge • ff
only_allow_merge_if_vote_bigger_than	Integer	Definition Minimum score for merge in the score mode. Value range: 0~5
only_assignee_can_merge	Boolean	Definition Only these mergers can merge MRs.

Parameter	Type	Description
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647

Table 4-1254 EvaluationTypeDto

Parameter	Type	Description
id	Integer	Definition Custom evaluation primary key ID. Value range: 1~2147483647
name	String	Definition Custom evaluation name.

Status code: 401**Table 4-1255** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : 3223015,
  "disable_merge_by_self" : false,
  "disable_review_by_self" : false,
  "disable_approve_by_self" : false,
  "created_at" : "2025-02-25T19:44:44.000+08:00",
  "updated_at" : "2025-02-25T20:07:32.000+08:00",
```



```
"can_force_merge" : false,
"disable_squash_merge" : false,
"must_relate_issue" : false,
"need_relate_issue_branches" : null,
"need_all_issues_check_passed" : false,
"review_mode" : "vote",
"add_notes_after_merged" : false,
"merged_commit_author" : "created_by",
"evaluation_role" : 35,
"evaluation_merge_gate" : true,
"mark_auto_merged_mr_as_closed" : false,
"delete_source_branch_when_merged" : false,
"auto_squash_merge" : true,
"squash_merge_with_no_merge_commit" : false,
"only_allow_one_issue_check_passed" : false,
"enable_custom_evaluation" : true,
"evaluation_types" : [ {
  "id" : 32,
  "name" : "a"
}, {
  "id" : 33,
  "name" : "b"
} ],
"can_reopen" : true,
"only_allow_merge_if_all_discussions_are_resolved" : false,
"merge_method" : "ff",
"only_allow_merge_if_vote_bigger_than" : 0,
"only_assignee_can_merge" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.26 Obtaining Repository Group MR Settings

Function

This API is used to obtain repository group MR settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/merge-requests/setting

Table 4-1256 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-1257 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1258 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID. Value range: 1~2147483647
disable_merge_by_self	Boolean	Definition Cannot merge one's own merge requests.
disable_approve_by_self	Boolean	Definition Cannot approve one's own merge requests.
disable_review_by_self	Boolean	Definition Cannot review one's own merge requests.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
can_force_merge	Boolean	Definition Allow repo administrator or project manager to forcibly merge code.
disable_squash_merge	Boolean	Definition Forbid squash merge (Forbid to select squash merge when creating an MR).
must_relate_issue	Boolean	Definition Must be associated with CodeArts Req.
need_relate_issue_branches	String	Definition Must be associated with CodeArts Req - Select the target branch and configure the MR policy (a character string in which branches are separated by commas).
need_all_issues_check_passed	Boolean	Definition Must be associated with CodeArts Req - All E2E ticket numbers must pass the verification.

Parameter	Type	Description
review_mode	String	Definition Merge method. Enumeration values: • approval • vote
add_notes_after_merged	Boolean	Definition Allow code review and comment for merged or closed MRs.
merged_commit_author	String	Definition merged_by: Use MR merger to generate Merge Commit. created_by: Use MR creator to generate Merge Commit. Enumeration values: • merged_by • created_by
evaluation_role	Integer	Definition Whether to use the score as a merge gate - roles that participate in the evaluation. 29: Developer 30: Developer and committer 35: Committer 40: None Enumeration values: • 29 • 30 • 35 • 40
evaluation_merge_gate	Boolean	Definition Use score as a merge gate.
mark_auto_merged_mr_as_closed	Boolean	Definition Whether to mark the automatically merged MRs as closed.
delete_source_branch_when_merged	Boolean	Definition Delete source branch after merge for new MRs.

Parameter	Type	Description
auto_squash_merge	Boolean	Definition Enable Squash merge for new MRs.
squash_merge_with_no_merge_commit	Boolean	Definition Do not generate Merge nodes during Squash merge.
only_allow_one_issue_check_passed	Boolean	Definition Associate only one ticket number.
enable_custom_evaluation	Boolean	Definition Enable MR custom evaluation dimension type (MR evaluation settings).
evaluation_types	Array of EvaluationTypeDto objects	Definition Evaluation dimension (MR evaluation setting).
can_reopen	Boolean	Definition Cannot re-open a closed MR.
only_allow_merge_if_all_discussions_are_resolved	Boolean	Definition Merge after all reviews are resolved.
merge_method	String	Definition Merge method. merge: Merge commit. rebase_merge: Merge commit with semi-linear history. ff: Fast-forward. Enumeration values: • merge • rebase_merge • ff
only_allow_merge_if_vote_bigger_than	Integer	Definition Minimum score for merge in the score mode. Value range: 0~5
only_assignee_can_merge	Boolean	Definition Only these mergers can merge MRs.

Parameter	Type	Description
group_id	Integer	Definition Repository group ID. Value range: 1~2147483647

Table 4-1259 EvaluationTypeDto

Parameter	Type	Description
id	Integer	Definition Custom evaluation primary key ID. Value range: 1~2147483647
name	String	Definition Custom evaluation name.

Status code: 401

Table 4-1260 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : 3223015,
  "group_id" : 2843320,
  "disable_merge_by_self" : false,
  "disable_review_by_self" : false,
  "disable_approve_by_self" : false,
  "created_at" : "2025-02-25T19:44:44.000+08:00",
```

```
"updated_at" : "2025-02-25T20:07:32.000+08:00",
"can_force_merge" : false,
"disable_squash_merge" : false,
"must_relate_issue" : false,
"need_relate_issue_branches" : null,
"need_all_issues_check_passed" : false,
"review_mode" : "vote",
"add_notes_after_merged" : false,
"merged_commit_author" : "created_by",
"evaluation_role" : 35,
"evaluation_merge_gate" : true,
"mark_auto_merged_mr_as_closed" : false,
"delete_source_branch_when_merged" : false,
"auto_squash_merge" : true,
"squash_merge_with_no_merge_commit" : false,
"only_allow_one_issue_check_passed" : false,
"enable_custom_evaluation" : true,
"evaluation_types" : [ {
  "id" : 32,
  "name" : "a"
}, {
  "id" : 33,
  "name" : "b"
} ],
"can_reopen" : true,
"only_allow_merge_if_all_discussions_are_resolved" : false,
"merge_method" : "ff",
"only_allow_merge_if_vote_bigger_than" : 0,
"only_assignee_can_merge" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.11.27 Obtaining Project MR Settings****Function**

This API is used to obtain project MR settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/merge-requests/setting

Table 4-1261 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-1262 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1263 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID. Value range: 1~2147483647
disable_merge_by_self	Boolean	Definition Cannot merge one's own merge requests.
disable_approve_by_self	Boolean	Definition Cannot approve one's own merge requests.
disable_review_by_self	Boolean	Definition Cannot review one's own merge requests.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
can_force_merge	Boolean	Definition Allow repo administrator or project manager to forcibly merge code.
disable_squash_merge	Boolean	Definition Forbid squash merge (Forbid to select squash merge when creating an MR).
must_relate_issue	Boolean	Definition Must be associated with CodeArts Req.
need_relate_issue_branches	String	Definition Must be associated with CodeArts Req - Select the target branch and configure the MR policy (a character string in which branches are separated by commas).
need_all_issues_check_passed	Boolean	Definition Must be associated with CodeArts Req - All E2E ticket numbers must pass the verification.

Parameter	Type	Description
review_mode	String	Definition Merge method. Enumeration values: • approval • vote
add_notes_after_merged	Boolean	Definition Allow code review and comment for merged or closed MRs.
merged_commit_author	String	Definition merged_by: Use MR merger to generate Merge Commit. created_by: Use MR creator to generate Merge Commit. Enumeration values: • merged_by • created_by
evaluation_role	Integer	Definition Whether to use the score as a merge gate - roles that participate in the evaluation. 29: Developer 30: Developer and committer 35: Committer 40: None Enumeration values: • 29 • 30 • 35 • 40
evaluation_merge_gate	Boolean	Definition Use score as a merge gate.
mark_auto_merged_mr_as_closed	Boolean	Definition Whether to mark the automatically merged MRs as closed.
delete_source_branch_when_merged	Boolean	Definition Delete source branch after merge for new MRs.

Parameter	Type	Description
auto_squash_merge	Boolean	Definition Enable Squash merge for new MRs.
squash_merge_with_no_merge_commit	Boolean	Definition Do not generate Merge nodes during Squash merge.
only_allow_one_issue_check_passed	Boolean	Definition Associate only one ticket number.
enable_custom_evaluation	Boolean	Definition Enable MR custom evaluation dimension type (MR evaluation settings).
evaluation_types	Array of EvaluationTypeDto objects	Definition Evaluation dimension (MR evaluation setting).
can_reopen	Boolean	Definition Cannot re-open a closed MR.
only_allow_merge_if_all_discussions_are_resolved	Boolean	Definition Merge after all reviews are resolved.
merge_method	String	Definition Merge method. merge: Merge commit. rebase_merge: Merge commit with semi-linear history. ff: Fast-forward. Enumeration values: • merge • rebase_merge • ff
only_allow_merge_if_vote_bigger_than	Integer	Definition Minimum score for merge in the score mode. Value range: 0~5
only_assignee_can_merge	Boolean	Definition Only these mergers can merge MRs.

Parameter	Type	Description
project_id	String	Definition Project ID.

Table 4-1264 EvaluationTypeDto

Parameter	Type	Description
id	Integer	Definition Custom evaluation primary key ID. Value range: 1~2147483647
name	String	Definition Custom evaluation name.

Status code: 401

Table 4-1265 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : 3223015,
  "project_id" : "4f96a4f00f17466bab756a2379236c85",
  "disable_merge_by_self" : false,
  "disable_review_by_self" : false,
  "disable_approve_by_self" : false,
  "created_at" : "2025-02-25T19:44:44.000+08:00",
  "updated_at" : "2025-02-25T20:07:32.000+08:00",
  "can_force_merge" : false,
  "disable_squash_merge" : false,
```

```
"must_relate_issue" : false,
"need_relate_issue_branches" : null,
"need_all_issues_check_passed" : false,
"review_mode" : "vote",
"add_notes_after_merged" : false,
"merged_commit_author" : "created_by",
"evaluation_role" : 35,
"evaluation_merge_gate" : true,
"mark_auto_merged_mr_as_closed" : false,
"delete_source_branch_when_merged" : false,
"auto_squash_merge" : true,
"squash_merge_with_no_merge_commit" : false,
"only_allow_one_issue_check_passed" : false,
"enable_custom_evaluation" : true,
"evaluation_types" : [ {
  "id" : 32,
  "name" : "a"
}, {
  "id" : 33,
  "name" : "b"
} ],
"can_reopen" : true,
"only_allow_merge_if_all_discussions_are_resolved" : false,
"merge_method" : "ff",
"only_allow_merge_if_vote_bigger_than" : 0,
"only_assignee_can_merge" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.28 Creating a Merge Request Template

Function

This API is used to create a merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/merge-requests/templates

Table 4-1266 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1267 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1268 Request body parameters

Parameter	Mandatory	Type	Description
template_name	Yes	String	Definition Template name.

Parameter	Mandatory	Type	Description
merge_request_title	No	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
description	No	String	Definition Description.
auto_extract_mr_title	No	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
is_wip	No	Boolean	Definition Whether to add [WIP] to the title.
is_default	No	Boolean	Definition Whether to set as the default template.

Response Parameters

Status code: 200

Table 4-1269 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition: Repository ID.
description	String	Definition Description.
created_at	String	Definition Creation time.

Parameter	Type	Description
updated_at	String	Definition Update time.
template_name	String	Definition Template name.
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.

Table 4-1270 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1271** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/merge-requests/templates
{
  "template_name" : "name",
  "merge_request_title" : "title",
  "description" : "description",
  "auto_extract_mr_title" : 0,
  "is_wip" : true,
  "is_default" : true
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 2278,
  "repository_id" : 2111987241,
  "description" : "description",
  "created_at" : "2025-03-06T19:56:21.000+08:00",
  "updated_at" : "2025-03-06T19:56:21.000+08:00",
  "template_name" : "name",
  "merge_request_title" : "title",
  "is_default" : true,
  "is_wip" : true,
  "auto_extract_mr_title" : 0,
  "creator" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : null,
    "email" : "liujian@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "dev",
    "tenant_name" : "example_name"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.29 Obtaining the Merge Request Template List

Function

This API is used to obtain the merge request template list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/templates

Table 4-1272 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1273 Query Parameters

Parameter	Mandatory	Type	Description
view	Yes	String	Definition Range returned by the result set. Range • default: returns the template whose name is "default template". • list: returns the template list. Default value: default Enumeration values: • default • list
template_name	No	String	Definition Name of the template to be searched for. Range 1–100,000 characters.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1274 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1275** Response body parameters

Parameter	Type	Description
[items]	Array of RepositoryMergeRequestTemplateDto objects	Response body of the repository merge request template

Table 4-1276 RepositoryMergeRequestTemplateDto

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition: Repository ID.

Parameter	Type	Description
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.

Table 4-1277 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.

Parameter	Type	Description
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1278** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.30 Obtaining the Review Comment Template List

Function

This API is used to obtain the review comment template list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/discussion/templates

Table 4-1279 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1280 Query Parameters

Parameter	Mandatory	Type	Description
is_default	No	Boolean	Definition Whether to return the default template.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1281 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1282** Response body parameters

Parameter	Type	Description
[items]	Array of DiscussionTemplateDto objects	Response body for the review comment template

Table 4-1283 DiscussionTemplateDto

Parameter	Type	Description
id	Integer	Definition Review comment template primary key ID. Value range: 1~2147483647
template_name	String	Definition Template name.

Parameter	Type	Description
description	String	Definition Description.
assignee_id	Integer	Definition Default assignee. Value range: 1~2147483647
categories	String	Definition Comment type key.
categories_en	String	Definition Comment type.
categories_cn	String	Definition Comment type (CN).
modules	Array of strings	Definition Review comment module.
review_severity	String	Definition Severity key.
is_default	Boolean	Definition Whether to set as the default template.
creator_id	Integer	Definition Template author ID. Value range: 1~2147483647
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
creator	UserBasicDto object	Definition Template creator.
assignee	UserBasicDto object	Definition Template creator.

Table 4-1284 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401

Table 4-1285 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.31 Updating a Merge Request Template

Function

This API is used to update a merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/template/{template_id}

Table 4-1286 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
template_id	Yes	Integer	Definition MR template ID. Value range: 1~2147483647

Request Parameters

Table 4-1287 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1288 Request body parameters

Parameter	Mandatory	Type	Description
template_name	Yes	String	Definition Template name.
merge_request_title	No	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
description	No	String	Definition Description.
auto_extract_mr_title	No	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
is_wip	No	Boolean	Definition Whether to add [WIP] to the title.
is_default	No	Boolean	Definition Whether to set as the default template.

Response Parameters

Status code: 200

Table 4-1289 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition: Repository ID.

Parameter	Type	Description
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.

Table 4-1290 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.

Parameter	Type	Description
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1291** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/merge-requests/template/123

{
  "template_name" : "name",
  "merge_request_title" : "title",
  "description" : "description",
  "auto_extract_mr_title" : 0,
  "is_wip" : true,
  "is_default" : true
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 2278,
  "repository_id" : 2111987241,
  "description" : "description",
  "created_at" : "2025-03-06T19:56:21.000+08:00",
  "updated_at" : "2025-03-06T19:56:21.000+08:00",
  "template_name" : "name",
  "merge_request_title" : "title",
  "is_default" : true,
  "is_wip" : true,
  "auto_extract_mr_title" : 0,
  "creator" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : null,
    "email" : "liujian@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "dev",
    "tenant_name" : "example_name"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.32 Obtaining a Single Merge Request Template

Function

This API is used to obtain a single merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/template/{template_id}

Table 4-1292 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
template_id	Yes	Integer	Definition MR template ID. Value range: 1~2147483647

Request Parameters

Table 4-1293 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1294 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition: Repository ID.
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.

Parameter	Type	Description
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.

Table 4-1295 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1296** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{
  "id" : 2278,
  "repository_id" : 2111987241,
  "description" : "description",
  "created_at" : "2025-03-06T19:56:21.000+08:00",
  "updated_at" : "2025-03-06T19:56:21.000+08:00",
  "template_name" : "name",
  "merge_request_title" : "title",
  "is_default" : true,
  "is_wip" : true,
  "auto_extract_mr_title" : 0,
  "creator" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : null,
    "email" : "liujian@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "dev",
    "tenant_name" : "example_name"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.33 Deleting a Merge Request Template

Function

This API is used to delete a merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/merge-requests/
template/{template_id}

Table 4-1297 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
template_id	Yes	Integer	Definition MR template ID. Value range: 1~2147483647

Request Parameters

Table 4-1298 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1299 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647

Status code: 401

Table 4-1300 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{  
  "id" : 2279  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.34 Obtaining Repository Group MR Approving Setting List

Function

This API is used to obtain repository group MR approving setting list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/approver-settings

Table 4-1301 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-1302 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1303 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1304** Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestApproverSettingResultDto objects	Approving policy settings

Table 4-1305 MergeRequestApproverSettingResultDto

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk (*) can be used as a wildcard. For example, dev indicates all branches starting with dev.

Parameter	Type	Description
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list

Parameter	Type	Description
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1306 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 400**Table 4-1307** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1308** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 200**

OK

```
[ {  
  "id" : 330,  
  "target_type" : "branch",  
  "target" : "dev",  
  "is_use_approval" : true,  
  "approval_required_approvers" : 0,
```

```
"approval_required_reviewers" : 0,
"reset_approvals_on_push" : true,
"reset_reviewers_on_push" : true,
"approvers_from_project" : false,
"append_reviewer_ids" : [ ],
"append_reviewers" : [ ],
"append_approver_ids" : [ ],
"append_approvers" : [ ],
"only_merge_when_pipeline_pass" : true,
"assignee_ids" : [ ],
"assignees" : [ ],
"approver_ids" : [ ],
"approvers" : [ ],
"reviewer_ids" : [ ],
"reviewers" : [ ]
}]
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.35 Creating Repository Group MR Approving Settings

Function

This API is used to create repository group MR approving settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/groups/{group_id}/approver-settings

Table 4-1309 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-1310 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1311 Request body parameters

Parameter	Mandatory	Type	Description
target	No	String	Configure a branch. The asterisk (*) can be used as a wildcard. For example, dev indicates all branches starting with dev.

Parameter	Mandatory	Type	Description
is_use_approval	No	Boolean	False: "Minimum number of reviewers", "Minimum number of approvers", "Reset approvers when code is re-pushed", "Reset reviewers when code is re-pushed", and "add approvers or reviewers only from the following" are set to default values
approval_required_approvers	No	Integer	Minimum number of approvers
approval_required_reviewers	No	Integer	Minimum number of reviewers
reset_approvals_on_push	No	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	No	Boolean	Whether to reset review gate status during push
approvers_from_project	No	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	No	Array of integers	Add reviewer user ID list
append_approver_ids	No	Array of integers	Add approver user ID list
only_merge_when_pipeline_pass	No	Boolean	Whether to enable the pipeline gate
assignee_ids	No	Array of integers	Merger user ID list
approver_ids	No	Array of integers	Approver user ID list
reviewer_ids	No	Array of integers	Reviewer user ID list

Response Parameters

Status code: 201

Table 4-1312 Response body parameters

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk (*) <i>can be used as a wildcard. For example, dev</i> indicates all branches starting with dev.
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list

Parameter	Type	Description
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1313 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL

Parameter	Type	Description
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1314** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1315** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/groups/2561032/approver-settings
```

```
{
  "target" : "dev",
  "is_use_approval" : true,
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_approver_ids" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "approver_ids" : [ ],
  "reviewer_ids" : [ ]
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 330,
  "target_type" : "branch",
  "target" : "dev",
  "is_use_approval" : true,
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_reviewers" : [ ],
  "append_approver_ids" : [ ],
  "append_approvers" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "assignees" : [ ],
  "approver_ids" : [ ],
  "approvers" : [ ],
  "reviewer_ids" : [ ],
  "reviewers" : [ ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.36 Obtaining Project MR Approving Settings List

Function

This API is used to obtain project MR approving settings list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/approver-settings

Table 4-1316 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-1317 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1318 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1319 Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestApproverSettingResultDto objects	Approving policy settings

Table 4-1320 MergeRequestApproverSettingResultDto

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk (*) can be used as a wildcard. For example, dev indicates all branches starting with dev.
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added

Parameter	Type	Description
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1321 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 400**Table 4-1322** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401

Table 4-1323 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
[ {
  "id" : 330,
  "target_type" : "branch",
  "target" : "dev",
  "is_use_approval" : true,
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_reviewers" : [ ],
  "append_approver_ids" : [ ],
  "append_approvers" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "assignees" : [ ],
  "approver_ids" : [ ],
  "approvers" : [ ],
  "reviewer_ids" : [ ],
  "reviewers" : [ ]
}]
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
}
```

```
"error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.37 Creating Project MR Approving Settings

Function

This API is used to create project MR approving settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/projects/{project_id}/approver-settings

Table 4-1324 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-1325 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1326 Request body parameters

Parameter	Mandatory	Type	Description
target	No	String	Configure a branch. The asterisk (<i>) can be used as a wildcard. For example, dev indicates all branches starting with dev.</i>
is_use_approval	No	Boolean	False: "Minimum number of reviewers", "Minimum number of approvers", "Reset approvers when code is re-pushed", "Reset reviewers when code is re-pushed", and "add approvers or reviewers only from the following" are set to default values
approval_required_approvers	No	Integer	Minimum number of approvers
approval_required_reviewers	No	Integer	Minimum number of reviewers
reset_approvals_on_push	No	Boolean	Whether to reset approving gate status during push

Parameter	Mandatory	Type	Description
reset_reviewer_s_on_push	No	Boolean	Whether to reset review gate status during push
approvers_from_project	No	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	No	Array of integers	Add reviewer user ID list
append_approver_ids	No	Array of integers	Add approver user ID list
only_merge_when_pipeline_pass	No	Boolean	Whether to enable the pipeline gate
assignee_ids	No	Array of integers	Merger user ID list
approver_ids	No	Array of integers	Approver user ID list
reviewer_ids	No	Array of integers	Reviewer user ID list

Response Parameters

Status code: 201

Table 4-1327 Response body parameters

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk (*) <i>can be used as a wildcard. For example, dev</i> indicates all branches starting with dev.
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary

Parameter	Type	Description
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1328 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401

Table 4-1329 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1330 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/projects/2561032/approver-settings
{
  "target" : "dev",
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_approver_ids" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "approver_ids" : [ ],
  "reviewer_ids" : [ ]
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 330,
  "target_type" : "branch",
  "target" : "dev",
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
```

```
"append_reviewers" : [ ],
"append_approver_ids" : [ ],
"append_approvers" : [ ],
"only_merge_when_pipeline_pass" : true,
"assignee_ids" : [ ],
"assignees" : [ ],
"approver_ids" : [ ],
"approvers" : [ ],
"reviewer_ids" : [ ],
"reviewers" : [ ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.38 Updating Repository Group MR Approving Settings

Function

This API is used to update repository group MR approving settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/groups/{group_id}/approver-settings/{setting_id}

Table 4-1331 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
setting_id	Yes	Integer	Definition Merge request (MR) approving setting ID. Value range: 1~2147483647

Request Parameters

Table 4-1332 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1333 Request body parameters

Parameter	Mandatory	Type	Description
target	No	String	Configure a branch. The asterisk (*) can be used as a wildcard. For example, dev indicates all branches starting with dev.
is_use_approval	No	Boolean	False: "Minimum number of reviewers", "Minimum number of approvers", "Reset approvers when code is re-pushed", "Reset reviewers when code is re-pushed", and "add approvers or reviewers only from the following" are set to default values
approval_required_approvers	No	Integer	Minimum number of approvers
approval_required_reviewers	No	Integer	Minimum number of reviewers
reset_approvals_on_push	No	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	No	Boolean	Whether to reset review gate status during push
approvers_from_project	No	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	No	Array of integers	Add reviewer user ID list
append_approver_ids	No	Array of integers	Add approver user ID list
only_merge_when_pipeline_pass	No	Boolean	Whether to enable the pipeline gate
assignee_ids	No	Array of integers	Merger user ID list
approver_ids	No	Array of integers	Approver user ID list
reviewer_ids	No	Array of integers	Reviewer user ID list

Response Parameters

Status code: 201

Table 4-1334 Response body parameters

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk (*) <i>can be used as a wildcard</i> . For example, dev indicates all branches starting with dev.
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added

Parameter	Type	Description
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1335 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error

Parameter	Type	Description
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1336** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1337** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

PUT https://{endpoint}/v4/groups/2561032/approver-settings/330

```
{
  "target" : "dev",
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "only_merge_when_pipeline_pass" : true
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 330,
  "target_type" : "branch",
  "target" : "dev",
  "is_use_approval" : true,
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_reviewers" : [ ],
  "append_approver_ids" : [ ],
  "append_approvers" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "assignees" : [ ],
  "approver_ids" : [ ],
  "approvers" : [ ],
  "reviewer_ids" : [ ],
  "reviewers" : [ ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.39 Deleting Repository Group MR Approving Configurations

Function

This API is used to delete repository group MR approving configurations.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/groups/{group_id}/approver-settings/{setting_id}

Table 4-1338 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
setting_id	Yes	Integer	Definition Merge request (MR) approving setting ID. Value range: 1~2147483647

Request Parameters

Table 4-1339 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 400

Table 4-1340 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401

Table 4-1341 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405030",
  "error_msg" : "Configuration deletion error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
204	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.40 Updating Project MR Approving Settings

Function

This API is used to update project MR approving settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/projects/{project_id}/approver-settings/{setting_id}

Table 4-1342 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
setting_id	Yes	Integer	Definition Merge request (MR) approving setting ID. Value range: 1~2147483647

Request Parameters

Table 4-1343 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1344 Request body parameters

Parameter	Mandatory	Type	Description
target	No	String	Configure a branch. The asterisk (*) can be used as a wildcard. For example, dev indicates all branches starting with dev.
is_use_approval	No	Boolean	False: "Minimum number of reviewers", "Minimum number of approvers", "Reset approvers when code is re-pushed", "Reset reviewers when code is re-pushed", and "add approvers or reviewers only from the following" are set to default values
approval_required_approvers	No	Integer	Minimum number of approvers
approval_required_reviewers	No	Integer	Minimum number of reviewers
reset_approvals_on_push	No	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	No	Boolean	Whether to reset review gate status during push
approvers_from_project	No	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	No	Array of integers	Add reviewer user ID list
append_approver_ids	No	Array of integers	Add approver user ID list
only_merge_when_pipeline_pass	No	Boolean	Whether to enable the pipeline gate
assignee_ids	No	Array of integers	Merger user ID list
approver_ids	No	Array of integers	Approver user ID list
reviewer_ids	No	Array of integers	Reviewer user ID list

Response Parameters

Status code: 201

Table 4-1345 Response body parameters

Parameter	Type	Description
id	String	Definition Primary key ID.
target	String	Definition Branch. The asterisk (*) <i>can be used as a wildcard</i> . For example, dev indicates all branches starting with dev.
target_type	String	Setting type. Currently, only the branch type is available. Enumeration values: • branch • file • binary
is_use_approval	Boolean	Approval mode or not. Approval mode: true; score mode: false
approval_required_reviewers	Integer	Minimum number of reviewers
approval_required_approvers	Integer	Minimum number of approvers
reset_approvals_on_push	Boolean	Whether to reset approving gate status during push
reset_reviewers_on_push	Boolean	Whether to reset review gate status during push
approvers_from_project	Boolean	Whether to add approvers or reviewers only from the following
append_reviewer_ids	Array of integers	ID list of reviewers to be added
append_reviewers	Array of UserBasicDto objects	Entity list of reviewers to be added
append_approver_ids	Array of integers	ID list of approvers to be added
append_approvers	Array of UserBasicDto objects	Entity list of approvers to be added

Parameter	Type	Description
only_merge_when_pipeline_pass	Boolean	Whether to enable the pipeline gate
assignee_ids	Array of integers	Merger ID list
assignees	Array of UserBasicDto objects	Merger entity list
approver_ids	Array of integers	Approver ID list
approvers	Array of UserBasicDto objects	Approver entity list
reviewer_ids	Array of integers	Reviewer ID list
reviewers	Array of UserBasicDto objects	Reviewer entity list

Table 4-1346 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error

Parameter	Type	Description
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1347** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1348** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

PUT https://{endpoint}/v4/groups/2561032/approver-settings/330

```
{
  "target": "dev",
  "approval_required_approvers": 0,
  "approval_required_reviewers": 0,
  "reset_approvals_on_push": true,
  "reset_reviewers_on_push": true,
  "approvers_from_project": false,
  "only_merge_when_pipeline_pass": true,
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 330,
  "target_type" : "branch",
  "target" : "dev",
  "is_use_approval" : true,
  "approval_required_approvers" : 0,
  "approval_required_reviewers" : 0,
  "reset_approvals_on_push" : true,
  "reset_reviewers_on_push" : true,
  "approvers_from_project" : false,
  "append_reviewer_ids" : [ ],
  "append_reviewers" : [ ],
  "append_approver_ids" : [ ],
  "append_approvers" : [ ],
  "only_merge_when_pipeline_pass" : true,
  "assignee_ids" : [ ],
  "assignees" : [ ],
  "approver_ids" : [ ],
  "approvers" : [ ],
  "reviewer_ids" : [ ],
  "reviewers" : [ ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.41 Deleting Project MR Approving Configurations

Function

This API is used to delete project MR approving configurations.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/projects/{project_id}/approver-settings/{setting_id}

Table 4-1349 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
setting_id	Yes	Integer	Definition Merge request (MR) approving setting ID. Value range: 1~2147483647

Request Parameters

Table 4-1350 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 400**Table 4-1351** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1352** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405030",
  "error_msg" : "Configuration deletion error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
204	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.42 Obtaining Repository Group Approvers or Mergers

Function

This API is used to obtain repository group approvers or mergers.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/merge-requests/assignee-candidates

Table 4-1353 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-1354 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1355 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1356** Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestVoteReviewerDto objects	Scorer in the MR score mode

Table 4-1357 MergeRequestVoteReviewerDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.

Parameter	Type	Description
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.
is_committer	Boolean	Definition Committer or not.

Status code: 401

Table 4-1358 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
[ {
  "id" : 9124,
  "name" : "dev_test",
  "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "state" : "active",
  "avatar_url" : "",
  "avatar_path" : "",
  "email" : "",
  "name_cn" : "dev_test",
  "web_url" : "",
  "nick_name" : "dev",
  "tenant_name" : "test_tenant",
  "error_message" : "",
  "is_committer" : true
}, {
  "id" : 9125,
  "name" : "dev_test1",
  "username" : "c369c68f1ff84679b5a8ed904d8bff11",
  "state" : "active",
  "avatar_url" : "",
  "avatar_path" : "",
  "email" : "",
  "name_cn" : "dev_test1",
  "web_url" : "",
  "nick_name" : "dev1",
  "tenant_name" : "test_tenant1",
  "error_message" : "",
  "is_committer" : true
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.43 Obtaining Project Approvers or Mergers

Function

This API is used to obtain repository group approvers or mergers.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/merge-requests/assignee-candidates

Table 4-1359 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-1360 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1361 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1362 Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestVoteReviewerDto objects	Scorer in the MR score mode

Table 4-1363 MergeRequestVoteReviewerDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias

Parameter	Type	Description
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.
is_committer	Boolean	Definition Committer or not.

Status code: 401**Table 4-1364** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 200**

ok

```
[ {
  "id" : 9124,
  "name" : "dev_test",
  "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "state" : "active",
  "avatar_url" : "",
  "avatar_path" : "",
  "email" : "",
  "name_cn" : "dev_test",
  "web_url" : "",
  "nick_name" : "dev",
  "tenant_name" : "test_tenant",
  "error_message" : "",
  "is_committer" : true
}, {
  "id" : 9125,
  "name" : "dev_test1",
  "username" : "c369c68f1ff84679b5a8ed904d8bff11",
```

```
"state" : "active",  
"avatar_url" : "",  
"avatar_path" : "",  
"email" : "",  
"name_cn" : "dev_test1",  
"web_url" : "",  
"nick_name" : "dev1",  
"tenant_name" : "test_tenant1",  
"error_message" : "",  
"is_committer" : true  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.11.44 Obtaining Repository Group Reviewers****Function**

This API is used to obtain repository group reviewers.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/merge-requests/reviewers

Table 4-1365 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-1366 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1367 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1368 Response body parameters

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.
is_committer	Boolean	Definition Committer or not.

Status code: 401**Table 4-1369** Response body parameters

Parameter	Type	Description
[items]	Array of ApiError objects	Definition Error message.

Table 4-1370 ApiError

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
[ {
  "id" : 9124,
  "name" : "dev_test",
  "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "state" : "active",
  "avatar_url" : "",
  "avatar_path" : "",
  "email" : "",
  "name_cn" : "dev_test",
  "web_url" : "",
  "nick_name" : "dev",
  "tenant_name" : "test_tenant",
  "error_message" : "",
  "is_committer" : true
}, {
  "id" : 9125,
  "name" : "dev_test1",
  "username" : "c369c68f1ff84679b5a8ed904d8bff11",
  "state" : "active",
  "avatar_url" : "",
  "avatar_path" : "",
  "email" : "",
  "name_cn" : "dev_test1",
  "web_url" : "",
  "nick_name" : "dev1",
  "tenant_name" : "test_tenant1",
  "error_message" : "",
  "is_committer" : true
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.45 Obtaining Project Reviewers

Function

This API is used to obtain repository group reviewers.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/merge-requests/reviewers

Table 4-1371 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-1372 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1373 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1374 Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestVoteReviewerDto objects	Scorer in the MR score mode

Table 4-1375 MergeRequestVoteReviewerDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias

Parameter	Type	Description
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.
is_committer	Boolean	Definition Committer or not.

Status code: 401**Table 4-1376** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 200**

ok

```
[ {
  "id" : 9124,
  "name" : "dev_test",
  "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "state" : "active",
  "avatar_url" : "",
  "avatar_path" : "",
  "email" : "",
  "name_cn" : "dev_test",
  "web_url" : "",
  "nick_name" : "dev",
  "tenant_name" : "test_tenant",
  "error_message" : "",
  "is_committer" : true
}, {
  "id" : 9125,
  "name" : "dev_test1",
  "username" : "c369c68f1ff84679b5a8ed904d8bff11",
```

```
"state" : "active",  
"avatar_url" : "",  
"avatar_path" : "",  
"email" : "",  
"name_cn" : "dev_test1",  
"web_url" : "",  
"nick_name" : "dev1",  
"tenant_name" : "test_tenant1",  
"error_message" : "",  
"is_committer" : true  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.46 Obtaining the Merge Request Approver List

Function

This API is used to obtain the approver list of an MR.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/approval-approvers

Table 4-1377 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1378 Query Parameters

Parameter	Mandatory	Type	Description
target_branch	No	String	Definition Target branch. Branch to which the code is to be merged when an MR is created.
source_branch	No	String	Definition Target branch. Branch to which the changed code belongs when an MR is created.
merge_request_id	No	Integer	Definition MR IID. Value range: 1~2147483647
target_repository_id	No	String	Definition Target repository ID. Repository to which the code is to be merged when an MR is created.
search	No	String	Definition Query keyword for fuzzy match, such as username, user alias, and tenant name.

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1379 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1380 Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of approvers that can be selected.

Table 4-1381 Response body parameters

Parameter	Type	Description
required_approver s_list	Array of UserBasicDto objects	Definition List of mandatory approvers. Range N/A.
optional_approver s_list	Array of UserBasicDto objects	Definition List of optional approvers. Range N/A.

Table 4-1382 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1383** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1384** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/merge-requests/approval-approvers

Example Responses**Status code: 200**

OK

```
[ {
  "optional_approvers_list" : [ {
    "id" : 9124,
    "name" : "dev_test",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : "",
    "avatar_path" : "",
    "email" : "",
    "name_cn" : "dev_test",
    "web_url" : "",
    "nick_name" : "dev",
    "tenant_name" : "test_tenant",
    "error_message" : ""
  }, {
    "id" : 9125,
    "name" : "dev_test1",
    "username" : "c369c68f1ff84679b5a8ed904d8bff11",
    "state" : "active",
    "avatar_url" : "",
    "avatar_path" : "",
    "email" : "",
    "name_cn" : "dev_test1",
    "web_url" : "",
    "nick_name" : "dev1",
    "tenant_name" : "test_tenant1",
    "error_message" : ""
  } ]
}, {
  "required_approvers_list" : [ {
    "id" : 9126,
    "name" : "dev_test2",
    "username" : "c369c68f1ff84679b5a8ed904d8bff12",
    "state" : "active",
    "avatar_url" : "",
    "avatar_path" : "",
    "email" : "",
    "name_cn" : "dev_test2",
    "web_url" : ""
```

```
"nick_name" : "dev2",
"tenant_name" : "test_tenant2",
"error_message" : ""
}, {
  "id" : 9127,
  "name" : "dev_test3",
  "username" : "c369c68f1ff84679b5a8ed904d8bff13",
  "state" : "active",
  "avatar_url" : "",
  "avatar_path" : "",
  "email" : "",
  "name_cn" : "dev_test3",
  "web_url" : "",
  "nick_name" : "dev3",
  "tenant_name" : "test_tenant3",
  "error_message" : ""
}]
}]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.47 Obtaining the Merge Request Reviewer List

Function

This API is used to obtain the MR reviewer list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/approval-reviewers

Table 4-1385 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1386 Query Parameters

Parameter	Mandatory	Type	Description
target_branch	No	String	Definition Target branch. Branch to which the code is to be merged when an MR is created.
source_branch	No	String	Definition Target branch. Branch to which the changed code belongs when an MR is created.
merge_request_id	No	Integer	Definition MR IID. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
target_repository_id	No	String	Definition Target repository ID. Repository to which the code is to be merged when an MR is created.
search	No	String	Definition Query keyword for fuzzy match, such as username, user alias, and tenant name.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1387 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1388 Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of reviewers that can be selected.

Table 4-1389 Response body parameters

Parameter	Type	Description
required_reviewers_list	Array of UserBasicDto objects	Definition Mandatory reviewer list. Range N/A.
optional_reviewers_list	Array of UserBasicDto objects	Definition Optional reviewer list. Range N/A.

Table 4-1390 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401

Table 4-1391 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1392 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/merge-requests/approval-reviewers

Example Responses

Status code: 200

OK

```
[ {
  "optional_reviewers_list" : [ {
    "id" : 9124,
    "name" : "dev_test",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : "",
    "avatar_path" : "",
    "email" : "",
    "name_cn" : "dev_test",
    "web_url" : "",
    "nick_name" : "dev",
    "tenant_name" : "test_tenant",
    "error_message" : ""
  }, {
    "id" : 9125,
    "name" : "dev_test1",
    "username" : "c369c68f1ff84679b5a8ed904d8bff11",
    "state" : "active",
    "avatar_url" : "",
    "avatar_path" : "",
    "email" : "",
    "name_cn" : "dev_test1",
    "web_url" : ""
  }
  ]
}
```

```
"nick_name" : "dev1",
"tenant_name" : "test_tenant1",
"error_message" : ""
}]
}, {
"required_reviewers_list" : [ {
"id" : 9126,
"name" : "dev_test2",
"username" : "c369c68f1ff84679b5a8ed904d8bff12",
"state" : "active",
"avatar_url" : "",
"avatar_path" : "",
"email" : "",
"name_cn" : "dev_test2",
"web_url" : "",
"nick_name" : "dev2",
"tenant_name" : "test_tenant2",
"error_message" : ""
}, {
"id" : 9127,
"name" : "dev_test3",
"username" : "c369c68f1ff84679b5a8ed904d8bff13",
"state" : "active",
"avatar_url" : "",
"avatar_path" : "",
"email" : "",
"name_cn" : "dev_test3",
"web_url" : "",
"nick_name" : "dev3",
"tenant_name" : "test_tenant3",
"error_message" : ""
}
}]
}]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.48 Updating the Approver List of a Merge Request

Function

This API is used to update the approver list of a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/approval-approvers

Table 4-1393 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1394 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1395 Request body parameters

Parameter	Mandatory	Type	Description
approver_ids	No	String	Definition ID list of approvers to be updated. They are separated by commas (,): 111,222. Range N/A.

Response Parameters

Status code: 201

Table 4-1396 Response body parameters

Parameter	Type	Description
[items]	Array of ApproverBasicDto objects	Get a merge request approver info

Table 4-1397 ApproverBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
name_cn	String	Definition Name (CN). Range N/A.
email	String	Definition Email. Range N/A.
state	String	Definition Status. • optional: optional (approver and reviewer) (not approved or reviewed) • required: mandatory (approver and reviewer) (not approved or reviewed) • approve: approving passed • true: review passed • passed: approved or reviewed by others (not personally approved or reviewed) • reject: approving failed
updated_at	String	Definition Update time. Range N/A.

Parameter	Type	Description
avatar_url	String	Definition Profile picture link. Range N/A.
nick_name	String	Definition Alias. Range N/A.
tenant_name	String	Definition Tenant name. Range N/A.
approver_comment	String	Definition Approving remarks. Range N/A.

Status code: 401**Table 4-1398** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1399** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1
{
  "approver_ids" : "10311,10312"
}
```

Example Responses

Status code: 201

OK

```
[ {
  "id" : 10311,
  "avatar_url" : "",
  "email" : "",
  "name" : "dev1",
  "name_cn" : "Test account 1",
  "nick_name" : "dev1_nick",
  "state" : "optional",
  "tenant_name" : "example_name",
  "updated_at" : "2025-04-27T19:35:16.708+08:00",
  "username" : "dev2"
}, {
  "id" : 10312,
  "avatar_url" : "",
  "email" : "",
  "name" : "dev2",
  "name_cn" : "Test account 2",
  "nick_name" : "dev2_nick",
  "state" : "optional",
  "tenant_name" : "example_name",
  "updated_at" : "2025-04-27T19:35:16.708+08:00",
  "username" : "dev2"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Status Code	Description
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.49 Updating the Reviewer List of a Merge Request

Function

This API is used to update the reviewer list of a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/approval-reviewers

Table 4-1400 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1401 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1402 Request body parameters

Parameter	Mandatory	Type	Description
reviewer_ids	No	String	Definition ID list of reviewers to be updated. They are separated by commas (,): 111,222. Range N/A.

Response Parameters

Status code: 201

Table 4-1403 Response body parameters

Parameter	Type	Description
[items]	Array of ApproverBasicDto objects	Get a merge request approver info

Table 4-1404 ApproverBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
name_cn	String	Definition Name (CN). Range N/A.
email	String	Definition Email. Range N/A.
state	String	Definition Status. • optional: optional (approver and reviewer) (not approved or reviewed) • required: mandatory (approver and reviewer) (not approved or reviewed) • approve: approving passed • true: review passed • passed: approved or reviewed by others (not personally approved or reviewed) • reject: approving failed
updated_at	String	Definition Update time. Range N/A.

Parameter	Type	Description
avatar_url	String	Definition Profile picture link. Range N/A.
nick_name	String	Definition Alias. Range N/A.
tenant_name	String	Definition Tenant name. Range N/A.
approver_comment	String	Definition Approving remarks. Range N/A.

Status code: 401**Table 4-1405** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1406** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1
{
  "reviewer_ids" : "9617,9618"
}
```

Example Responses

Status code: 201

OK

```
[ {
  "id" : 10311,
  "avatar_url" : "",
  "email" : "",
  "name" : "dev1",
  "name_cn" : "Test account 1",
  "nick_name" : "dev1_nick",
  "state" : "optional",
  "tenant_name" : "example_name",
  "updated_at" : "2025-04-27T19:35:16.708+08:00",
  "username" : "dev2"
}, {
  "id" : 10312,
  "avatar_url" : "",
  "email" : "",
  "name" : "dev2",
  "name_cn" : "Test account 2",
  "nick_name" : "dev2_nick",
  "state" : "optional",
  "tenant_name" : "example_name",
  "updated_at" : "2025-04-27T19:35:16.708+08:00",
  "username" : "dev2"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Status Code	Description
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.50 Approving a Merge Request

Function

This API is used to review a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/approval

Table 4-1407 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1408 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1409 Request body parameters

Parameter	Mandatory	Type	Description
action_type	No	String	Definition Approving/Review. • approve: approving passed • reject: approving failed • complete: review passed • reset: reset approving or review result
approver_comment	No	String	Definition Approving remarks. Range N/A.

Response Parameters

Status code: 201

Table 4-1410 Response body parameters

Parameter	Type	Description
[items]	Array of ApproverBasicDto objects	Get a merge request approver info

Table 4-1411 ApproverBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
name_cn	String	Definition Name (CN). Range N/A.
email	String	Definition Email. Range N/A.
state	String	Definition Status. • optional: optional (approver and reviewer) (not approved or reviewed) • required: mandatory (approver and reviewer) (not approved or reviewed) • approve: approving passed • true: review passed • passed: approved or reviewed by others (not personally approved or reviewed) • reject: approving failed

Parameter	Type	Description
updated_at	String	Definition Update time. Range N/A.
avatar_url	String	Definition Profile picture link. Range N/A.
nick_name	String	Definition Alias. Range N/A.
tenant_name	String	Definition Tenant name. Range N/A.
approver_comment	String	Definition Approving remarks. Range N/A.

Status code: 401**Table 4-1412** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1413 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1
[ {
  "action_type" : "approve"
}, {
  "approver_comment" : ""
} ]
```

Example Responses

Status code: 201

OK

```
[ {
  "id" : 10311,
  "avatar_url" : "",
  "email" : "",
  "name" : "dev1",
  "name_cn" : "Test account 1",
  "nick_name" : "dev1_nick",
  "state" : "approve",
  "tenant_name" : "example_name",
  "updated_at" : "2025-04-27T19:35:16.708+08:00",
  "username" : "dev2"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.51 Reviewing a Merge Request

Function

This API is used to review a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/approval-review

Table 4-1414 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1415 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1416 Request body parameters

Parameter	Mandatory	Type	Description
action_type	No	String	Definition Approving/Review. • approve: approving passed • reject: approving failed • complete: review passed • reset: reset approving or review result
approver_comment	No	String	Definition Approving remarks. Range N/A.

Response Parameters

Status code: 201

Table 4-1417 Response body parameters

Parameter	Type	Description
[items]	Array of ApproverBasicDto objects	Get a merge request approver info

Table 4-1418 ApproverBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
name_cn	String	Definition Name (CN). Range N/A.
email	String	Definition Email. Range N/A.
state	String	Definition Status. • optional: optional (approver and reviewer) (not approved or reviewed) • required: mandatory (approver and reviewer) (not approved or reviewed) • approve: approving passed • true: review passed • passed: approved or reviewed by others (not personally approved or reviewed) • reject: approving failed

Parameter	Type	Description
updated_at	String	Definition Update time. Range N/A.
avatar_url	String	Definition Profile picture link. Range N/A.
nick_name	String	Definition Alias. Range N/A.
tenant_name	String	Definition Tenant name. Range N/A.
approver_comment	String	Definition Approving remarks. Range N/A.

Status code: 401**Table 4-1419** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1420 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/projects/a642c851d4dc4853b595e5c8a5e56df7/hooks/1
[ {
  "action_type" : "complete"
}, {
  "approver_comment" : ""
} ]
```

Example Responses

Status code: 201

OK

```
[ {
  "id" : 10311,
  "avatar_url" : "",
  "email" : "",
  "name" : "dev1",
  "name_cn" : "Test account 1",
  "nick_name" : "dev1_nick",
  "state" : true,
  "tenant_name" : "example_name",
  "updated_at" : "2025-04-27T19:35:16.708+08:00",
  "username" : "dev2"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.11.52 Obtaining Selectable MR Reviewers

Function

This API is used to obtain MR reviewers.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/assignee-candidates

Table 4-1421 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1422 Query Parameters

Parameter	Mandatory	Type	Description
target_branch	No	String	Definition Target branch. Branch to which the code is to be merged when an MR is created.
merge_request_id	No	Integer	Definition MR IID. Value range: 1~2147483647
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
search	No	String	Definition Query keyword for fuzzy match, such as username, user alias, and tenant name.
search_by_name_list	No	String	Definition Search user list by name list.
target_project_id	No	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Parameter	Mandatory	Type	Description
view	No	String	Definition The type of assignee, merger, or approver. Enumeration values: • approver • assignee
mode	No	String	Definition The type of assignee, merger, or approver. Enumeration values: • approver • assignee
only_developers	No	Boolean	Definition Member type and developer type. Default value: false

Request Parameters

Table 4-1423 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1424 Response body parameters

Parameter	Type	Description
[items]	Array of MRVoteReviewerDto objects	Definition MR review user details.

Table 4-1425 MRVoteReviewerDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage

Parameter	Type	Description
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.
is_committer	Boolean	Definition Committer or not.
is_verified	Boolean	Definition Authenticated committer or not.
has_permission	Boolean	Definition Whether you have the related permissions.

Status code: 401

Table 4-1426 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112015538/merge-requests/assignee-candidates
```

Example Responses

Status code: 200

Response body for obtaining the selectable merge request reviewers

```
{
  "id" : 23559,
  "name" : "example_name/deploy_admin_trust",
  "username" : "0e87c9d84a7f49e786f9ee4bfaaf1b0f",
  "state" : "active",
  "service_license_status" : 1,
  "avatar_path" : null,
```

```
{
  "email" : "0e87c9d84a7f49e786f9ee4bfaaf1b0f@example.com",
  "name_cn" : "example_name/deploy_admin_trust",
  "web_url" : "https://example.com/0e87c9d84a7f49e786f9ee4bfaaf1b0f",
  "nick_name" : null,
  "tenant_name" : "example_name",
  "error_message" : null,
  "is_committer" : false,
  "is_verified" : false,
  "has_permission" : true
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	Response body for obtaining the selectable merge request reviewers
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.53 Rebasing a Merge Request

Function

This API is used to rebase a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/rebase

Table 4-1427 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1428 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 202

Table 4-1429 Response body parameters

Parameter	Type	Description
-	String	Response information.

Status code: 401

Table 4-1430 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/repositories/12344/merge-requests/1/rebase
```

Example Responses

Status code: 202

Response body of a request for rebasing a merge request.

```
success
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
202	Response body of a request for rebasing a merge request.
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.54 Resolving Merge Request Conflicts Online

Function

This API is used to resolve merge request conflicts online.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/resolve-conflicts

Table 4-1431 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1432 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1433 Request body parameters

Parameter	Mandatory	Type	Description
commit_message	Yes	String	Definition Commit message.
files	Yes	Array of ResolveConflictFileDto objects	Definition Conflict file.

Table 4-1434 ResolveConflictFileDto

Parameter	Mandatory	Type	Description
old_path	Yes	String	Definition Old file path.
new_path	Yes	String	Definition New file path.
sections	No	Object	Definition Required only when selecting the option of accepting different branches.

Parameter	Mandatory	Type	Description
content	No	String	Definition File content and is required only when editing a conflict file online.

Response Parameters

Status code: 200

Table 4-1435 Response body parameters

Parameter	Type	Description
message	String	Definition Prompt property name already exists.

Example Requests

```
PUT https://{endpoint}/v4/repositories/12344/merge-requests/1/resolve-conflicts
{
  "commit_message" : "Resolve the conflicts online.",
  "files" : [ {
    "old_path" : "/dir/file1",
    "new_path" : "/dir/file2",
    "content" : "111"
  } ]
}
```

Example Responses

Status code: 200

Resolve merge request conflicts online.

```
{
  "message" : ""
}
```

Status Codes

Status Code	Description
200	Resolve merge request conflicts online.

Error Codes

See [Error Codes](#).

4.1.11.55 Obtaining All Conflict Files

Function

This API is used to obtain all conflict files.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/conflict-files

Table 4-1436 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1437 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
hide_content	No	Boolean	Definition If true, file conflict details are hidden. Default value: false

Request Parameters

Table 4-1438 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1439 Response body parameters

Parameter	Type	Description
[items]	Array of MRConflictFileDto objects	Conflict file details

Table 4-1440 MRConflictFileDto

Parameter	Type	Description
old_path	String	Definition Old file name.
new_path	String	Definition New file name.
blob_icon	String	blob_icon
blob_path	String	Blob path
conflict_type	String	Conflict type
content	String	Content
content_path	String	Content path
sections	Array of ConflictSectionDto objects	Snippet
type	String	Type
error_message	String	Error message

Table 4-1441 ConflictSectionDto

Parameter	Type	Description
conflict	Boolean	Whether conflicts exist
lines	Array of ConflictSectionLineDto objects	Conflict line list
id	String	No.

Table 4-1442 ConflictSectionLineDto

Parameter	Type	Description
line_code	String	Line
type	String	Type
old_line	Integer	Old line
new_line	Integer	New line
text	String	Text
meta_data	ConflictSection-LineMetaDataDto object	Metadata
rich_text	String	Rich text
can_receive_suggestion	Boolean	Acceptable suggestion

Table 4-1443 ConflictSectionLineMetaDataDto

Parameter	Type	Description
old_pos	Integer	Old column position
new_pos	Integer	New column position

Status code: 401

Table 4-1444 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112015538/merge-requests/1/conflict-files

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	Obtain all conflict files.
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.56 Obtaining the Average Rating of a Merge Request

Function

This API is used to obtain the average rating of a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/average-evaluation

Table 4-1445 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1446 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1447 Response body parameters

Parameter	Type	Description
merge_request_id	Integer	Definition MR ID. Value range: 1~2147483647
average_evaluation_level	Double	Definition Average score of the evaluation.

Parameter	Type	Description
evaluations	Array of MergeRequestBaseEvaluationDto objects	Definition Evaluation details of a single user.
custom_evaluations	Array of MergeRequestCustomAverageEvaluationDto objects	Definition Custom evaluation dimension details.

Table 4-1448 MergeRequestBaseEvaluationDto

Parameter	Type	Description
id	Integer	Definition Evaluation ID. Value range: 1~2147483647
merge_request_id	Integer	Definition MR ID. Value range: 1~2147483647
level	Integer	Definition Score. Value range: 0~5
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
content	String	Definition Evaluation text.
user	UserBasicDto object	Definition Evaluation author.

Table 4-1449 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1450 MergeRequestCustomAverageEvaluationDto

Parameter	Type	Description
evaluation_type_id	Integer	Definition Custom evaluation dimension ID.
name	String	Definition Name of a custom evaluation dimension.
level	Double	Definition Average scores of custom evaluation dimensions.

Status code: 401**Table 4-1451** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112015538/merge-requests/1/average-evaluation

Example Responses

Status code: 200

Obtain the average rating of merge requests.

```
{
  "merge_request_id" : 3302539,
  "average_evaluation_level" : 4.0,
  "evaluations" : [ {
    "id" : 119953,
    "merge_request_id" : 3302539,
    "level" : 5,
    "created_at" : "2025-06-20T19:10:59.028+08:00",
    "updated_at" : "2025-06-20T19:10:59.028+08:00",
    "content" : 5,
    "user" : {
      "id" : 223385,
      "name" : "example_name",
      "username" : "example_name",
      "state" : "active",
      "avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/example_name/120",
      "avatar_path" : null,
      "email" : "example_name_nobody@example.com",
```

```
"name_cn" : "example_name example_name",  
"web_url" : "https://example.com/example_name",  
"nick_name" : null,  
"tenant_name" : null  
}  
}],  
"custom_evaluations" : null  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	Obtain the average rating of merge requests.
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.11.57 Obtaining the Merge Request Review Evaluation List****Function**

This API is used to obtain the merge request review list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/evaluations

Table 4-1452 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1453 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1454 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1455** Response body parameters

Parameter	Type	Description
id	Integer	Definition Evaluation ID. Value range: 1~2147483647
merge_request_id	Integer	Definition MR ID. Value range: 1~2147483647
level	Integer	Definition Score. Value range: 0~5
created_at	String	Definition Creation time.

Parameter	Type	Description
updated_at	String	Definition Update time.
content	String	Definition Evaluation text.
user	UserBasicDto object	Definition Evaluation author.
custom_evaluations	Array of CustomEvaluationDto objects	Custom evaluation

Table 4-1456 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path

Parameter	Type	Description
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1457 CustomEvaluationDto

Parameter	Type	Description
id	Integer	Definition: Custom review ID
evaluation_type_id	Integer	Review type ID
level	Integer	Evaluation level
name	String	Review name

Status code: 401**Table 4-1458** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET <https://{endpoint}/v4/repositories/2112015538/merge-requests/1/evaluations>

Example Responses

Status code: 200

Obtain the merge request evaluation list.

```
[ {
  "id" : 5336,
  "merge_request_id" : 76882,
  "level" : 5,
  "created_at" : "2025-08-07T14:29:41.000+08:00",
  "updated_at" : "2025-08-07T14:29:41.000+08:00",
  "content" : 1,
  "user" : {
    "id" : 9443,
    "name" : "example_name",
    "username" : "4396e7d959da4095b30cac0f0b45e6f6",
    "state" : "active",
    "avatar_url" : null,
    "email" : "4396e7d959da4095b30cac0f0b45e6f6@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/4396e7d959da4095b30cac0f0b45e6f6",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "custom_evaluations" : [ {
    "id" : 5331,
    "evaluation_type_id" : 4299,
    "level" : 4,
    "name" : "Whether the code logic is clear."
  }, {
    "id" : 5332,
    "evaluation_type_id" : 4297,
    "level" : 5,
    "name" : "Whether the code volume is moderate."
  } ]
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	Obtain the merge request evaluation list.
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.58 Obtaining the Review Comments of a Single File on the Merge Request File Change Page.

Function

This API is used to obtain review comments of a single file on the file change page of a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/comments-by-line

Table 4-1459 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1460 Query Parameters

Parameter	Mandatory	Type	Description
line	No	Integer	Value range: 1~2147483647
with_commit_comments	No	Boolean	Default value: false

Parameter	Mandatory	Type	Description
path	No	String	Definition File path. Range 1–100,000 characters.
view	No	String	Enumeration values: • basic
base_sha	No	String	Common reference point of the source branch and target branch in an MR
start_sha	No	String	In an MR, the first commit point in the direction starting from the common reference point to the source branch.
head_sha	No	String	Commit point to which the source branch directs in an MR

Request Parameters

Table 4-1461 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1462 Response body parameters

Parameter	Type	Description
[items]	Array of CommentPathDto objects	Review comment details under a single file.

Table 4-1463 CommentPathDto

Parameter	Type	Description
new	Array of LineDiscussionDto objects	Definition Review comment collection on the right of the file comparison result.
old	Array of LineDiscussionDto objects	Definition Review comment collection on the left of the file comparison result.
path	String	Definition File name.

Table 4-1464 LineDiscussionDto

Parameter	Type	Description
discussions	Array of MergeRequestBasicDiscussionDto objects	Definition Review comment collection in a line on a side.
line	Integer	Definition Line No.

Parameter	Type	Description
type	String	Definition: Line type Value range: old: deleted line on the left new: added line on the right unchanged-l: unchanged line on the left unchanged-r: unchanged line on the right Enumeration values: • old • new • unchanged-l • unchanged-r

Table 4-1465 MergeRequestBasicDiscussionDto

Parameter	Type	Description
id	String	Definition Review comment ID, which is shared by the main comment and replies.
individual_note	Boolean	Definition Personal review comments (no need to be resolved).
notes	Array of NoteDto objects	Definition Comment list (main comment and replies).
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647

Parameter	Type	Description
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted under a merge request • Commit: review comments submitted under a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
repository_full_path	String	Definition Repository path.
a_mode	String	Definition Old permission for the file (default value: 100644).
b_mode	String	Definition New permission for the file (default value: 100644)
deleted_file	Boolean	Definition Deleted file or not.
new_file	Boolean	Definition New file or not.
resolved	Boolean	Definition Resolved or not.
archived	Boolean	Definition Archived or not.
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type (CN).
review_categories_en	String	Definition Comment type.

Parameter	Type	Description
review_modules	String	Definition Comment module.
severity	String	Definition: Severity key Value range: • suggestion: suggestion • minor: minor • major: major • fatal: fatal Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition: Severity (CN) Value range: • Suggestion • Minor • Major • Critical
severity_en	String	Definition: Severity (EN) Value range: • Suggestion: suggestion • Minor: minor • major: major • fatal: fatal Enumeration values: • Suggestion • Minor • Major • Fatal
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.

Parameter	Type	Description
merge_request_version_params	MergeRequestVersionParamsDto object	Definition MR version information.

Table 4-1466 NoteDto

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647
type	String	Definition Review types Range • DiscussionNote: comment on the associated code line to be resolved • DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647

Parameter	Type	Description
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted in a merge request • Commit: review comments submitted on a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.

Parameter	Type	Description
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.

Parameter	Type	Description
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_statuses	Integer	Definition Content approving status.

Table 4-1467 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.

Parameter	Type	Description
new_line	Integer	Definition New file line No.

Table 4-1468 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1469 MergeRequestVersionParamsDto

Parameter	Type	Description
diff_id	Integer	Definition Version ID (composed of the MR ID and SHA value).
start_sha	String	Definition Start SHA value.
commit_id	String	Definition Commit record ID.

Status code: 401**Table 4-1470** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112015538/merge-requests/1/comments-by-line
```

Example Responses

Status code: 200

Obtain the review comments of a single file on the merge request file change page.

```
success
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	Obtain the review comments of a single file on the merge request file change page.
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.59 Obtaining the Review Comments of a Single Submitted File on a Code Page

Function

This API is used to obtain the review comments of a single submitted file on a code page.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/commits/{sha}/comments-by-line

Table 4-1471 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
sha	Yes	String	Definition Commit ID.

Request Parameters

Table 4-1472 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1473 Response body parameters

Parameter	Type	Description
[items]	Array of CommentPathDto objects	Review comment details under a single file.

Table 4-1474 CommentPathDto

Parameter	Type	Description
new	Array of LineDiscussionDto objects	Definition Review comment collection on the right of the file comparison result.
old	Array of LineDiscussionDto objects	Definition Review comment collection on the left of the file comparison result.
path	String	Definition File name.

Table 4-1475 LineDiscussionDto

Parameter	Type	Description
discussions	Array of MergeRequestBasicDiscussionDto objects	Definition Review comment collection in a line on a side.
line	Integer	Definition Line No.

Parameter	Type	Description
type	String	Definition: Line type Value range: old: deleted line on the left new: added line on the right unchanged-l: unchanged line on the left unchanged-r: unchanged line on the right Enumeration values: • old • new • unchanged-l • unchanged-r

Table 4-1476 MergeRequestBasicDiscussionDto

Parameter	Type	Description
id	String	Definition Review comment ID, which is shared by the main comment and replies.
individual_note	Boolean	Definition Personal review comments (no need to be resolved).
notes	Array of NoteDto objects	Definition Comment list (main comment and replies).
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647

Parameter	Type	Description
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted under a merge request • Commit: review comments submitted under a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
repository_full_path	String	Definition Repository path.
a_mode	String	Definition Old permission for the file (default value: 100644).
b_mode	String	Definition New permission for the file (default value: 100644)
deleted_file	Boolean	Definition Deleted file or not.
new_file	Boolean	Definition New file or not.
resolved	Boolean	Definition Resolved or not.
archived	Boolean	Definition Archived or not.
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type (CN).
review_categories_en	String	Definition Comment type.

Parameter	Type	Description
review_modules	String	Definition Comment module.
severity	String	Definition: Severity key Value range: • suggestion: suggestion • minor: minor • major: major • fatal: fatal Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition: Severity (CN) Value range: • Suggestion • Minor • Major • Critical
severity_en	String	Definition: Severity (EN) Value range: • Suggestion: suggestion • Minor: minor • major: major • fatal: fatal Enumeration values: • Suggestion • Minor • Major • Fatal
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.

Parameter	Type	Description
merge_request_version_params	MergeRequestVersionParamsDto object	Definition MR version information.

Table 4-1477 NoteDto

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647
type	String	Definition Review types Range • DiscussionNote: comment on the associated code line to be resolved • DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647

Parameter	Type	Description
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted in a merge request • Commit: review comments submitted on a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.

Parameter	Type	Description
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.

Parameter	Type	Description
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_statuses	Integer	Definition Content approving status.

Table 4-1478 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.

Parameter	Type	Description
new_line	Integer	Definition New file line No.

Table 4-1479 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1480 MergeRequestVersionParamsDto

Parameter	Type	Description
diff_id	Integer	Definition Version ID (composed of the MR ID and SHA value).
start_sha	String	Definition Start SHA value.
commit_id	String	Definition Commit record ID.

Status code: 401**Table 4-1481** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112015538/commits/  
855504a8cda99c7117c2c83cb6e4236b40635f7e/comments-by-line
```

Example Responses

Status code: 200

Obtain the review comments of a single submitted file on a code page.

```
success
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	Obtain the review comments of a single submitted file on a code page.
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.60 Creating a Merge Request Template of a Repository Group

Function

This API is used to create a repository group merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/groups/{group_id}/merge-requests/templates

Table 4-1482 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-1483 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1484 Request body parameters

Parameter	Mandatory	Type	Description
template_name	Yes	String	Definition Template name.
merge_request_title	No	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
description	No	String	Definition Description.
auto_extract_mr_title	No	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
is_wip	No	Boolean	Definition Whether to add [WIP] to the title.

Parameter	Mandatory	Type	Description
is_default	No	Boolean	Definition Whether to set as the default template.

Response Parameters

Status code: 200

Table 4-1485 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.

Parameter	Type	Description
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.
group_id	Integer	Definition: Repository group ID

Table 4-1486 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL

Parameter	Type	Description
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1487** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/groups/123/merge-requests/templates
{
  "template_name": "name",
  "merge_request_title": "title",
  "description": "description",
  "auto_extract_mr_title": 0,
  "is_wip": true,
  "is_default": true
}
```

Example Responses**Status code: 200**

OK

```
{
  "id": 2278,
  "group_id": 2111987241,
```

```
"description" : "description",
"created_at" : "2025-03-06T19:56:21.000+08:00",
"updated_at" : "2025-03-06T19:56:21.000+08:00",
"template_name" : "name",
"merge_request_title" : "title",
"is_default" : true,
"is_wip" : true,
"auto_extract_mr_title" : 0,
"creator" : {
  "id" : 9124,
  "name" : "example_name",
  "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
  "state" : "active",
  "avatar_url" : null,
  "email" : "liujian@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
  "nick_name" : "dev",
  "tenant_name" : "example_name"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.61 Obtaining the Merge Request Template List of a Repository Group

Function

This API is used to obtain the merge request template list of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/merge-requests/templates

Table 4-1488 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Table 4-1489 Query Parameters

Parameter	Mandatory	Type	Description
template_name	No	String	Definition Name of the template to be searched for. Range 1–100,000 characters.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1490 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1491** Response body parameters

Parameter	Type	Description
[items]	Array of GroupMergeRequestTemplateDto objects	Response body of the repository merge request template

Table 4-1492 GroupMergeRequestTemplateDto

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647

Parameter	Type	Description
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.
group_id	Integer	Definition: Repository group ID

Table 4-1493 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401

Table 4-1494 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.62 Updating a Merge Request Template for a Repository Group

Function

Update a merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/groups/{group_id}/merge-requests/template/{template_id}

Table 4-1495 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
template_id	Yes	Integer	Definition MR template ID. Value range: 1~2147483647

Request Parameters

Table 4-1496 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1497 Request body parameters

Parameter	Mandatory	Type	Description
template_name	Yes	String	Definition Template name.
merge_request_title	No	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
description	No	String	Definition Description.
auto_extract_mr_title	No	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
is_wip	No	Boolean	Definition Whether to add [WIP] to the title.
is_default	No	Boolean	Definition Whether to set as the default template.

Response Parameters

Status code: 200

Table 4-1498 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647

Parameter	Type	Description
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.
group_id	Integer	Definition: Repository group ID

Table 4-1499 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401

Table 4-1500 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/groups/123/merge-requests/template/123
{
  "template_name" : "name",
  "merge_request_title" : "title",
  "description" : "description",
  "auto_extract_mr_title" : 0,
  "is_wip" : true,
  "is_default" : true
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 2278,
  "group_id" : 2111987241,
  "description" : "description",
  "created_at" : "2025-03-06T19:56:21.000+08:00",
  "updated_at" : "2025-03-06T19:56:21.000+08:00",
  "template_name" : "name",
  "merge_request_title" : "title",
  "is_default" : true,
  "is_wip" : true,
  "auto_extract_mr_title" : 0,
  "creator" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : null,
    "email" : "liujian@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "dev",
    "tenant_name" : "example_name"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.63 Delete the merge request template of a repository group.

Function

Delete the merge request template of a repository group.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/groups/{group_id}/merge-requests/template/{template_id}

Table 4-1501 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647
template_id	Yes	Integer	Definition MR template ID. Value range: 1~2147483647

Request Parameters

Table 4-1502 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1503 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647

Status code: 401

Table 4-1504 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{  
  "id" : 2279  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.64 Creating a Project Merge Request Template

Function

This API is used to create a project merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/projects/{project_id}/merge-requests/templates

Table 4-1505 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-1506 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1507 Request body parameters

Parameter	Mandatory	Type	Description
template_name	Yes	String	Definition Template name.
merge_request_title	No	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
description	No	String	Definition Description.

Parameter	Mandatory	Type	Description
auto_extract_mr_title	No	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
is_wip	No	Boolean	Definition Whether to add [WIP] to the title.
is_default	No	Boolean	Definition Whether to set as the default template.

Response Parameters

Status code: 200

Table 4-1508 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.

Parameter	Type	Description
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.
project_id	String	Definition: Project ID

Table 4-1509 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1510** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/projects/4f96a4f00f17466bab756a2379236c85/merge-requests/templates
{
  "template_name" : "name",
  "merge_request_title" : "title",
  "description" : "description",
  "auto_extract_mr_title" : 0,
  "is_wip" : true,
  "is_default" : true
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 2278,
  "project_id" : "4f96a4f00f17466bab756a2379236c85",
  "description" : "description",
  "created_at" : "2025-03-06T19:56:21.000+08:00",
  "updated_at" : "2025-03-06T19:56:21.000+08:00",
  "template_name" : "name",
  "merge_request_title" : "title",
  "is_default" : true,
  "is_wip" : true,
  "auto_extract_mr_title" : 0,
  "creator" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : null,
    "email" : "liujian@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "dev",
    "tenant_name" : "example_name"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.65 Obtaining the Merge Request Template List of a Project

Function

This API is used to obtain the merge request template list of a project.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/merge-requests/templates

Table 4-1511 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Table 4-1512 Query Parameters

Parameter	Mandatory	Type	Description
template_name	No	String	Definition Name of the template to be searched for. Range 1–100,000 characters.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1513 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1514 Response body parameters

Parameter	Type	Description
[items]	Array of ProjectMergeRequestTemplateDto objects	Response body of the repository merge request template

Table 4-1515 ProjectMergeRequestTemplateDto

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.
project_id	String	Definition: Project ID

Table 4-1516 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1517** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 401**

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.11.66 Updating a Project Merge Request Template****Function**

This API is used to update the project merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/projects/{project_id}/merge-requests/template/{template_id}

Table 4-1518 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
template_id	Yes	Integer	Definition MR template ID. Value range: 1~2147483647

Request Parameters

Table 4-1519 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1520 Request body parameters

Parameter	Mandatory	Type	Description
template_name	Yes	String	Definition Template name.
merge_request_title	No	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
description	No	String	Definition Description.
auto_extract_mr_title	No	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
is_wip	No	Boolean	Definition Whether to add [WIP] to the title.
is_default	No	Boolean	Definition Whether to set as the default template.

Response Parameters

Status code: 200

Table 4-1521 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647

Parameter	Type	Description
description	String	Definition Description.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
template_name	String	Definition Template name.
merge_request_title	String	Definition MR title. (This parameter is valid when the MR title is not auto extracted.)
is_default	Boolean	Definition Whether to set as the default template.
is_wip	Boolean	Definition Whether to add [WIP] to the title.
auto_extract_mr_title	Integer	Definition Auto extract MR title. 0: not extract 1: extract commit message 2: extract the E2E ticket title Value range: 0~2
creator	UserBasicDto object	Definition Creator.
project_id	String	Definition: Project ID

Table 4-1522 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401

Table 4-1523 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/projects/123/merge-requests/template/123

{
  "template_name" : "name",
  "merge_request_title" : "title",
  "description" : "description",
  "auto_extract_mr_title" : 0,
  "is_wip" : true,
  "is_default" : true
}
```

Example Responses

Status code: 200

OK

```
{
  "id" : 2278,
  "project_id" : "4f96a4f00f17466bab756a2379236c85",
  "description" : "description",
  "created_at" : "2025-03-06T19:56:21.000+08:00",
  "updated_at" : "2025-03-06T19:56:21.000+08:00",
  "template_name" : "name",
  "merge_request_title" : "title",
  "is_default" : true,
  "is_wip" : true,
  "auto_extract_mr_title" : 0,
  "creator" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "avatar_url" : null,
    "email" : "liujian@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "dev",
    "tenant_name" : "example_name"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.67 Deleting a Project Merge Request Template

Function

This API is used to delete a project merge request template.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/projects/{project_id}/merge-requests/template/{template_id}

Table 4-1524 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters
template_id	Yes	Integer	Definition MR template ID. Value range: 1~2147483647

Request Parameters

Table 4-1525 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1526 Response body parameters

Parameter	Type	Description
id	Integer	Definition Primary key ID of an MR template. Value range: 1~2147483647

Status code: 401

Table 4-1527 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{
  "id" : 2279
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.68 Obtaining the List of File Change History Versions

Function

This API is used to obtain the history versions list of file change.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/versions

Table 4-1528 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1529 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1530 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1531** Response body parameters

Parameter	Type	Description
id	Integer	Definition: Diff primary key ID
head_commit_sha	String	Definition: Head commit node
base_commit_sha	String	Definition: Base commit node
start_commit_sha	String	Definition: Start commit node.
created_at	String	Definition: Creation time
merge_request_id	Integer	Definition: MR primary key ID
state	String	Definition: Status

Parameter	Type	Description
real_size	String	Definition: Diff size

Status code: 401

Table 4-1532 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112015544/merge-requests/1/versions
```

Example Responses

Status code: 200

Obtain the list of history versions list of a file

```
[ {  
  "id" : 5336,  
  "merge_request_id" : 76882,  
  "head_commit_sha" : "726e1f18234af14f6a154e0c7f6c2d430f73dc8c",  
  "base_commit_sha" : "726e1f18234af14f6a154e0c7f6c2d430f73dc8c",  
  "created_at" : "2025-08-07T14:29:41.000+08:00",  
  "start_commit_sha" : "3015d9cfac5f67bd16dd1dbb4db5a51d689b8010",  
  "state" : "collected",  
  "real_size" : 5  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	Obtain the list of history versions list of a file

Status Code	Description
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11.69 Cherry-Picking a Merge Request

Function

This API is used to cherry pick a merge request.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/cherry-pick

Table 4-1533 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1534 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1535 Request body parameters

Parameter	Mandatory	Type	Description
branch	Yes	String	Branch name
with_new_merge_request	No	Boolean	Whether to cherry pick or revert MRs through creating MRs
message	No	String	Commit message

Response Parameters

Status code: 200**Table 4-1536** Response body parameters

Parameter	Type	Description
state	String	Cherry pick result
title	String	Cherry pick title
cherry_pick_branch_name	String	Cherry pick temporary branch name

Status code: 401**Table 4-1537** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST /v4/repositories/2661032/merge-requests/1/cherry-pick
{
  "branch" : "test",
  "with_new_merge_request" : true,
  "message" : "Commit message"
}
```

Example Responses**Status code: 200**

OK

```
{
  "state" : "success",
  "title" : "Cherry pick",
  "cherry_pick_branch_name" : "cherry-pick-commit-ff660328-1758540992382-auto"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error CodesSee [Error Codes](#).

4.1.12 Discussion

4.1.12.1 Obtaining Merge Request Review Comments Based on discussion_id

Function

This API is used to obtain merge request review comments based on discussion_id.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/discussions/{discussion_id}

Table 4-1538 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647
discussion_id	Yes	String	Definition Review comment ID, which is shared by the main comment and replies. Range String length: 40 characters.

Request Parameters

Table 4-1539 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1540** Response body parameters

Parameter	Type	Description
id	String	Definition Review comment ID, which is shared by the main comment and replies.
individual_note	Boolean	Definition Personal review comments (no need to be resolved).
notes	Array of NoteDto objects	Definition Comment list (main comment and replies).
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647

Parameter	Type	Description
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted under a merge request • Commit: review comments submitted under a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
repository_full_path	String	Definition Repository path.
a_mode	String	Definition Old permission for the file (default value: 100644).
b_mode	String	Definition New permission for the file (default value: 100644)
deleted_file	Boolean	Definition Deleted file or not.
new_file	Boolean	Definition New file or not.
resolved	Boolean	Definition Resolved or not.
archived	Boolean	Definition Archived or not.
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type (CN).
review_categories_en	String	Definition Comment type.

Parameter	Type	Description
review_modules	String	Definition Comment module.
severity	String	Definition: Severity key Value range: • suggestion: suggestion • minor: minor • major: major • fatal: fatal Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition: Severity (CN) Value range: • Suggestion • Minor • Major • Critical
severity_en	String	Definition: Severity (EN) Value range: • Suggestion: suggestion • Minor: minor • major: major • fatal: fatal Enumeration values: • Suggestion • Minor • Major • Fatal
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.

Parameter	Type	Description
merge_request_version_params	MergeRequestVersionParamsDto object	Definition MR version information.
diff_file	String	Definition Code snippets with review comments on the change request (CR) page.
added_lines	Integer	Definition Number of new lines in the file that contains review comments. Value range: 0~2147483647
removed_lines	Integer	Definition Number of deleted lines in the file that contains review comments. Value range: 0~2147483647

Table 4-1541 NoteDto

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647
type	String	Definition Review types Range - DiscussionNote: comment on the associated code line to be resolved - DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.

Parameter	Type	Description
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted in a merge request • Commit: review comments submitted on a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.

Parameter	Type	Description
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical

Parameter	Type	Description
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_statuses	Integer	Definition Content approving status.

Table 4-1542 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.

Parameter	Type	Description
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.
new_line	Integer	Definition New file line No.

Table 4-1543 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1544 MergeRequestVersionParamsDto

Parameter	Type	Description
diff_id	Integer	Definition Version ID (composed of the MR ID and SHA value).
start_sha	String	Definition Start SHA value.
commit_id	String	Definition Commit record ID.

Status code: 401

Table 4-1545 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id": "3da6d31d0b3d426de6b183d604de50b6b972d87c",
  "individual_note": false,
  "notes": [ {
    "id": 1399939,
    "type": "DiffNote",
    "body": "test",
    "author": {
      "id": 1130646,
      "name": "example_name",
      "username": "7806db92698840d794a70e53e1295cb7",
      "state": "active",
      "avatar_url": null,
      "email": "7806db92698840d794a70e53e1295cb7@example.com",
      "name_cn": "example_name",
      "web_url": "https://example.com/7806db92698840d794a70e53e1295cb7",
      "nick_name": "example_name",
      "tenant_name": "example_name"
    },
  },
  "created_at": "2025-01-06T14:54:43.000+08:00",
  "updated_at": "2025-01-06T14:54:43.000+08:00",
  "system": false,
  "noteable_id": 1242586,
  "noteable_type": "MergeRequest",
  "resolvable": true,
  "is_reply": false,
  "noteable_iid": 1,
  "discussion_id": "3da6d31d0b3d426de6b183d604de50b6b972d87c",
  "repository": "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "diff_file": "README.md",
  "diff": "@@ -20 +11 @@\\n\\n\\n\\n No newline at end of file\\n+\\# mr_test\\n\\n",
  "archived": false,
  "review_categories_cn": null,
  "review_categories_en": null,
  "severity": "suggestion",
  "severity_cn": "Suggestion",
  "severity_en": "Suggestion",
  "assignee": {
    "id": 1130646,
```

```
"name" : "example_name",
"username" : "7806db92698840d794a70e53e1295cb7",
"state" : "active",
"avatar_url" : null,
"email" : "7806db92698840d794a70e53e1295cb7@example.com",
"name_cn" : "example_name",
"web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
"nick_name" : "example_name",
"tenant_name" : "example_name"
},
"proposer" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"position" : {
  "base_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "start_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "head_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
  "old_path" : "README.md",
  "new_path" : "README.md",
  "position_type" : "text",
  "new_line" : 1
},
"resolved" : false,
"is_outdated" : false,
"moderation_result" : true,
"moderation_time" : 1736146483268,
"moderation_status" : 0
}],
"repository_id" : 2663641,
"noteable_type" : "MergeRequest",
"repository_full_path" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
"a_mode" : 100644,
"b_mode" : 100644,
"deleted_file" : false,
"new_file" : false,
"resolved" : false,
"archived" : false,
"review_categories_cn" : null,
"review_categories_en" : null,
"severity" : "suggestion",
"severity_cn" : "Suggestion",
"severity_en" : "Suggestion",
"assignee" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"proposer" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
```



```
"email" : "7806db92698840d794a70e53e1295cb7@example.com",
"name_cn" : "example_name",
"web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
"nick_name" : "example_name",
"tenant_name" : "example_name"
},
"merge_request_version_params" : { },
"diff_file" : "@@ -20 +11 @@\n\\\ No newline at end of file\n+# mr_test\n",
"added_lines" : 1,
"removed_lines" : 1
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.2 Updating Information Except Comments in the Merge Request's Review Comments

Function

This API is used to update information except comments in the merge request's review comments.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/discussions/{discussion_id}

Table 4-1546 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647
discussion_id	Yes	String	Definition Review comment ID, which is shared by the main comment and replies. Range String length: 40 characters.

Request Parameters

Table 4-1547 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1548 Request body parameters

Parameter	Mandatory	Type	Description
body	No	String	Definition Comment content.
severity	No	String	Definition Review comment severity. Enumeration values: • suggestion • minor • major • fatal
assignee_id	No	String	Definition Review comment assignee ID.
review_categories	No	String	Definition Review comment type.
review_modules	No	String	Definition Review comment module.
proposer_id	No	String	Definition ID of a reviewer who gives review comments.
resolved	No	Boolean	Definition Resolve or cancel a review comment. (Only this parameter needs to be transferred when needed.)

Response Parameters

Status code: 201

Table 4-1549 Response body parameters

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647

Parameter	Type	Description
type	String	Definition Review types Range - DiscussionNote: comment on the associated code line to be resolved - DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647
noteable_type	String	Definition: Comment type Value range: - MergeRequest: review comments submitted in a merge request - Commit: review comments submitted on a code page or commit record Enumeration values: MergeRequest Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.

Parameter	Type	Description
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal

Parameter	Type	Description
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_status	Integer	Definition Content approving status.

Table 4-1550 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: - active: available account - blocked: locked user - error: The user is not found Enumeration values: active blocked error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1551 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.
new_line	Integer	Definition New file line No.

Status code: 401**Table 4-1552** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1553** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/122/merge-requests/123/discussions/sasdsadsadsadasdsadasdsad
{
  "body": "test",
  "severity": "suggestion",
  "assignee_id": 9124,
  "review_categories": "category",
  "review_modules": "module",
  "proposer_id": 9124,
  "resolved": false
}
```

Example Responses

Status code: 201

OK

```
{
  "id": 1399939,
  "type": "DiffNote",
  "body": "test",
  "author": {
    "id": 1130646,
    "name": "example_name",
    "username": "7806db92698840d794a70e53e1295cb7",
    "state": "active",
    "avatar_url": null,
    "email": "7806db92698840d794a70e53e1295cb7@example.com",
    "name_cn": "example_name",
    "web_url": "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name": "example_name",
    "tenant_name": "example_name"
  },
  "created_at": "2025-01-06T14:54:43.000+08:00",
  "updated_at": "2025-01-06T14:54:43.000+08:00",
  "system": false,
  "noteable_id": 1242586,
  "noteable_type": "MergeRequest",
  "resolvable": true,
  "is_reply": false,
  "noteable_iid": 1,
  "discussion_id": "3da6d31d0b3d426de6b183d604de50b6b972d87c",
  "repository": "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "diff_file": "README.md",
  "diff": "@@ -20 +11 @@\\n\\n\\n\\n No newline at end of file\\n+# mr_test\\n",
  "archived": false,
  "review_categories_cn": null,
  "review_categories_en": null,
  "severity": "suggestion",
  "severity_cn": "Suggestions",
  "severity_en": "Suggestion",
  "assignee": {
    "id": 1130646,
    "name": "example_name",
    "username": "7806db92698840d794a70e53e1295cb7",
    "state": "active",

```

```
"avatar_url" : null,
"email" : "7806db92698840d794a70e53e1295cb7@example.com",
"name_cn" : "example_name",
"web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
"nick_name" : "example_name",
"tenant_name" : "example_name"
},
"proposer" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"position" : {
  "base_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "start_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "head_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
  "old_path" : "README.md",
  "new_path" : "README.md",
  "position_type" : "text",
  "new_line" : 1
},
"resolved" : false,
"is_outdated" : false,
"moderation_result" : true,
"moderation_time" : 1736146483268,
"moderation_status" : 0
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.12.3 Obtaining the Repository Review Comment List

Function

This API is used to obtain a repository review list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/reviews

Table 4-1554 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1555 Query Parameters

Parameter	Mandatory	Type	Description
noteable_type	Yes	String	Definition Comment type. Range - Commit: indicates commit. - MergeRequest: indicates MR. Enumeration values: Commit MergeRequest

Parameter	Mandatory	Type	Description
search	No	String	Definition Query comment content.
start_date	No	String	Definition Start date.
end_date	No	String	Definition End date.
only_count	No	Boolean	Definition: Whether to return only results containing the commit count and difference count. Value range: • true: return only results containing the commit count and difference count. • false: return result information according to the compare_view parameter. Default value: false
review_categories	No	String	Definition Types of searched review comments. Range 1–200 characters.
review_modules	No	String	Definition Modules of searched review comments. Range 1–200 characters.
severity	No	String	Definition Review comment severity. Enumeration values: • suggestion • minor • major • fatal

Parameter	Mandatory	Type	Description
assignee_id	No	Integer	Definition Review comment assignee ID. Value range: 1~2147483647
proposer_id	No	Integer	Definition ID of a reviewer who gives review comments. Value range: 1~2147483647
target_branch	No	String	Definition Target branch name. Range 1~2,000 characters. Value range: 1~2000
include_reply	No	Boolean	Definition Whether to include replies. Range • true: yes. • false: no. Default value: false
order_by	No	String	Definition Sorting method. Range • created: creation time. • updated: update time. Default value: created_at Enumeration values: • created_at • updated_at

Parameter	Mandatory	Type	Description
sort	No	String	Definition Sort review comments. • asc: results are returned in the order they were created, from oldest to newest • desc: results are returned in the order they were created, from newest to oldest
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1556 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1557** Response body parameters

Parameter	Type	Description
[items]	Array of ReviewDto objects	Review comment details

Table 4-1558 ReviewDto

Parameter	Type	Description
assignee	UserBasicDto object	Definition Review comment assignee.
author	UserBasicDto object	Definition Author of an MR or commit.
note	String	Definition Comment content.
created_at	String	Definition Creation time.

Parameter	Type	Description
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Review comment solver.
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository_path	String	Definition Repository path.
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type (CN).
review_categories_en	String	Definition Comment type.
review_modules	String	Definition Review comment module.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical

Parameter	Type	Description
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
proposer	UserBasicDto object	Definition Reviewer who gives review comments.
reviewer	UserBasicDto object	Definition Review comment author.
resolved	Boolean	Definition Resolved or not.
resolved_at	String	Definition Resolution time.
link	String	Definition MR or commit link.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_status	Integer	Definition Content approving status.
merge_request_id	Integer	Definition MR ID (returned when noteable_type=MergRequest).
merge_request_iid	Integer	Definition MR IID (returned when noteable_type=MergRequest).
merge_request_title	String	Definition MR title (returned when noteable_type=MergRequest).
merge_request_state	String	Definition MR status (returned when noteable_type=MergRequest).

Parameter	Type	Description
commit_id	String	Definition Commit ID (returned when noteable_type=Commit).

Table 4-1559 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401

Table 4-1560 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
[ {
  "assignee" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "service_license_status" : null,
    "avatar_url" : null,
    "avatar_path" : null,
    "email" : "liujian@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name" : "beta_dv",
    "tenant_name" : "example_name",
    "error_message" : null
  },
  "author" : {
    "id" : 9124,
    "name" : "example_name",
    "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
    "state" : "active",
    "service_license_status" : null,
    "avatar_url" : null,
    "avatar_path" : null,
```

```
"email": "liujian@example.com",
"name_cn": "example_name",
"web_url": "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
"nick_name": "beta_dv",
"tenant_name": "example_name",
"error_message": null
},
"note": "test",
"created_at": "2025-06-19T21:56:37.000+08:00",
"is_reply": false,
"resolved_by": null,
"discussion_id": "ba3daf3922c7fa2f7adebff2457d40aaced95d00",
"repository_path": "4f96a4f00f17466bab756a2379236c85/mr_test",
"repository_id": 2111987241,
"review_categories": "realize",
"review_categories_cn": "Algorithm implementation",
"review_categories_en": "Algorithm",
"review_modules": 789,
"severity": "suggestion",
"severity_cn": "Suggestion",
"severity_en": "Suggestion",
"proposer": {
  "id": 9124,
  "name": "example_name",
  "username": "c369c68f1ff84679b5a8ed904d8bff1c",
  "state": "active",
  "service_license_status": null,
  "avatar_url": null,
  "avatar_path": null,
  "email": "liujian@example.com",
  "name_cn": "example_name",
  "web_url": "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
  "nick_name": "beta_dv",
  "tenant_name": "example_name",
  "error_message": null
},
"reviewer": {
  "id": 9124,
  "name": "example_name",
  "username": "c369c68f1ff84679b5a8ed904d8bff1c",
  "state": "active",
  "service_license_status": null,
  "avatar_url": null,
  "avatar_path": null,
  "email": "liujian@example.com",
  "name_cn": "example_name",
  "web_url": "https://example.com/c369c68f1ff84679b5a8ed904d8bff1c",
  "nick_name": "beta_dv",
  "tenant_name": "example_name",
  "error_message": null
},
"resolved": false,
"resolved_at": null,
"link": "https://example.com/*****/2111987241/37/mergedetail?source=dev&target=0319-test",
"moderation_result": null,
"moderation_time": null,
"moderation_status": null,
"merge_request_id": 72447,
"merge_request_iid": 37,
"merge_request_title": "mr_title",
"merge_request_state": "opened"
}]
```

Status code: 401

Unauthorized

```
{
  "error_code": "DEV.00000003",
```

```
"error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.4 Creating Merge Request Review Comments

Function

This API is used to create merge request review comments.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/discussions

Table 4-1561 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Request Parameters

Table 4-1562 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1563 Request body parameters

Parameter	Mandatory	Type	Description
body	No	String	Definition Comment content.
severity	No	String	Definition Review comment severity. Enumeration values: ● suggestion ● minor ● major ● fatal
assignee_id	No	String	Definition Review comment assignee ID.

Parameter	Mandatory	Type	Description
review_categories	No	String	Definition Review comment type.
review_modules	No	String	Definition Review comment module.
proposer_id	No	String	Definition Reviewer.
line_types	No	String	Definition Review comment line type (required for code line comments). Enumeration values: • new • old
position	No	PositionDto object	Definition Review comment line No. (required for code line comments).

Table 4-1564 PositionDto

Parameter	Mandatory	Type	Description
base_sha	No	String	Definition Basic SHA value.
start_sha	No	String	Definition Start SHA value.
head_sha	No	String	Definition Latest SHA value.
old_path	No	String	Definition Old file path.
new_path	No	String	Definition New file path.
position_type	No	String	Definition File type.
old_line	No	Integer	Definition Old file line No.

Parameter	Mandatory	Type	Description
new_line	No	Integer	Definition New file line No.

Response Parameters

Status code: 201

Table 4-1565 Response body parameters

Parameter	Type	Description
id	String	Definition Review comment ID, which is shared by the main comment and replies.
individual_note	Boolean	Definition Personal review comments (no need to be resolved).
notes	Array of NoteDto objects	Definition Comment list (main comment and replies).
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted under a merge request • Commit: review comments submitted under a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
repository_full_path	String	Definition Repository path.

Parameter	Type	Description
a_mode	String	Definition Old permission for the file (default value: 100644).
b_mode	String	Definition New permission for the file (default value: 100644)
deleted_file	Boolean	Definition Deleted file or not.
new_file	Boolean	Definition New file or not.
resolved	Boolean	Definition Resolved or not.
archived	Boolean	Definition Archived or not.
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type (CN).
review_categories_en	String	Definition Comment type.
review_modules	String	Definition Comment module.
severity	String	Definition: Severity key Value range: • suggestion: suggestion • minor: minor • major: major • fatal: fatal Enumeration values: • suggestion • minor • major • fatal

Parameter	Type	Description
severity_cn	String	Definition: Severity (CN) Value range: • Suggestion • Minor • Major • Critical
severity_en	String	Definition: Severity (EN) Value range: • Suggestion: suggestion • Minor: minor • major: major • fatal: fatal Enumeration values: • Suggestion • Minor • Major • Fatal
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.
merge_request_version_params	MergeRequestVersionParamsDto object	Definition MR version information.
diff_file	String	Definition Code snippets with review comments on the change request (CR) page.
added_lines	Integer	Definition Number of new lines in the file that contains review comments. Value range: 0~2147483647

Parameter	Type	Description
removed_lines	Integer	Definition Number of deleted lines in the file that contains review comments. Value range: 0~2147483647

Table 4-1566 NoteDto

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647
type	String	Definition Review types Range • DiscussionNote: comment on the associated code line to be resolved • DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647

Parameter	Type	Description
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted in a merge request • Commit: review comments submitted on a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.

Parameter	Type	Description
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.

Parameter	Type	Description
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_statuses	Integer	Definition Content approving status.

Table 4-1567 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.

Parameter	Type	Description
new_line	Integer	Definition New file line No.

Table 4-1568 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1569 MergeRequestVersionParamsDto

Parameter	Type	Description
diff_id	Integer	Definition Version ID (composed of the MR ID and SHA value).
start_sha	String	Definition Start SHA value.
commit_id	String	Definition Commit record ID.

Status code: 401**Table 4-1570** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1571** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/discussions

{
  "assignee_id": 9124,
  "body": "test",
  "line_types": "new",
  "proposer_id": 9124,
  "review_categories": "realize",
  "review_modules": 789,
  "severity": "suggestion",
  "position": {
    "base_sha": "25897251038e328995d9443b348292d63e52440a",
    "start_sha": "5054195b8132ed1c9a226457f1570fa326a8803b",
    "head_sha": "afcab695cbc7014db3c99f18ff5a50094ea02d96",
    "position_type": "text",
    "new_path": "test",
    "old_path": "test",
    "new_line": 1,
    "old_line": -1
  }
}
```

Example Responses

Status code: 201

OK

```
{
  "id": "3da6d31d0b3d426de6b183d604de50b6b972d87c",
  "individual_note": false,
  "notes": [ {
    "id": 1399939,
    "type": "DiffNote",
    "body": "test",
    "author": {
      "id": 1130646,
      "name": "example_name",
      "username": "7806db92698840d794a70e53e1295cb7",
      "state": "active",
      "avatar_url": null,
      "email": "7806db92698840d794a70e53e1295cb7@example.com",
      "name_cn": "example_name",
      "web_url": "https://example.com/7806db92698840d794a70e53e1295cb7",
      "nick_name": "example_name",
      "tenant_name": "example_name"
    },
    "created_at": "2025-01-06T14:54:43.000+08:00",
    "updated_at": "2025-01-06T14:54:43.000+08:00",
    "system": false,
    "noteable_id": 1242586,
    "noteable_type": "MergeRequest",
    "resolvable": true,
    "is_reply": false,
    "noteable_iid": 1,
    "discussion_id": "3da6d31d0b3d426de6b183d604de50b6b972d87c",
    "repository": "07c8683c4bb0445393c5eab0ea354003/mr_test",
    "diff_file": "README.md",
    "diff": "@@ -20 +11 @@\\n\\\\\\\\ No newline at end of file\\n+# mr_test\\n",
    "archived": false,
    "review_categories_cn": null,
    "review_categories_en": null,
    "severity": "suggestion",
  } ],
  "created_at": "2025-01-06T14:54:43.000+08:00",
  "updated_at": "2025-01-06T14:54:43.000+08:00",
  "system": false,
  "noteable_id": 1242586,
  "noteable_type": "MergeRequest",
  "resolvable": true,
  "is_reply": false,
  "noteable_iid": 1,
  "discussion_id": "3da6d31d0b3d426de6b183d604de50b6b972d87c",
  "repository": "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "diff_file": "README.md",
  "diff": "@@ -20 +11 @@\\n\\\\\\\\ No newline at end of file\\n+# mr_test\\n",
  "archived": false,
  "review_categories_cn": null,
  "review_categories_en": null,
  "severity": "suggestion",
}
```

```
"severity_cn" : "Suggestion",
"severity_en" : "Suggestion",
"assignee" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"proposer" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"position" : {
  "base_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "start_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "head_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
  "old_path" : "README.md",
  "new_path" : "README.md",
  "position_type" : "text",
  "new_line" : 1
},
"resolved" : false,
"is_outdated" : false,
"moderation_result" : true,
"moderation_time" : 1736146483268,
"moderation_status" : 0
}],
"repository_id" : 2663641,
"noteable_type" : "MergeRequest",
"repository_full_path" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
"a_mode" : 100644,
"b_mode" : 100644,
"deleted_file" : false,
"new_file" : false,
"resolved" : false,
"archived" : false,
"review_categories_cn" : null,
"review_categories_en" : null,
"severity" : "suggestion",
"severity_cn" : "Suggestion",
"severity_en" : "Suggestion",
"assignee" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"proposer" : {
  "id" : 1130646,
```

```
"name" : "example_name",
"username" : "7806db92698840d794a70e53e1295cb7",
"state" : "active",
"avatar_url" : null,
"email" : "7806db92698840d794a70e53e1295cb7@example.com",
"name_cn" : "example_name",
"web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
"nick_name" : "example_name",
"tenant_name" : "example_name"
},
"merge_request_version_params" : { },
"diff_file" : "@@ -20 +11 @@\n\\n\\n\\n No newline at end of file\n+# mr_test\n",
"added_lines" : 1,
"removed_lines" : 1
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.12.5 Obtaining the Review Comment List****Function**

This API is used to obtain the merge request review comment list.

DebuggingYou can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/discussions

Table 4-1572 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1573 Query Parameters

Parameter	Mandatory	Type	Description
unresolved	No	String	Definition Whether to filter resolved review comments. • true: Filter all unresolved review comments • false: Filter all resolved review comments • If this parameter is not transferred, all review comments are queried by default
author_id	No	Integer	Definition Operator ID. Value range: 1~2147483647

Parameter	Mandatory	Type	Description
sort	No	String	Definition Sort review comments. • asc: results are returned in the order they were created, from oldest to newest • desc: results are returned in the order they were created, from newest to oldest
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1574 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1575 Response body parameters

Parameter	Type	Description
[items]	Array of MergeRequestDiscussionDto objects	Response body for the MR review comment

Table 4-1576 MergeRequestDiscussionDto

Parameter	Type	Description
id	String	Definition Review comment ID, which is shared by the main comment and replies.
individual_note	Boolean	Definition Personal review comments (no need to be resolved).

Parameter	Type	Description
notes	Array of NoteDto objects	Definition Comment list (main comment and replies).
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted under a merge request • Commit: review comments submitted under a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
repository_full_path	String	Definition Repository path.
a_mode	String	Definition Old permission for the file (default value: 100644).
b_mode	String	Definition New permission for the file (default value: 100644)
deleted_file	Boolean	Definition Deleted file or not.
new_file	Boolean	Definition New file or not.
resolved	Boolean	Definition Resolved or not.
archived	Boolean	Definition Archived or not.

Parameter	Type	Description
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type (CN).
review_categories_en	String	Definition Comment type.
review_modules	String	Definition Comment module.
severity	String	Definition: Severity key Value range: • suggestion: suggestion • minor: minor • major: major • fatal: fatal Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition: Severity (CN) Value range: • Suggestion • Minor • Major • Critical

Parameter	Type	Description
severity_en	String	Definition: Severity (EN) Value range: • Suggestion: suggestion • Minor: minor • major: major • fatal: fatal Enumeration values: • Suggestion • Minor • Major • Fatal
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.
merge_request_version_params	MergeRequestVersionParamsDto object	Definition MR version information.
diff_file	String	Definition Code snippets with review comments on the change request (CR) page.
added_lines	Integer	Definition Number of new lines in the file that contains review comments. Value range: 0~2147483647
removed_lines	Integer	Definition Number of deleted lines in the file that contains review comments. Value range: 0~2147483647

Table 4-1577 NoteDto

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647
type	String	Definition Review types Range • DiscussionNote: comment on the associated code line to be resolved • DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647

Parameter	Type	Description
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted in a merge request • Commit: review comments submitted on a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.

Parameter	Type	Description
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.

Parameter	Type	Description
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_statuses	Integer	Definition Content approving status.

Table 4-1578 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.

Parameter	Type	Description
new_line	Integer	Definition New file line No.

Table 4-1579 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1580 MergeRequestVersionParamsDto

Parameter	Type	Description
diff_id	Integer	Definition Version ID (composed of the MR ID and SHA value).
start_sha	String	Definition Start SHA value.
commit_id	String	Definition Commit record ID.

Status code: 401**Table 4-1581** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
[ {  
  "id" : "3da6d31d0b3d426de6b183d604de50b6b972d87c",  
  "individual_note" : false,
```

```
"notes" : [ {
  "id" : 1399939,
  "type" : "DiffNote",
  "body" : "test",
  "author" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "created_at" : "2025-01-06T14:54:43.000+08:00",
  "updated_at" : "2025-01-06T14:54:43.000+08:00",
  "system" : false,
  "noteable_id" : 1242586,
  "noteable_type" : "MergeRequest",
  "resolvable" : true,
  "is_reply" : false,
  "noteable_iid" : 1,
  "discussion_id" : "3da6d31d0b3d426de6b183d604de50b6b972d87c",
  "repository" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "diff_file" : "README.md",
  "diff" : "@@ -20 +11 @@\n\\n\\n\\n No newline at end of file\n+# mr_test\n",
  "archived" : false,
  "review_categories_cn" : null,
  "review_categories_en" : null,
  "severity" : "suggestion",
  "severity_cn" : "Suggestion",
  "severity_en" : "Suggestion",
  "assignee" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "proposer" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "position" : {
    "base_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
    "start_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
    "head_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
    "old_path" : "README.md",
    "new_path" : "README.md",
    "position_type" : "text",
    "new_line" : 1
  },
  "resolved" : false,
  "is_outdated" : false,
```



```
"moderation_result" : true,
"moderation_time" : 1736146483268,
"moderation_status" : 0
} ],
"repository_id" : 2663641,
"noteable_type" : "MergeRequest",
"repository_full_path" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
"a_mode" : 100644,
"b_mode" : 100644,
"deleted_file" : false,
"new_file" : false,
"resolved" : false,
"archived" : false,
"review_categories_cn" : null,
"review_categories_en" : null,
"severity" : "suggestion",
"severity_cn" : "Suggestion",
"severity_en" : "Suggestion",
"assignee" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"proposer" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"merge_request_version_params" : { },
"diff_file" : "@@ -20 +11 @@\n\\n\\n\\n No newline at end of file\n+# mr_test\n",
"added_lines" : 1,
"removed_lines" : 1
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.6 Obtaining the Merge Request Activities List

Function

This API is used to obtain the merge request activities list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/system-notes

Table 4-1582 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647

Table 4-1583 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1584 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1585 Response body parameters

Parameter	Type	Description
[items]	Array of NoteDto objects	Comment details.

Table 4-1586 NoteDto

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647
type	String	Definition Review types Range • DiscussionNote: comment on the associated code line to be resolved • DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647

Parameter	Type	Description
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted in a merge request • Commit: review comments submitted on a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.

Parameter	Type	Description
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.

Parameter	Type	Description
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_status	Integer	Definition Content approving status.

Table 4-1587 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1588 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.

Parameter	Type	Description
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.
new_line	Integer	Definition New file line No.

Status code: 401

Table 4-1589 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
[ {
  "id" : 1399939,
  "type" : "DiffNote",
  "body" : "test",
  "author" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
```

```
"tenant_name" : "example_name"
},
"created_at" : "2025-01-06T14:54:43.000+08:00",
"updated_at" : "2025-01-06T14:54:43.000+08:00",
"system" : false,
"noteable_id" : 1242586,
"noteable_type" : "MergeRequest",
"resolvable" : true,
"is_reply" : false,
"noteable_iid" : 1,
"discussion_id" : "3da6d31d0b3d426de6b183d604de50b6b972d87c",
"repository" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
"diff_file" : "README.md",
"diff" : "@@ -20 +11 @@\\n\\n\\n No newline at end of file\\n+# mr_test\\n",
"archived" : false,
"review_categories_cn" : null,
"review_categories_en" : null,
"severity" : "suggestion",
"severity_cn" : "Suggestions",
"severity_en" : "Suggestion",
"assignee" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"proposer" : {
  "id" : 1130646,
  "name" : "example_name",
  "username" : "7806db92698840d794a70e53e1295cb7",
  "state" : "active",
  "avatar_url" : null,
  "email" : "7806db92698840d794a70e53e1295cb7@example.com",
  "name_cn" : "example_name",
  "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"position" : {
  "base_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "start_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "head_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
  "old_path" : "README.md",
  "new_path" : "README.md",
  "position_type" : "text",
  "new_line" : 1
},
"resolved" : false,
"is_outdated" : false,
"moderation_result" : true,
"moderation_time" : 1736146483268,
"moderation_status" : 0
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.7 Obtaining the List of Review Comments for a Single Commit on a Code Page

Function

This API is used to obtain the list of review comments for a single commit on a code page.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/commits/{sha}/discussions

Table 4-1590 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
sha	Yes	String	Definition Commit ID.

Table 4-1591 Query Parameters

Parameter	Mandatory	Type	Description
sort	No	String	Definition Sort review comments. • asc: results are returned in the order they were created, from oldest to newest • desc: results are returned in the order they were created, from newest to oldest
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1592 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1593** Response body parameters

Parameter	Type	Description
[items]	Array of CommitDiscussionDto objects	A single commit review comment

Table 4-1594 CommitDiscussionDto

Parameter	Type	Description
id	String	Definition: Review comment ID, which is shared by the main comment and replies.
individual_note	Boolean	Definition: Personal review comments (no need to be resolved)
notes	Array of CommitNoteDto objects	Definition: Comment list (main comment and replies)

Parameter	Type	Description
repository_id	Integer	Definition: Repository ID Value range: 1~2147483647
noteable_type	String	Definition: Comment type Enumeration values: • MergeRequest • Commit
commit_id	String	Definition: Commit record ID
repository_full_path	String	Definition: Repository path
a_mode	String	Definition: Old permission for the file (default value: 100644)
b_mode	String	Definition: New permission for the file (default value: 100644)
deleted_file	Boolean	Definition: Deleted file or not
new_file	Boolean	Definition: New file or not
diff_file	Boolean	Definition: Modified file or not
added_lines	Integer	Definition: Number of new lines in the file that contains review comments. Value range: 0~2147483647
removed_lines	Integer	Definition: Number of deleted lines in the file that contains review comments Value range: 0~2147483647

Parameter	Type	Description
resolved	Boolean	Definition: Resolved or not
archived	Boolean	Definition: Archived or not
review_categories	String	Definition: Comment type key
review_categories_cn	String	Definition: Comment type (CN)
review_categories_en	String	Definition: Comment type
review_modules	String	Definition: Comment module
severity	String	Definition: Severity key Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition: Severity (CN) Constraints: • Suggestion • Minor • Major • Critical
severity_en	String	Definition: Severity Enumeration values: • Suggestion • Minor • Major • Fatal
assignee	UserBasicDto object	Definition: Assignee

Parameter	Type	Description
proposer	UserBasicDto object	Definition: Reviewer

Table 4-1595 CommitNoteDto

Parameter	Type	Description
id	Integer	Definition: Comment ID, which is not shared by the main comment and replies Value range: 1~2147483647
noteable_type	String	Definition: Comment type Enumeration values: • MergeRequest • Commit
commit_id	String	Definition: Commit record ID
discussion_id	String	Definition: Review comment ID, which is shared by the main comment and replies
type	String	Definition: Type (common comment, common comment to be resolved, and comment on the associated code line to be resolved.) Enumeration values: • DiscussionNote • DiffNote
body	String	Definition: Comment content
diff_file	String	Definition: Name of the file that contains the associated code lines
diff	String	Definition: Code snippet associated with the lines of code

Parameter	Type	Description
attachment	String	Definition: Attachment (deprecated)
author	UserBasicDto object	Definition: Comment author
created_at	String	Definition: Creation time
updated_at	String	Definition: Update time
system	Boolean	Definition: Added by the system or not
noteable_id	Integer	Definition: MR ID or issue ID Value range: 1~2147483647
position	PositionDto object	Definition: Associated code line location information
resolvable	Boolean	Definition: Whether need to be resolved.
resolved	Boolean	Definition: Resolved or not
resolved_by	UserBasicDto object	Definition: Resolved by
archived	Boolean	Definition: Archived or not
noteable_iid	Integer	Definition: MR IID or issue IID Value range: 1~2147483647
review_categories	String	Definition: Comment type key
review_categories _cn	String	Definition: Comment type name (CN)
review_categories _en	String	Definition: MR version information

Parameter	Type	Description
review_modules	String	Definition: MR version information
severity	String	Definition: Severity key Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition: Severity (CN) Constraints: • Suggestion • Minor • Major • Critical
severity_en	String	Definition: Severity Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition: File path (deprecated)
line	String	Definition: Line number (deprecated)
assignee	UserBasicDto object	Definition: Assignee
proposer	UserBasicDto object	Definition: Reviewer
is_reply	Boolean	Definition: Reply or not
moderation_result	Boolean	Definition: Content approving result

Parameter	Type	Description
moderation_time	Long	Definition: Content approving time
moderation_statuses	Integer	Definition: Content approving status

Table 4-1596 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.
new_line	Integer	Definition New file line No.

Table 4-1597 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.

Parameter	Type	Description
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1598** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403

Table 4-1599 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/merge-requests/321/discussions/discussioniduuid
{
  "body": "test"
}
```

Example Responses

Status code: 200

OK

```
[ {
  "id": "e9d749e5605aa14c1a1d08d98a27c720be840a91",
  "individual_note": false,
  "notes": [ {
    "id": 2112075950,
    "noteable_type": "Commit",
    "commit_id": "c83350b89ac89633165814797d356e25d3f5b857",
    "discussion_id": "e9d749e5605aa14c1a1d08d98a27c720be840a91",
    "project": "63f8d09cf49448879c96ca2c2b38f139/1/33333",
    "type": "DiffNote",
    "body": "test",
    "diff_file": 232,
    "diff": "@@ -00 +10 @@\\n+233232\\n",
    "author": {
      "id": 21820,
      "name": "tr8",
      "username": "ac105e52a4764a4c8f29b306508f016d",
      "state": "active",
      "avatar_url": null,
      "email": "ac105e52a4764a4c8f29b306508f016d@example.com",
      "name_cn": "tr8",
      "web_url": "https://example.com/ac105e52a4764a4c8f29b306508f016d",
      "nick_name": "example_name",
      "tenant_name": "example_name"
    },
    "created_at": "2025-08-07T16:08:14.000+08:00",
```

```
"updated_at" : "2025-08-07T16:08:14.000+08:00",
"system" : false,
"position" : {
  "base_sha" : "51077424e80441d99c0acb7d8f5fd91392b3d0",
  "start_sha" : "51077424e80441d99c0acb7d8f5fd91392b3d0",
  "head_sha" : "c83350b89ac89633165814797d356e25d3f5b857",
  "old_path" : 232,
  "new_path" : 232,
  "position_type" : "text",
  "new_line" : 1,
  "is_left" : false
},
"resolvable" : true,
"resolved" : false,
"archived" : false,
"review_categories_cn" : null,
"review_categories_en" : null,
"severity" : "suggestion",
"severity_cn" : "Suggestions",
"severity_en" : "Suggestion",
"proposer" : {
  "id" : 21820,
  "name" : "tr8",
  "username" : "ac105e52a4764a4c8f29b306508f016d",
  "state" : "active",
  "avatar_url" : null,
  "email" : "ac105e52a4764a4c8f29b306508f016d@example.com",
  "name_cn" : "tr8",
  "web_url" : "https://example.com/ac105e52a4764a4c8f29b306508f016d",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
},
"is_reply" : false,
"moderation_result" : true,
"moderation_time" : 1754554094038,
"moderation_status" : 0
}],
"noteable_type" : "Commit",
"commit_id" : "c83350b89ac89633165814797d356e25d3f5b857",
"project_full_path" : "63f8d09cf49448879c96ca2c2b38f139/1/33333",
"a_mode" : 0,
"b_mode" : 100644,
"deleted_file" : false,
"new_file" : true,
"diff_file" : "@@ -00 +10 @@\\n+233232\\n",
"added_lines" : 1,
"removed_lines" : 0,
"resolved" : false,
"archived" : false,
"review_categories_cn" : null,
"review_categories_en" : null,
"severity" : "suggestion",
"severity_cn" : "Suggestions",
"severity_en" : "Suggestion",
"proposer" : {
  "id" : 21820,
  "name" : "tr8",
  "username" : "ac105e52a4764a4c8f29b306508f016d",
  "state" : "active",
  "avatar_url" : null,
  "email" : "ac105e52a4764a4c8f29b306508f016d@example.com",
  "name_cn" : "tr8",
  "web_url" : "https://example.com/ac105e52a4764a4c8f29b306508f016d",
  "nick_name" : "example_name",
  "tenant_name" : "example_name"
}
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.12.8 Replying to Merge Request Review Comments

Function

This API is used to reply to merge request review comments.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/discussions/{discussion_id}/notes

Table 4-1600 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647
discussion_id	Yes	String	Definition Review comment ID, which is shared by the main comment and replies. Range String length: 40 characters.

Request Parameters

Table 4-1601 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1602 Request body parameters

Parameter	Mandatory	Type	Description
body	No	String	Definition Comment content.

Response Parameters

Status code: 201

Table 4-1603 Response body parameters

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647
type	String	Definition Review types Range - DiscussionNote: comment on the associated code line to be resolved - DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.

Parameter	Type	Description
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted in a merge request • Commit: review comments submitted on a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.

Parameter	Type	Description
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).

Parameter	Type	Description
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_statuses	Integer	Definition Content approving status.

Table 4-1604 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1605 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.

Parameter	Type	Description
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.
new_line	Integer	Definition New file line No.

Status code: 401

Table 4-1606 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1607 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/merge-requests/321/discussions/discussioniduuid/notes
{
  "body" : "test"
}
```

Example Responses

Status code: 201

OK

```
{
  "id" : 1399939,
  "type" : "DiffNote",
  "body" : "test",
  "author" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "created_at" : "2025-01-06T14:54:43.000+08:00",
  "updated_at" : "2025-01-06T14:54:43.000+08:00",
  "system" : false,
  "noteable_id" : 1242586,
  "noteable_type" : "MergeRequest",
  "resolvable" : true,
  "is_reply" : false,
  "noteable_iid" : 1,
  "discussion_id" : "3da6d31d0b3d426de6b183d604de50b6b972d87c",
  "repository" : "07c8683c4bb0445393c5eab0ea354003/mr_test",
  "diff_file" : "README.md",
  "diff" : "@@ -20 +11 @@\\n\\n\\n\\n No newline at end of file\\n+# mr_test\\n\\n",
  "archived" : false,
  "review_categories_cn" : null,
  "review_categories_en" : null,
  "severity" : "suggestion",
  "severity_cn" : "Suggestion",
  "severity_en" : "Suggestion",
  "assignee" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "proposer" : {
    "id" : 1130646,
    "name" : "example_name",
    "username" : "7806db92698840d794a70e53e1295cb7",
    "state" : "active",
    "avatar_url" : null,
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",
    "name_cn" : "example_name",
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",
    "nick_name" : "example_name",
    "tenant_name" : "example_name"
  },
  "position" : {
    "base_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
    "start_sha" : "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
    "head_sha" : "2032553aab2bbe1855687885da9165412b3fa3a4",
    "old_path" : "README.md",
  }
}
```

```
{
  "new_path" : "README.md",
  "position_type" : "text",
  "new_line" : 1
},
"resolved" : false,
"is_outdated" : false,
"moderation_result" : true,
"moderation_time" : 1736146483268,
"moderation_status" : 0
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.12.9 Updating Merge Request Review Comments****Function**

This API is used to update merge request review comments.

DebuggingYou can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_id}/discussions/{discussion_id}/notes/{note_id}

Table 4-1608 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_id	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647
discussion_id	Yes	String	Definition Review comment ID, which is shared by the main comment and replies. Range String length: 40 characters.
note_id	Yes	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647

Request Parameters

Table 4-1609 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1610 Request body parameters

Parameter	Mandatory	Type	Description
body	No	String	Definition Comment content.
severity	No	String	Definition Review comment severity. Enumeration values: • suggestion • minor • major • fatal
assignee_id	No	String	Definition Review comment assignee ID.
review_categories	No	String	Definition Review comment type.
review_modules	No	String	Definition Review comment module.
proposer_id	No	String	Definition ID of a reviewer who gives review comments.

Parameter	Mandatory	Type	Description
resolved	No	Boolean	Definition Resolve or cancel a review comment. (Only this parameter needs to be transferred when needed.)

Response Parameters

Status code: 201

Table 4-1611 Response body parameters

Parameter	Type	Description
id	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647
type	String	Definition Review types Range - DiscussionNote: comment on the associated code line to be resolved - DiffNote: general
body	String	Definition Comment content.
attachment	String	Definition Attachment (deprecated).
author	UserBasicDto object	Definition Comment author.
created_at	String	Definition Creation time.
updated_at	String	Definition Update time.
system	Boolean	Definition Added by the system or not.

Parameter	Type	Description
noteable_id	Integer	Definition MR ID or issue ID. Value range: 1~2147483647
noteable_type	String	Definition: Comment type Value range: • MergeRequest: review comments submitted in a merge request • Commit: review comments submitted on a code page or commit record Enumeration values: • MergeRequest • Commit
commit_id	String	Definition Commit record ID.
resolvable	Boolean	Definition Whether need to be resolved.
is_reply	Boolean	Definition Reply or not.
resolved_by	UserBasicDto object	Definition Solver.
noteable_iid	Integer	Definition MR IID or issue IID. Value range: 1~2147483647
discussion_id	String	Definition Review comment ID, which is shared by the main comment and replies.
repository	String	Definition Repository path.
diff_file	String	Definition Name of the file that contains the associated code lines.

Parameter	Type	Description
diff	String	Definition Code snippet associated with the lines of code.
archived	Boolean	Definition Archived or not.
review_categories	String	Definition Comment type key.
review_categories_cn	String	Definition Comment type name (CN).
review_categories_en	String	Definition MR version information.
review_modules	String	Definition MR version information.
severity	String	Definition Severity key. Enumeration values: • suggestion • minor • major • fatal
severity_cn	String	Definition Severity (CN). Constraints • Suggestion • Minor • Major • Critical
severity_en	String	Definition Severity. Enumeration values: • Suggestion • Minor • Major • Fatal
file_path	String	Definition File path (deprecated).

Parameter	Type	Description
line	String	Definition Line number (deprecated).
assignee	UserBasicDto object	Definition Assignee.
proposer	UserBasicDto object	Definition Reviewer.
position	PositionDto object	Definition Associated code line location information.
resolved	Boolean	Definition Resolved or not.
is_outdated	Boolean	Definition Expired or not.
moderation_result	Boolean	Definition Content approving result.
moderation_time	Long	Definition Content approving time.
moderation_statuses	Integer	Definition Content approving status.

Table 4-1612 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1613 PositionDto

Parameter	Type	Description
base_sha	String	Definition Basic SHA value.
start_sha	String	Definition Start SHA value.
head_sha	String	Definition Latest SHA value.

Parameter	Type	Description
old_path	String	Definition Old file path.
new_path	String	Definition New file path.
position_type	String	Definition File type.
old_line	Integer	Definition Old file line No.
new_line	Integer	Definition New file line No.

Status code: 401**Table 4-1614** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1615** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/122/merge-requests/123/discussions/sasdsadsadsadasdsadasdsad/notes/123
{
  "body": "test",
  "severity": "suggestion",
```



```
"assignee_id" : 9124,  
"review_categories" : "category",  
"review_modules" : "module",  
"proposer_id" : 9124,  
"resolved" : false  
}
```

Example Responses

Status code: 201

OK

```
{  
  "id" : 1399939,  
  "type" : "DiffNote",  
  "body" : "test",  
  "author" : {  
    "id" : 1130646,  
    "name" : "example_name",  
    "username" : "7806db92698840d794a70e53e1295cb7",  
    "state" : "active",  
    "avatar_url" : null,  
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",  
    "name_cn" : "example_name",  
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",  
    "nick_name" : "example_name",  
    "tenant_name" : "example_name"  
  },  
  "created_at" : "2025-01-06T14:54:43.000+08:00",  
  "updated_at" : "2025-01-06T14:54:43.000+08:00",  
  "system" : false,  
  "noteable_id" : 1242586,  
  "noteable_type" : "MergeRequest",  
  "resolvable" : true,  
  "is_reply" : false,  
  "noteable_iid" : 1,  
  "discussion_id" : "3da6d31d0b3d426de6b183d604de50b6b972d87c",  
  "repository" : "07c8683c4bb0445393c5eab0ea354003/mr_test",  
  "diff_file" : "README.md",  
  "diff" : "@@ -20 +11 @@\\n\\n\\n No newline at end of file\\n+# mr_test\\n",  
  "archived" : false,  
  "review_categories_cn" : null,  
  "review_categories_en" : null,  
  "severity" : "suggestion",  
  "severity_cn" : "Suggestion",  
  "severity_en" : "Suggestion",  
  "assignee" : {  
    "id" : 1130646,  
    "name" : "example_name",  
    "username" : "7806db92698840d794a70e53e1295cb7",  
    "state" : "active",  
    "avatar_url" : null,  
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",  
    "name_cn" : "example_name",  
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",  
    "nick_name" : "example_name",  
    "tenant_name" : "example_name"  
  },  
  "proposer" : {  
    "id" : 1130646,  
    "name" : "example_name",  
    "username" : "7806db92698840d794a70e53e1295cb7",  
    "state" : "active",  
    "avatar_url" : null,  
    "email" : "7806db92698840d794a70e53e1295cb7@example.com",  
    "name_cn" : "example_name",  
    "web_url" : "https://example.com/7806db92698840d794a70e53e1295cb7",  
    "nick_name" : "example_name",  
    "tenant_name" : "example_name"  
  }  
}
```

```
{
  "tenant_name": "example_name",
},
"position": {
  "base_sha": "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "start_sha": "cdb34fb2431d57aaf6701b4026425acde1d8a84c",
  "head_sha": "2032553aab2bbe1855687885da9165412b3fa3a4",
  "old_path": "README.md",
  "new_path": "README.md",
  "position_type": "text",
  "new_line": 1
},
"resolved": false,
"is_outdated": false,
"moderation_result": true,
"moderation_time": 1736146483268,
"moderation_status": 0
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "DEV.00000003",
  "error_msg": "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code": "CH.004403",
  "error_msg": "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.12.10 Deleting Merge Request Review Comments

Function

Delete a merge request's review comments

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/merge-requests/{merge_request_iid}/discussions/{discussion_id}/notes/{note_id}

Table 4-1616 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
merge_request_iid	Yes	Integer	Definition MR internal ID (IID). Value range: 1~2147483647
discussion_id	Yes	String	Definition Review comment ID, which is shared by the main comment and replies. Range String length: 40 characters.
note_id	Yes	Integer	Definition Comment ID, which is not shared by the main comment and replies. Value range: 1~2147483647

Request Parameters

Table 4-1617 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 401**Table 4-1618** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1619** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/122/merge-requests/123/discussions/sasdsadsadsadasdsadasdsad/notes/123  
null
```

Example Responses

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.12.11 Obtaining the Reviewer List of Review Comments in the Repository

Function

This API is used to obtain the reviewer list of review comments in the repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/review-authors

Table 4-1620 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1621 Query Parameters

Parameter	Mandatory	Type	Description
noteable_type	Yes	String	Definition Comment type. Range - Commit: indicates commit. - MergeRequest: indicates MR. Enumeration values: Commit MergeRequest

Parameter	Mandatory	Type	Description
resolved_statuses	Yes	String	Definition Handling status. Range - resolved: indicates the resolved status. - unresolved: indicates the unresolved status. - all: indicates all handling statuses. Enumeration values: resolved unresolved all
reviewers_filter	No	String	Definition Filter comments by reviewer name or username.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1622 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1623** Response body parameters

Parameter	Type	Description
[items]	Array of UserBasicDto objects	User information

Table 4-1624 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.

Parameter	Type	Description
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Status code: 401**Table 4-1625** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
[{
  "id": 9124,
  "name": "dev_test",
  "username": "c369c68f1ff84679b5a8ed904d8bff1c",
  "state": "active",
  "avatar_url": "",
  "avatar_path": "",
  "email": "",
  "name_cn": "dev_test",
  "web_url": "",
  "nick_name": "dev",
  "tenant_name": "test_tenant",
  "error_message": ""
}]
```

Status code: 401

Unauthorized

```
{
  "error_code": "DEV.00000003",
  "error_msg": "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.12 Creating/Updating Review Comments Settings

Function

This API is used to create/update review comment settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/review-settings

Table 4-1626 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1627 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1628 Request body parameters

Parameter	Mandatory	Type	Description
categories_and_modules_enabled	No	Boolean	Definition Whether to enable review comment types and modules.

Parameter	Mandatory	Type	Description
review_modules	No	Array of strings	Definition Review comment module.
secondary_category_enabled	No	Boolean	Definition Whether to enable preset review comment types.
review_default_categories	No	Array of strings	Definition Review comment types (key list of selected types).
review_customized_categories	No	Array of strings	Definition Custom type list.
is_assignee_id_required	No	Boolean	Definition Whether to select an assignee.
is_review_categories_required	No	Boolean	Definition Whether to select a comment type.
is_review_modules_required	No	Boolean	Definition Whether to select a comment module.

Response Parameters

Status code: 200

Table 4-1629 Response body parameters

Parameter	Type	Description
categories_and_modules_enabled	Boolean	Definition Whether to enable review comment types and modules.
secondary_category_enabled	Boolean	Definition Whether to enable preset review comment types.
primary_categories	Array of categoryDto objects	Definition Review comment types (selected).
review_default_categories	Array of strings	Definition Review comment type keys (selected).

Parameter	Type	Description
review_customize_d_categories	Array of strings	Definition Custom types.
review_modules	Array of strings	Definition Review comment module.
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.
codehub_default_categories	Array of categoryDto objects	Definition Review comment types (all available options, which are returned only when with_default_review_categories: true is transferred).
hicode_default_categories	Array of categoryDto objects	Definition Preset review comment types (returned only when with_default_review_categories: true is transferred).

Table 4-1630 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules

Parameter	Type	Description
is_required	Boolean	Definition Mandatory or not.

Table 4-1631 categoryDto

Parameter	Type	Description
key	String	Definition Review comment type key.
name_zh	String	Definition Review comment type (CN).
name_en	String	Definition Review comment type.
sub_categories	Array of categoryDto objects	Definition Sub-review comment type.

Status code: 401**Table 4-1632** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/review-settings
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Category" ],
  "review_modules" : [ "Module" ],
  "is_assignee_id_required" : true,
  "is_review_categories_required" : true,
  "is_review_modules_required" : true
}
```

Example Responses

Status code: 200

OK

```
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "primary_categories" : [ {
    "key" : "realize",
    "name_zh" : "Algorithm implementation",
    "name_en" : "Algorithm"
  }, {
    "key" : "design",
    "name_zh" : "Code design",
    "name_en" : "Code design"
  } ],
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Category" ],
  "review_modules" : [ "Module" ],
  "note_required_attributes" : [ {
    "name" : "Assigneeld",
    "is_required" : true
  }, {
    "name" : "Body",
    "is_required" : true
  }, {
    "name" : "ReviewCategories",
    "is_required" : true
  }, {
    "name" : "ReviewModules",
    "is_required" : true
  }, {
    "name" : "Severity",
    "is_required" : true
  } ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.13 Obtaining Review Settings

Function

This API is used to obtain review settings.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/review-setting

Table 4-1633 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1634 Query Parameters

Parameter	Mandatory	Type	Description
with_default_review_categories	No	Boolean	Definition Additionally returns review comment types can be selected, as well as preset review comment types. Range - true: returns review comment types can be selected, as well as preset review comment types. - false: not to return review comment types can be selected, as well as preset review comment types.

Request Parameters

Table 4-1635 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1636** Response body parameters

Parameter	Type	Description
categories_and_modules_enabled	Boolean	Definition Whether to enable review comment types and modules.
secondary_category_enabled	Boolean	Definition Whether to enable preset review comment types.
primary_categories	Array of categoryDto objects	Definition Review comment types (selected).
review_default_categories	Array of strings	Definition Review comment type keys (selected).
review_customized_categories	Array of strings	Definition Custom types.
review_modules	Array of strings	Definition Review comment module.

Parameter	Type	Description
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.
codehub_default_categories	Array of categoryDto objects	Definition Review comment types (all available options, which are returned only when with_default_review_categories: true is transferred).
hicode_default_categories	Array of categoryDto objects	Definition Preset review comment types (returned only when with_default_review_categories: true is transferred).

Table 4-1637 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Table 4-1638 categoryDto

Parameter	Type	Description
key	String	Definition Review comment type key.
name_zh	String	Definition Review comment type (CN).
name_en	String	Definition Review comment type.
sub_categories	Array of categoryDto objects	Definition Sub-review comment type.

Status code: 401

Table 4-1639 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "primary_categories" : [ {
    "key" : "realize",
    "name_zh" : "Algorithm implementation",
    "name_en" : "Algorithm"
  }, {
    "key" : "design",
    "name_zh" : "Code design",
    "name_en" : "Code design"
  } ],
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Category" ],
  "review_modules" : [ "Module" ],
```

```
"note_required_attributes": [ {  
  "name": "AssigneeId",  
  "is_required": true  
}, {  
  "name": "Body",  
  "is_required": true  
}, {  
  "name": "ReviewCategories",  
  "is_required": true  
}, {  
  "name": "ReviewModules",  
  "is_required": true  
}, {  
  "name": "Severity",  
  "is_required": true  
}  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code": "DEV.00000003",  
  "error_msg": "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.14 Obtaining Default Review Comment Types

Function

This API is used to obtain the default review comment types.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/default-review-categories

Request Parameters

Table 4-1640 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1641** Response body parameters

Parameter	Type	Description
codehub_default_categories	Array of categoryDto objects	Definition Review comment types (all available options, which are returned only when with_default_review_categories: true is transferred).
hicode_default_categories	Array of categoryDto objects	Definition Preset review comment types (returned only when with_default_review_categories: true is transferred).

Table 4-1642 categoryDto

Parameter	Type	Description
key	String	Definition Review comment type key.

Parameter	Type	Description
name_zh	String	Definition Review comment type (CN).
name_en	String	Definition Review comment type.
sub_categories	Array of categoryDto objects	Definition Sub-review comment type.

Status code: 401

Table 4-1643 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{
  "codehub_default_categories": [ {
    "key": "realize",
    "name_zh": "Algorithm implementation",
    "name_en": "Realize",
    "sub_categories": null
  } ],
  "hicode_default_categories": [ {
    "key": "code_style",
    "name_zh": "Programming guideline (code level)",
    "name_en": "Code Style",
    "sub_categories": [ {
      "key": "code_format_or_name",
      "name_zh": "Typesetting and naming",
      "name_en": "Code format/Name",
      "sub_categories": null
    } ]
  } ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.15 Creating or Updating Repository Group Review Comment Settings (Excluding Mandatory Items)

Function

This API is used to create or update repository group review comment settings (excluding mandatory items).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/groups/{group_id}/review-settings

Table 4-1644 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-1645 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1646 Request body parameters

Parameter	Mandatory	Type	Description
categories_and_modules_enabled	No	Boolean	Definition Whether to enable review comment types and modules.
review_modules	No	Array of strings	Definition Review comment module.
secondary_category_enabled	No	Boolean	Definition Whether to enable preset review comment types.
review_default_categories	No	Array of strings	Definition Review comment types (key list of selected types).
review_customized_categories	No	Array of strings	Definition Custom type list.
is_assignee_id_required	No	Boolean	Definition Whether to select an assignee.
is_review_categories_required	No	Boolean	Definition Whether to select a comment type.

Parameter	Mandatory	Type	Description
is_review_modules_required	No	Boolean	Definition Whether to select a comment module.

Response Parameters

Status code: 201

Table 4-1647 Response body parameters

Parameter	Type	Description
categories_and_modules_enabled	Boolean	Definition Whether to enable review comment types and modules.
secondary_category_enabled	Boolean	Definition Whether to enable preset review comment types.
primary_categories	Array of categoryDto objects	Definition Review comment types (selected).
review_default_categories	Array of strings	Definition Review comment type keys (selected).
review_customized_categories	Array of strings	Definition Custom types.
review_modules	Array of strings	Definition Review comment module.
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.
codehub_default_categories	Array of categoryDto objects	Definition Review comment types (all available options, which are returned only when with_default_review_categories: true is transferred).

Parameter	Type	Description
hicode_default_categories	Array of categoryDto objects	Definition Preset review comment types (returned only when with_default_review_categories: true is transferred).

Table 4-1648 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Table 4-1649 categoryDto

Parameter	Type	Description
key	String	Definition Review comment type key.
name_zh	String	Definition Review comment type (CN).
name_en	String	Definition Review comment type.
sub_categories	Array of categoryDto objects	Definition Sub-review comment type.

Status code: 401

Table 4-1650 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1651 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/groups/123/review-settings
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Type" ],
  "review_modules" : [ "Module" ]
}
```

Example Responses

Status code: 201

OK

```
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "primary_categories" : [ {
    "key" : "realize",
    "name_zh" : "Algorithm implementation",
    "name_en" : "Algorithm"
  }, {
    "key" : "design",
    "name_zh" : "Code design",
    "name_en" : "Code design"
  } ],
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Type" ],
}
```

```
{  "review_modules" : [ "Module" ]}
```

Status code: 401

Unauthorized

```
{  "error_code" : "DEV.00000003",  "error_msg" : "Authentication information expired."}
```

Status code: 403

Bad Request

```
{  "error_code" : "CH.004403",  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.12.16 Obtaining Repository Group Review Comment Settings (Excluding Mandatory Items)

Function

This API is used to obtain repository group review comment settings (excluding mandatory items).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/review-settings

Table 4-1652 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-1653 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1654 Response body parameters

Parameter	Type	Description
categories_and_modules_enabled	Boolean	Definition Whether to enable review comment types and modules.

Parameter	Type	Description
secondary_category_enabled	Boolean	Definition Whether to enable preset review comment types.
primary_categories	Array of categoryDto objects	Definition Review comment types (selected).
review_default_categories	Array of strings	Definition Review comment type keys (selected).
review_customized_categories	Array of strings	Definition Custom types.
review_modules	Array of strings	Definition Review comment module.
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.
codehub_default_categories	Array of categoryDto objects	Definition Review comment types (all available options, which are returned only when with_default_review_categories: true is transferred).
hicode_default_categories	Array of categoryDto objects	Definition Preset review comment types (returned only when with_default_review_categories: true is transferred).

Table 4-1655 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Table 4-1656 categoryDto

Parameter	Type	Description
key	String	Definition Review comment type key.
name_zh	String	Definition Review comment type (CN).
name_en	String	Definition Review comment type.
sub_categories	Array of categoryDto objects	Definition Sub-review comment type.

Status code: 400

Table 4-1657 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401

Table 4-1658 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "primary_categories" : [ {
    "key" : "realize",
    "name_zh" : "Algorithm implementation",
    "name_en" : "Algorithm"
  }, {
    "key" : "design",
    "name_zh" : "Code design",
    "name_en" : "Code design"
  } ],
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Type" ],
  "review_modules" : [ "Module" ]
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
}
```



```
{
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.12.17 Creating or Updating Project Review Comment Settings (Excluding Mandatory Items)****Function**

This API is used to create or update the project review comment settings (excluding mandatory items).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/projects/{project_id}/review-settings

Table 4-1659 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-1660 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1661 Request body parameters

Parameter	Mandatory	Type	Description
categories_and_modules_enabled	No	Boolean	Definition Whether to enable review comment types and modules.
review_modules	No	Array of strings	Definition Review comment module.
secondary_category_enabled	No	Boolean	Definition Whether to enable preset review comment types.

Parameter	Mandatory	Type	Description
review_default_categories	No	Array of strings	Definition Review comment types (key list of selected types).
review_customized_categories	No	Array of strings	Definition Custom type list.
is_assignee_id_required	No	Boolean	Definition Whether to select an assignee.
is_review_categories_required	No	Boolean	Definition Whether to select a comment type.
is_review_modules_required	No	Boolean	Definition Whether to select a comment module.

Response Parameters

Status code: 201

Table 4-1662 Response body parameters

Parameter	Type	Description
categories_and_modules_enabled	Boolean	Definition Whether to enable review comment types and modules.
secondary_category_enabled	Boolean	Definition Whether to enable preset review comment types.
primary_categories	Array of categoryDto objects	Definition Review comment types (selected).
review_default_categories	Array of strings	Definition Review comment type keys (selected).
review_customized_categories	Array of strings	Definition Custom types.
review_modules	Array of strings	Definition Review comment module.

Parameter	Type	Description
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.
codehub_default_categories	Array of categoryDto objects	Definition Review comment types (all available options, which are returned only when with_default_review_categories: true is transferred).
hicode_default_categories	Array of categoryDto objects	Definition Preset review comment types (returned only when with_default_review_categories: true is transferred).

Table 4-1663 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Table 4-1664 categoryDto

Parameter	Type	Description
key	String	Definition Review comment type key.
name_zh	String	Definition Review comment type (CN).
name_en	String	Definition Review comment type.
sub_categories	Array of categoryDto objects	Definition Sub-review comment type.

Status code: 401

Table 4-1665 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1666 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/projects/123/review-settings
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Type" ],
```

```
"review_modules" : [ "Module" ]
}
```

Example Responses

Status code: 201

OK

```
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "primary_categories" : [ {
    "key" : "realize",
    "name_zh" : "Algorithm implementation",
    "name_en" : "Algorithm"
  }, {
    "key" : "design",
    "name_zh" : "Code design",
    "name_en" : "Code design"
  } ],
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Type" ],
  "review_modules" : [ "Module" ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.12.18 Obtaining Project Review Comment Settings (Excluding Mandatory Items)

Function

This API is used to obtain the project review comment settings (excluding mandatory items).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/review-settings

Table 4-1667 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-1668 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1669** Response body parameters

Parameter	Type	Description
categories_and_modules_enabled	Boolean	Definition Whether to enable review comment types and modules.
secondary_category_enabled	Boolean	Definition Whether to enable preset review comment types.
primary_categories	Array of categoryDto objects	Definition Review comment types (selected).
review_default_categories	Array of strings	Definition Review comment type keys (selected).
review_customized_categories	Array of strings	Definition Custom types.
review_modules	Array of strings	Definition Review comment module.

Parameter	Type	Description
repository_id	Integer	Definition Repository ID. Value range: 1~2147483647
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.
codehub_default_categories	Array of categoryDto objects	Definition Review comment types (all available options, which are returned only when with_default_review_categories: true is transferred).
hicode_default_categories	Array of categoryDto objects	Definition Preset review comment types (returned only when with_default_review_categories: true is transferred).

Table 4-1670 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Table 4-1671 categoryDto

Parameter	Type	Description
key	String	Definition Review comment type key.
name_zh	String	Definition Review comment type (CN).
name_en	String	Definition Review comment type.
sub_categories	Array of categoryDto objects	Definition Sub-review comment type.

Status code: 400**Table 4-1672** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1673** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "categories_and_modules_enabled" : true,
  "secondary_category_enabled" : false,
  "primary_categories" : [ {
    "key" : "realize",
    "name_zh" : "Algorithm implementation",
    "name_en" : "Algorithm"
  }, {
    "key" : "design",
    "name_zh" : "Code design",
    "name_en" : "Code design"
  } ],
  "review_default_categories" : [ "realize", "design" ],
  "review_customized_categories" : [ "Type" ],
  "review_modules" : [ "Module" ]
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.19 Creating or Updating Mandatory Items for Repository Group Review Comments

Function

This API is used to create or update the mandatory items for repository group review comments.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/groups/{group_id}/setting/note-required-attributes

Table 4-1674 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-1675 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1676 Request body parameters

Parameter	Mandatory	Type	Description
is_assignee_id_required	No	Boolean	Definition Whether to select an assignee.
is_review_categories_required	No	Boolean	Definition Whether to select a comment type.
is_review_modules_required	No	Boolean	Definition Whether to select a comment module.

Response Parameters

Status code: 201

Table 4-1677 Response body parameters

Parameter	Type	Description
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.

Table 4-1678 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules

Parameter	Type	Description
is_required	Boolean	Definition Mandatory or not.

Status code: 401**Table 4-1679** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1680** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/groups/123/setting/note-required-attributes  
  
{  
  "is_assignee_id_required" : true,  
  "is_review_categories_required" : true,  
  "is_review_modules_required" : true  
}
```

Example Responses**Status code: 201**

OK

```
{  
  "note_required_attributes" : [ {  
    "name" : "AssigneeId",  
    "is_required" : true  
  }, {  
    "name" : "Body",
```

```
"is_required" : true
}, {
  "name" : "ReviewCategories",
  "is_required" : true
}, {
  "name" : "ReviewModules",
  "is_required" : true
}, {
  "name" : "Severity",
  "is_required" : true
}]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error CodesSee [Error Codes](#).**4.1.12.20 Obtaining Mandatory Items of Repository Group Review Comments****Function**

This API is used to obtain repository group review comments mandatory items.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/groups/{group_id}/setting/note-required-attributes

Table 4-1681 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	Integer	Definition Repository group ID, which is the numeric ID next to Group ID on the repository group homepage. Value range: 1~2147483647

Request Parameters

Table 4-1682 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1683 Response body parameters

Parameter	Type	Description
[items]	Array of NoteRequiredAttributeDto objects	Request body for review comment settings

Table 4-1684 NoteRequiredAttributeDto

Parameter	Type	Description
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.

Table 4-1685 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Status code: 400

Table 4-1686 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401

Table 4-1687 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "note_required_attributes" : [ {
    "name" : "Assigneeld",
    "is_required" : true
  }, {
    "name" : "Body",
    "is_required" : true
  }, {
    "name" : "ReviewCategories",
    "is_required" : true
  }, {
    "name" : "ReviewModules",
    "is_required" : true
  }, {
    "name" : "Severity",
    "is_required" : true
  } ]
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
}
```

```
{  
  "error_msg" : "Request error."  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.12.21 Creating or Updating Mandatory Items for Project Review Comments****Function**

This API is used to create or update for project review comments.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/projects/{project_id}/setting/note-required-attributes

Table 4-1688 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-1689 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1690 Request body parameters

Parameter	Mandatory	Type	Description
is_assignee_id_required	No	Boolean	Definition Whether to select an assignee.
is_review_categories_required	No	Boolean	Definition Whether to select a comment type.
is_review_modules_required	No	Boolean	Definition Whether to select a comment module.

Response Parameters

Status code: 201

Table 4-1691 Response body parameters

Parameter	Type	Description
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.

Table 4-1692 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Status code: 401

Table 4-1693 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1694 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/projects/123/setting/note-required-attributes
{
  "is_assignee_id_required" : true,
  "is_review_categories_required" : true,
  "is_review_modules_required" : true
}
```

Example Responses

Status code: 201

OK

```
{
  "note_required_attributes" : [ {
    "name" : "AssigneeId",
    "is_required" : true
  }, {
    "name" : "Body",
    "is_required" : true
  }, {
    "name" : "ReviewCategories",
    "is_required" : true
  }, {
    "name" : "ReviewModules",
    "is_required" : true
  }, {
    "name" : "Severity",
    "is_required" : true
  } ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
}
```

```
"error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.12.22 Obtaining Mandatory Items of Project Review Comments

Function

This API is used for mandatory items required when obtaining project review comments.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/projects/{project_id}/setting/note-required-attributes

Table 4-1695 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: You can obtain the unique project identifier, 32-character UUID, by calling the API used to query the project list. Value range: 32 characters

Request Parameters

Table 4-1696 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1697 Response body parameters

Parameter	Type	Description
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.

Table 4-1698 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Status code: 400**Table 4-1699** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1700** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "note_required_attributes" : [ {
    "name" : "Assigneeld",
    "is_required" : true
  }, {
    "name" : "Body",
    "is_required" : true
  }, {
    "name" : "ReviewCategories",
    "is_required" : true
  }, {
    "name" : "ReviewModules",
    "is_required" : true
  }, {
    "name" : "Severity",
    "is_required" : true
  } ]
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12.23 Obtaining Mandatory Items for Repository Review Comments

Function

This API is used to create/update mandatory items for repository review comments.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/setting/note-required-attributes

Table 4-1701 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1702 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1703 Request body parameters

Parameter	Mandatory	Type	Description
is_assignee_id_required	No	Boolean	Definition Whether to select an assignee.
is_review_categories_required	No	Boolean	Definition Whether to select a comment type.
is_review_modules_required	No	Boolean	Definition Whether to select a comment module.

Response Parameters

Status code: 201**Table 4-1704** Response body parameters

Parameter	Type	Description
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.

Table 4-1705 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Status code: 401**Table 4-1706** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1707** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/v4/repositories/123/setting/note-required-attributes  
  
{  
  "is_assignee_id_required" : true,  
  "is_review_categories_required" : true,  
  "is_review_modules_required" : true  
}
```

Example Responses

Status code: 201

OK

```
{  
  "note_required_attributes" : [ {  
    "name" : "AssigneeId",  
    "is_required" : true  
  }, {  
    "name" : "Body",  
    "is_required" : true  
  }, {  
    "name" : "ReviewCategories",  
    "is_required" : true  
  }, {  
    "name" : "ReviewModules",  
    "is_required" : true  
  }, {  
    "name" : "Severity",  
    "is_required" : true  
  } ]  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.12.24 Obtaining Mandatory Items for Repository Review Comments

Function

This API is used to obtain mandatory items for review comments.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/setting/note-required-attributes

Table 4-1708 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1709 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1710** Response body parameters

Parameter	Type	Description
[items]	Array of NoteRequiredAttributeDto objects	Request body for review comment settings

Table 4-1711 NoteRequiredAttributeDto

Parameter	Type	Description
note_required_attributes	Array of RequiredAttributeDto objects	Definition Review comment. This is a mandatory field.

Table 4-1712 RequiredAttributeDto

Parameter	Type	Description
name	String	Definition Mandatory field name. Description: Body Severity: Severity Assignee: AssigneeId Comment type: ReviewCategories Comment module: ReviewModules Enumeration values: • Body • Severity • AssigneeId • ReviewCategories • ReviewModules
is_required	Boolean	Definition Mandatory or not.

Status code: 400**Table 4-1713** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 401**Table 4-1714** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "note_required_attributes" : [ {
    "name" : "Assigneeld",
    "is_required" : true
  }, {
    "name" : "Body",
    "is_required" : true
  }, {
    "name" : "ReviewCategories",
    "is_required" : true
  }, {
    "name" : "ReviewModules",
    "is_required" : true
  }, {
    "name" : "Severity",
    "is_required" : true
  } ]
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "CH.00405011",
  "error_msg" : "Request error."
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.13 Commit

4.1.13.1 Viewing the Commit List

Function

This API is used to view the commit list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/commit-list

Table 4-1715 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1716 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20
ref_name	No	String	Branch/Tag name
since	No	String	Start time (excluded)
until	No	String	End time (excluded)
path	No	String	The file path
message	No	String	Commit message or commit ID
author	No	String	Code author name
order_by_date	No	Boolean	Whether to sort by time in descending order
follow	No	Boolean	If the value is true, the commit records before and after file movement and renaming can be traced.

Request Parameters

Table 4-1717 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1718 Response body parameters

Parameter	Type	Description
commits	Array of CommitDto objects	Commit list
date_title	Array of DateTitleDto objects	Statistics by day

Table 4-1719 CommitDto

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user

Parameter	Type	Description
short_id	String	Short ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	author_avatar_url
committer_avatar_url	String	committer_avatar_url
relate_url	Array of RelatedCommitSimpleDto objects	only for DevCloud
nick_name	String	Title
tenant_name	String	tenant_name
user_name	String	Username

Table 4-1720 RelatedCommitSimpleDto

Parameter	Type	Description
related_id	String	Associated work item ID
related_url	String	Associated work item URL

Table 4-1721 DateTitleDto

Parameter	Type	Description
day	String	Time (day)
commits_count	Integer	Number of commits Value range: 0~100000

Status code: 401**Table 4-1722** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403**Table 4-1723** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
/api/v4/repositories/{repository_id}/repository/commit-list?  
ref_name=master&since=2025-01-01&until=2025-02-01&offset=0&limit=20
```

Example Responses**Status code: 200**

The commit list was obtained.

```
{  
  "commits": [ {  
    "id": "97b70c9e6e****ba981d19feaad61135",  
    "message": "xx",  
    "parent_ids": [ "assdf" ],  
    "authored_date": "2025-06-27T01:52:33.000Z",  
    "author_name": "****",  
    "author_email": null,  
    "committed_date": "2025-06-27T01:52:33.000Z",  
    "committer_name": "****",  
    "committer_email": null,  
    "open_gpg_verified": true,  
    "verification_status": 1,  
    "gpg_primary_key_id": "****",  
    "name": "****",  
    "gpg_nick_name": null,  
    "gpg_tenant_name": null,  
    "gpg_user_name": null,  
    "short_id": "97b70c9e",  
    "created_at": "2025-06-27T01:52:33.000Z",  
    "title": "****",  
    "author_avatar_url": null,  
    "committer_avatar_url": null,  
    "relate_url": [ {  
      "related_id": "related_id_e8a2e829628e",  
      "related_url": "related_url_cadb457b1b14"  
    } ],  
    "nick_name": null,  
    "tenant_name": null,  
  } ]  
}
```

```
"user_name" : null
}],
"date_title" : [ {
  "day" : "2025-06-27",
  "commits_count" : 2
}, {
  "day" : "2025-06-25",
  "commits_count" : 1
}, {
  "day" : "2025-06-24",
  "commits_count" : 2
}, {
  "day" : "2025-06-23",
  "commits_count" : 4
}, {
  "day" : "2025-06-21",
  "commits_count" : 2
}, {
  "day" : "2025-06-09",
  "commits_count" : 2
} ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	The commit list was obtained.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.13.2 Rolling Back a Commit

Function

This API is used to roll back a commit.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/repository/commits/{sha}/revert

Table 4-1724 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
sha	Yes	String	Definition ID of the rolled back commit. Range String length: 40 characters.

Request Parameters

Table 4-1725 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1726 Request body parameters

Parameter	Mandatory	Type	Description
branch	Yes	String	Revert target branch
with_new_merge_request	No	Boolean	Whether to revert using the MR creation mode
message	No	String	Commit message

Response Parameters

Status code: 200**Table 4-1727** Response body parameters

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name

Parameter	Type	Description
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user
short_id	String	8-character commit ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	Author profile picture URL
committer_avatar_url	String	Committer profile picture URL
state	String	Use the MR creation mode to revert the result.
cherry_pick_branch_name	String	Temporary name of the cherry-pick branch
revert_branch_name	String	Temporary name of the revert branch
iid	Integer	IID of the change request, which is returned only for the change request. Value range: 1~2147483647

Status code: 401

Table 4-1728 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

OK

```
{
  "id" : "131ef0cb7f641df3590980fa0fb54acb19a573c2",
  "message" : "revert",
  "parent_ids" : [ "ce25367f2d97093130bc7822ef48d1bb5bd18d86" ],
  "authored_date" : "2025-01-22T02:56:21.000Z",
  "author_name" : "example",
  "author_email" : "example@example.com",
  "committed_date" : "2025-01-22T02:56:21.000Z",
  "committer_name" : "example",
  "committer_email" : "example",
  "open_gpg_verified" : null,
  "verification_status" : 0,
  "gpg_primary_key_id" : null,
  "short_id" : "131ef0cb",
  "created_at" : "2025-01-22T02:56:21.000Z",
  "title" : "Create file Source/rusoft/BRD_RU/radiosw/cmake/utiles.cmake",
  "author_avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/30042607/120",
  "committer_avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/30042607/120"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.13.3 Obtaining the File Change Metadata Introduced by Commit

Function

This API is used to obtain the file change metadata introduced by a commit.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/commits/diff-metadata

Table 4-1729 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1730 Query Parameters

Parameter	Mandatory	Type	Description
sha	Yes	String	Definition Branch name, tag name, or commit ID.

Request Parameters

Table 4-1731 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1732 Response body parameters

Parameter	Type	Description
diffs	Array of DiffDto objects	Definition Difference information. Range N/A.
diff_refs	DiffRefsDto object	Definition Difference ref information. Range N/A.
added_lines	Integer	Definition Number of added lines. Value range: 0~2147483647

Parameter	Type	Description
removed_lines	Integer	Definition Number of deleted lines. Value range: 0~2147483647
change_file_count	Integer	Definition Number of modified files. Value range: 0~2147483647
change_line_count	Integer	Definition Number of changed lines. Value range: 0~2147483647
too_large	Boolean	Definition Large file or not. Range • true: large file. • false: not a large file

Table 4-1733 DiffDto

Parameter	Type	Description
old_path	String	Old file
new_path	String	New file
a_mode	String	Old file type.
b_mode	String	New file type
file_path	String	File path
new_file	Boolean	New or not
file_type	String	File type
renamed_file	Boolean	Rename or not
deleted_file	Boolean	Whether to delete a file
diff	String	Comparison result
binary	Boolean	Binary or not
too_large	Boolean	Whether the file is too large

Parameter	Type	Description
collapsed	Boolean	Collapsed or not
line_count	Array of integers	Value range: 1~2147483647
added_lines	Integer	Number of added lines Value range: 1~2147483647
removed_lines	Integer	Number of deleted lines Value range: 1~2147483647

Table 4-1734 DiffRefsDto

Parameter	Type	Description
base_sha	String	Definition Base commit hash of the target branch. Range N/A.
head_sha	String	Definition Latest commit hash of the source branch. Range N/A.
start_sha	String	Definition Commit hash at the start of an MR, which is usually the same as base_sha. Range N/A.

Status code: 401**Table 4-1735** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2111915566/repository/commits/diff-metadata?sha=master

Example Responses

Status code: 200

ok

```
{
  "diffs": [ {
    "old_path": "date2",
    "new_path": "date2",
    "a_mode": "100644",
    "b_mode": "0",
    "file_path": "test",
    "new_file": true,
    "file_type": null,
    "renamed_file": false,
    "deleted_file": false,
    "diff": null,
    "binary": null,
    "too_large": null,
    "collapsed": null,
    "line_count": null,
    "added_lines": 0,
    "removed_lines": 1
  } ],
  "diff_refs": null,
  "added_lines": 0,
  "removed_lines": 1,
  "change_file_count": 1,
  "change_line_count": 1,
  "too_large": false
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "DEV.00000003",
  "error_msg": "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.13.4 Querying Branches and Tags by Commit ID

Function

This API is used to query the branch and tag list based on the commit ID.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/commits/{sha}/refs

Table 4-1736 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
sha	Yes	String	Definition Commit ID.

Table 4-1737 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1738 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1739 Response body parameters

Parameter	Type	Description
[items]	Array of strings	Branch/tag list

Status code: 401

Table 4-1740 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/123456/repository/commits/  
979a2f761eb0f53b7350ea72fee8ba8ac3d58074/refs?type=branch
```

Example Responses

Status code: 200

ok

```
[ "123", "1234" ]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.13.5 Obtaining the Change Content of a Specified File Introduced by a Commit

Function

This API is used to obtain the change content of a specified file introduced by a commit.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/commits/file-diff

Table 4-1741 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1742 Query Parameters

Parameter	Mandatory	Type	Description
sha	Yes	String	Definition Branch name, tag name, or commit ID.
path	No	String	Definition File path. Range 1–100,000 characters.
old_path	No	String	Definition Path of the file before renaming. Range 1–100,000 characters.

Parameter	Mandatory	Type	Description
ignore_whites pace_change	No	Boolean	Definition Whether to ignore the change of blank quantity. Range - true: ignore the change of blank quantity. - false: not to ignore the change of blank quantity. Default value: false

Request Parameters

Table 4-1743 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1744 Response body parameters

Parameter	Type	Description
[items]	Array of FileDiffDto objects	File difference list

Table 4-1745 FileDiffDto

Parameter	Type	Description
old_path	String	Definition Old file name. Range 1–10,000 characters.
new_path	AnyType	Definition New file name. Range 1–10,000 characters.
a_mode	String	Definition Old file permissions.
b_mode	String	Definition New file permissions.
new_file	Boolean	Definition New file or not. Range • true: new file. • false: not a new file
renamed_file	Boolean	Definition Renamed file or not. Range • true: renamed file. • false: not a renamed file
deleted_file	Boolean	Definition Deleted file or not. Range • true: deleted file. • false: non-deleted file.
diff	String	Definition Difference information.
too_large	Boolean	Definition Large file or not. Range • true: large file. • false: not a large file

Parameter	Type	Description
added_lines	Integer	Definition Number of added lines. Value range: 0~2147483647
removed_lines	Integer	Definition Number of deleted lines. Value range: 0~2147483647

Status code: 401

Table 4-1746 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2111915566/repository/commits/file-diff?
sha=master&path=date2&old_path=date

Example Responses

Status code: 200

ok

```
{
  "old_path" : "date2",
  "new_path" : "date2",
  "a_mode" : "100644",
  "b_mode" : "0",
  "new_file" : false,
  "renamed_file" : false,
  "deleted_file" : true,
  "diff" : "@@ -1 +0,0 @@\n-11\n\\n\\n\\n No newline at end of file",
  "too_large" : false,
  "added_lines" : 0,
  "removed_lines" : 1
}
```

Status code: 401

Unauthorized


```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.13.6 Creating Commit Information

Function

This API is used to create commit information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/repository/commits

Table 4-1747 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1748 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1749 Request body parameters

Parameter	Mandatory	Type	Description
branch	Yes	String	Definition Branch name. Range N/A.
commit_message	Yes	String	Definition Commit message. Range N/A.
actions	Yes	Array of ActionDto objects	Definition Operation performed upon commit. Range N/A.
start_branch	No	String	Definition Starts a new commit from this branch. Range N/A.

Parameter	Mandatory	Type	Description
author_email	No	String	Definition Author's email address. Range N/A.
author_name	No	String	Definition Author name. Range N/A.
stats	No	Boolean	Definition Whether to include commit statistics. Range • true: includes commit statistics. • false: not include commit statistics. Default value: true
force	No	Boolean	Definition Forcible commit or not. Range • true: forcible commit. • false: not a forcible commit Default value: false

Table 4-1750 ActionDto

Parameter	Mandatory	Type	Description
action	Yes	String	Definition Specifies the operation to be performed. Range • create, means to create a file. • create_dir: means to create a directory. • update: means to update. • move: means to move. • delete: means to delete. • chmod: means to change permissions. Enumeration values: • create • create_dir • update • move • delete • chmod
file_path	Yes	String	Definition File path. Range N/A.
previous_path	No	String	Definition Previous path. Range N/A.
content	No	String	Definition File content. Range N/A.

Parameter	Mandatory	Type	Description
encoding	No	String	Definition Encoding format. Range • text. • base64. Default value: text
last_commit_id	No	Boolean	Definition Last known file commit ID. Range N/A.
execute_filemode	No	Boolean	Definition Execution file mode. Range • true: enable the execute flag on the file. • false: disable the execute flag on the file.

Response Parameters

Status code: 201

Table 4-1751 Response body parameters

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email

Parameter	Type	Description
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user
short_id	String	Short ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	author_avatar_url
committer_avatar_url	String	committer_avatar_url
relate_url	Array of RelatedCommitSimpleDto objects	only for DevCloud
nick_name	String	Title
tenant_name	String	tenant_name
user_name	String	Username
stats	CommitStatsDto object	Definition Statistics information. Range N/A.

Parameter	Type	Description
status	String	Pipeline status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout
last_pipeline	PipelineBasicDto object	Definition Latest pipeline. Range N/A.
project_id	Integer	Definition Repository ID. Range N/A.
merge_request	SimpleMergeRequestDetailDto object	Definition MR information. Range N/A.
code_changes	Array of SimpleDiffDto objects	Definition Code change content. Range N/A.

Table 4-1752 RelatedCommitSimpleDto

Parameter	Type	Description
related_id	String	Associated work item ID
related_url	String	Associated work item URL

Table 4-1753 CommitStatsDto

Parameter	Type	Description
additions	Integer	Definition Number of added lines. Range N/A.
deletions	Integer	Definition Number of deleted lines. Range N/A.
total	Integer	Definition Number of changed lines. Range N/A.

Table 4-1754 PipelineBasicDto

Parameter	Type	Description
id	Integer	Pipeline ID Value range: 1~2147483647
web_url	String	Pipeline link
sha	String	commit id
ref	String	Branch
status	String	Pipeline status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout

Table 4-1755 SimpleMergeRequestDetailDto

Parameter	Type	Description
id	Integer	Definition MR ID. Range N/A.
iid	Integer	Definition MR IID. Range N/A.
title	String	Definition Title. Range N/A.
description	String	Definition Description. Range N/A.
source_branch	String	Definition Source branch. Range N/A.
target_branch	String	Definition Target branch. Range N/A.
state	String	Definition Status. Range N/A.
created_at	String	Definition Creation time. Range N/A.

Parameter	Type	Description
review_mode	String	Definition Approval mode. Range N/A.
author	UserBasicDto object	User information
merge_request_type	String	Definition MR type. Range N/A.
moderation_result	Boolean	Definition Approving result. Range - true: successful. - false: failed
moderation_time	Long	Definition Timestamp of approving submission. Range N/A.
moderation_status	Integer	Definition Approving status code. Range N/A.
is_use_temp_branch	Boolean	Definition Use temporary branch or not. Range - true: yes. - false: no.

Table 4-1756 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1757 SimpleDiffDto

Parameter	Type	Description
added_line	Integer	Definition Number of added lines. Range N/A.
deleted_line	Integer	Definition Number of deleted lines. Range N/A.
path	String	Definition Path. Range N/A.

Status code: 401

Table 4-1758 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 201

OK

```
{
  "id" : "d9586a73454ecceb12a53800c293174d601bd4e1",
  "message" : "1234test",
  "parent_ids" : [ "ce25367f2d97093130bc7822ef48d1bb5bd18d86" ],
  "authored_date" : "2025-01-22T02:56:21.000Z",
  "author_name" : "example",
  "author_email" : "example@example.com",
  "committed_date" : "2025-01-22T02:56:21.000Z",
  "committer_name" : "example",
  "committer_email" : "example@example.com",
```

```
"open_gpg_verified" : null,
"verification_status" : 0,
"gpg_primary_key_id" : null,
"name" : null,
"gpg_nick_name" : null,
"gpg_tenant_name" : null,
"gpg_user_name" : null,
"short_id" : "131ef0cb",
"created_at" : "2025-01-22T02:56:21.000Z",
"title" : "1234test",
"author_avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/30042607/120",
"committer_avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/30042607/120",
"relate_url" : null,
"nick_name" : "test",
"tenant_name" : "test",
"user_name" : "test",
"stats" : {
  "additions" : 0,
  "deletions" : 0,
  "total" : 0
},
"status" : null,
"last_pipeline" : null,
"project_id" : 2112029050,
"merge_request" : null,
"code_changes" : null
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.13.7 Obtaining Specific Commit Information

Function

This API is used to obtain specific commit information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/commits

Table 4-1759 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1760 Query Parameters

Parameter	Mandatory	Type	Description
sha	Yes	String	Definition Branch name, tag name, or commit ID.
stats	No	Boolean	Definition Whether to include status information. Range • true: yes. • false: no. Default value: true
show_code_changes	No	Boolean	Definition Whether to include code change information. Range • true: yes. • false: no. Default value: false

Request Parameters

Table 4-1761 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1762** Response body parameters

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification

Parameter	Type	Description
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user
short_id	String	Short ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	author_avatar_url
committer_avatar_url	String	committer_avatar_url
relate_url	Array of RelatedCommitSimpleDto objects	only for DevCloud
nick_name	String	Title
tenant_name	String	tenant_name
user_name	String	Username
stats	CommitStatsDto object	Definition Statistics information. Range N/A.

Parameter	Type	Description
status	String	Pipeline status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout
last_pipeline	PipelineBasicDto object	Definition Latest pipeline. Range N/A.
project_id	Integer	Definition Repository ID. Range N/A.
merge_request	SimpleMergeRequestDetailDto object	Definition MR information. Range N/A.
code_changes	Array of SimpleDiffDto objects	Definition Code change content. Range N/A.

Table 4-1763 RelatedCommitSimpleDto

Parameter	Type	Description
related_id	String	Associated work item ID
related_url	String	Associated work item URL

Table 4-1764 CommitStatsDto

Parameter	Type	Description
additions	Integer	Definition Number of added lines. Range N/A.
deletions	Integer	Definition Number of deleted lines. Range N/A.
total	Integer	Definition Number of changed lines. Range N/A.

Table 4-1765 PipelineBasicDto

Parameter	Type	Description
id	Integer	Pipeline ID Value range: 1~2147483647
web_url	String	Pipeline link
sha	String	commit id
ref	String	Branch
status	String	Pipeline status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout

Table 4-1766 SimpleMergeRequestDetailDto

Parameter	Type	Description
id	Integer	Definition MR ID. Range N/A.
iid	Integer	Definition MR IID. Range N/A.
title	String	Definition Title. Range N/A.
description	String	Definition Description. Range N/A.
source_branch	String	Definition Source branch. Range N/A.
target_branch	String	Definition Target branch. Range N/A.
state	String	Definition Status. Range N/A.
created_at	String	Definition Creation time. Range N/A.

Parameter	Type	Description
review_mode	String	Definition Approval mode. Range N/A.
author	UserBasicDto object	User information
merge_request_type	String	Definition MR type. Range N/A.
moderation_result	Boolean	Definition Approving result. Range - true: successful. - false: failed
moderation_time	Long	Definition Timestamp of approving submission. Range N/A.
moderation_status	Integer	Definition Approving status code. Range N/A.
is_use_temp_branch	Boolean	Definition Use temporary branch or not. Range - true: yes. - false: no.

Table 4-1767 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647

Parameter	Type	Description
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1768 SimpleDiffDto

Parameter	Type	Description
added_line	Integer	Definition Number of added lines. Range N/A.
deleted_line	Integer	Definition Number of deleted lines. Range N/A.
path	String	Definition Path. Range N/A.

Status code: 401

Table 4-1769 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{
  "id" : "d9586a73454ecceb12a53800c293174d601bd4e1",
  "message" : "1234test",
  "parent_ids" : [ "ce25367f2d97093130bc7822ef48d1bb5bd18d86" ],
  "authored_date" : "2025-01-22T02:56:21.000Z",
  "author_name" : "example",
  "author_email" : "example@example.com",
  "committed_date" : "2025-01-22T02:56:21.000Z",
  "committer_name" : "example",
  "committer_email" : "example@example.com",
```

```
"open_gpg_verified" : null,
"verification_status" : 0,
"gpg_primary_key_id" : null,
"name" : null,
"gpg_nick_name" : null,
"gpg_tenant_name" : null,
"gpg_user_name" : null,
"short_id" : "131ef0cb",
"created_at" : "2025-01-22T02:56:21.000Z",
"title" : "1234test",
"author_avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/30042607/120",
"committer_avatar_url" : "https://example.com/w3lab/rest/yellowpage/face/30042607/120",
"relate_url" : null,
"nick_name" : "test",
"tenant_name" : "test",
"user_name" : "test",
"stats" : {
  "additions" : 0,
  "deletions" : 0,
  "total" : 0
},
"status" : null,
"last_pipeline" : null,
"project_id" : 2112029050,
"merge_request" : null,
"code_changes" : null
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.13.8 Obtaining Commit Differences

Function

This API is used to obtain commit differences.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/commits/diff

Table 4-1770 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1771 Query Parameters

Parameter	Mandatory	Type	Description
sha	Yes	String	Definition Branch name, tag name, or commit ID.
ignore_whites pace_change	No	Boolean	Definition Whether to ignore the change of blank quantity. Range • true: ignore the change of blank quantity. • false: not to ignore the change of blank quantity. Default value: false

Parameter	Mandatory	Type	Description
not_statistic	No	Boolean	Definition Whether to return the statistics quantity. Range • true: not to return the statistics quantity. • false: return the statistics quantity. Default value: false
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1772 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1773** Response body parameters

Parameter	Type	Description
diffs	Array of DiffNoLineDto objects	Definition Difference information. Range N/A.
diff_refs	DiffRefsDto object	Definition Difference ref information. Range N/A.
added_lines	Integer	Definition Number of added lines. Range N/A.

Parameter	Type	Description
removed_lines	Integer	Definition Number of deleted lines. Range N/A.
change_file_count	Integer	Definition Number of changed files. Range N/A.
change_line_count	Integer	Definition Number of changed lines. Range N/A.
too_large	Boolean	Definition Large file or not. Range • true: large file. • false: not a large file

Table 4-1774 DiffNoLineDto

Parameter	Type	Description
old_path	String	Old file
new_path	String	New file
a_mode	String	Old file type.
b_mode	String	New file type
file_path	String	File path
new_file	Boolean	New or not
file_type	String	File type
renamed_file	Boolean	Rename or not
deleted_file	Boolean	Whether to delete a file
diff	String	Comparison result
binary	Boolean	Binary or not
too_large	Boolean	Whether the file is too large

Parameter	Type	Description
collapsed	Boolean	Collapsed or not
added_lines	Integer	Number of added lines Value range: 1~2147483647
removed_lines	Integer	Number of deleted lines Value range: 1~2147483647

Table 4-1775 DiffRefsDto

Parameter	Type	Description
base_sha	String	Definition Base commit hash of the target branch. Range N/A.
head_sha	String	Definition Latest commit hash of the source branch. Range N/A.
start_sha	String	Definition Commit hash at the start of an MR, which is usually the same as base_sha. Range N/A.

Status code: 401**Table 4-1776** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

ok

```
{
  "added_lines" : 0,
  "removed_lines" : 0,
  "diffs" : null,
  "change_file_count" : 0,
  "change_line_count" : 0,
  "too_large" : false,
  "diff_refs" : {
    "base_sha" : "360fc59f6ed8e90b8fa52dd4d31e65d966dc763d",
    "head_sha" : "d315e5f6dc66cdc7377dc65b14a835f153b6406c",
    "start_sha" : "360fc59f6ed8e90b8fa52dd4d31e65d966dc763d"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	ok
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.14 File

4.1.14.1 Viewing the Branch File List

Function

This API is used to view the branch file list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/trees

Table 4-1777 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1778 Query Parameters

Parameter	Mandatory	Type	Description
ref	No	String	Definition Reference, which can be a branch name, label name, or commit ID. If this parameter is not transferred, the default branch is used. Range 1–2,000 characters.
path	No	String	Definition File path. Range 1–100,000 characters.
recursive	No	Boolean	Definition Whether to use recursive query. Default value: false

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1779 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1780 Response header parameters

Parameter	Type	Description
X-Total	String	View the branch file list.

Table 4-1781 Response body parameters

Parameter	Type	Description
[items]	Array of TreeObjectDto objects	File list.

Table 4-1782 TreeObjectDto

Parameter	Type	Description
id	String	Unique file identifier.
name	String	File name
type	String	Object type
path	String	File path
mode	String	Mode structure
submodule_link	String	Submodule link
submodule_branch	String	Submodule branch
md5	String	MD5 value

Status code: 401**Table 4-1783** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1784 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-1785 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112015538/repository/trees

Example Responses

Status code: 200

View the branch file list.

```
[ {
  "id" : "*****",
  "name" : "images",
  "type" : "tree",
  "path" : "images",
  "mode" : "040000",
  "submodule_link" : null,
  "submodule_branch" : null,
  "md5" : "59b514174bffe4ae402b3d63aad79fe0"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	View the branch file list.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.14.2 Viewing the File Tree

Function

This API is used to view the file tree.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/logs-tree

Table 4-1786 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1787 Query Parameters

Parameter	Mandatory	Type	Description
ref	No	String	Definition Reference, which can be a branch name, label name, or commit ID. If this parameter is not transferred, the default branch is used. Range 1~2,000 characters.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1788 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1789** Response body parameters

Parameter	Type	Description
[items]	Array of LogTreeDto objects	File tree list

Table 4-1790 LogTreeDto

Parameter	Type	Description
name	String	Definition: File name
path	String	Definition: Path
type	String	Definition: File type
commit	commit object	Definition: Latest commit message

Parameter	Type	Description
blob_id	String	Definition: File ID
submodule_url	String	Definition: Submodule URL
is_limited	Boolean	Definition: Whether a file is restricted.
submodule_link	String	Definition: Submodule link
md5	String	Definition: File MD5 value.
nick_name	String	Definition: Name of the latest commit author
tenant_name	String	Definition: Tenant name
user_name	String	Definition: Username

Table 4-1791 commit

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification

Parameter	Type	Description
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user

Status code: 401**Table 4-1792** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1793** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses**Status code: 200**

File tree information

```
[ {
  "name" : "eer",
  "path" : "eer",
  "type" : "tree",
  "commit" : {
    "id" : "188680745edb3955***a6f9b110019c145955",
    "message" : "rr",
    "parent_ids" : [ "456ac4f94816****deec9a95a2faf33f199fc" ],
    "authored_date" : "2024-10-29T03:02:10.000Z",
    "author_name" : "****",
    "author_email" : "aan@example.com",
    "committed_date" : "2024-10-29T03:02:10.000Z",
    "committer_name" : "****",
    "committer_email" : "aa@example.com",
    "open_gpg_verified" : null,
    "verification_status" : null,
    "gpg_primary_key_id" : null,
    "name" : null,
    "gpg_nick_name" : null,
    "gpg_tenant_name" : null,
    "gpg_user_name" : null
  },
  "blob_id" : "****",
  "submodule_url" : null,
  "is_limited" : false,
  "submodule_link" : null,
  "md5" : "****",
  "nick_name" : "****",
  "tenant_name" : "****",
  "user_name" : "****"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	File tree information
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.14.3 Obtaining the Content of a Single File in the Repository (Downloading a Single File)

Function

This API is used to obtain the content of a single file in the repository (downloading a single file).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/blobs/{blob_id}/raw

Table 4-1794 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
blob_id	Yes	String	Definition: Blog file ID You can obtain file information of a repository by calling the API used to query file information of a repository . Value range: N/A

Table 4-1795 Query Parameters

Parameter	Mandatory	Type	Description
file_name	No	String	Definition Name of the file to be downloaded. Constraints N/A Range N/A Default Value N/A
file_path	Yes	String	Definition File path. Range 1–10,000 characters.

Request Parameters

Table 4-1796 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

OK

Status code: 401

Table 4-1797 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1798** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112029050/repository/blobs/1123sadam2/raw?file_path=12.txt

Example Responses**Status code: 401**

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.14.4 Obtaining the List of All Files in a Specified Branch

Function

This API is used to obtain the list of all files in a specified branch.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/file-list

Table 4-1799 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1800 Query Parameters

Parameter	Mandatory	Type	Description
ref_name	No	String	Definition: Branch or tag name. Constraints: Do not start with hyphen (-), period (.) refs, heads, refs, or remotes. Do not end with . / .lock. Spaces and the following characters are not supported: [\ < ~ ^ : ? * ! () ' " Value range: 1 to 200 characters. Default value: Default branch of the repository.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1801 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1802** Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of files.

Table 4-1803 Response body parameters

Parameter	Type	Description
[items]	Array of strings	File list.

Status code: 401**Table 4-1804** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403

Table 4-1805 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112029050/repository/file-list
```

Example Responses

Status code: 200

File list.

```
[ "d", "123" ]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	File list.

Status Code	Description
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.14.5 Obtaining the File Content

Function

This API is used to obtain file content.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/file-content

Table 4-1806 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1807 Query Parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Definition File path. Range 1–10,000 characters.
sha	Yes	String	Definition Branch name, tag name, or commit ID.

Request Parameters

Table 4-1808 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1809 Response body parameters

Parameter	Type	Description
-	String	File list.

Status code: 401

Table 4-1810 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1811** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112029050/repository/file-content?sha=master&file_path=dad
```

Example Responses**Status code: 200**

File list.

```
dadad
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	File list.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.14.6 Obtaining File Tracing Information

Function

This API is used to obtain file tracing information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/blame

Table 4-1812 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1813 Query Parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Definition File path. Range 1–10,000 characters.
sha	Yes	String	Definition Branch name, tag name, or commit ID.

Request Parameters

Table 4-1814 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1815 Response body parameters

Parameter	Type	Description
[items]	Array of BlameDto objects	Source tracing information.

Table 4-1816 BlameDto

Parameter	Type	Description
commit	RepositoryCommitDto object	A commit.
avatar_url	String	Definition Profile picture link. Range N/A
lines	Array of LineContentDto objects	Line information.
nick_name	String	Definition Alias Range N/A
tenant_name	String	Definition Tenant name. Range N/A
user_name	String	Definition Username. Range N/A

Table 4-1817 RepositoryCommitDto

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email

Parameter	Type	Description
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user

Table 4-1818 LineContentDto

Parameter	Type	Description
lineNO	Integer	Definition Number of lines in the file. Value range: 1~2147483647
content	String	Definition Code line content.

Status code: 401**Table 4-1819** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1820 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112029050/repository/blame?sha=master&file_path=dad
```

Example Responses

Status code: 200

File source tracing information.

```
[ {
  "commit" : {
    "description" : "Commit message.",
    "id" : "92a2693452eea84d3c07850310a63028a82173d4",
    "message" : "Update dad",
    "parent_ids" : "[test01,test02]",
    "authored_date" : "2025-06-14T06:53:58.000Z",
    "author_name" : "adad",
    "author_email" : "aa@example.com",
    "committed_date" : "2025-06-14T06:53:58.000Z",
    "committer_name" : "adad",
    "committer_email" : "aa@example.com",
    "open_gpg_verified" : true,
    "verification_status" : 1,
    "gpg_primary_key_id" : "87E44B5F42161434",
    "name" : "eamll.com",
    "gpg_nick_name" : null,
    "gpg_tenant_name" : null,
    "gpg_user_name" : null
  },
  "avatar_url" : "",
  "lines" : [ {
    "lineNO" : 2,
    "content" : "adad"
  }, {
    "lineNO" : 3,
    "content" : "dad2"
  } ],
  "nick_name" : "aaa",
  "tenant_name" : "aaaa",
  "user_name" : "aaaaa"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	File source tracing information.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.14.7 Obtaining the Upper-level Tree Structure of the Current File

Function

This API is used to obtain the upper-level tree structure of the current file.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/upper-files-tree

Table 4-1821 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1822 Query Parameters

Parameter	Mandatory	Type	Description
file_path	No	String	Definition File path. Range 1–10,000 characters.
ref_name	No	String	Definition: Branch or tag name. Constraints: Do not start with hyphen (-), period (.) refs, heads, refs, or remotes. Do not end with . / .lock. Spaces and the following characters are not supported: [\ < ~ ^ : ? * ! () ' " Value range: 1 to 200 characters. Default value: Default branch of the repository.

Request Parameters

Table 4-1823 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1824 Response body parameters

Parameter	Type	Description
[items]	Array of TreeDto objects	Obtain the upper-level tree structure of the current file.

Table 4-1825 TreeDto

Parameter	Type	Description
id	String	Definition Commit ID. Range N/A
name	String	Definition File name. Range N/A
type	String	Definition File structure. Range • commit: sub-module. • tree: directory. • blob: file Enumeration values: • commit • tree • blob
path	String	Definition File path. Range N/A
level	Integer	Definition Current directory level. Range N/A

Parameter	Type	Description
isShownDropDown	Boolean	Definition Whether to drop down. Range - false: no. - true: yes.
folder	Boolean	Definition Whether a file is collapsed. Range - false: no. - true: collapsed.
children	Array of TreeDto objects	Sub-node.
submodule_link	String	Definition Submodule connection. Range N/A

Status code: 401**Table 4-1826** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1827** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112029050/repository/upper-files-tree
```

Example Responses

Status code: 200

File source tracing information.

```
[ {
  "id" : "39f26b16fdff0242abc4ac3022cb0f1f88c6a523",
  "name" : "123",
  "type" : "tree",
  "path" : "123",
  "level" : -1,
  "isShownDropDown" : false,
  "folder" : false,
  "children" : null,
  "submodule_link" : null
}, {
  "id" : "624c18a4353c2789ada229459ae1aa2f47f3d2dc",
  "name" : "1234",
  "type" : "tree",
  "path" : "1234",
  "level" : -1,
  "isShownDropDown" : false,
  "folder" : false,
  "children" : null,
  "submodule_link" : null
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	File source tracing information.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.14.8 Renaming a File

Function

This API is used to rename a file.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/repository/rename-file

Table 4-1828 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1829 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1830 Request body parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Definition: File path Value range: N/A
branch_name	Yes	String	Definition: Branch name Value range: N/A
commit_message	Yes	String	Definition: Commit message Value range: N/A
start_branch	No	String	Definition: Push to other branches based on the branch name Value range: N/A

Parameter	Mandatory	Type	Description
author_email	No	String	Definition: Author email Value range: N/A
author_name	No	String	Definition: Author name Value range: N/A
previous_path	Yes	String	Definition: Address before renaming Value range: N/A
infer_content	No	Boolean	Definition: Whether to migrate the content (cannot be empty if the content field is also empty) Value range: N/A
content	No	String	Definition: File content (cannot be empty if the infer_content is also empty) Value range: N/A
encoding	No	String	Definition: Encoding format Value range: • text. • Base64. Default value: text
last_commit_id	No	String	Definition: Last known file commit ID Value range: N/A

Response Parameters

Status code: 200

Table 4-1831 Response body parameters

Parameter	Type	Description
file_path	String	File path
branch	String	Branch name

Status code: 401

Table 4-1832 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1833 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 200

Renamed successfully.

```
{  
  "branch" : "master",  
}
```

```
{  
  "file_path" : "123"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.004403",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status Codes

Status Code	Description
200	Renamed successfully.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.14.9 Obtaining the Content of a Single Repository File

Function

This API is used to obtain the content of a single repository file.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/files/raw

Table 4-1834 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1835 Query Parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Definition File path. Range 1–10,000 characters.
ref	No	String	Definition Reference, which can be a branch name, label name, or commit ID. If this parameter is not transferred, the default branch is used. Range 1–2,000 characters.

Request Parameters

Table 4-1836 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

OK

Status code: 401**Table 4-1837** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1838** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112029050/repository/files/raw?file_path=12.txt&ref=master
```

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.14.10 Creating a File

Function

This API is used to create a file.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/repository/files

Table 4-1839 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1840 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1841 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Username
file_path	Yes	String	File path

Parameter	Mandatory	Type	Description
branch	Yes	String	Branch name
commit_message	Yes	String	Commit message
author_email	No	String	Author email
author_name	No	String	Author name
content	Yes	String	File content
encoding	No	String	Encoding format

Response Parameters

Status code: 201

Table 4-1842 Response body parameters

Parameter	Type	Description
file_path	String	File path
branch	String	Branch name

Status code: 401

Table 4-1843 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1844 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 404

Table 4-1845 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

POST https://{endpoint}/v4/repositories/100001/repository/files

```
{
  "branch" : "****",
  "commit_message" : "*****",
  "content" : "*****",
  "file_path" : "*****"
}
```

Example Responses

Status code: 201

OK

```
{
  "file_path" : "11123s4",
  "branch" : "master"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error CodesSee [Error Codes](#).**4.1.14.11 Obtaining the Readme File Content of the Default Branch of the Repository****Function**

This API is used to obtain the Readme file content of the default branch of the repository.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/readme-file

Table 4-1846 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1847 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1848 Response header parameters

Parameter	Type	Description
X-Total	String	Obtain the Readme file content of the default branch of the repository.

Table 4-1849 Response body parameters

Parameter	Type	Description
blob_id	String	Definition Blob file ID. Constraints N/A
content	String	Definition File content encoded using Base64. Constraints N/A.
encoding	AnyType	Definition File encoding mode. Constraints Base64. Default value: Base64.
file_name	String	File name
file_path	String	File path
file_type	String	File type
size	Long	Definition File size (in bytes). Constraints N/A.

Status code: 401**Table 4-1850** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1851 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1852** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112015538/repository/readme-file

Example Responses

Status code: 200

Obtain the Readme file content of the default branch of the repository.

```
{
  "blob_id" : "634be87120b8e9df12bb79f47e1a2c1f1a732848",
  "content" : "IyAwOTExXzE0MzhfY3JlYXRlCgo",
  "encoding" : "base64",
  "file_name" : "README.md",
  "file_path" : "README.md",
  "file_type" : "text/plain; charset=utf-8",
  "size" : 20
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
}
```

```
{  "error_msg": "Insufficient permissions. Apply for the required permissions and try again."}
```

Status code: 404

Not Found

```
{  "error_code": "CH.00402000",  "error_msg": "The repository does not exist. Check and try again."}
```

Status Codes

Status Code	Description
200	Obtain the Readme file content of the default branch of the repository.
401	Unauthorized
403	Bad Request
404	Not Found

Error CodesSee [Error Codes](#).**4.1.14.12 Viewing File Attributes and Content****Function**

This API is used to view file attributes and content.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/file

Table 4-1853 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1854 Query Parameters

Parameter	Mandatory	Type	Description
ref	No	String	Definition Reference, which can be a branch name, label name, or commit ID. If this parameter is not transferred, the default branch is used. Range 1–2,000 characters.
file_path	Yes	String	Definition File path. Range 1–10,000 characters.

Request Parameters

Table 4-1855 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1856 Response header parameters

Parameter	Type	Description
X-Total	String	View file attributes and content.

Table 4-1857 Response body parameters

Parameter	Type	Description
name	String	File name
path	String	File path
size	Long	File size Value range: 1~9007199254740992
encoding	String	File encoding format
ref	String	Branch name, tag name, or commit ID
blob_id	String	File identifier

Parameter	Type	Description
file_type	String	File type
commit	RepositoryCommitDto object	Commit
content	String	File content
is_limited	Boolean	Definition Whether a file is restricted. Range - false: the file is not restricted. - true: the file is restricted.
content_sha256	String	SHA256 value
last_commit_id	String	Latest commit ID
nick_name	String	User alias
tenant_name	String	Tenant name
user_name	String	Username

Table 4-1858 RepositoryCommitDto

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1

Parameter	Type	Description
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user

Status code: 401**Table 4-1859** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1860** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1861** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112015538/repository/file?file_path=2112016471&ref=master

Example Responses

Status code: 200

View file attributes and content.

```
{
  "name" : "README.md",
  "path" : "README.md",
  "size" : 52,
  "encoding" : "base64",
  "ref" : "main",
  "blob_id" : "*****",
  "file_type" : "text/plain; charset=utf-8",
  "commit" : {
    "id" : "*****",
    "message" : "*****",
    "parent_ids" : [ "*****" ],
    "authored_date" : "2025-01-14T02:56:17.000Z",
    "author_name" : "CodeHub_beta_dev",
    "author_email" : "liujian@example.com",
    "committed_date" : "2025-01-14T02:56:17.000Z",
    "committer_name" : "*****",
    "committer_email" : "*****",
    "open_gpg_verified" : null,
    "verification_status" : null,
    "gpg_primary_key_id" : null,
    "name" : null,
    "gpg_nick_name" : null,
    "gpg_tenant_name" : null,
    "gpg_user_name" : null
  },
  "content" : "*****",
  "is_limited" : false,
  "content_sha256" : "*****",
  "last_commit_id" : "*****",
  "nick_name" : "*****",
  "tenant_name" : "*****",
  "user_name" : "*****"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
}
```



```
{  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."}
```

Status code: 404

Not Found

```
{  "error_code" : "CH.00402000",  "error_msg" : "The repository does not exist. Check and try again."}
```

Status Codes

Status Code	Description
200	View file attributes and content.
401	Unauthorized
403	Bad Request
404	Not Found

Error CodesSee [Error Codes](#).**4.1.14.13 Deleting a File****Function**

This API is used to delete a file.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/repository/file

Table 4-1862 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1863 Query Parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Definition File path. Range 1–10,000 characters.
author_name	No	String	Definition Author name. Value range: 1~10000
branch	Yes	String	Definition Branch name. Range 1–2,000 characters. Value range: 1~2000
commit_message	Yes	String	Definition Delete description. Range 1–2,000 characters. Value range: 1~2000

Parameter	Mandatory	Type	Description
author_email	No	String	Definition Author's email address. Range 1–2,000 characters. Value range: 1~2000

Request Parameters

Table 4-1864 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

Table 4-1865 Response body parameters

Parameter	Type	Description
status	String	Definition: Status code • success: The API request is successful. • fail: The API request failed. Enumeration values: • success • fail

Status code: 401**Table 4-1866** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
DELETE https://{endpoint}/v4/repositories/2112015538/repository/file?
file_path=2112016471&branch=master&commit_message=123
```

Example Responses**Status code: 204**

OK

```
{
  "status" : "success"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.14.14 Updating a File

Function

This API is used to modify the repository IP address whitelist.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/repository/file

Table 4-1867 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1868 Query Parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Definition File path. Range 1–10,000 characters.

Request Parameters

Table 4-1869 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1870 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Username
file_path	Yes	String	File path
branch	Yes	String	Branch name
commit_message	Yes	String	Commit message
author_email	No	String	Author email
author_name	No	String	Author name
content	Yes	String	File content

Parameter	Mandatory	Type	Description
encoding	No	String	Encoding format
last_commit_id	No	String	Latest commit

Response Parameters

Status code: 200

Table 4-1871 Response body parameters

Parameter	Type	Description
file_path	String	File path
branch	String	Branch name

Status code: 401

Table 4-1872 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/repositories/12344/repository/files/123
{
  "branch": "master",
  "content": "123",
  "commit_message": "123",
  "file_path": "a/b/c"
}
```

Example Responses

Status code: 200

OK

```
{
  "branch": "master",
  "file_path": "123"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized

Error CodesSee [Error Codes](#).**4.1.15 Pipeline****4.1.15.1 Obtaining the Latest Task Associated with CodeArts Pipeline****Function**

This API is used to obtain the latest tasks associated with CodeArts Pipeline.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/pipelines/{pipeline_id}/latest-jobs

Table 4-1873 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
pipeline_id	Yes	Integer	Definition Pipeline ID. Value range: 1~2147483647

Request Parameters

Table 4-1874 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1875 Response body parameters

Parameter	Type	Description
id	Integer	Pipeline ID Value range: 1~2147483647
status	String	Pipeline status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout
stages	Array of PipelineStageJobDto objects	Pipeline phase tasks

Table 4-1876 PipelineStageJobDto

Parameter	Type	Description
id	Integer	Stage ID Value range: 1~2147483647
name	String	Stage name
sort_id	Integer	Stage sequence ID Value range: 1~2147483647

Parameter	Type	Description
status	String	Stage status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout
jobs	Array of BaseJobDto objects	Task details

Table 4-1877 BaseJobDto

Parameter	Type	Description
id	Integer	Task ID Value range: 1~2147483647
sha	String	Commit ID
ref	String	Branch
status	String	Stage status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout
name	String	Job name

Parameter	Type	Description
target_url	String	Task link
created_at	String	Creation time
updated_at	String	Update time.
started_at	String	Start time
finished_at	String	End time
third_build_id	String	ID of a task in the build system

Status code: 401**Table 4-1878** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1879** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2111976239/pipelines/6/latest-jobs
```

Example Responses

Status code: 200

OK

```
{  
  "id" : 6,
```

```
"status" : "success",
"stages" : [ {
  "id" : 8125,
  "name" : "external",
  "status" : "success",
  "sort_id" : null,
  "jobs" : [ {
    "id" : 31930,
    "sha" : "1c46c505c84853887efe2ea9ea02a1333bae2237",
    "ref" : "dev",
    "status" : "success",
    "name" : "Task 1.",
    "target_url" : "https://example.com/cicd/project/72271b5446614062a01b8be944c9f372/pipeline/detail/724cb378007d4303b91f85161f67d6b0/c9cfdc8b918e44c09ad1cdd8c6b13c78\\",
    "created_at" : "2025-05-17T11:02:25.000+08:00",
    "started_at" : "2025-05-17T11:02:25.000+08:00",
    "finished_at" : "2025-05-17T11:02:56.000+08:00",
    "updated_at" : "2025-05-17T11:02:56.000+08:00",
    "third_build_id" : "0ede266890ddd33cff76da30090b9780"
  } ]
} ]
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
404	Not Found

Error Codes

See [Error Codes](#).

4.1.15.2 Obtaining the List of Tasks Associated with CodeArts Pipeline

Function

This API is used to obtain the list of tasks associated with CodeArts pipeline.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/pipelines/{pipeline_id}/jobs

Table 4-1880 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647
pipeline_id	Yes	Integer	Definition Pipeline ID. Value range: 1~2147483647

Table 4-1881 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1882 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1883** Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of results of the current request.

Table 4-1884 Response body parameters

Parameter	Type	Description
[items]	Array of JobWithStageDto objects	Task phase information

Table 4-1885 JobWithStageDto

Parameter	Type	Description
id	Integer	Task ID Value range: 1~2147483647
sha	String	Commit ID
ref	String	Branch
status	String	Stage status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout
name	String	Job name
target_url	String	Task link
created_at	String	Creation time
updated_at	String	Update time.
started_at	String	Start time
finished_at	String	End time
third_build_id	String	ID of a task in the build system
stage_id	Integer	Stage ID Value range: 1~2147483647
stage	String	Stage name

Status code: 401

Table 4-1886 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-1887 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2111976239/pipelines/6/jobs

Example Responses

Status code: 200

OK

```
[ {
  "id" : 31930,
  "sha" : "1c46c505c84853887efe2ea9ea02a1333bae2237",
  "ref" : "dev",
  "status" : "success",
  "name" : "Task 1.",
  "target_url" : "https://example.com/cicd/project/72271b5446614062a01b8be944c9f372/pipeline/detail/724cb378007d4303b91f85161f67d6b0/c9cfdc8b918e44c09ad1cdd8c6b13c78\\",
  "created_at" : "2025-05-17T11:02:25.000+08:00",
  "started_at" : "2025-05-17T11:02:25.000+08:00",
  "finished_at" : "2025-05-17T11:02:56.000+08:00",
  "updated_at" : "2025-05-17T11:02:56.000+08:00",
  "third_build_id" : "0ede266890ddd33cff76da30090b9780",
  "stage_id" : 123,
  "stage" : "external"
} ]
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
404	Not Found

Error CodesSee [Error Codes](#).**4.1.16 Refs****4.1.16.1 Deleting Branches in Batches****Function**

This API is used to delete branches in batches.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/branches/batch-delete

Table 4-1888 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1889 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1890 Request body parameters

Parameter	Mandatory	Type	Description
branches	Yes	Array of strings	Branch list

Response Parameters

Status code: 204

Deleted successfully.

Status code: 401

Table 4-1891 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1892 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

None

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status Codes

Status Code	Description
204	Deleted successfully.
401	Unauthorized
403	Bad Request

Error Codes

See [Error Codes](#).

4.1.16.2 Obtaining the Branch List

Function

This API is used to obtain the branch list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/branches

Table 4-1893 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1894 Query Parameters

Parameter	Mandatory	Type	Description
branch_type	No	String	Definition Branch type. By default, all branches are returned. not_protect: unprotected branches are returned. Constraints N/A. Range N/A. Enumeration values: not_protect
creator	No	String	Definition Creator, which can be a user ID or IAM ID. Range 1–100,000 characters.
sort	No	String	Definition Sorting method. Constraints - name: branch name in descending order. - updated_desc: update time in descending order. - updated_asc: update time in ascending order. Default value: updated_desc Enumeration values: - name - updated_desc - updated_asc

Parameter	Mandatory	Type	Description
query_view	No	String	Definition Branch type. Constraints • my_branches: personal branch. • active: active branch. • stale: outdated branch. • all_branches: all branches. Default value: all_branches Enumeration values: • my_branches • active • stale • all_branches
view	No	String	Definition Result set attribute. Different results are returned based on the given parameters. Constraints • all: returns all branch information. • basic: returns basic branch information. • simple: returns simple branch information. Enumeration values: • simple • basic • all
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1895 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1896 Response header parameters

Parameter	Type	Description
X-Total	String	Definition Total number of branches.

Table 4-1897 Response body parameters

Parameter	Type	Description
[items]	Array of BranchSimpleDto objects	Branch list

Table 4-1898 BranchSimpleDto

Parameter	Type	Description
name	String	Branch name Value range: 1~100000
default	Boolean	Default branch or not
can_delete	Boolean	Whether user's branch is the default branch
can_read	Boolean	Default branch or not
can_download	Boolean	Default branch or not
can_push	Boolean	Default branch or not

Status code: 401**Table 4-1899** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1900** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 404**Table 4-1901** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112015538/repository/branches
```

Example Responses

Status code: 200

Branch list

```
[ {  
  "name" : "master",  
  "default" : true,  
  "can_delete" : null,  
  "can_read" : null,  
  "can_download" : null,  
  "can_push" : null  
}]
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "CH.00000001",  
  "error_msg" : "User authentication info not found."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.00401008",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Branch list
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.16.3 Creating a Branch

Function

This API is used to create a branch.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/repository/branches

Table 4-1902 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1903 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1904 Request body parameters

Parameter	Mandatory	Type	Description
branch	Yes	String	Definition Branch name. Constraints Do not start with a hyphen (-), period (.) or refs/heads/refs/remotes/. Do not enter spaces or special characters such as [\ < ~ ^ : ? * ! () ' "]. Do not end with / .lock. Range 1–200 characters. Default Value N/A.

Parameter	Mandatory	Type	Description
ref	Yes	String	Definition Name of the branch to be based on. Constraints Do not start with a hyphen (-), period (.) or refs/heads/refs/remotes/. Do not enter spaces or special characters such as [\ < ~ ^ : ? * ! () ' " . Do not end with / .lock. Range 1–200 characters. Default Value N/A.
description	No	String	Definition Branch description. Constraints None. Range 1–2,000 characters. Default Value N/A.
related_ids	No	Array of strings	Definition Associated work item list. Constraints None. Range None. Default Value N/A.

Response Parameters

Status code: 201

Table 4-1905 Response body parameters

Parameter	Type	Description
name	String	Branch name Value range: 1~100000
default	Boolean	Default branch or not
can_delete	Boolean	Whether user's branch is the default branch
can_read	Boolean	Default branch or not
can_download	Boolean	Default branch or not
can_push	Boolean	Default branch or not
commit	CommitDto object	Commit information
merged	Boolean	Whether all commits are merged into the default branch
protected	Boolean	Protected branch or not
created_at	String	Creation time
creator	UserBasicDto object	User information
description	String	Branch description
create_source	String	Branch-based
create_source_exists	Boolean	Whether the branch to be based exists
latest_pipeline	PipelineBasicDto object	Pipeline basic information
opened_mr_count	Integer	Number of MRs that are being enabled of the branch Value range: 0~2147483647
diverging_commit_counts	DivergingCommitCounts object	Number of commit differences

Table 4-1906 CommitDto

Parameter	Type	Description
id	String	id

Parameter	Type	Description
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user
short_id	String	Short ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	author_avatar_url
committer_avatar_url	String	committer_avatar_url
relate_url	Array of RelatedCommitSimpleDto objects	only for DevCloud
nick_name	String	Title
tenant_name	String	tenant_name
user_name	String	Username

Table 4-1907 RelatedCommitSimpleDto

Parameter	Type	Description
related_id	String	Associated work item ID
related_url	String	Associated work item URL

Table 4-1908 UserBasicDto

Parameter	Type	Description
id	Integer	Definition User ID. Value range: 1~2147483647
name	String	Definition Username.
username	String	Definition Username.
state	String	Definition: User status Value range: • active: available account • blocked: locked user • error: The user is not found Enumeration values: • active • blocked • error
service_license_status	Integer	Service-level permission status. 0: disabled; 1: enabled
avatar_url	String	User profile picture URL
avatar_path	String	User profile picture path
email	String	User email
name_cn	String	Username (CN)
web_url	String	User homepage
nick_name	String	User alias
tenant_name	String	Tenant name

Parameter	Type	Description
error_message	String	Definition When some query APIs detect that the user permission in the transfer parameter is insufficient or the user does not exist, the user is returned but the field is not empty for information.

Table 4-1909 PipelineBasicDto

Parameter	Type	Description
id	Integer	Pipeline ID Value range: 1~2147483647
web_url	String	Pipeline link
sha	String	commit id
ref	String	Branch
status	String	Pipeline status. pending: queuing; running: running; success: successful; failed: failed; canceled: canceled; skipped: skipped; and timedout: timed out Enumeration values: • pending • running • success • failed • canceled • skipped • timedout

Table 4-1910 DivergingCommitCounts

Parameter	Type	Description
behind	Integer	Number of commits that lag behind the default branch.
ahead	Integer	Number of commits ahead of the default branch.

Status code: 401

Table 4-1911 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/repositories/2112015538/repository/branches
{
  "branch": "mian",
  "description": "123",
  "ref": "master"
}
```

Example Responses

Status code: 201

OK

```
{
  "name": "b6",
  "default": false,
  "can_delete": null,
  "can_read": null,
  "can_download": null,
  "can_push": null,
  "commit": {
    "id": "*****",
    "message": "*****",
    "parent_ids": [ "6ac4a7f56d28c9b76d3a7210608f496c519058be" ],
    "authored_date": "2025-06-27T01:52:33.000Z",
    "author_name": "*****",
    "author_email": "*****",
    "committed_date": "2025-06-27T01:52:33.000Z",
    "committer_name": "*****",
    "committer_email": "*****",
    "open_gpg_verified": null,
    "verification_status": null,
    "gpg_primary_key_id": null,
    "name": null,
    "gpg_nick_name": null,
    "gpg_tenant_name": null,
    "gpg_user_name": null,
    "short_id": "*****",
    "created_at": "2025-06-27T01:52:33.000Z",
    "title": "Update ere",
    "author_avatar_url": null,
    "committer_avatar_url": null,
    "relate_url": null,
    "nick_name": null,
    "tenant_name": null,
    "user_name": null
  },
}
```

```
"merged" : false,
"protected" : false,
"created_at" : "2025-07-18T11:24:46.000+08:00",
"creator" : {
  "id" : "*****",
  "name" : "*****",
  "username" : "*****",
  "state" : "active",
  "service_license_status" : null,
  "avatar_url" : "",
  "avatar_path" : null,
  "email" : "*****",
  "name_cn" : "*****",
  "web_url" : "https://example.com/****",
  "nick_name" : "*****",
  "tenant_name" : "*****",
  "error_message" : null
},
"description" : "*****",
"create_source" : "master",
"create_source_exists" : true,
"latest_pipeline" : null,
"opened_mr_count" : 0,
"diverging_commit_counts" : {
  "behind" : 0,
  "ahead" : 0
}
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.16.4 Obtaining the Tag List

Function

This API is used to obtain the tag list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/tags

Table 4-1912 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1913 Query Parameters

Parameter	Mandatory	Type	Description
creator	No	String	Definition Creator, which can be a user ID or IAM ID. Range 1–100,000 characters.
sort	No	String	Definition Sorting method. Constraints - asc: ascending order. - desc: descending order. Default value: desc Enumeration values: - asc - desc

Parameter	Mandatory	Type	Description
search	No	String	Definition Search criterion, which is the label name. Range 1–2,000 characters. Value range: 1~2000
order_by	No	String	Definition Sorting method. Range • name: indicates name. • created: creation time. • updated: update time. Default value: updated Enumeration values: • name • updated • created
view	No	String	Definition Content to be displayed in the result set. Range • detail: returns all label information. • basic: returns basic label information. • simple: returns simple label information. Enumeration values: • simple • basic • detail
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1914 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1915 Response header parameters

Parameter	Type	Description
X-Total	String	Obtain the tag list.

Table 4-1916 Response body parameters

Parameter	Type	Description
[items]	Array of SimpleTagDto objects	Tag list.

Table 4-1917 SimpleTagDto

Parameter	Type	Description
name	String	Label name
message	String	Label description
target	String	Target commit_id
gpgKey	GpgKeyDto object	GPG information
can_delete	Boolean	Can be deleted or not
can_read	Boolean	Can be checked or not
can_download	Boolean	Can be downloaded or not

Table 4-1918 GpgKeyDto

Parameter	Type	Description
gpg_name	String	GPG name
open_gpg_verified	Boolean	Whether to enable GPG authentication
verification_status	Integer	GPG authentication status
gpg_primary_key_id	String	GPG initialization ID
gpg_nick_name	String	GPG alias
gpg_tenant_name	String	GPG tenant alias
gpg_user_name	String	GPG username

Status code: 401

Table 4-1919 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1920** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1921** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112015538/repository/tags
```

Example Responses

Status code: 200

Obtain the tag list.

```
{  
  "name" : "master",  
  "default" : true,  
  "target" : "*****",  
  "gpgKey" : null,  
  "can_delete" : null,  
}
```



```
"can_read" : null,  
"can_download" : null  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "CH.00000001",  
  "error_msg" : "User authentication info not found."  
}
```

Status code: 403

Bad Request

```
{  
  "error_code" : "CH.00401008",  
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."  
}
```

Status code: 404

Not Found

```
{  
  "error_code" : "CH.00402000",  
  "error_msg" : "The repository does not exist. Check and try again."  
}
```

Status Codes

Status Code	Description
200	Obtain the tag list.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.16.5 Creating a Tag

Function

This API is used to create a tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST https://{hostURL}/v4/repositories/{repository_id}/repository/tags

Table 4-1922 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1923 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1924 Request body parameters

Parameter	Mandatory	Type	Description
tag_name	Yes	String	New label name
ref	Yes	String	Created based on ref (branch or commit ID)

Parameter	Mandatory	Type	Description
message	No	String	Label description

Response Parameters

Status code: 201

Table 4-1925 Response body parameters

Parameter	Type	Description
name	String	Label name
message	String	Label description
target	String	Commit ID-based
commit	CommitDto object	Commit information

Table 4-1926 CommitDto

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key

Parameter	Type	Description
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user
short_id	String	Short ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	author_avatar_url
committer_avatar_url	String	committer_avatar_url
relate_url	Array of RelatedCommitSimpleDto objects	only for DevCloud
nick_name	String	Title
tenant_name	String	tenant_name
user_name	String	Username

Table 4-1927 RelatedCommitSimpleDto

Parameter	Type	Description
related_id	String	Associated work item ID
related_url	String	Associated work item URL

Status code: 401**Table 4-1928** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1929 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-1930 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
POST https://{endpoint}/v4/repositories/2112015538/repository/tags
{
  "message" : "",
  "ref" : "",
  "tag_name" : ""
}
```

Example Responses

Status code: 201

OK

```
{
  "name" : "11123s4",
  "message" : "",
  "target" : "a16f289be46****0c4718c93ba18f478f8",
  "commit" : {
    "id" : "",
    "message" : "",
    "parent_ids" : [ "" ],
    "authored_date" : "2025-02-21T03:33:04.000Z",
    "author_name" : "",
    "author_email" : "",
    "committed_date" : "2025-02-21T03:33:04.000Z",
    "committer_name" : "",
    "committer_email" : "",
    "short_id" : "",
    "created_at" : "2025-02-21T03:33:04.000Z",
    "title" : "",
    "author_avatar_url" : "",
    "committer_avatar_url" : ""
  }
}
```

```
{
  "nick_name" : "dev",
  "tenant_name" : "****",
  "user_name" : "****"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
201	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.16.6 Viewing Tag Details

Function

This API is used to view tag details.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/tag

Table 4-1931 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1932 Query Parameters

Parameter	Mandatory	Type	Description
tag_name	Yes	String	Definition Label name. Range 1–2,000 characters.

Request Parameters

Table 4-1933 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200**Table 4-1934** Response header parameters

Parameter	Type	Description
X-Total	String	View tag details.

Table 4-1935 Response body parameters

Parameter	Type	Description
name	String	Label name
message	String	Label description
target	String	Commit ID-based
commit	CommitDto object	Commit information

Table 4-1936 CommitDto

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name
gpg_user_name	String	Information about a specific GPG user
short_id	String	Short ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	author_avatar_url
committer_avatar_url	String	committer_avatar_url
relate_url	Array of RelatedCommitSimpleDto objects	only for DevCloud
nick_name	String	Title
tenant_name	String	tenant_name
user_name	String	Username

Table 4-1937 RelatedCommitSimpleDto

Parameter	Type	Description
related_id	String	Associated work item ID
related_url	String	Associated work item URL

Status code: 401**Table 4-1938** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1939** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1940** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
GET https://{endpoint}/v4/repositories/2112015538/repository/tag?tag_name=123
```

Example Responses

Status code: 200

View tag details.

```
{
  "name" : "11123s4",
  "message" : "",
  "target" : "a16f289be46****0c4718c93ba18f478f8",
  "commit" : {
    "id" : "*****",
    "message" : "*****",
    "parent_ids" : [ "*****" ],
    "authored_date" : "2025-02-21T03:33:04.000Z",
    "author_name" : "*****",
    "author_email" : "*****",
    "committed_date" : "2025-02-21T03:33:04.000Z",
    "committer_name" : "*****",
    "committer_email" : "*****",
    "short_id" : "*****",
    "created_at" : "2025-02-21T03:33:04.000Z",
    "title" : "*****",
    "author_avatar_url" : "",
    "committer_avatar_url" : "",
    "nick_name" : "dev",
    "tenant_name" : "*****",
    "user_name" : "*****"
  }
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	View tag details.
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.16.7 Deleting a Tag

Function

This API is used to delete a tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE https://{hostURL}/v4/repositories/{repository_id}/repository/tag

Table 4-1941 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1942 Query Parameters

Parameter	Mandatory	Type	Description
tag_name	Yes	String	Definition Label name. Range 1–2,000 characters.

Request Parameters

Table 4-1943 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

OK

Status code: 401

Table 4-1944 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403**Table 4-1945** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1946** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
DELETE https://{endpoint}/v4/repositories/2112015538/repository/tag?tag_name=123
```

Example Responses

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000002",
  "error_msg" : "Recognize authentication information failed."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401001",
  "error_msg" : "No access permission."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error Codes

See [Error Codes](#).

4.1.16.8 Obtaining Branch Details

Function

This API is used to obtain branch details.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/branch

Table 4-1947 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1948 Query Parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Definition Branch name. Range 1–2,000 characters.

Request Parameters

Table 4-1949 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1950 Response header parameters

Parameter	Type	Description
X-Total	String	Obtain branch details.

Table 4-1951 Response body parameters

Parameter	Type	Description
name	String	Branch name

Parameter	Type	Description
commit	CommitDto object	Commit information
merged	Boolean	User ID
protected	Boolean	Protected branch or not
developers_can_push	Boolean	Whether can be pushed by developers
developers_can_merge	Boolean	Whether can be merged by developers
can_push	Boolean	Pushable or not
default	Boolean	Default branch or not

Table 4-1952 CommitDto

Parameter	Type	Description
id	String	id
message	String	Message
parent_ids	Array of strings	Parent node commit ID
authored_date	String	Time when the branch was created.
author_name	String	Creator name
author_email	String	Creator's email.
committed_date	String	Code commit date and time
committer_name	String	Committer name
committer_email	String	Committer email
open_gpg_verified	Boolean	Whether to enable the GPG verification
verification_status	Integer	Verification status Value range: 0~1
gpg_primary_key_id	String	Identifier of the GPG public key
name	String	Username
gpg_nick_name	String	Alias
gpg_tenant_name	String	Tenant name

Parameter	Type	Description
gpg_user_name	String	Information about a specific GPG user
short_id	String	Short ID
created_at	String	Creation time
title	String	Title
author_avatar_url	String	author_avatar_url
committer_avatar_url	String	committer_avatar_url
relate_url	Array of RelatedCommitSimpleDto objects	only for DevCloud
nick_name	String	Title
tenant_name	String	tenant_name
user_name	String	Username

Table 4-1953 RelatedCommitSimpleDto

Parameter	Type	Description
related_id	String	Associated work item ID
related_url	String	Associated work item URL

Status code: 401**Table 4-1954** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 403

Table 4-1955 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404

Table 4-1956 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

GET https://{endpoint}/v4/repositories/2112015538/repository/branch?branch_name=master

Example Responses

Status code: 200

Obtain branch details.

```
{
  "name" : "12312312",
  "commit" : {
    "id" : "3e133ffd60e795ce52e092db03ebcc8da43ab471",
    "message" : "Create a file****",
    "parent_ids" : [ "*****" ],
    "authored_date" : "2025-02-22T03:11:03.000Z",
    "author_name" : "*****",
    "author_email" : "*****",
    "committed_date" : "2025-02-22T03:11:03.000Z",
    "committer_name" : "*****",
    "committer_email" : "*****",
    "short_id" : "*****",
    "created_at" : "2025-02-22T03:11:03.000Z",
    "title" : "Create file 123123.",
    "author_avatar_url" : "",
    "committer_avatar_url" : ""
  },
  "merged" : false,
  "protected" : true,
  "developers_can_push" : true,
  "developers_can_merge" : true,
  "can_push" : true,
  "default" : false
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "CH.00000001",
  "error_msg" : "User authentication info not found."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.00401008",
  "error_msg" : "Insufficient permissions. Apply for the required permissions and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.00402000",
  "error_msg" : "The repository does not exist. Check and try again."
}
```

Status Codes

Status Code	Description
200	Obtain branch details.
401	Unauthorized
403	Bad Request
404	Not Found

Error CodesSee [Error Codes](#).**4.1.16.9 Deleting a Branch****Function**

This API is used to delete a branch.

DebuggingYou can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.**URI**

DELETE https://{hostURL}/v4/repositories/{repository_id}/repository/branch

Table 4-1957 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1958 Query Parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Definition Branch name. Range 1–2,000 characters.

Request Parameters

Table 4-1959 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 204

Table 4-1960 Response body parameters

Parameter	Type	Description
status	String	Definition: Status code • success: The API request is successful. • fail: The API request failed. Enumeration values: • success • fail

Status code: 401

Table 4-1961 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
DELETE https://{endpoint}/v4/repositories/10000/repository/branch?branch_name=1234
```

Example Responses

Status code: 204

OK

```
{  
  "status" : "success"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "DEV.00000003",  
  "error_msg" : "Authentication information expired."  
}
```

Status Codes

Status Code	Description
204	OK
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.16.10 Renaming a Branch

Function

This API is used to rename a branch.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT https://{hostURL}/v4/repositories/{repository_id}/repository/branch

Table 4-1962 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Request Parameters

Table 4-1963 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Table 4-1964 Request body parameters

Parameter	Mandatory	Type	Description
new_branch	Yes	String	Definition New branch name. Constraints Do not start with a hyphen (-), period (.) or refs/heads/refs/remotes/. Do not enter spaces or special characters such as [\ < ~ ^ : ? * ! () ' "]. Do not end with / .lock. Range 1–200 characters. Default Value N/A.

Parameter	Mandatory	Type	Description
old_branch	Yes	String	Definition Name of the branch to be based on. Constraints Do not start with a hyphen (-), period (.) or refs/heads/refs/remotes/. Do not enter spaces or special characters such as [\ < ~ ^ : ? * ! () ' " . Do not end with / .lock. Range 1–200 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1965 Response body parameters

Parameter	Type	Description
old_branch_name	String	Definition Old branch name. Constraints Do not start with a hyphen (-), period (.) or refs/heads/refs/remotes/. Do not enter spaces or special characters such as [\ < ~ ^ : ? * ! () ' " . Do not end with / .lock. Range 1–200 characters. Default Value N/A.

Parameter	Type	Description
old_branch_commit_id	String	Definition ID of the latest commit of the old branch. Constraints N/A. Range N/A. Default Value N/A.
new_branch_name	String	Definition New branch name. Constraints Do not start with a hyphen (-), period (.) or refs/heads/refs/remotes/. Do not enter spaces or special characters such as [\ < ~ ^ : ? * ! () ' " . Do not end with / .lock. Range 1-200 characters. Default Value N/A.
new_branch_commit_id	String	Definition ID of the latest commit of the new branch. Constraints N/A. Range N/A. Default Value N/A.

Status code: 401**Table 4-1966** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.

Parameter	Type	Description
error_msg	String	Definition Error message.

Status code: 403**Table 4-1967** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Status code: 404**Table 4-1968** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code.
error_msg	String	Definition Error message.

Example Requests

```
PUT https://{endpoint}/v4/repositories/100000/repository/branch
{
  "new_branch": "123",
  "old_branch": "123test"
}
```

Example Responses

Status code: 200

OK

```
{
  "old_branch_name": "123",
  "old_branch_commit_id": "11526aa1624f5f173b85673010b4c249bb5756a5",
  "new_branch_name": "123test",
  "new_branch_commit_id": "11526aa1624f5f173b85673010b4c249bb5756a5"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "DEV.00000003",
  "error_msg" : "Authentication information expired."
}
```

Status code: 403

Bad Request

```
{
  "error_code" : "CH.004403",
  "error_msg" : "Insufficient permissions. Apply for the required permission and try again."
}
```

Status code: 404

Not Found

```
{
  "error_code" : "CH.004404",
  "error_msg" : "Group Not Found"
}
```

Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Bad Request
404	Not Found

Error CodesSee [Error Codes](#).**4.1.17 Ref****4.1.17.1 Viewing the Branch/Tag List****Function**

This API is used to view the branch/tag list.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET https://{hostURL}/v4/repositories/{repository_id}/repository/refs

Table 4-1969 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Definition You can query the project list to obtain the repository ID by calling the API used to query user's all repositories . Constraints N/A. Value range: 1~2147483647

Table 4-1970 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Definition: Branch or tag. Value range: The value can only be branch or tag. Constraints: The value can only be branch or tag. Default value: branch Enumeration values: • branch • tag
search	No	String	Definition: Search keyword.
offset	No	Integer	Definition Offset, which starts from 0. Value range: 0~2147483647 Default value: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition Number of returned records. Value range: 1~100 Default value: 20

Request Parameters

Table 4-1971 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition User token. Obtain a token by calling the IAM API for obtaining a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory. Range 1–100,000 characters. Default Value N/A.

Response Parameters

Status code: 200

Table 4-1972 Response body parameters

Parameter	Type	Description
[items]	Array of strings	Branch/tag list

Example Requests

```
GET https://{endpoint}/v4/repositories/{repository_id}/repository/refs?type=branch&ref=master&search=abc
```

Example Responses

Status code: 200

The repository branch/tag list was obtained successfully.

```
[ "a", "b", "c" ]
```

Status Codes

Status Code	Description
200	The repository branch/tag list was obtained successfully.

Error Codes

See [Error Codes](#).

4.2 SSH Key

4.2.1 Checking Whether a Private Key Can Be Used to Pull Code

Function

This API is used to check whether a private key has permission to pull code from a repository.

URI

POST /v1/users/sshkey/privatekey/verify

Request Parameters

Table 4-1973 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range 1–100,000 characters. Default value None

Table 4-1974 Request body parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None Range 32 digits and letters. Default value None
private_key	Yes	String	Explanation Key, which is uploaded by a user. Constraints None Range Max. 2,048 digits. Default value None

Response Parameters

Table 4-1975 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error. Range None
result	String	Explanation Response result. Range None
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 4-1976 Error

Parameter	Type	Description
code	String	Explanation Error code returned when the API fails to be called. Range Max. 100 characters in the error code format.
message	String	Explanation Error message returned when the API fails to be called. Range None

Example Requests

```
POST https://{endpoint}/v1/users/sshkey/privatekey/verify
{
  "private_key":"-----BEGIN RSA PRIVATE KEY-----****-----END RSA PRIVATE KEY-----",
  "repository_uuid":"9b2fab276e9240e09cd01ed0400fc439"
}
```

Example Responses

Status code: 200

OK

```
{  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3 Repository

4.3.1 Obtaining Repository Statistics

Function

This API is used to obtain repository statistics.

URI

GET /v1/repositories/{repository_uuid}/statistic-data

Table 4-1977 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None Range 32 digits and letters. Default value None

Request Parameters

Table 4-1978 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range 1–100,000 characters. Default value None

Response Parameters

Status code: 200**Table 4-1979** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error. Range None
result	RepositoryStatisticsVO object	Explanation Response result. Range None
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 4-1980 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Table 4-1981 RepositoryStatisticsVO

Parameter	Type	Description
repoName	String	Explanation Repository name.
commitCount	Integer	Explanation Number of commits.
repoSize	String	Explanation Repository capacity.
lastCommitTime	String	Explanation Last commit time.
codeLines	Integer	Explanation Lines of code.
branchCount	Integer	Explanation Number of branches.
archiveUrl	String	Explanation Code repository download address.

Example Requests

GET https://{endpoint}/v1/repositories/{repository_uuid}/statistic-data

Example Responses

Status code: 200

OK

```
{
  "result" : {
```

```
"repoName" : "repoName",
"commitCount" : "111",
"repoSize" : "0.26 MB",
"lastCommitTime" : "2020-01-01 11:11: 11",
"codeLines" : "368965",
"branchCount" : "222",
"archiveUrl" : "https://test.com/repo/v1/repo/repository/2111663431/archive"
},
"status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error codes

See Error Codes.

4.3.2 Obtaining Image Files of a Specific Branch in a Repository

Function

This API is used to obtain image files of a specific branch in a repository.

URI

GET /v1/repositories/{repository_uuid}/branch/{branch_name}/image

Table 4-1982 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None Range 32 digits and letters. Default value None

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Explanation Branch name. Constraints None Range The value is a string of 1 to 2,000 characters. Default value None

Table 4-1983 Query parameters

Parameter	Mandatory	Type	Description
path	Yes	String	Explanation Image path Constraints None Range 1-200 Default value None

Request Parameters

Table 4-1984 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range 1–100,000 characters. Default value None

Response Parameters

None

Example Requests

```
GET https://{endpoint}/v1/repositories/{repository_uuid}/branch/{branch_name}/image
```

Example Responses

None

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.3 Modifying the Status of a Repository Referenced by a Pipeline

Function

This API is used to modify the status of a repository referenced by a pipeline.

URI

PUT /v1/repositories/{repository_uuid}/pipeline

Table 4-1985 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None Range 32 digits and letters. Default value None

Request Parameters

Table 4-1986 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range 1–100,000 characters. Default value None

Response Parameters

Status code: 200

Table 4-1987 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error. Range None
result	Boolean	Explanation Response result. Range None
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 4-1988 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Example Requests

PUT https://{endpoint}/v1/repositories/{repository_uuid}/pipeline

Example Responses

Status code: 200

OK

```
{  
  "result" : true,  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.4 Checking Whether a User Has the Repository Administrator Permission

Function

This API is used to check whether a user has the repository administrator permission.

URI

GET /v1/repositories/{repository_uuid}/master

Table 4-1989 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation: Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None Range: 32 digits and letters. Default value None

Request Parameters

Table 4-1990 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range: 1–100,000 characters. Default value None

Response Parameters

Status code: 200**Table 4-1991** Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code. Range: None
result	Boolean	Explanation: Response result. Range: None
status	String	Explanation: Response status. Range: • success: The API call is successful. • failed: The API call failed.

Table 4-1992 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: None

Example Requests

```
GET https://{endpoint}/v1/repositories/{repository_uuid}/master
```

Example Responses

Status code: 200

OK

```
{
  "result" : true,
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.5 Setting a Repository to Public or Private

Function

This API is used to set a repository to public or private.

URI

PUT /v2/repositories/{repository_uuid}/template-status

Table 4-1993 Path parameter

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation: Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints: N/A Range: 32 digits and letters. Default value N/A

Request Parameters

Table 4-1994 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding Obtaining a User Token . The value of X-Subject-Token in the response header is the user token. Constraints: N/A Range: 1–100,000 characters. Default value N/A

Table 4-1995 Request body parameters

Parameter	Mandatory	Type	Description
template_type	Yes	String	Explanation: Template type. Range: • SHARE: indicates a personal example template. • PUBLIC: indicates public read-only.
code_title	No	String	Explanation: Code template name. Range: N/A
creator_name	No	String	Explanation: Creator name. Range: N/A
code_description	No	String	Explanation: Code template description. Range: N/A
languages	No	Array of strings	Explanation: Template language. Range: N/A
platform	No	Array of strings	Explanation: Template platform. Range: N/A
entertype	No	Array of strings	Explanation: Template tag. Range: N/A

Response Parameters

Status code: 200

Table 4-1996 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error. Range: N/A
result	String	Explanation: Response result. Range: N/A
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 4-1997 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: N/A

Example Requests

```
PUT https://{endpoint}/v2/repositories/{repository_uuid}/template-status
```

```
{
  "template_type": "SHARE",
  "code_title": "exampleTitle",
  "creator_name": "exampleName",
  "code_description": "exampleDescription",
  "languages": ['Java'],
  "platform": ['Console'],
  "entertype": ['AI']
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : null,
  "error" : null,
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.6 Obtaining the Content of a Specified File in a Specified Branch of a Repository

Function

This API is used to obtain the content of a specified file in a specified branch of a repository.

NOTE

This API has been deprecated. Use the API described in [Viewing File Attributes and Content](#) instead.

URI

GET /v1/repositories/{repository_uuid}/branch/{branch_name}/file

Table 4-1998 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None Range 32 digits and letters. Default value None
branch_name	Yes	String	Explanation Branch name. Constraints None Range The branch name contains 0 to 200 characters. Default value None

Table 4-1999 Query parameters

Parameter	Mandatory	Type	Description
path	Yes	String	Explanation File path. Constraints None Range 0-200 Default value None

Request Parameters

Table 4-2000 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range 1–100,000 characters. Default value None

Response Parameters

Status code: 200**Table 4-2001** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None
result	FilesResponseInfo object	Explanation Response result. Range None
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2002 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Table 4-2003 FilesResponseInfo

Parameter	Type	Description
file_name	String	Explanation File name Range None
file_path	String	Explanation File path. Range None
size	Integer	Explanation File size. Range None
encoding	String	Explanation Coding type. Range None
ref	String	Explanation Branch or tag name. Range None

Parameter	Type	Description
blob_id	String	Explanation File block ID, which can be set based on the file. Range None
file_type	String	Explanation File type. Range None
content	String	Explanation File content. Range None

Example Requests

```
GET https://{endpoint}/v1/repositories/{repository_uuid}/branch/{branch_name}/file
```

Example Responses

Status code: 200

OK

```
{
  "result" : [ {
    "file_name" : "README.md",
    "file_path" : "README.md",
    "size" : 666,
    "encoding" : "base64",
    "ref" : "master",
    "blob_id" : "75c19b5b1904a72c8a9959c98ae6884d0ace0279",
    "file_type" : "text/plain; charset=utf-8",
    "content" : "RUVFRUVFRUU="
  } ],
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.7 Creating a Repository

Function

This API is used to create a repository on a specified project with the specified name. Input parameters: repository name, template ID, whether to import project members, and home project

URI

POST /v1/repositories

Request Parameters

Table 4-2004 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding Obtaining a User Token . The value of X-Subject-Token in the response header is the user token. Constraints: N/A Range: 1–100,000 characters. Default value N/A

Table 4-2005 Request body parameters

Parameter	Mandatory	Type	Description
import_members	No	Integer	Explanation: Whether to import project members. Constraints: N/A Range: • 0: Do not import project members. • 1: Import project members. Default value 0
name	Yes	String	Explanation: Repository name. Constraints: Start with a letter, digit, or underscore (_), and use letters, digits, hyphens (-), underscores (_), and periods (.). Do not end with .git, .atom, or a period (.). Range: The value is a string of 1 to 256 characters. Default value N/A
project_uuid	Yes	String	Explanation: Project ID. For details, see Obtaining a Project ID . Constraints: N/A Range: 32 digits and letters. Default value N/A

Parameter	Mandatory	Type	Description
template_id	No	String	Explanation: Template ID. Constraints: N/A Range: N/A Default value N/A
visibility_level	No	Integer	Explanation: Repository visibility. Constraints: N/A Range: • 0: Private Default value 0
import_url	No	String	Explanation: Base64 code of the HTTPS address of the template repository. Constraints: N/A Range: The value is a string of 10 to 512 characters. Default value N/A
description	No	String	Explanation: Repository description. Constraints: N/A Range: The value is a string of 0 to 2,000 characters. Default value N/A

Parameter	Mandatory	Type	Description
gitignore_id	No	String	Explanation: .gitignore file generated based on the programming language. Constraints: N/A Range: For details about the available languages, see gitignore file template languages . Default value N/A

Parameter	Mandatory	Type	Description
license_id	No	Integer	Explanation: Open-source license ID. Constraints: N/A Range: • 1: Apache_License_v2.0 • 2: MIT_License, BSD_3Clause • 3: Eclipse_Public_License_v1.0 • 4: BSD_2Clause • 5: GNU_General_Public_License_v2.0 • 6: GNU_General_Public_License_v3.0 • 7: GNU_Affero_General_Public_License_v3.0 • 8: GNU_Lesser_General_Public_License_v2.1 • 9: GNU_Lesser_General_Public_License_v3.0 • 10: Mozilla_Public_License_v2.0 • 11: The_Unlicense Default value N/A
enable_readme	No	Integer	Explanation: Whether to generate a README file. Constraints: N/A Range: • true: Create a repository. • false: Do not create a repository. Default value N/A

Parameter	Mandatory	Type	Description
caller	No	String	Explanation: API caller, that is, repository creator. Constraints: N/A Range: N/A Default value N/A

Response Parameters

Status code: 200

Table 4-2006 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code. Range: N/A
result	Repository object	Explanation: Response result. Range: N/A
status	String	Explanation: Response status. Range: • success: The API call is successful. • failed: The API call failed.

Table 4-2007 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: N/A

Table 4-2008 Repository

Parameter	Type	Description
repository_uuid	String	Explanation: Repository UUID. Range: 32 characters.

Example Requests

```
POST https://{endpoint}/v1/repositories
{
  "project_uuid": "4838955a48e2492bbe44b31bc4c272f6",
  "name": "demotest1",
  "import_members": "0",
  "visibility_level": "20",
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "repository_uuid" : "d161fd00d9194816a455cb3c1d6a783e"
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.8 Obtaining the Repository ID Based on the Repository Name and Group Name

Function

This API is used to obtain the repository ID. The repository ID can be used to obtain the repository web URL.

URI

GET /v1/repositories/repoid

Table 4-2009 Query parameters

Parameter	Mandatory	Type	Description
group_name	Yes	String	Explanation Repository group name (the segment between the domain name and repository name in a clone address). Example: git@repo.example.com:Demo00228/testword.git. Demo00228 is the group name. Constraints None Range The value is a string of 1 to 2,000 characters. Default value None

Parameter	Mandatory	Type	Description
repository_name	Yes	String	Explanation Repository name Constraints None Range The value is a string of 1 to 2,000 characters. Default value None

Request Parameters

Table 4-2010 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range 1–100,000 characters. Default value None

Response Parameters

Status code: 200

Table 4-2011 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None

Parameter	Type	Description
result	Integer	Explanation Repository ID. Range None
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2012 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Example Requests

```
GET https://{endpoint}/v1/repositories/repoid
```

Example Responses

Status code: 200

OK

```
{  
  "result" : 468485,  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.9 Querying a Commit of a Branch by Repository or Repository Group Name

Function

This API is used to obtain the repository branch commit list based on the repository group name, repository name, and branch name.

URI

GET /v1/repositories/{group_name}/{repository_name}/commits

Table 4-2013 Path parameters

Parameter	Mandatory	Type	Description
group_name	Yes	String	Explanation Repository group name (the segment between the domain name and repository name in a clone address). Example: git@repo.example.com:Demo00228/testword.git. Demo00228 is the group name. Constraints None Range The value is a string of 1 to 2,000 characters. Default value None

Parameter	Mandatory	Type	Description
repository_name	Yes	String	Explanation Repository name Constraints None Range 1–2,000 Default value None

Table 4-2014 Query parameters

Parameter	Mandatory	Type	Description
page_index	No	Integer	Explanation Page index. Constraints None Range None Default value 1
page_size	No	Integer	Explanation Number of records on each page. Constraints None Range 1–100 Default value 20
ref_name	Yes	String	Explanation Branch or tag name, in SHA format. Constraints None Range 1–2,000 Default value None

Request Parameters

Table 4-2015 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range 1–100,000 characters. Default value None

Response Parameters

Status code: 200**Table 4-2016** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error. Range None
result	CommitList object	Explanation Response result. Range None
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2017 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Table 4-2018 CommitList

Parameter	Type	Description
commits	Array of Commit objects	Explanation Commit list. Range None
total	Integer	Explanation Total commits. Range None

Table 4-2019 Commit

Parameter	Type	Description
author_email	String	Explanation Commit author email. Range None
author_name	String	Explanation Commit author name. Range None

Parameter	Type	Description
authored_date	String	Explanation Author commit time. Range None
committed_date	String	Explanation Commit time. Range None
committer_email	String	Explanation Committer email. Range None
committer_name	String	Explanation Committer. Range None
format	Object	Explanation File change details. The format is determined by the stat_format parameter. Range None
id	String	Explanation SHA ID of a commit. Range None
message	String	Explanation Commit message. Range None
parent_ids	Array of strings	Explanation Parent commit ID. Range None

Example Requests

```
GET https://{endpoint}/v1/repositories/{group_name}/{repository_name}/commits
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "total" : 1,
    "commits" : [ {
      "id" : "a27fafa7d8da2dd55f691bef989226d22f50d8ce",
      "message" : "Initial commit",
      "parent_ids" : [ ],
      "authored_date" : null,
      "author_name" : "repo",
      "author_email" : "repo@example.com",
      "committed_date" : "2019-10-15 09:40:29",
      "committer_name" : "repo",
      "committer_email" : "repo@example.com"
    } ]
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.10 Querying the Commit List of a Branch Based on the Repository ID

Function

This API is used to query a commit of a repository branch by the repository ID.

URI

GET /v1/repositories/{repository_id}/commits

Table 4-2020 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation Repository ID. You can query the repository list by calling the Querying All Repositories of a User API. Constraints None Range 1–2,147,483,647 Default value: None

Table 4-2021 Query parameters

Parameter	Mandatory	Type	Description
author	No	String	Explanation Committer. Constraints None Range The value is a string of 0 to 2,000 characters. Default value: None
begin_date	No	String	Explanation Start date of a commit. Constraints Must be in the format of <i>yyyy-MM-dd</i> . Range None Default value: None

Parameter	Mandatory	Type	Description
end_date	No	String	Explanation End date of a commit. Constraints Must be in the format of <i>yyyy-MM-dd</i> . Range None Default value: None
message	No	String	Explanation Commit message. Constraints None Range None Default value: None
page_index	No	Integer	Explanation Page index. Constraints None Range None Default value: 1
page_size	No	Integer	Explanation Number of records on each page. Constraints None Range 1–100 Default value: 20

Parameter	Mandatory	Type	Description
path	No	String	Explanation File path. Constraints None Range None Default value: None
ref_name	Yes	String	Explanation Branch or tag name, in SHA format. Constraints None Range None Default value: None
stat_format	No	String	Explanation Commit file change details (excluding diff) Constraints None Range None Default value: None

Request Parameters

Table 4-2022 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range The value is a string of 1–100,000 characters. Default value None

Response Parameters

Status code: 200**Table 4-2023** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None
result	CommitList object	Explanation Response result. Range None
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2024 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Table 4-2025 CommitList

Parameter	Type	Description
commits	Array of Commit objects	Explanation Commit list. Range None
total	Integer	Explanation Total commits. Range None

Table 4-2026 Commit

Parameter	Type	Description
author_email	String	Explanation Author email. Range None
author_name	String	Explanation Author. Range None

Parameter	Type	Description
authored_date	String	Explanation Author commit time. Range None
committed_date	String	Explanation Commit time. Range None
committer_email	String	Explanation Committer email. Range None
committer_name	String	Explanation Committer. Range None
format	Object	Explanation File change details. The format is determined by the stat_format parameter. Range None
id	String	Explanation SHA ID of a commit. Range None
message	String	Explanation Commit message. Range None
parent_ids	Array of strings	Explanation Parent commit ID. Range None

Example Requests

GET https://{endpoint}/v1/repositories/{repository_id}/commits

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "total" : 1,
    "commits" : [ {
      "id" : "a27fafa7d8da2dd55f691bef989226d22f50d8ce",
      "message" : "Initial commit",
      "parent_ids" : [ ],
      "authored_date" : null,
      "author_name" : "repo",
      "author_email" : "repo@example.com",
      "committed_date" : "2019-10-15 09:40:29",
      "committer_name" : "repo",
      "committer_email" : "repo@example.com"
    } ]
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.11 Adding a Deploy Key

Function

This API is used to add a deployment key.

URI

POST /v2/repositories/{repository_id}/deploy-keys

Table 4-2027 Path parameter

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation: Repository ID. Constraints: N/A Range: 1-2147483647 Default value: N/A

Request Parameters

Table 4-2028 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding Obtaining a User Token . The value of X-Subject-Token in the response header is the user token. Constraints: N/A Range: 1-100,000 characters. Default value N/A

Table 4-2029 Request body parameters

Parameter	Mandatory	Type	Description
application	Yes	String	Explanation: Source of the SSH key for deployment. Constraints: N/A Range: N/A Default value N/A
can_push	Yes	Boolean	Explanation: Whether the SSH key for deployment can push code. Constraints: N/A Range: false: Code cannot be pushed. Default value N/A
key	Yes	String	Explanation: SSH key for deployment. Constraints: N/A Range: N/A Default value N/A
key_title	Yes	String	Explanation: Name of the SSH key for deployment. Constraints: N/A Range: 1–255 Default value N/A

Response Parameters

Status code: 200

Table 4-2030 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code. Range: N/A
result	Key object	Explanation: Response result. Range: N/A
status	String	Explanation: Response status. Range: • success: The API call is successful. • failed: The API call failed.

Table 4-2031 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: N/A

Table 4-2032 Key

Parameter	Type	Description
can_push	Boolean	Explanation: Whether to allow push. Range: • true: Push is allowed. • false: Push is not allowed.
created_at	String	Explanation: Creation time of the deploy key. Range: None
key	String	Explanation: Deploy key. Range: None
key_id	String	Explanation: Deploy key ID. Range: 1-40
key_title	String	Explanation: Deploy key name. Range: None

Example Requests

```
POST https://{endpoint}/v2/repositories/{repository_id}/deploy-keys
{
  "key_title": "repo@example.com",
  "key": "ssh-rsa
AAAAB3NzaC1yc2EAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAU7xcma6HU8nj1E0i46VObWyOONI3gh142
BV repo@example.com",
  "can_push": true,
  "application": ""
}
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "key_id": "1034546",
```

```
"key_title" : "repo@example.com",
"key" : "ssh-rsa
AAAAB3NzaC1yc2EAAA*****U7xcma6HU8nj1E0i46VObWyOONl3gh142
BV repo@example.com"
},
"status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.12 Deleting a Deploy Key

Function

This API is used to delete a deploy key.

URI

DELETE /v2/repositories/{repository_id}/deploy-keys/{key_id}

Table 4-2033 Path parameters

Parameter	Mandatory	Type	Description
key_id	Yes	Integer	Explanation: Deploy key ID, which can be obtained by calling the Adding a Deployment Key API. Constraints: N/A Range: 1–2147483647 Default value: N/A

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation: Repository ID. Constraints: N/A Range: 1–2147483647 Default value: N/A

Request Parameters

Table 4-2034 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding Obtaining a User Token . The value of X-Subject-Token in the response header is the user token. Constraints: N/A Range: The value is a string of 1–100,000 characters. Default value N/A

Response Parameters

Status code: 200

Table 4-2035 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code. Range: N/A
result	Boolean	Explanation: Response result. Range: N/A
status	String	Explanation: Response status. Range: ● success: The API call is successful. ● failed: The API call failed.

Table 4-2036 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: N/A

Example Requests

DELETE https://{endpoint}/v2/repositories/{repository_id}/deploy-keys/{key_id}

Example Responses

Status code: 200

OK

```
{
  "result" : "false",
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.13 Obtaining the Last Commit Statistics of a Repository

Function

This API is used to obtain the last commit statistics of a repository.

URI

GET /v1/repositories/{repository_id}/statistics

Table 4-2037 Path parameter

Parameter	Mandatory	Type	Description
repository_id	Yes	String	Explanation: Repository ID. Constraints: N/A Range: 1-2147483647 Default value: N/A

Table 4-2038 Query parameter

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Explanation: Branch name. Constraints: N/A Range: 1–2,000 Default value: N/A

Request Parameters

Table 4-2039 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding Obtaining a User Token . The value of X-Subject-Token in the response header is the user token. Constraints: N/A Range: 1–100,000 characters. Default value N/A

Response Parameters

Status code: 200

Table 4-2040 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code. Range: N/A
result	RepoCommitStatistics object	Explanation: Response result. Range: N/A
status	String	Explanation: Response status. Range: • success: The API call is successful. • failed: The API call failed.

Table 4-2041 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: N/A

Table 4-2042 RepoCommitStatistics

Parameter	Type	Description
all_branch_commits_count	Integer	Explanation: Total commits. Range: N/A

Parameter	Type	Description
codelines	Array of RepoDailyCodeline objects	Explanation: Daily committed lines in last 15 days. Range: N/A
count	Integer	Explanation: Total commits in the corresponding repository. Range: N/A
event	RepoStatisticsEvent object	Explanation: Repository statistics status. Range: N/A
statistics	Array of RepoStatistics objects	Explanation: Repository statistics list. Range: N/A
total	Integer	Explanation: Total collects. Range: N/A

Table 4-2043 RepoDailyCodeline

Parameter	Type	Description
additions	Integer	Explanation: Daily increased code lines. Range: N/A
date	String	Explanation: Date. Range: N/A
deletions	Integer	Explanation: Daily deleted code lines. Range: N/A

Table 4-2044 RepoStatisticsEvent

Parameter	Type	Description
branch	String	Explanation: Branch name. Range: N/A
created_at	String	Explanation: Repository statistics creation time. Range: N/A
date	String	Explanation: Repository statistics date. Range: N/A
id	Integer	Explanation: Repository statistical event ID. Range: N/A
project_id	Integer	Explanation: Repository ID Range: N/A
status	String	Explanation: Repository statistics status. Range: • waiting: The statistics is waiting to be collected. • active: The statistics are being collected. • finish: The statistics collection is complete.
updated_at	String	Explanation: Repository statistics update time. Range: N/A
user_id	Integer	Explanation: User ID. Range: N/A

Table 4-2045 RepoStatistics

Parameter	Type	Description
add_lines	Integer	Explanation: Add code lines.
branch	String	Explanation: Branch name. Range: N/A
commit_count	Integer	Explanation: Number of commits. Range: N/A
created_at	String	Explanation: Repository statistics creation time. Range: N/A
delete_lines	Integer	Explanation: Deleted code lines. Range: N/A
id	Integer	Explanation: Repository statistics record ID. Range: N/A
project_id	Integer	Explanation: Repository ID. Range: N/A
updated_at	String	Explanation: Repository statistics update time. Range: N/A
user_name	String	Explanation: Username. Range: N/A

Example Requests

None.

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "event" : null,
    "total" : 0,
    "statistics" : [ ],
    "all_branch_commits_count" : 1,
    "count" : 1,
    "codelines" : {
      "additions" : 0,
      "deletions" : 0,
      "date" : "20191015"
    }
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.14 Repository Statistics

Function

This API is used to query code commit record statistics of a repository by the repository short ID.

URI

POST /v1/repositories/{repository_id}/statistics

Table 4-2046 Path parameter

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation: Repository ID. Constraints: N/A Range: 1-2147483647 Default value: N/A

Request Parameters

Table 4-2047 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding Obtaining a User Token . The value of X-Subject-Token in the response header is the user token. Constraints: N/A Range: 1-100,000 characters. Default value N/A

Table 4-2048 Request body parameter

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Explanation: Branch name. Constraints: N/A Range: 1–2,000 Default value: N/A

Response Parameters

Status code: 200

Table 4-2049 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code. Range: N/A
result	RepoStatisticLaunch object	Explanation: Response result. Range: N/A
status	String	Explanation: Response status. Range: • success: The API call is successful. • failed: The API call failed.

Table 4-2050 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: N/A

Table 4-2051 RepoStatisticsLaunch

Parameter	Type	Description
can_statistics	Boolean	Explanation: Whether the repository statistics can be collected. Range: • true: The repository statistics can be collected. • false: The repository statistics cannot be collected.
join_id	String	Explanation: Task ID for starting repository statistics collection. Range: N/A
message	String	Explanation: Information returned after repository statistics collection is started. Range: N/A

Example Requests

```
POST https://{endpoint}/v1/repositories/{repository_id}/statistics
{
  "branch_name" : "master"
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "can_statistics" : false,
    "message" : "operation success",
    "join_id" : "2a48a9fd140dd4efabcc6e07"
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.15 Deleting a Repository

Function

This API is used to delete a specified repository based on the repository UUID.

URI

DELETE /v1/repositories/{repository_uuid}

Table 4-2052 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation: Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None Range: 32 digits and letters. Default value None

Request Parameters

Table 4-2053 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None Range: 1–100,000 characters. Default value None

Response Parameters

Status code: 200

Table 4-2054 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code. Range: None
result	Boolean	Explanation: Whether the deletion is successful. Range: None
status	String	Explanation: Response status of the API. Range: ● success: The API call is successful. ● failed: The API call failed.

Table 4-2055 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: None

Example Requests

```
DELETE https://{endpoint}/v1/repositories/{repository_uuid}
```

Example Responses

Status code: 200

OK

```
{
  "result" : "false",
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.16 Viewing a Repository Creation Status

Function

This API is used to obtain a specified repository status.

URI

GET /v1/repositories/{repository_uuid}/status

Table 4-2056 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None. Range 32 digits and letters. Default value None.

Request Parameters

Table 4-2057 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 4-2058** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None.
result	Integer	Explanation Repository creation status. Range None.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2059 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Example Requests

```
GET https://{endpoint}/v1/repositories/{repository_uuid}/status
```

Example Responses

Status code: 200

OK

```
{  
  "result" : 0,  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.3.17 Obtaining the Number of Committed Code Lines

Function

Obtain the number of committed code lines of a specified branch in the code repository on a specified date.

URI

```
GET /v3/repositories/{repository_id}/commit-lines
```

Table 4-2060 Path parameter

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation: Repository ID. Constraints: N/A Range: 1–2147483647 Default value: N/A

Table 4-2061 Query parameters

Parameter	Mandatory	Type	Description
ref_name	Yes	String	Explanation: Branch or tag name. Constraints: N/A Range: 1–2,000 Default value N/A
begin_date	Yes	String	Explanation: Start date of a commit. Constraints: Must be in the format of <i>yyyy-MM-dd</i> . Range: N/A Default value N/A

Parameter	Mandatory	Type	Description
end_date	Yes	String	Explanation: End date of a commit. Constraints: Must be in the format of <i>yyyy-MM-dd</i> . Range: The interval between begin_date and end_date cannot exceed 60 days. Default value N/A

Request Parameters

Table 4-2062 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding Obtaining a User Token . The value of X-Subject-Token in the response header is the user token. Constraints: N/A Range: 1–100,000 characters. Default value N/A

Response Parameters

Status code: 200

Table 4-2063 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code. Range: N/A
result	CommitStatistic object	Explanation: Number of added and deleted code lines. Range: N/A
status	String	Explanation: Response status. Range: • success: The API call is successful. • failed: The API call failed.

Table 4-2064 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range: Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range: N/A

Table 4-2065 CommitStatistic

Parameter	Type	Description
additions	Integer	Explanation: Number of added lines. Range: N/A

Parameter	Type	Description
deletions	Integer	Explanation: Number of deleted lines. Value range N/A

Example Requests

```
GET https://{endpoint}/v2/repositories/907199/commit-lines
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "additions" : 9,
    "deletions" : 6
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.4 Project (V2)

4.4.1 Creating a Project and Repository

Function

After a project is created, the parameters for creating a repository group are generated in the background, including the repository name, template ID, whether to import project members, and home project.

URI

POST /v2/projects/repositories

Request Parameters

Table 4-2066 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range String length: 1–100,000 characters. Default value None.

Table 4-2067 Request body parameters

Parameter	Mandatory	Type	Description
import_members	No	Integer	Explanation: Whether to import project members. Constraints: None. Range • 0: No • 1: Yes Default value 0

Parameter	Mandatory	Type	Description
project_name	Yes	String	Explanation: Project name. Constraints: None. Range Start with a letter and use only letters, digits, hyphens (-), and underscores (_). Default value None.
repo_name	Yes	String	Explanation: Repository name. Constraints: None. Range - Start with a letter, digit, or underscore (_), and use letters, digits, hyphens (-), underscores (_), and periods (.). Do not end with .git, .atom, or a period (.). 1-256 characters. Default value 0
type	No	String	Explanation: Project type, such as scrum . Constraints: None. Range Default value 0

Parameter	Mandatory	Type	Description
visibility_level	No	Integer	Explanation: Repository visibility. Constraints: None. Range • Private: Only repository members can read, write, and access the repository. Value: 0. • Public: 1. For project members: Project members can view and search for the repository in the repository list of the project and repository group. Value: 10. 2. For tenant members: Tenant members can view and search for the repository in the repository list of the project and repository group. Value: 10. 3. For all visitors: All visitors can view and search for the repository in the repository list of the project and repository group. Value: 20. Default value 0
external_project_info	No	ExternalKey Message object	Explanation: Third-party service information. Constraints: None.

Table 4-2068 ExternalKeyMessage

Parameter	Mandatory	Type	Description
external_key_message	No	String	Explanation: Key information stored by third parties in CodeArts Repo. Constraints: None. Range Character string. Default value None.
external_service	No	String	Explanation: External service name. Constraints: None. Range Character string. Default value None.

Response Parameters

Status code: 200

Table 4-2069 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error.
result	ProjectRepository object	Explanation: Response result.
status	String	Explanation: Response status. Range • success: The API call is successful. • fail: The API call failed.

Table 4-2070 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range See Error Codes.
message	String	Explanation: Error message. Range Character string.

Table 4-2071 ProjectRepository

Parameter	Type	Description
projectUuid	String	Explanation: Project ID. For details, see Obtaining a Project ID . Range 32 characters.
repositoryUuid	String	Explanation: Repository UUID. Range 32 characters.

Example Requests

```
POST https://{endpoint}/v2/projects/repositories
{
  "project_name": "testworld",
  "repo_name": "demotest1",
  "import_members": "0",
  "visibility_level": "20",
  "type": "normal"
}
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "repositoryUuid": "02637c34ba954ab5bd37ff9537fe05b4",
    "projectUuid": "1aeda7a6070d4119b7d8b45e5641599b"
  }
}
```

```
}  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.4.2 Creating a Project and Forked Repository

Function

This API is used to create a project and create a forked repository based on the source repository.

URI

POST /v2/projects/repositories/fork

Request Parameters

Table 4-2072 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range 1–100,000 characters. Default value None.

Table 4-2073 Request body parameters

Parameter	Mandatory	Type	Description
import_members	No	Integer	Explanation Whether to import project members. Constraints None. Range • 0: No • 1: Yes Default value None.
project_name	Yes	String	Explanation Project name. Constraints Start with a letter and use only letters, digits, hyphens (-), and underscores (_). Range None. Default Value None.
repo_name	Yes	String	Explanation Repository name. Constraints Start with a letter and use only letters, digits, hyphens (-), and underscores (_). Range None. Default value: 2-128

Parameter	Mandatory	Type	Description
template_id	Yes	String	Explanation Source repository ID. You can query the repository list by calling the Querying All Repositories of a User API. Constraints None. Range None. Default value: None.
type	No	String	Explanation Project type. Constraints None. Range scrum : Scrum project. Default value: scrum

Parameter	Mandatory	Type	Description
visibility_level	No	Integer	Explanation: Repository visibility. Constraints: None. Range • Private: Only repository members can read, write, and access the repository. Value: 0. • Public: 1. For project members: Project members can view and search for the repository in the repository list of the project and repository group. Value: 10. 2. For tenant members: Tenant members can view and search for the repository in the repository list of the project and repository group. Value: 10. 3. For all visitors: All visitors can view and search for the repository in the repository list of the project and repository group. Value: 20. Default value 0
external_project_info	No	ExternalKey Message object	Explanation: Third-party service information. Constraints None. Range None. Default value: None.

Table 4-2074 ExternalKeyMessage

Parameter	Mandatory	Type	Description
external_key_message	No	String	Explanation: Key information stored by third parties in CodeArts Repo. Constraints None. Range None. Default value: None.
external_service	No	String	Explanation: External service name. Constraints None. Range None. Default value: None.

Response Parameters

Status code: 200

Table 4-2075 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error. Range None.
result	ProjectRepository object	Explanation: Response result. Range None.

Parameter	Type	Description
status	String	Explanation: Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2076 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range None.

Table 4-2077 ProjectRepository

Parameter	Type	Description
projectUuid	String	Explanation: Project ID. For details, see Obtaining a Project ID . Range 32 digits and letters.
repositoryUuid	String	Explanation: Repository UUID. Range 32 digits and letters.

Example Requests

```
POST https://{endpoint}/v2/projects/{project_uuid}/repositories/fork
{
  "project_name": "testworld",
  "repo_name": "demotest1",
  "template_id": 453489,
  "import_members": 0,
```

```
"visibility_level" : 20,  
"type" : "normal"  
}
```

Example Responses

Status code: 200

OK

```
{  
  "result" : {  
    "repositoryUuid" : "9a780fd55cd64333b668ba26132629d2",  
    "projectUuid" : "278a03286efe45c6b788122bfc166976"  
  },  
  "status" : "success"  
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See Error Codes.

4.4.3 Querying All Repositories in a Project

Function

This API is used to obtain the list of repositories that you have permissions on in a project.

If you do not specify a project ID, you can perform fuzzy search by repository name or project name.

If you specify a project ID, only fuzzy search by repository name is supported.

URI

GET /v2/projects/{project_uuid}/repositories

Table 4-2078 Path parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Explanation: Project ID. For details, see Obtaining a Project ID . Constraints: None. Range 32 characters. Default value None.

Table 4-2079 Query parameters

Parameter	Mandatory	Type	Description
page_index	No	Integer	Explanation: Page index, starting from 1. Constraints: None. Range 1–2147483647 Default value 1
page_size	No	Integer	Explanation: Number of queried repositories displayed on each page. Constraints: None. Range 1–100 Default value 20

Parameter	Mandatory	Type	Description
search	No	String	Explanation: You can search for repositories by repository creator name or repository name. Constraints: None. Range Character string. Default value None.

Request Parameters

Table 4-2080 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range String length: 1–100,000 characters. Default value None.

Response Parameters

Status code: 200

Table 4-2081 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error code.

Parameter	Type	Description
result	RepoListInfo V2 object	Explanation: Response result.
status	String	Explanation: Response status. Range • success: The API call is successful. • fail: The API call failed.

Table 4-2082 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Table 4-2083 RepoListInfoV2

Parameter	Type	Description
repositories	Array of RepoInfoV2 objects	Explanation: Repository list.
total	Integer	Explanation: Total number of repositories. Range 1-2147483647

Table 4-2084 RepoInfoV2

Parameter	Type	Description
created_at	String	Explanation: Creation time. Range None
creator_name	String	Explanation: Name of the creator. If you are a tenant, the username is the tenant name. Range Character string.
domain_name	String	Explanation: Tenant name of the creator. Range Character string.
group_name	String	Explanation: Repository group name (the segment between the domain name and repository name in a clone address). Example: Demo00228 in git@repo.example.com:Demo00228/testword.git Range Character string.
https_url	String	Explanation: URL for cloning a repository using HTTPS. Range Character string.
iam_user_uid	String	Explanation: IAM user UUID. Range Character string.
is_owner	Integer	Explanation: Whether the current user is the repository creator. Range ● 1: Yes ● 0: No

Parameter	Type	Description
lfs_size	String	Explanation: Repository LFS capacity in MB. If the capacity is greater than 1,024 MB, the unit is GB. Range Character string.
project_is_deleted	String	Explanation: Whether the project has been deleted. Range Character string.
project_uuid	String	Explanation: Project ID. For details, see Obtaining a Project ID . Range Character string.
repository_id	Integer	Explanation: Repository primary key ID. Range 1-2147483647
repository_name	String	Explanation: Repository name Range Character string.
repository_size	String	Explanation: Total repository capacity = Repository LFS capacity + Git repository capacity. The unit is MB. If the capacity is greater than 1,024 MB, the unit is GB. Range Character string.
repository_uuid	String	Explanation: Repo UUID, which is returned by the CreateRepository API. Range Character string.
ssh_url	String	Explanation: URL for cloning a repository in SSH mode. Range Character string.

Parameter	Type	Description
star	Boolean	Explanation: Whether you have followed the repository. Range • true: Yes • false: No
status	Integer	Explanation: Repository status. Range • 0: The repository has been created. • 1: The repository is being created. • 2: The creation failed. • 3: The repository is frozen. • 4: The repository is closed.
updated_at	String	Explanation: Update time. Range None.
userRole	Integer	Explanation: Your permissions for the repository. Range • 20: Read-only member • 30: Common member • 40: Administrator
visibility_level	Integer	Explanation: Visibility. Range • 0: Private repository • 20: Public repository
web_url	String	Explanation: Web URL, which redirects you to the repository details page. Range None.

Example Requests

```
GET https://{endpoint}/v2/projects/{project_uuid}/repositories
```


Example Responses

Status code: 200

OK

```
{
  "result": {
    "total": 14,
    "repositories": {
      "repository_uuid": "d0457f74cc5b43d989ded7248f71b4e5",
      "repository_id": 468480,
      "repository_name": "CreatRepository_2qD5i",
      "ssh_url": "git@repo.example.com:Demo00228/CreatRepository_2qD5i.git",
      "https_url": "https://repo.example.com/Demo00228/CreatRepository_2qD5i.git",
      "group_name": "Demo00228",
      "web_url": "https://repo.example.com/repo/468480/home",
      "visibility_level": 0,
      "created_at": "2019-10-15 09:40:26",
      "updated_at": "2019-10-15 09:40:26",
      "repository_size": "0.06M",
      "lfs_size": "0.00M",
      "creator_name": "repo",
      "domain_name": "repo",
      "star": false,
      "status": 0,
      "is_owner": 1,
      "iam_user_uuid": "a618e34bd5704be3ae3395dfede06041",
      "project_uuid": "4838955a48e2492bbe44b31bc4c272f6",
      "project_is_deleted": "false",
      "userRole": null
    }
  },
  "status": "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.4.4 Associating Work Items with a Branch

Function

This API is used to associate work items with a branch.

URI

POST /v2/projects/issues

Request Parameters

Table 4-2085 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range 1–100,000 characters. Default value None.

Table 4-2086 Request body parameters

Parameter	Mandatory	Type	Description
branch	Yes	String	Explanation Branch name. Constraints None. Range None. Default value None.
project_id	Yes	String	Explanation Project ID. For details, see Obtaining a Project ID . Constraints None. Range None. Default value None.

Parameter	Mandatory	Type	Description
related_id	Yes	Array of strings	Explanation Work item IDs to be associated Constraints None. Range None. Default value None.
repo_id	Yes	String	Explanation Repository ID, which can be obtained by calling the API for querying all repositories of a user . Constraints None. Range None. Default value None.

Response Parameters

Status code: 200

Table 4-2087 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None.
status	String	Explanation Response status. Range ● success: The API call is successful. ● failed: The API call failed.

Table 4-2088 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Example Requests

```
POST https://{endpoint}/v2/projects/issues
{
  "project_id" : "a6142fa102b740988fe45cc40254d61c",
  "branch" : "unionsdk",
  "repo_id" : "2111616668",
  "related_id" : [ "5561081" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.5 RepoMember

4.5.1 Deleting a Repository Member

Function

This API is used to delete a repository member.

URI

DELETE /v1/repositories/{repository_uuid}/members/{member_id}

Table 4-2089 Path parameters

Parameter	Mandatory	Type	Description
member_id	Yes	String	Explanation Repository member ID, which is returned by the API for Obtaining Permissions in the Repository Group List Specified by the Current User . Constraints None. Range None. Default value None.
repository_uuid	Yes	String	Explanation Repository UUID. For details, see the UUID returned by Querying the Details About a Repository . Constraints None. Range 32 digits and letters. Default value None.

Request Parameters

Table 4-2090 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 4-2091** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None.
result	Object	Explanation Response result. Range None.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2092 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Example Requests

```
DELETE https://{endpoint}/v1/repositories/{repository_uuid}/members/{member_id}
```

Example Responses

Status code: 200

OK

```
{  
  "result" : { },  
  "status" : "success"  
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See Error Codes.

4.6 Commit

4.6.1 Querying a Commit Message of a Repository

Function

This API is used to obtain commit information based on the repository ID or query all commit records in the file path.

URI

GET /v2/projects/{repo_id}/repository/commits

Table 4-2093 Path parameters

Parameter	Mandatory	Type	Description
repo_id	Yes	Integer	Explanation Repository ID. Go to the code page of the repository to view it. Constraints None. Range 0-2147483647 Default value None.

Table 4-2094 Query parameters

Parameter	Mandatory	Type	Description
ref_name	No	String	Explanation Branch name or tag name of the repository. If this parameter is left blank, the default branch is queried. Constraints None. Range Minimum length: 1 Maximum length: 200 Default value Default branch.

Parameter	Mandatory	Type	Description
since	No	String	Explanation Records submitted after the date. The format is YYYY-MM-DDTHH:MM:SSZ. For example, 2025-07-18T12:34:56Z indicates the UTC time of 12:34:56 on July 18, 2025. Constraints None. Range None. Default value None.
until	No	String	Explanation Records submitted before the date. The format is YYYY-MM-DDTHH:MM:SSZ. For example, 2025-07-19T12:34:56Z indicates the UTC time of 12:34:56 on July 19, 2025. Constraints None. Range None. Default value None.
path	No	String	Explanation File path. Constraints None. Range None. Default value None.

Parameter	Mandatory	Type	Description
all	No	Boolean	Explanation Whether to search for each commit in a repository. Constraints None. Range None. Default value None.
with_stats	No	Boolean	Explanation Whether statistics about each commit are added to the response. Constraints None. Range None. Default value None.
page	No	Integer	Explanation Page index. Constraints None. Range 1-2147483647 Default value 1
per_page	No	Integer	Explanation Number of records displayed on each page. Constraints None. Range 1-100 Default value 100

Request Parameters

Table 4-2095 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range The length range of the character string is [1,100000]. Default value None.

Response Parameters

Status code: 200**Table 4-2096** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None
result	Array of CommitInfo objects	Explanation Response result. Range None
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2097 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Table 4-2098 CommitInfo

Parameter	Type	Description
id	String	Explanation SHA ID of the commit, which uniquely identifies each commit in the Git version control system. Range 40
short_id	String	Explanation Short SHA ID of the commit, which is usually the first few characters of the SHA ID. Range 8
title	String	Explanation Title submitted by a user in Git. Range None.
author_name	String	Explanation Author. Range None.
author_email	String	Explanation Author's email address. Range None.

Parameter	Type	Description
committer_name	String	Explanation Committer. Range None.
committer_email	String	Explanation Committer email. Range None.
created_at	String	Explanation Creation time. Range None.
message	String	Explanation Commit message, including the purpose and content of the commit. Range None.
parent_ids	Array of strings	Explanation Parent commit ID. When a new commit is created, Git records the commit from which the new commit evolves. The predecessor commit is the parent commit. Range None.
committed_date	String	Explanation Commit time. The format is YYYY-MM-DDTHH:MM:SSZ. For example, 2025-07-19T12:34:56Z indicates the UTC time of 12:34:56 on July 19, 2025. Range None.
authored_date	String	Explanation Commit time of the author. The format is YYYY-MM-DDTHH:MM:SSZ. For example, 2025-07-19T12:34:56Z indicates the UTC time of 12:34:56 on July 19, 2025. Range None.

Example Requests

```
GET https://{endpoint}/v2/projects/859341/repository/commits
```

Example Responses

Status code: 200

OK

```
{
  "result": [ {
    "id": "85a0a9d5c6e43bc9c3e443ac01f789e24eeef02b",
    "title": "some commit message",
    "message": "some commit message",
    "short_id": "85a0a9d5",
    "author_name": "repo",
    "author_email": null,
    "committer_name": "repo",
    "committer_email": null,
    "created_at": "2021-09-26T03:44:51.000Z",
    "parent_ids": [ "5c114bb316dff4d4a046e09a5c44c816f2433140" ],
    "committed_date": "2021-09-26T03:44:51.000Z",
    "authored_date": null
  }, {
    "id": "5c114bb316dff4d4a046e09a5c44c816f2433140",
    "title": " Update README.md",
    "message": "Update README.md",
    "short_id": "5c114bb3",
    "author_name": "repo",
    "author_email": null,
    "committer_name": "repo",
    "committer_email": null,
    "created_at": "2021-08-26T12:02:58.000Z",
    "parent_ids": [ "646fc72bd87eb02e1e84bf3b82179c7f6d22c2c2" ],
    "committed_date": "2021-08-26T12:02:58.000Z",
    "authored_date": null
  } ],
  "status": "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.7 File

4.7.1 Querying a File in a Repository

Function

This API is used to obtain information about a file in a repository, such as the name, size, and content. Note that the file content is encoded using Base64.

URI

GET /v2/projects/{repo_id}/repository/files

Table 4-2099 Path parameters

Parameter	Mandatory	Type	Description
repo_id	Yes	Integer	Explanation Repository ID. Go to the code page of the repository to view it. Constraints None. Range 0–2147483647 Default value None.

Table 4-2100 Query parameters

Parameter	Mandatory	Type	Description
file_path	Yes	String	Explanation Complete path of the file. Constraints None. Range None. Default value None.

Parameter	Mandatory	Type	Description
ref	Yes	String	Explanation Commit ID, which is the branch name or tag name of the repository. Constraints None. Range None. Default value None.

Request Parameters

Table 4-2101 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range The length range of the character string is [1,100000]. Default value None.

Response Parameters

Status code: 200

Table 4-2102 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None.
result	FileContentInfo object	Explanation File details. Range None.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2103 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Table 4-2104 FileContentInfo

Parameter	Type	Description
file_name	String	Explanation File name. Range None.

Parameter	Type	Description
file_path	String	Explanation File path. Range None.
size	Integer	Explanation File size. Range None.
encoding	String	Explanation Document code. Range None.
content_sha256	String	Explanation SHA256-encoded file content. Range None.
ref	String	Explanation Branch or tag name. Range None.
blob_id	String	Explanation blob sha id Range 40
commit_id	String	Explanation SHA ID of a commit. Range 40
last_commit_id	String	Explanation SHA ID corresponding to the last commit Range 40
content	String	Explanation Base64-encoded file content Range None.

Example Requests

```
GET https://{endpoint}/v2/projects/859341/repository/files?README.md&ref=master
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "size": 9,
    "encoding": "base64",
    "ref": "master",
    "content": "NDU0NTQ1NDQ1",
    "file_name": "README.md",
    "file_path": "README.md",
    "content_sha256": "e16f4f6c41a79d120484774a625bea8a3c3dcb655aa7c7e793ac48639dc63944",
    "blob_id": "3325fa3142fd66fedc8c3a5218b417f561e0ea2f",
    "commit_id": "a772945ec2765e322cc83e0f467f394effa22cf3",
    "last_commit_id": "a772945ec2765e322cc83e0f467f394effa22cf3"
  },
  "status": "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.8 User

4.8.1 Verifying HTTPS Account and Password

Function

This API is used to check whether the username and password entered when you upload or download code using HTTPS are valid.

URI

POST /v2/user/{iam_user_uuid}/validate-https-info

Table 4-2105 Path parameters

Parameter	Mandatory	Type	Description
iam_user_uuid	Yes	String	Explanation IAM user ID, which can be obtained from the user page on the console. Constraints None. Range 32 digits and letters. Default value None.

Request Parameters

Table 4-2106 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range 1–100,000 characters. Default value None.

Table 4-2107 Request body parameters

Parameter	Mandatory	Type	Description
pwd	Yes	String	Explanation HTTPS password to be verified. Constraints 8–32 characters. The password must contain at least three types of the following characters: digits, uppercase letters, lowercase letters, and special characters. It cannot be the same as the username or the username spelled backwards. Range None. Default value None.

Response Parameters

Status code: 200

Table 4-2108 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error. Range None.
result	String	Explanation Response result. Range verificationPassed: The password is correct.
status	String	Explanation Response status of the API. Range ● success: The API call is successful. ● failed: The API call failed.

Table 4-2109 Error

Parameter	Type	Description
code	String	Explanation Error code returned when the API fails to be called. Range CH.010008
message	String	Explanation Error code returned when the API fails to be called. Range Incorrect account or password.

Example Requests

```
POST https://{endpoint}/v2/user/{iam_user_uuid}/validate-https-info
{
  "pwd" : "XXX"
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : "verificationPassed",
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.9 Project

4.9.1 Obtaining the List of Repositories that Can be Set to Public Under a Project

Function

This API is used to obtain the list of repositories that can be set to public under a project.

URI

GET /v2/projects/{project_uuid}/repositories/template-status

Table 4-2110 Path parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Explanation Project ID. For details, see Obtaining a Project ID . Constraints None. Range 32 digits and letters. Default value None.

Table 4-2111 Query parameters

Parameter	Mandatory	Type	Description
page_no	No	Integer	Explanation Page number. Constraints None. Range None. Default value 1

Parameter	Mandatory	Type	Description
page_size	No	Integer	Explanation Number of data records on each page. Constraints None. Range 1–100 Default value 20

Request Parameters

Table 4-2112 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range The length range of the character string is [1,100000]. Default value None.

Response Parameters

Status code: 200

Table 4-2113 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None.
result	TemplateListInfo object	Explanation Response result. Range None.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2114 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Table 4-2115 TemplateListInfo

Parameter	Type	Description
repos	Array of DevstarRepository objects	Explanation Repository list. Range None.

Parameter	Type	Description
total_count	Integer	Explanation Total number of repositories. Range None.

Table 4-2116 DevstarRepoInfo

Parameter	Type	Description
uuid	String	Explanation Repository UUID. Range None.
repo_id	String	Explanation Repository ID. Range None.
repo_name	String	Explanation Repository name. Range None.
ssh_url	String	Explanation Repository SSH address. Range None.
code_url	String	Explanation Repository HTTPS address. Range None.
detail_url	String	Explanation Repository preview address. Range None.

Example Requests

```
GET https://{endpoint}/v2/projects/{project_uuid}/repositories/template-status
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "repos": [ {
      "uuid": "36f532939c4b4e2191c10f5353ccf34c",
      "repo_id": 487773,
      "repo_name": "DDDDDDDD",
      "ssh_url": "git@repo.example.com:CHEN_TEST00001/DDDDDDDD.git",
      "code_url": "https://repo.example.com/CHEN_TEST00001/DDDDDDDD.git",
      "detail_url": "https://repo.example.com/repo/487773/home"
    } ],
    "total_count": 100
  },
  "status": "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.9.2 Obtaining Information About All Repositories in a Project

Function

This API is used to obtain the repository list. Fuzzy query is supported: If the *project_id* is not specified, fuzzy search by repository name or project name is supported. Otherwise, only fuzzy search by repository name is supported.

URI

GET /v1/projects/{project_uuid}/repositories

Table 4-2117 Path parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Explanation: Project ID. For details, see Obtaining a Project ID . Constraints None. Range 32 digits and letters. Default value None.

Table 4-2118 Query parameters

Parameter	Mandatory	Type	Description
page_index	No	Integer	Explanation: Page index. Constraints None. Range None. Default value 1
page_size	No	Integer	Explanation: Number of records on each page. Constraints None. Range 1–100 Default value 20

Parameter	Mandatory	Type	Description
search	No	String	Explanation: Search keyword. Constraints None. Range None. Default value None.

Request Parameters

Table 4-2119 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200

Table 4-2120 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error. Range None

Parameter	Type	Description
result	RepoListInfo object	Explanation: Response result. Range None
status	String	Explanation: Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2121 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range Max. 100 characters in the error code format.
message	String	Explanation: Error message. Range None

Table 4-2122 RepoListInfo

Parameter	Type	Description
repositorys	Array of RepoInfo objects	Explanation: Repository list. Range None
total	Integer	Explanation: Total number of repositories. Range None

Table 4-2123 RepoInfo

Parameter	Type	Description
createAt	String	Explanation: Creation time. Range None
groupName	String	Explanation: Repository group name (the segment between the domain name and repository name in a clone address. Example: Demo00228 in git@repo.example.com:Demo00228/testword.git). Range None
httpUrl	String	Explanation: Repository https url Range None
id	String	Explanation: Repository UUID Range 32 characters.
name	String	Explanation: Repository name. Range None
projectId	String	Explanation: Project ID. Range 32 characters.
projectIsDelete	String	Whether the project is deleted.
repold	String	Explanation: Repository ID Range 1-40
sshUrl	String	Explanation: Repository ssh url

Parameter	Type	Description
visibilityLevel	Integer	Explanation: Visibility. 0 : Private. 20 : Public. Range 0: private repository 20: public repository
webUrl	String	Explanation: Repository web url Range None

Example Requests

```
GET https://{endpoint}/v1/projects/{project_uuid}/repositories
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "total" : 1,
    "repositories" : [ {
      "id" : "d0457f74cc5b43d989ded7248f71b4e5",
      "repold" : "468480",
      "name" : "CreatRepository_2qD5i",
      "sshUrl" : "git@repo.example.com: Demo00228/CreatRepository_2qD5i.git",
      "httpUrl" : "https://repo.example.com/Demo00228/CreatRepository_2qD5i.git",
      "groupName" : "Demo00228",
      "webUrl" : "https://repo.example.com/repo/468480/home",
      "visibilityLevel" : 0,
      "createAt" : "2019-10-15 09:40:26",
      "projectId" : "4838955a48e2492bbe44b31bc4c272f6",
      "projectIsDelete" : "false"
    } ],
    "status" : "success"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

4.9.3 Verifying a Repository Name of a Specified Project

Function

This API is used to check whether the repo name exists in the project and is usually invoked for verification before a repo is created.

URI

GET /v1/projects/{project_uuid}/repositories/validation/{repository_name}

Table 4-2124 Path parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Explanation: Project ID. For details, see Obtaining a Project ID . Constraints None. Range 32 digits and letters. Default value None.
repository_name	Yes	String	Explanation: Repository name. Constraints None. Range None. Default value None.

Request Parameters

Table 4-2125 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 4-2126** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error. Range None
result	Boolean	Explanation Check whether the repo exists. Range • true: The repo does not exist and the name is available. • false: The repo exists, and the name cannot be used.
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 4-2127 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range Max. 100 characters in the error code format.
message	String	Explanation: Error Message Range None

Example Requests

```
GET https://{endpoint}/v1/projects/{project_uuid}/repositories/validation/{repository_name}
```

Example Responses

Status code: 200

OK

```
{
  "result" : true,
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

5 Application Examples

5.1 Example 1: Querying All Repositories of a User

Scenario

This section uses a CodeArts user as an example to guide you how to use an API to query the code repository list.

For details on how to call APIs, see [Making an API Request](#).

Prerequisites

You have enabled CodeArts Repo on the console.

Approach

This API is used to query the list of all repositories of the current user based on the user token.

Querying All Repositories of a User

- API information:

URI: GET v2/projects/repositories

- Request example:

```
GET https://repo.example.eu/v2/projects/repositories
```

- Response example:

```
{
  "result": {
    "total": 40,
    "repositories": [
      {
        "star": false,
        "status": 5,
        "userRole": null,
        "repository_uuid": "25c88b23d4dc400fa7b3e2a152e4d53c",
        "repository_id": 522140,
        "repository_name": "11111111111111",
        "ssh_url": "git@repo.example.com:testxq00001/1111111111111111.git",

```

```
{
  "https_url": "https://repo.example.com/testzqx00001/111111111111.git",
  "group_name": "testzqx00001",
  "web_url": "https://repo.example.com/codehub/522140/home",
  "visibility_level": 0,
  "created_at": "2020-07-22 10:45:56",
  "updated_at": "2020-07-22 10:45:56",
  "repository_size": "0.16M",
  "lfs_size": "0.00M",
  "creator_name": "creator_name",
  "domain_name": "domain_name",
  "is_owner": 1,
  "iam_user_uuid": "a618e34bd5704be3ae3395dfede06041",
  "project_uuid": "a689e057c2304abfa35d4ff65630a90a",
  "project_is_deleted": "false"
}
},
"status": "success"}
```

6 Appendix

6.1 Status Codes

Table 6-1 Status codes

Status Code	Message	Description
100	Continue	The client should continue with its request. This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server.
101	Switching Protocols	The protocol should be switched only when it is advantageous to do so. For example, the current HTTP protocol is switched to a later version.
201	Created	The request has been fulfilled and resulted in a new resource being created.
202	Accepted	The request has been accepted for processing, but the processing has not been completed.
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.
204	NoContent	The server has successfully processed the request, but does not return any response. The status code is returned in response to an HTTP OPTIONS request.
205	Reset Content	The server has fulfilled the request.

Status Code	Message	Description
206	Partial Content	The server has fulfilled the partial GET request for the resource.
300	Multiple Choices	The response contains a list of resource characteristics and addresses from which a user terminal (such as a browser) can choose the most appropriate one.
301	Moved Permanently	This and all future requests have been permanently moved to the given URI indicated in this response.
302	Found	The requested resource has been temporarily moved.
303	See Other	Use GET and POST requests to view the information.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, no resource is returned.
305	Use Proxy	The requested resource is available only through a proxy.
306	Unused	This HTTP status code is no longer used.
400	BadRequest	Invalid request. The client should modify the request instead of re-initiating it.
401	Unauthorized	The authentication information provided by the client is incorrect or invalid.
402	Payment Required	Reserved request.
403	Forbidden	Request rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.
404	NotFound	The requested resource cannot be found. The client should modify the request instead of re-initiating it.
405	MethodNotAllowed	The method specified in the request is not allowed for the requested resource. The client should modify the request instead of re-initiating it.

Status Code	Message	Description
406	Not Acceptable	The server cannot implement the request based on the content characteristics of the request.
407	Proxy Authentication Required	This code is similar to 401, but indicates that the client must first authenticate itself with the proxy.
408	Request Time-out	The server timed out waiting for the request. The client may re-initiate the request without modifications at any time later. No changes are involved.
409	Conflict	The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request.
410	Gone	The requested resource cannot be found. This status code indicates that the requested resource has been deleted permanently.
411	Length Required	The server refused to process the request because the request does not specify the length of its content.
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The server refuses to process a request because the request is too large. The server may disable the connection to prevent the client from sending requests consecutively. If the server temporarily cannot process the request, the response will contain a Retry-After header field.
414	Request-URI Too Large	The request URI is too long for the server to process.
415	Unsupported Media Type	The server does not support the media type in the request.
416	Requested range not satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the Expect request header field.
422	UnprocessableEntity	The request is well-formed but is unable to respond due to semantic errors.

Status Code	Message	Description
429	TooManyRequests	The client sends too many requests to the server within a given time, exceeding the client's access frequency limit or beyond the server's processing capability. In this case, the client should repeat requests after the time specified in the Retry-After header of the response expires.
500	InternalServerError	The server is able to receive the request but it cannot understand the request.
501	Not Implemented	The server does not support the requested function, and therefore cannot implement the request.
502	Bad Gateway	The server acting as a gateway or proxy receives an invalid response from a remote server.
503	ServiceUnavailable	The requested service is invalid. The client should modify the request instead of re-initiating it.
504	ServerTimeout	The server could not return a timely response. The response will reach the client only if the request carries a timeout parameter.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

6.2 Error Codes

If an error occurs in API calling and no result is returned, you can locate the cause based on the error code of each API. The returned message body contains the specific error code and error information.

Error Response Body Format

If an error occurs during API calling, an error code and the corresponding error message will be displayed. The following shows an error response body:

```
{
  "error": {
    "code": "DEV.CH.10001",
    "message": "Param invalid"
  },
  "status": "failed"
}
```

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

If an error code starting with **APIGW** is returned after you call an API, rectify the fault by referring to the instructions provided in API Gateway Error Codes.

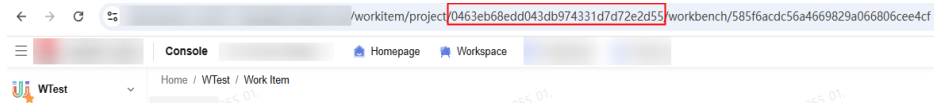
Status Code	Error Code	Error Message	Description	Measure
400	CH.010001	Invalid parameter value format.	Param invalid	Check parameters.
401	CH.080401	You do not have the permission to access the resource.	No Permission	Check the repository role and permission of a user.
403	CH.080403	Access denied.	Forbidden	Check the request path.
404	CH.000404	Resource unavailable.	Not Found	Check whether the resource ID or resource name is correct.
500	CH.000001	Unknown error.	Unknown error	System error. Please wait.
504	CH.080504	Request timed out.	Gateway Timeout	Check the network.

6.3 Obtaining a Project ID

6.3.1 Obtaining a CodeArts Project ID

Obtaining a Project ID from a URL

- Step 1** [Log in to the Huawei Cloud console](#) with your Huawei Cloud account.
- Step 2** Click  in the upper left corner of the page and choose **Developer Services**.
- Step 3** Click  in the upper left corner and choose **Developer Services > CodeArts** from the service list.
- Step 4** Click **Workspace** in the upper right corner.
- Step 5** Go to the specified project. In the following figure, the content in the red box is the CodeArts project ID.



----End

6.3.2 Obtaining an IAM Project ID

Obtaining a Project ID by Calling an API

A project ID can also be obtained by calling a specific API. For details, see [Querying Project Information Based on the Specified Criteria](#).

The API for obtaining an IAM project ID is **GET https://{Endpoint}/v3/projects/{Endpoint}**. **{Endpoint}** indicates the endpoint of IAM, which can be obtained from [Regions and Endpoints](#). For details about API authentication, see [Authentication](#).

In the following example, **id** indicates a project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "name": "xxxxxxx",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6b99",
      "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and click **My Credentials** from the drop-down list.

As shown in the following figure, on the **API Credentials** page, view the project ID in the project list.



If there are multiple projects in one region, expand **Region** and obtain subproject IDs from the **Project ID** column.

6.4 Obtaining an Account ID

An account ID is required for some URLs when an API is called. To obtain an account ID, perform the following operations:

1. Log in to the management console.
2. Point to the username and choose **My Credentials** from the drop-down list.
On the displayed **API Credentials** page, view **Account ID**.

6.5 Language Type of the Gitignore File Template

Table 6-2 Language of the.gitignore file template

Language
Actionscript
Ada
Agda
Android
Ansible
AppceleratorTitanium
AppEngine
ArchLinuxPackages
Autotools
C#
C++
C
CakePHP
CFWheels
ChefCookbook
Clojure
CMake
CodeIgniter
CommonLisp

Language
Composer
Concrete5
Coq
CraftCMS
CUDA
D
Dart
Delphi
DM
Dreamweaver
Dropbox
Drupal
Eagle
Eclipse
Elisp
Elixir
Elm
Emacs
EPiServer
Erlang
ExpressionEngine
ExtJs
Fancy
Finale
ForceDotCom
Fortran
FuelPHP
Gcov
GitBook
Go

Language
Godot
GPG
Gradle
Grails
GWT
Haskell
Idris
IGORPro
Java
JavaScript
Jboss
Jekyll
JetBrains
Joomla
Julia
KiCad
Kohana
Kotlin
LabVIEW
Laravel
Leiningen
LemonStand
Lilypond
Lithium
Lua
Magento
Maven
Mercury
MetaProgrammingSystem
Nanoc

Language
NetBeans
Nim
Node
NotepadPP
Objective-C
OCaml
Opa
OpenCart
OracleForms
Packer
Perl
Phalcon
PlayFramework
Plone
Prestashop
Processing
PureScript
Python
Qooxdoo
Qt
R
Rails
RhodesRhomobile
ROS
Ruby
Rust
Sass
Scala
Scheme
SCons

Language
Scrivener
Sdcc
SeamGen
SketchUp
Smalltalk
Stella
SublimeText
SugarCRM
SVN
Swift
Symfony
SymphonyCMS
Terraform
TeX
Textpattern
TortoiseGit
TurboGears2
Typo3
Umbraco
Unity
UnrealEngine
VisualStudio
VisualStudioCode
VVVV
Waf
WordPress
Xojo
Yeoman
Yii
ZendFramework

Language
Zephir

7 Historical APIs

7.1 SSH Key

7.1.1 Adding an SSH Key (Deprecated)

Function

This API is used to configure an SSH key in CodeArts Repo to establish a secure connection between a local computer and a repository under your account.

NOTE

This API has been discarded. Use the API described in [Adding an SSH Public Key](#).

URI

POST /v1/users/sshkey

Request Parameters

Table 7-1 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Table 7-2 Request body parameters

Parameter	Mandatory	Type	Description
key	Yes	String	Explanation A locally generated SSH key. Constraints None. Range Max. 2,048 digits and letters. Default value None.
title	Yes	String	Explanation A custom title set when the SSH key is added. Range Max. 255 characters.

Response Parameters

Table 7-3 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error. Range None.
result	PublicKey object	Explanation Response result. Range None.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-4 Error

Parameter	Type	Description
code	String	Explanation Error code returned when the API fails to be called. Range • 40: Failed to add the key. Check whether the key is valid. • CH.080002: The key already exists. Generate a new one.
message	String	Explanation Error message returned when the API fails to be called. Range • Failed to add the key. Check whether the key is valid. • The key already exists. Generate a new one.

Table 7-5 PublicKey

Parameter	Type	Description
id	String	Explanation Key ID. Range 1–40 digits.
key	String	Explanation Key, which is uploaded by a user. Range Max. 2,048 digits.
title	String	Explanation A custom title set when the SSH key is added. Range Max. 255 characters.

Example Requests

```
POST https://{endpoint}/v1/users/sshkey
{
  "title" : "repo@xxx.com",
  "key" : "ssh-rsa
AAAAB3NzaC1yc2EAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAU7xcma6HU8nj1E0i46VObWyOONl3gh142
BV repo@xxx.com"
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "id" : "1034531",
    "title" : "repo@xxx.com",
    "key" : "ssh-rsa
AAAAB3NzaC1yc2EAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAU7xcma6HU8nj1E0i46VObWyOONl3gh142
BV repo@xxx.com"
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

Table 7-6 Error codes

Status Code	Error Code	Error Message	Description	Measure
409	CH.080002	The key already exists. Generate a new one.	The key has been configured in CodeArts Repo. Generate a new one locally.	Re-generate a key locally and configure it in CodeArts Repo.
200	CH.010202	Failed to add the key. Check whether the key is valid.	The key cannot be added in CodeArts Repo. The key or title is invalid.	• If the key is incomplete , copy it again. • If the title is invalid, enter a new one.
400	CH.080002	title cannot be left blank	Title is required.	Specify a title.
400	CH.080002	key is empty	SSH key is required.	Specify an SSH key.

7.1.2 Obtaining the SSH Key List (Deprecated)

Function

This API is used to obtain the public key list of CodeArts Repo.

NOTE

This API has been deprecated. Use the API described in [Obtaining the Key List of the Current User](#).

URI

GET /v1/users/sshkey

Request Parameters

Table 7-7 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range: 1–100,000 characters. Default value None.

Response Parameters

Table 7-8 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error. Range: None.
result	PublicKeyList object	Explanation: SSH key list.
status	String	Explanation: Response status of the API. Range: • success: The API call is successful. • failed: The API call failed.

Table 7-9 PublicKeyList

Parameter	Type	Description
sshkey	Array of PublicKey objects	Explanation: SSH key list.
total	Integer	Explanation: Total number of SSH keys. Range: 0–2147483647

Table 7-10 Error

Parameter	Type	Description
code	String	Explanation: Error code returned when the API fails to be called. Range: CH.10000. The system is busy. Try again later.
message	String	Explanation: Error message returned when the API fails to be called. Range: The system is busy. Try again later.

Table 7-11 PublicKey

Parameter	Type	Description
id	String	Explanation: Key ID. Range: 1–40 digits.
key	String	Explanation: Key, which is uploaded by a user. Range: Max. 2,048 digits.

Parameter	Type	Description
title	String	Explanation: A custom title set when the SSH key is added. Range: Max. 255 characters.

Example Requests

```
GET https://{endpoint}/v1/users/sshkey
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "total": 2,
    "sshkey": [ {
      "id": "1015292",
      "title": "reop1@test.com",
      "key": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABqa/
pE8buOrxri6AWqAky0bmtjSuVf reop1@test.com"
    }, {
      "id": "1031709",
      "title": "reop@test.com",
      "key": "ssh-rsa
AAAAAB3NzaC1yc2EA
BV repo@test.com"
    } ]
  },
  "status": "success"
}
```

Error Codes

See Error Codes.

7.1.3 Deleting a User Public Key (Deprecated)

Function

This API is used to delete a user public key.

 NOTE

This API has been deprecated.

URI

```
DELETE /v1/users/sshkey/{id}
```

Table 7-12 Path parameters

Parameter	Mandatory	Type	Description
id	Yes	String	SSH key ID

Request Parameters

Table 7-13 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-14 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	String	Response result.
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 7-15 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Example Requests

```
DELETE https://{endpoint}/v1/users/sshkey/{id}
```

Example Responses

Status code: 200

OK

```
{
  "result" : "1034531",
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error code.

See [error codes](#).

7.2 Adding a Hook to a Specified Repository

Function

Submit code to automatically trigger compilation and building and add a repository hook.

URI

POST /v1/repositories/{group_name}/{repository_name}/hooks

Table 7-16 Path Parameters

Parameter	Mandatory	Type	Description
group_name	Yes	String	Group Name (Example: git@repo.alpha.devcloud.inhuatech.com:Demo00228/testword.git Group Name: Demo00228)
repository_name	Yes	String	Repository name

Request Parameters

Table 7-17 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.

Table 7-18 Request body parameters

Parameter	Mandatory	Type	Description
hook_url	Yes	String	Trigger URL
service	Yes	String	Event Source
token	No	String	Security Token
hook_events	Yes	Array of strings	Trigger

Response Parameters

Status code: 200

Table 7-19 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	RepoHook object	Result
status	String	Status code in a response

Table 7-20 Error

Parameter	Type	Description
code	String	Error Codes
message	String	Error message

Table 7-21 RepoHook

Parameter	Type	Description
build_events	Boolean	Indicates whether to trigger the build_events event.
created_at	String	Time when warehouse statistics are created.
enable_ssl_verification	Boolean	Indicates whether to use SSL authentication.
id	Integer	hook id
issues_events	Boolean	Trigger issues_events
merge_requests_events	Boolean	Whether to trigger the merge_requests_events event
note_events	Boolean	Indicates whether to trigger the note_events event.
pipeline_events	Boolean	Whether to trigger the pipeline_events event
project_id	Integer	Specifies the repository ID.
push_events	Boolean	Whether to trigger the push_events event
repository_update_events	Boolean	Whether to trigger the repository_update_events event
tag_push_events	Boolean	Whether to trigger the tag_push_events event
wiki_page_events	Boolean	Trigger wiki_page_events

Example Requests

```
POST https://{endpoint}/v1/repositories/{group_name}/{repository_name}/hooks
```

```
{
  "service" : 11,
  "token" : "test",
  "hook_url" : "https://alpha.devcloud.inhuawei.com/",
  "hook_events" : [ "push_events" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "id" : 5609,
    "project_id" : 453489,
    "created_at" : "2019-10-23 17:29:56",
  }
}
```

```
"enable_ssl_verification" : false,
"push_events" : true,
"tag_push_events" : false,
"repository_update_events" : false,
"merge_requests_events" : false,
"issues_events" : false,
"note_events" : false,
"pipeline_events" : false,
"wiki_page_events" : false,
"build_events" : null
},
"status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.1 Obtaining Files in a Branch Directory (Deprecated)

Function

This API is used to obtain files in a branch directory.

 NOTE

This API has been deprecated. Use [Viewing the Branch File List](#) instead.

URI

GET /v1/repositories/{repository_uuid}/branch/{branch_name}/sub-files

Table 7-22 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID returned by the CreateRepository API. Constraints Mandatory Range 32 digits and letters. Default value None

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Explanation Name of the target branch to be queried. Constraints None. Range [1,200] Default value None.

Table 7-23 Query parameters

Parameter	Mandatory	Type	Description
path	No	String	Explanation Branch path to be queried. For example, src/main/java . Constraints None. Range None. Default value None.
offset	No	Integer	Explanation Page index. Constraints None. Range [1,2147483647] Default value 1

Parameter	Mandatory	Type	Description
limit	No	Integer	Explanation Number of records on each page. Constraints None. Range [1,100] Default value 100

Request Parameters

Table 7-24 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200

Table 7-25 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code. Range None.

Parameter	Type	Description
result	LogsTreeList object	Explanation Response result. Range None.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-26 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Table 7-27 LogsTreeList

Parameter	Type	Description
trees	Array of LogsTree objects	Explanation File log tree.
total	Integer	Explanation Total number of records.

Table 7-28 LogsTree

Parameter	Type	Description
blob_id	String	Explanation Storage block ID.

Parameter	Type	Description
commit	Commit object	Explanation Commit message.
file_name	String	Explanation File name.
file_path	String	Explanation File path.
md5	String	Explanation MD5.
type	String	Explanation Storage type. Range - blob: file. - tree: directory.

Table 7-29 Commit

Parameter	Type	Description
author_email	String	Explanation Author's email address.
author_name	String	Explanation Author.
authored_date	String	Explanation Author's submission time.
committed_date	String	Explanation Commit time.
committer_email	String	Explanation Committer's email address.
committer_name	String	Explanation Committer.
format	Object	Explanation File change details. The format is specified in the stat_format parameter.
id	String	Explanation SHA ID of a commit.

Parameter	Type	Description
message	String	Explanation Commit message.
parent_ids	Array of strings	Explanation Parent commit ID.

Example Requests

GET

::://{endpoint}/v1/repositories/{repository_uuid}/branch/{branch_name}/sub-files

Example Responses

Status code: 200

OK

```
{
  "result": {
    "trees": [ {
      "blob_id": "ef69ef5dc0c53022fe52a4d02de15f73d96e055c",
      "file_name": "csharpDemo.png",
      "file_path": "images/csharpDemo.png",
      "md5": "8830d25fe6b4e2cd14d75ddb5cae73a7",
      "type": "blob",
      "commit": {
        "id": "1cfd6d81fff948828c7f59bda74c0ef80e53def0",
        "message": "init",
        "parent_ids": [ ],
        "author_name": "repo",
        "author_email": "repo@test.com",
        "committed_date": "2019-11-13 11:29:26",
        "committer_name": "repo",
        "committer_email": "repo@test.com"
      }
    } ],
    "total": 5
  },
  "status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.2 Querying Branches of a Repository (Deprecated)

Function

This API is used to query the branch list of a specified repository by the repository ID.

NOTE

The current API has been deprecated. Use the API described in [Obtaining the Branch List](#) instead.

URI

GET /v1/repositories/{repository_id}/branches

Table 7-30 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	String	Repository ID.

Request Parameters

Table 7-31 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200

Table 7-32 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	BranchList object	Response result.
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 7-33 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Table 7-34 BranchList

Parameter	Type	Description
branches	Array of Branch objects	Branch list of a specified repository.
total	Integer	Total number of branches in a specified repository.

Table 7-35 Branch

Parameter	Type	Description
is_protected	Boolean	Whether to protect the branch.
name	String	Branch name.

Example Requests

```
GET https://{endpoint}/v1/repositories/{repository_id}/branches
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "total" : 1,
    "branches" : [ {
      "name" : "master",
      "is_protected" : false
    } ]
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.3 Creating a Tag (Deprecated)

Function

This API is used to create a tag.

NOTE

This API has been deprecated. Use the API described in [Creating a Tag](#).

URI

POST /v2/repositories/{repository_id}/tags

Table 7-36 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Repository primary key ID.

Request Parameters

Table 7-37 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 7-38 Request body parameters

Parameter	Mandatory	Type	Description
tag_name	Yes	String	Tag name.
ref	Yes	String	Branch name.
message	No	String	Remarks.

Response Parameters

Status code: 200

Table 7-39 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	AddTagsResponse object	Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-40 Error

Parameter	Type	Description
code	String	Error code.

Parameter	Type	Description
message	String	Error message.

Table 7-41 AddTagsResponse

Parameter	Type	Description
name	String	Tag name.
message	String	Remarks.
commit	CommitRepo V2 object	Commit message.

Table 7-42 CommitRepoV2

Parameter	Type	Description
id	String	SHA ID of a commit.
short_id	String	Short SHA ID of a commit.
created_at	String	Creation time.
title	String	Commit title.
parent_ids	Array of strings	Parent commit ID.
message	String	Commit message.
author_name	String	Author.
committer_name	String	Committer.
committed_date	String	Commit time.

Example Requests

```
POST https://{endpoint}/v2/repositories/{repository_id}/tags
{
  "tag_name": "test20220920",
  "ref": "master",
  "message": "test20220920"
}
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "name": "test_tag_name",
    "message": "test message",
    "commit": {
      "id": "3b68902cf0eb7de3d5c8757e4a990bc3fe0af349",
      "short_id": "3b68902c",
      "created_at": "2022-03-08T03:14:39.000Z",
      "title": "Create a file",
      "parent_ids": [ "08618c900a4048aae7e4cd88913d3d521eae02eb" ],
      "message": "Create a file",
      "author_name": "repo",
      "committer_name": "repo",
      "committed_date": "2022-03-08T03:14:39.000Z"
    }
  },
  "status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.4 Querying the Tag List of a Repository (Deprecated)

Function

This API is used to query the branch corresponding to a specified repository.

NOTE

The current API has been deprecated. Use the API described in [Obtaining the Tag List](#) instead.

URI

GET /v2/repositories/{repository_id}/tags

Table 7-43 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	String	Repository primary key ID.

Request Parameters

Table 7-44 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200**Table 7-45** Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	TagList object	Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-46 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Table 7-47 TagList

Parameter	Type	Description
tags	Array of Tag objects	Tag list of a specified repository.
total	Integer	Total number of tags in a specified repository.

Table 7-48 Tag

Parameter	Type	Description
is_double_name	Boolean	Indicates whether the name is the same as that of a branch.
name	String	Label. Minimum length: 1 Maximum length: 260

Example Requests

```
GET https://{endpoint}/v2/repositories/{repository_id}/tags
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "total" : 1,
    "tags" : [ {
      "name" : "abctest",
      "is_double_name" : "false"
    } ]
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.5 Downloading a Repository

Function

This API is used to download a repository in the specified format.

NOTE

This API has been deprecated. Use the API described in [Downloading A Repository](#).

URI

GET /v2/repositories/{repository_uuid}/archive

Table 7-49 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Repository UUID.

Table 7-50 Query parameters

Parameter	Mandatory	Type	Description
sha	Yes	String	Branch name.
format	Yes	String	Format of the downloaded compressed package.

Request Parameters

Table 7-51 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

None.

Example Requests

```
GET https://{endpoint}/v2/repositories/{repository_uuid}/archive
```

Example Responses

None.

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.6 Obtaining the Repository Branch List (Deprecated)

Function

This API is used to query the repository branch list of the repository on which you have the permission.

NOTE

This current API has been deprecated. Use the API described in [Obtaining the Branch List](#) instead.

URI

GET /v2/repositories/{repository_id}/branches

Table 7-52 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation Repository ID. Go to the code page of the repository to view it. Constraints None. Range 0-2147483647 Default value None.

Table 7-53 Query parameters

Parameter	Mandatory	Type	Description
page	No	String	Explanation: Number of pages, starting from 1. Constraints: None. Range 1-2147483647 Default value 1
per_page	No	String	Explanation: Number of queried repository branches displayed on each page. Constraints: None. Range 1-100 Default value 20
match	No	String	Match condition.

Request Parameters

Table 7-54 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range String length: 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 7-55** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.
result	BranchResponse object	Explanation Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-56 Error

Parameter	Type	Description
code	String	Explanation: Error code. Range See Error Codes.
message	String	Explanation: Error message.

Table 7-57 BranchResponse

Parameter	Type	Description
branches	Array of BranchesItem objects	Explanation: Information about the queried branch.
total	Double	Explanation: Total number of queried branches.

Table 7-58 BranchesItem

Parameter	Type	Description
commit	CommitV2 object	Explanation: Commit message.
diverging_commit_counts	DivergingCommitCounts object	Explanation: Commit discrepancy.
name	String	Explanation: Branch name.

Table 7-59 CommitV2

Parameter	Type	Description
committed_date	String	Explanation: Commit time. The format is YYYY-MM-DDTHH:MM:SSZ. For example, 2025-07-19T12:34:56Z indicates the UTC time of 12:34:56 on July 19, 2025.

Parameter	Type	Description
committer_name	String	Explanation Committer.
id	String	Explanation SHA ID corresponding to the commit, that is, a 40-digit hexadecimal string used to uniquely identify each commit in the Git versioning system.
message	String	Explanation Commit message, including the purpose and content of the commit.
short_id	String	Explanation Short SHA ID of the commit, which is usually the first few characters of the SHA ID. Generally, the value is a string of 7 to 10 characters.
title	String	Explanation Title of a Git commit.

Table 7-60 DivergingCommitCounts

Parameter	Type	Description
ahead	Double	Explanation Number of leading commits, which indicates how many more commits one branch has compared to another branch.
behind	Double	Explanation Number of behind commits. If a branch does not contain the latest commits of another branch, the branch is in the behind state. The number of missing commits is the number of behind commits.

Example Requests

```
GET https://{endpoint}/v2/repositories/{repository_id}/branches
```

Example Responses

Status code: 200

OK

```
{  
  "result" : {
```

```
{
  "total": 1,
  "branches": [ {
    "name": "master",
    "commit": {
      "id": "2912b8f2328e798f7d544272ffaebfccccb598ab",
      "title": "Initial commit",
      "message": "Initial commit",
      "committed_date": "2021-12-06T09:24:50.000+08:00",
      "short_id": "2912b8f2",
      "committer_name": "repo"
    },
    "diverging_commit_counts": {
      "behind": 0,
      "ahead": 0
    }
  } ]
},
{
  "status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.7 Associating a Repository Group with a Member Group (Deprecated)

Function

Associate a repository group with a member group.

NOTE

This API has been deprecated. Use the API described in [Associating a Repository Group with a Member Group](#).

URI

POST /v4/{project_id}/groups/{group_id}/user-group/{user_group_id}

Table 7-61 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
group_id	Yes	Integer	Repository group ID.

Parameter	Mandatory	Type	Description
user_group_id	Yes	String	Member group ID.

Request Parameters

Table 7-62 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 201

Table 7-63 Response body parameters

Parameter	Type	Description
success	Array MemberBase Dto	Associated members.
failure	Array FailureForBatchCreateGroupMembersDto	Members that fail to be associated.

Table 7-64 MemberBaseDto parameter in the response body

Parameter	Type	Description
id	String	User ID.
name	String	Member name.
iam_id	String	iam_id

Table 7-65 FailureForBatchCreateGroupMembersDto parameter in the response body

Parameter	Type	Description
iam_id	String	User ID.
message	Array String	Failure cause.

Status code: 401**Table 7-66** Response body parameters

Parameter	Type	Description
error_code	String	Response status code.
error_msg	String	Response error information.

Example Requests

POST https://{endpoint}/v4/{project_id}/groups/{group_id}/user-group/{user_group_id}

Example Responses

Status code: 201

OK

```
{
  "success": [
    {
      "id": 10091,
      "name": "paas_codeartsrepo_f30041672_01",
      "iam_id": "4a7049ad346d43419328a37b93b38ad4"
    },
    {
      "id": 9443,
      "name": "CodeHub_fudehua_gray",
      "iam_id": "4a7049ad346d43419328a37b93b38ad4"
    }
  ],
  "failure": []
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "DEV.00000003",
  "error_msg": "Authentication information expired"
}
```

Status Code

Status Code	Description
201	OK

Status Code	Description
401	Unauthorized

Error Codes

See Error Codes.

7.2.8 Setting a Repository to Public or Private (Deprecated)

Function

Set a repository to public or private.

URI

PUT /v1/repositories/{repository_uuid}/template_status

Table 7-67 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Repository ID.

Request Parameters

Table 7-68 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. The user token can be obtained by calling the corresponding IAM API. The value of X-Subject-Token in the response header is the user token.

Table 7-69 Request body parameters

Parameter	Mandatory	Type	Description
templateType	Yes	String	Explanation: Template type Range: • SHARE: personal sample template • PUBLIC: public read-only
codeTitle	No	String	Code template name
creatorName	No	String	Creator name
codeDescription	No	String	Code template description
languages	No	Array of strings	Template Language
platform	No	Array of strings	Template platform
entertype	No	Array of strings	Explanation: Template tag. Range: None

Response Parameters

Status code: 200

Table 7-70 Response body parameters

Parameter	Type	Description
error	Error object	Response error
result	String	Response result
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 7-71 Error

Parameter	Type	Description
code	String	Error codes
message	String	Error message

Request Example

PUT https://{endpoint}/v1/repositories/{repository_uuid}/template_status

```
{
  "templateType": "SHARE",
  "codeTitle": "exampleTitle",
  "creatorName": "exampleName",
  "codeDescription": "exampleDescription",
  "languages": ['Java'],
  "platform": ['Console'],
  "entertype": ['AI']
}
```

Response Example

Status code: 200

OK

```
{
  "result" : null,
  "error" : null,
  "status" : "success"
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See [error codes](#).

7.2.9 Obtaining the List of Public Sample Templates (Deprecated)

Function

Obtain the list of public sample templates.

NOTE

This API has been deprecated. Use the API described in [Template Repository List](#).

URI

GET /v1/repositories/repository_templates

Table 7-72 Query parameters

Parameter	Mandatory	Type	Description
platform	No	String	Template platform type
language	No	String	Language
pipeline	No	String	Whether pipelines are supported
entertype	No	String	Template tag
search	No	String	Template name
dateorder	No	String	Sort templates by date
usetimeorder	No	String	Sort template by reference times
type	No	String	Explanation: Template visibility Range: • SHARE: personal sample template • PUBLIC: public read-only
region	No	String	Region name
page_no	Yes	Integer	Page number
page_size	Yes	Integer	Number of data records on each page

Request Parameters

Table 7-73 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. The user token can be obtained by calling the corresponding IAM API. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-74 Response body parameters

Parameter	Type	Description
error	Error object	Response error
result	TemplateRepositoryList object	Response result
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 7-75 Error

Parameter	Type	Description
code	String	Error codes
message	String	Error message

Table 7-76 TemplateRepositoryList

Parameter	Type	Description
projects	Array of TemplateRepository objects	Template list
total	Integer	Total number of template

Table 7-77 TemplateRepository

Parameter	Type	Description
id	Integer	Template unique ID
name	String	Template name
template_name	String	Name of the repository associated with the template

Parameter	Type	Description
tags	Array of strings	Template tag
description	String	Template description
brief_introduction	String	Template overview
auto_pending_pipelines	Integer	Whether to automatically create a pipeline
language	String	Template language category
created_at	String	Template creation time
used_times	Integer	Reference time
liked_times	Integer	Likes
creator_name	String	Template creator
https_url	String	Template HTTPS link

Request Example

GET https://{endpoint}/v1/repositories/repository_templates

Response Example

Status code: 200

OK

```
{
  "result": {
    "projects": [ {
      "id": 453613,
      "name": "javaMavenDemo",
      "template_name": "javaMavenDemo",
      "tags": ["UnsupportedPipeline", "OTHERS", " Kunpeng ARM64"],
      "description": "javaMavenDemo",
      "brief_introduction": "javaMavenDemo",
      "auto_pending_pipelines": 0,
      "language": "OTHERS",
      "created_at": "Sep 25, 2019 4:03:31 PM",
      "used_times": 58,
      "liked_times": 1,
      "creator_name": "Codehub",
      "https_url": "https://codehub.alpha.devcloud.intest.com/chentest00001/javaMavenDemo.git"
    } ],
    "total": 100
  },
  "status": "success"
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See [error codes](#).

7.2.10 Adding a Deployment Key (Deprecated)

Function

Add a deployment key.

NOTE

This API has been discarded. Use the API described in [Adding a Deployment Key](#).

URI

POST /v1/repositories/{repository_id}/deploy_keys

Table 7-78 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Repository short ID

Request Parameters

Table 7-79 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. The user token can be obtained by calling the corresponding IAM API. The value of X-Subject-Token in the response header is the user token.

Table 7-80 Request body parameters

Parameter	Mandatory	Type	Description
application	Yes	String	Deployment key source
can_push	Yes	Boolean	Whether the deployment key can be used to push code
key	Yes	String	Deployment key
key_title	Yes	String	Deployment key name

Response Parameters

Status code: 200

Table 7-81 Response body parameters

Parameter	Type	Description
error	Error object	Response error
result	Key object	Response result
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 7-82 Error

Parameter	Type	Description
code	String	Error codes
message	String	Error message

Table 7-83 Key

Parameter	Type	Description
can_push	Boolean	Whether to allow push
created_at	String	Creating time of the deployment key
key	String	Deploy key

Parameter	Type	Description
key_id	String	Deployment key ID Minimum length: 1 Maximum length: 40
key_title	String	Deployment key name

Request Example

```
POST https://{endpoint}/v1/repositories/{repository_id}/deploy_keys
{
  "key_title": "z00464114@SZXG4Z004641141",
  "key": "ssh-rsa AAAAB3NzaC1yXXXXXXXX",
  "can_push": true,
  "application": ""
}
```

Response Example

Status code: 200

OK

```
{
  "result": {
    "key_id": "1034546",
    "key_title": "z00464114@SZXG4Z004641141",
    "key": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAAAAAAAAAAAAA"
  },
  "status": "success"
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See [error codes](#).

7.2.11 Deleting a Repository Deployment Key (Deprecated)

Function

Delete a repository deployment key.

 NOTE

This API has been discarded. Use the API described in [Deleting a Deploy Key from a Repository](#).

URI

DELETE /v1/repositories/{repository_id}/deploy_keys/{key_id}

Table 7-84 Path parameters

Parameter	Mandatory	Type	Description
key_id	Yes	Integer	Deployment key ID
repository_id	Yes	Integer	Repository short ID

Request Parameters

Table 7-85 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. The user token can be obtained by calling the corresponding IAM API. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-86 Response body parameters

Parameter	Type	Description
error	Error object	Response error
result	Boolean	Response result
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 7-87 Error

Parameter	Type	Description
code	String	Error codes
message	String	Error message

Request Example

```
DELETE https://{endpoint}/v1/repositories/{repository_id}/deploy_keys/{key_id}
```

Response Example

Status code: 200

OK

```
{
  "result" : "false",
  "status" : "success"
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See [error codes](#).

7.2.12 Querying a Repository in a Project (Deprecated)

Function

This API is used to query repository details in a project.

NOTE

This API has been deprecated. Use the API in [Querying the Details About a Repository](#).

URI

GET /v1/repositories/{repository_uuid}

Table 7-88 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	UUID of the repository to be viewed

Request Parameters

Table 7-89 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-90 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	RepoInfo object	Response result.
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 7-91 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Table 7-92 RepoInfo

Parameter	Type	Description
createAt	String	Creation time.
groupName	String	Repository group name (The part between the domain name and the project name. Example: In git@example.com:Demo00228/testword.git , the group name is Demo00228 .)
httpUrl	String	https url
id	String	Repository UUID returned by the CreateRepository API. Minimum length: 32 Maximum length: 32
name	String	Repository name. Minimum length: 2 Maximum length: 128
projectId	String	Project UUID Minimum length: 32 Maximum length: 32
projectIsDelete	String	Whether the project is deleted
repold	String	Repository primary key ID Minimum length: 1 Maximum length: 40
sshUrl	String	ssh url
visibilityLevel	Integer	Whether a repository is visible. 0 indicates private repository and 20 indicates public repository
webUrl	String	Web URL access path

Example Requests

```
GET https://{endpoint}/v1/repositories/{repository_uuid}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "id" : "dadb20863d7d4ef8bc0b4740db7358be",
    "repold" : "472210",
```

```
"name" : "testword",
"sshUrl" : "git@example.com:Demo00228/testword.git",
"httpUrl" : "https://example.com/Demo00228/testword.git",
"groupName" : "Demo00228",
"webUrl" : "https://example.com/codehub/472210/home",
"visibilityLevel" : 0,
"createAt" : "2019-10-21 17:49:33",
"projectId" : "4838955a48e2492bbe44b31bc4c272f6",
"projectIsDelete" : "false"
},
"status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Code

See [error codes](#).

7.2.13 Obtaining the Number of Code Commits (Deprecated)

Function

Obtain the number of committed code lines of a specified branch in the code repository on a specified date.

NOTE

This API has been discarded. Use the API described in [Obtaining the Number of Committed Code Lines](#).

URI

GET /v2/repositories/{repository_id}/commit_lines

Table 7-93 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Repository short ID

Table 7-94 Query parameters

Parameter	Mandatory	Type	Description
ref_name	Yes	String	Branch name.

Parameter	Mandatory	Type	Description
begin_date	Yes	String	Start commit date, in the format of yyyy-MM-dd.
end_date	Yes	String	End commit date, in the format of yyyy-MM-dd. The interval between begin_date and end_date cannot exceed 60 days.

Request Parameters

Table 7-95 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-96 Response body parameters

Parameter	Type	Description
error	Error object	Response error
result	Array of CommitStatistic objects	Number of added and deleted code lines.
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 7-97 Error

Parameter	Type	Description
code	String	Error code
message	String	Error message

Table 7-98 CommitStatistic

Parameter	Type	Description
additions	Integer	Number of added lines
deletions	Integer	Number of deleted lines

Example Requests

GET https://{endpoint}/v2/repositories/907199/commit_lines

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "additions" : 9,
    "deletions" : 6
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Code

See [error codes](#).

7.2.14 Obtaining MR Details of a Repository

Function

This API is used to obtain MR details of a repository.

 NOTE

This API has been deprecated. Use the API described in [Obtaining MR Details](#).

URI

GET /v2/repositories/{repository_id}/merge_request/{merge_request_id}

Table 7-99 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation Repository short ID. Constraints Mandatory Range 0-2147483647 Default value None.
merge_request_id	Yes	Integer	Explanation MR ID. Constraints Mandatory Range 0-2147483647 Default value None.

Request Parameters

Table 7-100 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 7-101** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.
result	MergeInfoResult object	Explanation Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-102 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Table 7-103 MergeInfoResult

Parameter	Type	Description
approval_merge_request_approvers	Array of ApprovalMergeRequestApproversItem objects	Explanation Scorer.
author	Author object	Explanation Author.
closed_at	String	Explanation Closing time.
created_at	String	Explanation Creation time.
description	String	Explanation MR description.
devcloud_source_branch	String	Explanation Source branch.
id	Double	Explanation MR ID. Range 0-2147483647
iid	Double	Explanation Sequence number of an MR in the current repository. Range 0-2147483647

Parameter	Type	Description
is_source_branch_exist	Boolean	Explanation Whether the source branch exists.
merge_request_assignee_list	Array of MergeRequestAssigneeListItem objects	Explanation Reviewer.
merge_request_diff	MergeRequestDiff object	Explanation Merge differences.
merge_status	String	Explanation Whether an MR can be merged. Range can_be_merged : Yes cannot_be_merged : No unchecked : Not yet checked cannot_be_merged_recheck : No, and currently being checked
source_branch	String	Explanation Source branch.
state	String	Explanation MR status. Range The value can be any one of the following: opened : The MR is open. closed : The MR is closed. merged : The MR has been merged. locked : The MR is locked.
target_branch	String	Explanation Target branch.
title	String	Explanation Title.
updated_at	String	Explanation Update time.
merged_at	String	Explanation Merging time.
merged_by	MergedByUser object	Explanation Merger.

Parameter	Type	Description
merge_request_related_work_items	Array of MergeRequestRelatedWorkItem objects	Explanation Associated work items.

Table 7-104 ApprovalMergeRequestApproversItem

Parameter	Type	Description
id	Double	Explanation User ID.
name	String	Explanation Username.
nick_name	String	Explanation User alias.
state	String	Explanation User status.
username	String	Explanation IAM user ID.

Table 7-105 Author

Parameter	Type	Description
id	Double	Explanation User ID.
name	String	Explanation Username.
state	String	Explanation User status.
username	String	Explanation IAM user ID.

Table 7-106 MergeRequestAssigneeListItem

Parameter	Type	Description
id	Double	Explanation User ID.
name	String	Explanation Username.
state	String	Explanation User status.
username	String	Explanation IAM user ID.

Table 7-107 MergeRequestDiff

Parameter	Type	Description
merge_request_id	Double	Explanation MR ID. Range 0-2147483647
created_at	String	Explanation Creation time.
updated_at	String	Explanation Update time.
base_commit_sha	String	Explanation Base commit.
head_commit_sha	String	Explanation Head commit.
start_commit_sha	String	Explanation Start commit.
commits_count	Double	Explanation Number of commits.

Table 7-108 MergedByUser

Parameter	Type	Description
id	Double	Explanation User ID.
name	String	Explanation Username.
state	String	Explanation User status.
username	String	Explanation IAM user ID.
avatar_url	String	Explanation Profile picture URL.
web_url	String	Explanation Homepage URL.

Table 7-109 MergeRequestRelatedWorkItem

Parameter	Type	Description
id	Double	Explanation Work item ID.
user_id	String	Explanation User ID.
repo_id	Double	Explanation Repository ID.
merge_request_id	Double	Explanation MR ID.
target_branch	String	Explanation Target branch
source_branch	String	Explanation Source branch
merge_request_title	String	Explanation MR title
merge_request_url	String	Explanation MR URL

Parameter	Type	Description
merge_request_state	String	Explanation MR status Range The value can be any one of the following: opened : The MR is open. closed : The MR is closed. merged : The MR has been merged. locked : The MR is locked.
related_id	String	Explanation Associated work item ID.
related_title	String	Explanation Associated work item title
related_url	String	Explanation Associated work item URL
result	Double	Explanation Query result
create_at	String	Explanation Creation time.
update_at	String	Explanation Update time.

Example Requests

GET https://{endpoint}/v2/repositories/907199/merge_request/9011

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "iid" : 1,
    "approval_merge_request_approvers" : [ {
      "nick_name" : "emily",
      "name" : "emily",
      "id" : 7513,
      "state" : "optional",
      "username" : "0c1de3e61c80d56b1f7dc01164788784"
    }, {
      "nick_name" : "lmpctest02",
      "name" : "lmpctest02",
      "id" : 7745,
      "state" : "optional",
      "username" : "2ef8c2c835424e988ff33a8339ee1cb4"
    }
  ]
}
```

```
    } ],
    "description" : "merge \"branch123\" into \"master\"\\nCreate the dsadsad11 file.",
    "created_at" : "2021-12-08T16:34:49.000+08:00",
    "title" : "tesafrds.",
    "source_branch" : "branch123",
    "updated_at" : "2021-12-09T11:21:02.000+08:00",
    "id" : 6670,
    "state" : "opened",
    "closed_at" : "2021-12-08T16:34:50.000+08:00",
    "author" : {
      "name" : "repo",
      "id" : 6879,
      "state" : "active",
      "username" : "e0c068bf68c44bfab87b763ff85da277"
    },
    "is_source_branch_exist" : true,
    "target_branch" : "master",
    "merge_status" : "unchecked",
    "merge_request_diff" : {
      "merge_request_id" : 6670,
      "head_commit_sha" : "715fc146292edc31a588fbc74349a2b8d18dbc27",
      "updated_at" : "2021-12-09T11:20:58.000+08:00",
      "start_commit_sha" : "02f0482056d3b949699eb69683914466c84529af",
      "created_at" : "2021-12-09T11:20:58.000+08:00",
      "base_commit_sha" : "6e90282f6334433a9fe3be809a7c1eed1afbf10b",
      "commits_count" : 2
    },
    "devcloud_source_branch" : "branch123",
    "merge_request_assignee_list" : [ {
      "name" : "Flying snow in June",
      "id" : 6743,
      "state" : "active",
      "username" : "a618e34bd5704be3ae3395dfede06041"
    }, {
      "name" : "General administrator account",
      "id" : 6747,
      "state" : "active",
      "username" : "42dd0277cfb048dea856e4ee352e937d"
    } ],
    "merged_at" : "2023-08-14T20:51:51.000+08:00",
    "merged_by" : {
      "id" : "9124",
      "name" : "CodeHub_beta_dev",
      "username" : "c369c68f1ff84679b5a8ed904d8bff1c",
      "state" : "active",
      "avatar_url" : "",
      "web_url" : "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c"
    },
    "merge_request_related_work_items" : [ {
      "id" : 7343,
      "user_id" : "9124",
      "repo_id" : 2111746921,
      "merge_request_id" : 20637,
      "target_branch" : "master",
      "source_branch" : "test123",
      "merge_request_url" : "https://test.com/codehub/2111746921/18/mergedetail?source=test123&target=master",
      "merge_request_state" : "opened",
      "related_id" : "6437435",
      "related_title" : "msm-0115-1000",
      "related_url" : "https://test.com/projectman/scrum/e76c13e86364438d9183ca2f395371e1/task/detail/6437435",
      "result" : 1,
      "create_at" : "2023-09-18T20:29:59.000+08:00",
      "update_at" : "2023-09-18T20:29:59.000+08:00"
    } ]
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.15 Obtaining the Merge Request List (Deprecated)

Function

If a user is a member of a specified repository, the user can use this API to query the merge request list of the repository.

URI

GET /v2/repositories/{repository_id}/merge_request

Table 7-110 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation Repository ID. Go to the code page of the repository to view it. Constraints None. Range 0-2147483647 Default value None.

Table 7-111 Query parameters

Parameter	Mandatory	Type	Description
state	No	String	Explanation MR status. Constraints None. Range • opened: The MR is open. • closed: The MR is closed. • merged: The MR has been merged. • locked: The MR is locked. • all: MRs in any status. Default value all
page	No	String	Explanation Page index. Constraints None. Range 1-2147483647 Default value 1
per_page	No	Integer	Explanation Number of merge requests displayed on each page. Constraints None. Range 0-2147483647 Default value 20

Parameter	Mandatory	Type	Description
search	No	String	Explanation Character string contained in MR titles or descriptions. Constraints None. Range Max. 100 characters. Default value None.

Request Parameters

Table 7-112 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range The length range of the character string is [1,100000]. Default value None.

Response Parameters

Status code: 200

Table 7-113 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.

Parameter	Type	Description
result	MergeResult object	Explanation Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-114 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Table 7-115 MergeResult

Parameter	Type	Description
closed	Double	Explanation Number of closed MRs. Range 0-2147483647
merge_requests	Array of MergeRequestsItem objects	Explanation MR list.
merged	Double	Explanation Number of merged MRs. Range 0-2147483647

Parameter	Type	Description
opened	Double	Explanation Number of open MRs. Range 0–2147483647
total	Double	Explanation Total number of MRs. Range 0–2147483647

Table 7-116 MergeRequestsItem

Parameter	Type	Description
author	Author object	Explanation MR author.
closed_at	String	Explanation Time when an MR was closed.
created_at	String	Explanation Time when an MR was created.
description	String	Explanation MR description.
devcloud_source_branch	String	Explanation MR source branch.
id	Double	Explanation MR ID. Range 0–2147483647
iid	Double	Explanation Sequence number of an MR in the current repository. Range 0–2147483647
merge_request_assignee_list	Array of Author objects	Explanation MR reviewer information.

Parameter	Type	Description
merge_status	String	Explanation Whether an MR can be merged. Range • can_be_merged: Yes • cannot_be_merged: No • unchecked: Not checked • cannot_be_merged_recheck: No, checking
source_branch	String	Explanation MR source branch name.
state	String	Explanation MR status. Range The value can be any one of the following: • opened: The MR is open. • closed: The MR is closed. • merged: The MR has been merged. • locked: The MR is locked.
target_branch	String	Explanation MR target branch name.
title	String	Explanation MR title.
updated_at	String	Explanation Last update time of an MR.

Table 7-117 Author

Parameter	Type	Description
id	Double	Explanation User ID.
name	String	Explanation Username.
state	String	Explanation User status.
username	String	Explanation IAM user ID.

Parameter	Type	Description
avatar_url	String	Explanation Profile picture URL.
web_url	String	Explanation Web URL.

Example Requests

```
GET https://{endpoint}/v2/repositories/907199/merge_request
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "total" : 1,
    "merge_requests" : [ {
      "iid" : 1,
      "description" : "merge \"branch123\" into \"master\"\\nCreate the dsadsad11 file",
      "created_at" : "2021-12-08T16:34:49.000+08:00",
      "title" : "tesafrds.",
      "source_branch" : "branch123",
      "updated_at" : "2021-12-08T16:39:24.000+08:00",
      "id" : 6670,
      "state" : "opened",
      "closed_at" : "2021-12-08T16:34:50.000+08:00",
      "author" : {
        "name" : "repo",
        "id" : 1234,
        "state" : "active",
        "username" : "e0c068bf68c44bfab87b763ff85da277"
      },
      "target_branch" : "master",
      "merge_status" : "can_be_merged",
      "devcloud_source_branch" : "branch123",
      "merge_request_assignee_list" : [ {
        "name" : "Example account",
        "id" : 3333,
        "state" : "active",
        "username" : "a618e34bd5704be3ae3395dfede06041"
      }, {
        "name" : "Example account",
        "id" : 6747,
        "state" : "active",
        "username" : "42dd0277cfb048dea856e4ee352e937d"
      } ]
    } ],
    "merged" : 0,
    "closed" : 0,
    "opened" : 1
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.16 Creating a Protected Branch (Deprecated)

Function

This API is used to create a protected branch.

NOTE

This API has been deprecated. Use the API described in [Creating Protected Branches in a Repository](#).

URI

PUT /v2/repositories/{repository_id}/branch/{branch_name}/protect

Table 7-118 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Repository primary key ID.
branch_name	Yes	String	Branch name.

Request Parameters

Table 7-119 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 7-120 Request body parameters

Parameter	Mandatory	Type	Description
access_level	Yes	AddProtectAccessLevel object	Permission to create a protected branch.

Table 7-121 AddProtectAccessLevel

Parameter	Mandatory	Type	Description
push_access_level	Yes	Integer	Commit permission. 0 : No one is allowed to commit. 30 : Developers and administrators can commit. 40 : Administrators can commit. Enumerated values: • 0 • 30 • 40
merge_access_level	Yes	Integer	Merge permission. 0 : No one can merge; 30 : developers and administrators can merge; 40 : administrators can merge. The merge permission must be greater than or equal to the commit permission. Enumerated values: • 0 • 30 • 40

Response Parameters

Status code: 200

Table 7-122 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	AddProtectResponse object	Response result.

Parameter	Type	Description
status	String	Explanation: Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 7-123 Error

Parameter	Type	Description
code	String	Error Codes
message	String	Error message.

Table 7-124 AddProtectResponse

Parameter	Type	Description
name	String	Branch name.
commit	CommitRepo V2 object	Commit message.
protected	Boolean	Protected or not.
developers_can_push	Boolean	Whether a developer can commit.
developers_can_merge	Boolean	Whether a developer can merge.
master_can_push	Boolean	Whether an administrator can commit.
master_can_merge	Boolean	Whether an administrator can merge.
no_one_can_push	Boolean	No one can commit.
no_one_can_merge	Boolean	No one can merge.
in_an_opened_merge_request	Boolean	Whether it is in an open MR.

Table 7-125 CommitRepoV2

Parameter	Type	Description
id	String	SHA ID of a commit.
short_id	String	Short SHA ID of a commit.
created_at	String	Creation time.
title	String	Commit title.
parent_ids	Array of strings	Parent commit ID.
message	String	Commit message.
author_name	String	Author.
committer_name	String	Committer.
committed_date	String	Commit time.

Example Requests

```
PUT https://{endpoint}/v2/repositories/{repository_id}/branch/{branch_name}/protect
{
  "access_level" : {
    "push_access_level" : 40,
    "merge_access_level" : 40
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "name" : "master",
    "commit" : {
      "id" : "3b68902cf0eb7de3d5c8757e4a990bc3fe0af349",
      "short_id" : "3b68902c",
      "title" : "Create a file",
      "created_at" : "2022-03-08T03:14:39.000Z",
      "parent_ids" : [ "08618c900a4048aae7e4cd88913d3d521eae02eb" ],
      "message": " Create a file",
      "author_name" : "repo",
      "committer_name" : "repo",
      "committed_date" : "2022-03-08T03:14:39.000Z"
    },
    "protected" : true,
    "developers_can_push" : false,
    "developers_can_merge" : false,
    "master_can_push" : false,
    "master_can_merge" : false,
    "no_one_can_push" : true,
  }
}
```



```
"no_one_can_merge" : true,  
  "in_an_opened_merge_request" : false  
},  
"status" : "success"  
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.17 Querying Details About a Repository (Deprecated)

Function

This API is used to obtain details about a repository by UUID (returned by the CreateRepository API). The returned information contains the ID, name, repo group name, and repository access URL.

NOTE

This API has been deprecated. Use the API in [Querying the Details About a Repository](#).

URI

GET /v2/repositories/{repository_uuid}

Table 7-126 Path parameter

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation: Repository UUID. Constraints: Mandatory Range 32 characters. Default value None

Request Parameters

Table 7-127 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 7-128** Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error.
result	RepoInfoV2 object	Explanation: Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-129 Error

Parameter	Type	Description
code	String	Explanation: Error Codes Range See Error Codes.
message	String	Explanation: Error message. Range Character string

Table 7-130 RepoInfoV2

Parameter	Type	Description
created_at	String	Explanation: Creation time. Range Character string
creator_name	String	Explanation: Username of the creator. If the user is a tenant, the username is the same as the tenant name. Range Character string
domain_name	String	Explanation: Tenant name of the creator. Range Character string
group_name	String	Explanation: Repository group name (the segment between the domain name and repository name in a clone address. Example: Demo00228 in git@example.com:Demo00228/testword.git). Range Character string

Parameter	Type	Description
https_url	String	Explanation: URL for cloning repositories using HTTPS. Range Character string
iam_user_uid	String	Explanation: IAM user UUID. Range Character string
is_owner	Integer	Explanation: Whether the current user is the repository creator. Range • 1: Yes • 0: No
lfs_size	String	Explanation: Repository LFS capacity in MB. If the capacity is greater than 1,024 MB, the unit is GB. Range Character string
project_is_deleted	String	Explanation: Whether the project is deleted. Range Character string
project_uuid	String	Explanation: Project ID. For details, see Obtaining a Project ID . Range Character string
repository_id	Integer	Explanation: Repository primary key ID. Range 1-2,147,483,647
repository_name	String	Explanation: Repository name. Range Character string

Parameter	Type	Description
repository_size	String	Explanation: Total repository capacity = Repository LFS capacity + Git repository capacity. The unit is MB. If the capacity is greater than 1,024 MB, the unit is GB. Range Character string
repository_uuid	String	Explanation: Repository UUID returned by the CreateRepository API. Range Character string
ssh_url	String	Explanation: URL for cloning repositories using SSH. Range Character string
star	Boolean	Explanation: Whether you have followed the repository. Range • true: Followed • false: Not followed
status	Integer	Explanation: Repository status. Range • 0: The repository has been created. • 1: The repository is being created. • 2: The creation failed. • 3: The repository is frozen. • 4: The repository is closed.
updated_at	String	Explanation: Update time. Range Character string

Parameter	Type	Description
userRole	Integer	Explanation: Your permissions for the repository. Range • 20: Read-only member • 30: Common member • 40: Administrator
visibility_level	Integer	Explanation: Visibility. Range • 0: Private repository • 20: Public repository
web_url	String	Explanation: Web URL. If you access it, the repository details page is displayed. Range Character string

Example Requests

```
GET https://{endpoint}/v2/repositories/{repository_uuid}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "repository_uuid" : "045ceabb9aea40579d5a759e84fa7f0a",
    "repository_id" : 468485,
    "repository_name" : "CreatRepository_MI9Af",
    "ssh_url" : "git@example.com:Demo00228/CreatRepository_MI9Af.git",
    "https_url" : "https://example.com/Demo00228/CreatRepository_MI9Af.git",
    "group_name" : "Demo00228",
    "web_url" : "https://example.com/repo/468485/home",
    "visibility_level" : 0,
    "created_at" : "2019-10-15 09:40:27",
    "updated_at" : null,
    "repository_size" : null,
    "lfs_size" : null,
    "creator_name" : null,
    "domain_name" : null,
    "star" : null,
    "status" : null,
    "is_owner" : null,
    "iam_user_uuid" : null,
    "project_uuid" : "4838955a48e2492bbe44b31bc4c272f6",
    "project_is_deleted" : "false",
    "userRole" : null
  },
}
```

```
"status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.2.18 Obtaining the List of Public Sample Templates (Deprecated)

Function

This API is used to obtain the list of public sample templates.

 NOTE

This API has been deprecated. Use the API described in [Template Repository List](#).

URI

GET /v2/repositories/repository-templates

Table 7-131 Query parameters

Parameter	Mandatory	Type	Description
platform	No	String	Template platform type.
language	No	String	Language.
pipeline	No	String	Whether pipelines are supported.
enter_type	No	String	Template category.
search	No	String	Template name.
date_order	No	String	Templates date order.
used_time_order	No	String	Template reference time.
type	No	String	Template visibility.
region	No	String	Region name.
page_no	Yes	Integer	Page number.

Parameter	Mandatory	Type	Description
page_size	Yes	Integer	Number of data records on each page.

Request Parameters

Table 7-132 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200

Table 7-133 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	TemplateRepositoryList object	Response result.
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 7-134 Error

Parameter	Type	Description
code	String	Error Codes
message	String	Error message.

Table 7-135 TemplateRepositoryList

Parameter	Type	Description
projects	Array of TemplateRepository objects	Template list.
total	Integer	Total number of templates.

Table 7-136 TemplateRepository

Parameter	Type	Description
id	Integer	Template unique ID.
name	String	Template name.
template_name	String	Name of the repository associated with the template.
tags	Array of strings	Template tag.
description	String	Template description.
brief_introduction	String	Template overview.
auto_pending_pipelines	Integer	Whether to automatically create a pipeline.
language	String	Template language category.
created_at	String	Template creation time.
used_times	Integer	Template reference time.
liked_times	Integer	Likes.
creator_name	String	Template creator.
https_url	String	Template HTTPS link.

Example Requests

```
GET https://{endpoint}/v2/repositories/repository-templates?page_no=1&page_size=10
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "projects": [ {
      "id": 453613,
      "name": "javaMavenDemo",
      "template_name": "javaMavenDemo",
      "tags": [ "UnsupportedPipeline", "OTHERS", "Kunpeng ARM64" ],
      "description": "javaMavenDemo",
      "brief_introduction": "javaMavenDemo",
      "auto_pending_pipelines": 0,
      "language": "OTHERS",
      "created_at": "Sep 25, 2019 4:03:31 PM",
      "used_times": 58,
      "liked_times": 1,
      "creator_name": "repo",
      "https_url": "https://example.com/chentest00001/javaMavenDemo.git"
    } ],
    "total": 100
  },
  "status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.3 Commit

7.3.1 Querying a Specific Commit of a Repository (Deprecated)

Function

This API is used to obtain a specific commit by commit ID, branch name, or tag name.

NOTE

This API has been deprecated. Use the API in [Obtaining Specific Commit Information](#).

URI

GET /v2/projects/{repo_id}/repository/commits/{sha}

Table 7-137 Path parameters

Parameter	Mandatory	Type	Description
repo_id	Yes	Integer	Repository short ID.
sha	Yes	String	Commit ID, which is the branch or tag name of the repository.

Table 7-138 Query parameters

Parameter	Mandatory	Type	Description
stats	No	Boolean	It includes commit statistics. The default value is true .

Request Parameters

Table 7-139 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-140 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	SpecificCommitInfo object	Response result.

Parameter	Type	Description
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-141 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Table 7-142 SpecificCommitInfo

Parameter	Type	Description
id	String	SHA ID of a commit.
short_id	String	Short SHA ID of a commit.
title	String	Commit title.
author_name	String	Author.
author_email	String	Author email.
committer_name	String	Committer.
committer_email	String	Committer email.
created_at	String	Creation time.
message	String	Commit message.
parent_ids	Array of strings	Parent commit ID.
committed_date	String	Commit time.
authored_date	String	Author commit time.
stats	stats object	Number of changed lines.

Parameter	Type	Description
last_pipeline	last_pipeline object	Pipeline information.

Table 7-143 stats

Parameter	Type	Description
additions	Integer	Number of lines added in changes.
deletions	Integer	Number of lines deleted in changes.
total	Integer	Total number of changed lines.

Table 7-144 last_pipeline

Parameter	Type	Description
id	Integer	Pipeline ID.
sha	String	SHA ID of a commit.
ref	String	Branch name.
status	String	Pipeline status.
web_url	String	Pipeline URL.

Example Requests

```
GET https://{endpoint}/v2/projects/859341/repository/commits/master
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "id": "85a0a9d5c6e43bc9c3e443ac01f789e24eeef02b",
    "title": "some commit message",
    "message": "some commit message",
    "short_id": "85a0a9d5",
    "author_name": "repo",
    "author_email": null,
    "committer_name": "repo",
    "committer_email": null,
    "created_at": "2021-09-26T03:44:51.000Z",
    "parent_ids": [ "5c114bb316dff4d4a046e09a5c44c816f2433140" ],
    "committed_date": "2021-09-26T03:44:51.000Z",
    "authored_date": null,
    "stats": {
      "additions": 1,
```

```
{
  "deletions" : 0,
  "total" : 1
},
"last_pipeline" : {
  "id" : 292811,
  "sha" : "2202af08836f0afd762d1b151d15ac510b974bdf",
  "ref" : "master",
  "status" : "running",
  "web_url" : "https://test.com/Pipeline_Beta_sdc00001/202107171926/pipelines/292811"
}
},
"status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.3.2 Querying the Commit Difference Information of a Repository (Deprecated)

Function

This API is used to query commit difference information by commit ID.

NOTE

This API has been deprecated. Use the API in [Obtaining Commit Differences](#).

URI

GET /v2/projects/{repo_id}/repository/commits/{sha}/diff

Table 7-145 Path parameters

Parameter	Mandatory	Type	Description
repo_id	Yes	Integer	Explanation Repository short ID. Constraints Mandatory Range 0-2147483647 Default value None
sha	Yes	String	Explanation Commit ID, which is the branch or tag name of the repository. Constraints Mandatory Range Minimum length: 40 characters Maximum length: 40 characters Default value None

Request Parameters

Table 7-146 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 7-147** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.
result	Array of DiffCommitInfo objects	Explanation Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-148 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Table 7-149 DiffCommitInfo

Parameter	Type	Description
old_path	String	Explanation Old file path.
new_path	String	Explanation New file path.
a_mode	String	Explanation Old file mode.
b_mode	String	Explanation New file mode.
new_file	Boolean	Explanation Whether to add files during the modification.
renamed_file	Boolean	Explanation Whether to rename a file during the modification.
deleted_file	Boolean	Explanation Whether to delete files during the modification.
diff	Boolean	Difference information.

Example Requests

GET https://{endpoint}/v2/projects/859341/repository/commits/master/diff

Example Responses

Status code: 200

OK

```
{
  "result": [ {
    "diff": "@@ -1,4 +1,7 @@\n y_mr_0721\n+\n+[CloudIDE Executed successfully](./image/screenshot.PNG)\n+\n edwwd\n # css \n **hhrh**",
    "old_path": "README.md",
    "new_path": "README.md",
    "a_mode": "100644",
    "b_mode": "100644",
    "new_file": false,
    "renamed_file": false,
    "deleted_file": false
  } ],
  "status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.3.3 Creating a Commit (Deprecated)

Function

This API is used to commit multiple files in different directories at a time. If the directory does not exist, the system automatically creates a directory. The forcible overwrite option is supported. When the forcible overwrite flag is set to **true**, the conflict is ignored and the configuration is forcibly committed.

NOTE

This API has been discarded. Use the API described in [Creating Commit Information](#).

URI

POST /v2/projects/{repo_id}/repository/commits

Table 7-150 Path parameters

Parameter	Mandatory	Type	Description
repo_id	Yes	Integer	Explanation Repository short ID. Constraints Mandatory Range 0–2147483647 Default value None

Request Parameters

Table 7-151 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Table 7-152 Request body parameters

Parameter	Mandatory	Type	Description
branch	Yes	String	Explanation Target branch. Constraints Mandatory Range Minimum length: 1 Maximum length: 200 Default value None
commit_message	Yes	String	Explanation Commit message. Constraints Mandatory Range Minimum length: 0 characters Maximum length: 2,000 characters Default value None
start_branch	No	String	Explanation Name of the new branch. Constraints None. Range Minimum length: 1 Maximum length: 200 Default value None

Parameter	Mandatory	Type	Description
actions	Yes	Array of CommitAction objects	Explanation Commit processing list. Constraints None. Range Minimum length: 1 Maximum length: 100 characters Default value None
author_email	No	String	Explanation Committer email address.
author_name	No	String	Explanation Committer name
stats	No	Boolean	Explanation Whether to include commit statistics. The default value is true .
force	No	Boolean	Explanation Whether to overwrite the target branch. When the value is true , overwrite the target branch with a new commit based on start_branch.

Table 7-153 CommitAction

Parameter	Mandatory	Type	Description
action	Yes	String	Explanation Operations to be performed: create, delete, move, update, and chmod. Constraints Mandatory Range create, delete, move, update, chmod Default value None

Parameter	Mandatory	Type	Description
file_path	Yes	String	Explanation Complete path of the file. For example, lib/class.rb . Constraints Mandatory Range None. Default value None
previous_path	No	String	Explanation Original full path of the file to be moved. For example, lib/class1.rb . This parameter is valid only when the move operation is performed. Constraints None. Range None. Default value None
content	No	String	Explanation File content. This parameter is mandatory for the create and update operations. A move operation that does not specify content retains the existing file content, and any other value of the content overwrites the file content. Constraints None. Range None. Default value None

Parameter	Mandatory	Type	Description
encoding	No	String	Explanation File encoding: text and base64 . The default value is text . Constraints None. Range None. Default value None
last_commit_id	No	String	Explanation Last known commit ID. This parameter is valid only when the update, move, or delete operation is performed. Constraints None. Range None. Default value None
execute_filemode	No	Boolean	Explanation Enable or disable the execution mode of a file. This parameter is valid only when the chmod operation is executed. Constraints None. Range None. Default value None

Response Parameters

Status code: 200

Table 7-154 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.
result	CreateCommitResponseBody object	Explanation Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-155 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Table 7-156 CreateCommitResponseBody

Parameter	Type	Description
id	String	Explanation SHA ID of a commit.
short_id	String	Explanation Short SHA ID of a commit.
title	String	Explanation Commit title.
author_name	String	Explanation Author.

Parameter	Type	Description
author_email	String	Explanation Author email.
committer_name	String	Explanation Committer.
committer_email	String	Explanation Committer email.
created_at	String	Explanation Creation time.
message	String	Explanation Commit message.
parent_ids	Array of strings	Explanation Parent commit ID.
committed_date	String	Explanation Commit time.
authored_date	String	Explanation Author commit time.
stats	stats object	Explanation Statistics.

Table 7-157 stats

Parameter	Type	Description
additions	Integer	Explanation Number of lines added in changes.
deletions	Integer	Explanation Number of lines deleted in changes.
total	Integer	Explanation Total number of changed lines.

Example Requests

```
POST https://{endpoint}/v2/projects/859341/repository/commits
{
  "branch": "master",
  "commit_message": "some commit message",
  "actions": [ {
    "action": "create",
```

```
"file_path" : "test001.txt",  
"content" : "some content"  
}]  
}
```

Example Responses

Status code: 200

OK

```
{  
  "result" : {  
    "id" : "85a0a9d5c6e43bc9c3e443ac01f789e24eeef02b",  
    "title" : "some commit message",  
    "message" : "some commit message",  
    "short_id" : "85a0a9d5",  
    "author_name" : "repo",  
    "author_email" : null,  
    "committer_name" : "repo",  
    "committer_email" : null,  
    "created_at" : "2021-09-26T03:44:51.000Z",  
    "parent_ids" : [ "5c114bb316dff4d4a046e09a5c44c816f2433140" ],  
    "committed_date" : "2021-09-26T03:44:51.000Z",  
    "authored_date" : null,  
    "stats" : {  
      "additions" : 1,  
      "deletions" : 0,  
      "total" : 1  
    }  
  },  
  "status" : "success"  
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.4 Webhook

7.4.1 Deleting a Webhook of a Specified Repository (Deprecated)

Function

This API is used to delete a webhook of a specified repository.

 NOTE

This API has been deprecated. Use the API in [Deleting a Webhook in a Repository](#).

URI

DELETE /v1/repositories/{group_name}/{repository_name}/hooks/{hook_id}

Table 7-158 Path parameters

Parameter	Mandatory	Type	Description
group_name	Yes	String	Repository group name (the segment between the domain name and repository name in a clone address. Example: Demo00228 in git@example.com:Demo00228/testword.git).
hook_id	Yes	Integer	ID of a hook to be deleted from a specified repository.
repository_name	Yes	String	Repository name.

Request Parameters

Table 7-159 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-160 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	Object	Response result.

Parameter	Type	Description
status	String	Explanation: Response status of the API. Range: • success: The API call is successful. • failed: The API call failed.

Table 7-161 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Example Requests

```
null  
DELETE https://{endpoint}/v1/repositories/{group_name}/{repository_name}/hooks/{hook_id}
```

Example Responses

Status code: 200

OK

```
{  
  "result" : "",  
  "status" : "success"  
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.4.2 Adding a Webhook to a Specified Repository (Deprecated)

Function

This API is used to add a webhook for a specified repository.

NOTE

This API has been deprecated. Use the API in [Adding a Webhook in a Repository](#) instead.

URI

POST /v1/repositories/{group_name}/{repository_name}/hooks

Table 7-162 Path parameters

Parameter	Mandatory	Type	Description
group_name	Yes	String	Repository group name (the segment between the domain name and repository name in a clone address. Example: Demo00228 in git@repo.alpha.devcloud.intest.com:Demo00228/testword.git).
repository_name	Yes	String	Repository name.

Request Parameters

Table 7-163 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 7-164 Request body parameters

Parameter	Mandatory	Type	Description
hook_url	Yes	String	Trigger URL.
service	Yes	String	Event source.
token	No	String	Security token.
hook_events	Yes	Array of strings	Trigger events.

Response Parameters

Status code: 200

Table 7-165 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	RepoHook object	Response result.
status	String	Explanation: Response status. Range: • success: The API call is successful. • failed: The API call failed.

Table 7-166 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Table 7-167 RepoHook

Parameter	Type	Description
build_events	Boolean	Whether to trigger build_events.
created_at	String	Repository statistics creation time.

Parameter	Type	Description
enable_ssl_verification	Boolean	Whether to use SSL authentication.
id	Integer	Hook ID.
issues_events	Boolean	Whether to trigger issues_events.
merge_requests_events	Boolean	Whether to trigger merge_requests_events.
note_events	Boolean	Whether to trigger note_events.
pipeline_events	Boolean	Whether to trigger pipeline_events.
project_id	Integer	Repository ID.
push_events	Boolean	Whether to trigger push_events.
repository_update_events	Boolean	Whether to trigger repository_update_events.
tag_push_events	Boolean	Whether to trigger tag_push_events.
wiki_page_events	Boolean	Whether to trigger wiki_page_events.

Example Requests

```
POST https://{endpoint}/v1/repositories/{group_name}/{repository_name}/hooks
{
  "service" : 11,
  "token" : "test",
  "hook_url" : "https://alpha.devcloud.intest.com/",
  "hook_events" : [ "push_events" ]
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "id" : 5609,
    "project_id" : 453489,
    "created_at" : "2019-10-23 17:29:56",
    "enable_ssl_verification" : false,
    "push_events" : true,
    "tag_push_events" : false,
    "repository_update_events" : false,
    "merge_requests_events" : false,
    "issues_events" : false,
    "note_events" : false,
    "pipeline_events" : false,
  }
}
```

```
"wiki_page_events" : false,  
"build_events" : null  
},  
"status" : "success"  
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.4.3 Querying a Webhook of a Specified Repository (Deprecated)

Function

This API is used to obtain a webhook of a specified repository.

NOTE

This API has been deprecated. Use [Obtaining Webhooks of a Repository](#) instead.

URI

GET /v1/repositories/{group_name}/{repository_name}/hooks

Table 7-168 Path parameters

Parameter	Mandatory	Type	Description
group_name	Yes	String	Explanation: Project ID (the segment between the domain name and repository name in a clone address. Example: 2bc940921d964b86951950f5de1axxxx in git@example.com:2bc940921d964b86951950f5de1axxxx/testword.git). Constraints None. Range: 32 digits and letters. Default value None.
repository_name	Yes	String	Explanation: Repository name. Constraints None. Range: 2–255 characters, including letters, digits, underscores (_), hyphens (-), periods (.). Default value None.

Table 7-169 Query parameters

Parameter	Mandatory	Type	Description
hook_id	No	String	Explanation: Webhook ID. Constraints None. Range: 0–2147483647 Default value None.

Request Parameters

Table 7-170 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range: 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 7-171** Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error. Range: None.
result	RepoListHook object	Explanation: Response result. Range: None.
status	String	Explanation: Response status of the API. Range: • success: The API call is successful. • failed: The API call failed.

Table 7-172 Error

Parameter	Type	Description
code	String	Explanation: Error code returned when the API fails to be called. Range: • CH.010117: The specified repository does not exist. Check the request parameters. • CH.051020: Failed to query the repository webhook. Check the webhook ID.
message	String	Explanation: Error message returned when the API fails to be called.

Table 7-173 RepoListHook

Parameter	Type	Description
hooks	Array of RepoHook objects	Repository webhook list.

Table 7-174 RepoHook

Parameter	Type	Description
id	Integer	Webhook ID.
project_id	Integer	Repository ID.
created_at	String	Time when the webhook was created.
enable_ssl_verification	Boolean	Whether to use SSL authentication.
push_events	Boolean	Whether to trigger push_events.
tag_push_events	Boolean	Whether to trigger tag_push_events.
repository_update_events	Boolean	Whether to trigger repository_update_events.
merge_requests_events	Boolean	Whether to trigger merge_requests_events.
issues_events	Boolean	Whether to trigger issues_events.

Parameter	Type	Description
note_events	Boolean	Whether to trigger note_events.
pipeline_events	Boolean	Whether to trigger pipeline_events.
wiki_page_events	Boolean	Whether to trigger wiki_page_events.

Example Requests

GET https://{endpoint}/v1/repositories/{group_name}/{repository_name}/hooks

Example Responses

Status code: 200

OK

```
{
  "result": {
    "hooks": [ {
      "id": 2111600786,
      "project_id": 2111615967,
      "created_at": "2021-11-09 16:35:15",
      "enable_ssl_verification": false,
      "push_events": true,
      "tag_push_events": false,
      "repository_update_events": false,
      "merge_requests_events": false,
      "issues_events": false,
      "note_events": false,
      "pipeline_events": false,
      "wiki_page_events": false
    } ]
  },
  "status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.5 RepoMember

7.5.1 Obtaining All Member Records in a Repository (Deprecated)

Function

This API is used to obtain the member list of a specified repository and search for repository members by keyword.

NOTE

This API has been deprecated. Use the API described in [Obtaining the Repository Member List](#).

URI

GET /v1/repositories/{repository_uuid}/members

Table 7-175 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID, which is obtained by calling the API in Creating a Project and Repository . The returned repositoryUuid field is the UUID. Constraints This field needs to be obtained by calling the API in Creating a Project and Repository . Range 32 digits and letters. Default value None.

Table 7-176 Query parameters

Parameter	Mandatory	Type	Description
page_index	No	Integer	Explanation Page index. Constraints None. Range 1-2147483647 Default value None.
page_size	No	Integer	Explanation Number of repository members displayed on each page. Constraints None. Range 1-100 Default value 100
subject	No	String	Explanation Keyword for fuzzy search by username, user alias, and tenant name. Constraints None. Range 128 characters. Default value None.

Request Parameters

Table 7-177 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints None. Range String length: 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 7-178** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.
result	RepositoryMemberList object	Explanation Response result.
status	String	Explanation Response status of the API. Range ● success: The API call is successful. ● failed: The API call failed.

Table 7-179 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None.

Table 7-180 RepositoryMemberList

Parameter	Type	Description
total	Integer	Total number of repository members.
users	Array of RepositoryMember objects	Repository member list.

Table 7-181 RepositoryMember

Parameter	Type	Description
description	String	Explanation Repository member description. Range
domain_id	String	Explanation Tenant ID. Range String length: 8 or 32 characters.
domain_name	String	Explanation Tenant name. Range
email	String	Explanation Email address of the repository member.

Parameter	Type	Description
enabled	String	Explanation Whether a member is available. Range
name	String	Username.
role	Integer	Repository user permission: 30 : Common member. 40 : Administrator.
user_id	String	User ID. Minimum length: 4 Maximum length: 32
iam_id	String	IAM user ID Minimum length: 16 Maximum length: 32

Example Requests

GET https://{endpoint}/v1/repositories/{repository_uuid}/members

Example Responses

Status code: 200

OK

```
{
  "result": {
    "total": 2,
    "users": [ {
      "user_id": "5836",
      "name": "repo",
      "domain_name": "repo",
      "description": null,
      "enabled": null,
      "role": 40,
      "domain_id": "159b65b41ead484d8ddff250a4731781",
      "email": null
    }, {
      "user_id": "6057",
      "name": "repo",
      "domain_name": "repo",
      "description": null,
      "enabled": null,
      "role": 30,
      "domain_id": "159b65b41ead484d8ddff250a4731781",
      "email": null
    } ]
  },
  "status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.5.2 Setting a Role for a Member in the Repository

Function

This API is used to assign repository operation permissions to repository members.

URI

PUT /v1/repositories/{repository_uuid}/members/{member_id}

Table 7-182 Path parameters

Parameter	Mandatory	Type	Description
member_id	Yes	String	User ID.
repository_uuid	Yes	String	Repository UUID returned by the CreateRepository API.

Request Parameters

Table 7-183 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Table 7-184 Request body parameters

Parameter	Mandatory	Type	Description
role	Yes	Integer	Repository member permission: 20 : Read-only member. 30 : Common member. 40 : Administrator. Enumerated values: • 20 • 30 • 40

Response Parameters

Status code: 200

Table 7-185 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	Object	Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-186 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Example Requests

```
PUT https://{endpoint}/v1/repositories/{repository_uuid}/members/{member_id}
{
  "role" : "40"
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : { },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.5.3 Adding a Repository Member (Deprecated)

Function

This API is used to add a repository member.

NOTE

This API has been discarded. Use the API described in [Adding Repository Members in Batches](#) instead.

URI

POST /v1/repositories/{repository_uuid}/members

Table 7-187 Path parameters

Parameter	Mandatory	Type	Description
repository_uuid	Yes	String	Explanation Repository UUID returned by the CreateRepository API. Constraints Mandatory Range 32 digits and letters. Default value None

Request Parameters

Table 7-188 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range None Default value None

Table 7-189 Request body parameters

Parameter	Mandatory	Type	Description
users	No	Array of RepoMemberInfo objects	Information list of added users.

Table 7-190 RepoMemberInfo

Parameter	Mandatory	Type	Description
domain_id	No	String	Explanation Tenant ID. Constraints None Range Minimum length: 8 Maximum length: 32 Default value None

Parameter	Mandatory	Type	Description
domain_name	No	String	Explanation Tenant name. Constraints None Range None Default value None
id	Yes	String	Explanation ID of the added user. Constraints Mandatory Range Minimum length: 4 Maximum length: 32 Default value None
name	Yes	String	Explanation Added username. Constraints Mandatory Range None Default value None
role	Yes	Integer	Explanation User permissions. Constraints Mandatory Range 20 : Viewer. 30 : Common member. 40 : Administrator. Default value None

Response Parameters

Status code: 200

Table 7-191 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	Array of CreateRepoMemberResult objects	Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-192 Error

Parameter	Type	Description
code	String	Error code.
message	String	Error message.

Table 7-193 CreateRepoMemberResult

Parameter	Type	Description
id	String	User ID. Minimum length: 32 Maximum length: 32
message	String	Information of the added repository member.
name	String	Username.
status	String	Explanation: Status of the added repository member. Range • success: the resource tenant was added successfully. • failed: adding failed.

Example Requests

```
POST https://{endpoint}/v1/repositories/{repository_uuid}/members
```

```
{
  "users" : [ {
    "id" : "87b3dc2019f04ee788cb635eb26154ca",
    "role" : 30,
    "name" : "repo"
  } ]
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "id" : "87b3dc2019f04ee788cb635eb26154ca",
    "name" : null,
    "message" : "add user success",
    "status" : "success"
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.6 Verifying the Repository Name of a Specified Project

Function

Generally, this interface is called when a repository is created. The project UUID and repository name are transferred to determine whether the repository name is duplicate. The repository exists. result:false: The repository does not exist. result:true: The repository does not exist.

URI

GET /v1/projects/{project_uuid}/repositories/validation/{repository_name}

Table 7-194 Path Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Project UUID.
repository_name	Yes	String	Repository name

Request Parameters

Table 7-195 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-196 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	Boolean	Result
status	String	Status code in a response

Table 7-197 Error

Parameter	Type	Description
code	String	Error Codes
message	String	Error message

Example Requests

```
GET https://{endpoint}/v1/projects/{project_uuid}/repositories/validation/{repository_name}
```

Example Responses

Status code: 200

OK

```
{
  "result" : true,
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.6.1 Verifying HTTPS Account and Password (Deprecated)

Function

This API is used to check whether the username and password entered when you upload or download code using HTTPS are valid.

NOTE

This API has been deprecated. Use the API in [Verifying HTTPS Account and Password](#) instead.

URI

POST /v1/user/{iam_user_uuid}/validateHttpsInfo

Table 7-198 Path parameters

Parameter	Mandatory	Type	Description
iam_user_uuid	Yes	String	Explanation: iamId Range: 32 digits and letters.

Request Parameters

Table 7-199 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints: Mandatory Range: 1–100,000 characters. Default value: None

Table 7-200 Request body parameters

Parameter	Mandatory	Type	Description
pwd	Yes	String	Explanation: HTTPS password Constraints: 8–32 characters. The password must contain at least three types of the following characters: digits, uppercase letters, lowercase letters, and special characters. It cannot be the same as the username or the username spelled backwards.

Response Parameters

Status code: 200

Table 7-201 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error. Range: None
result	String	Explanation: Response result. Range: verificationPassed: The password is correct.
status	String	Explanation: Response status of the API. Range: • success: The API call is successful. • failed: The API call failed.

Table 7-202 Error

Parameter	Type	Description
code	String	Explanation: Error code returned when the API fails to be called. Range: • CH.080002 • CH.010112 • CH.010008
message	String	Explanation: Error code returned when the API fails to be called. Range: • Incorrect password format. • User not found. • Invalid password.

Example Requests

```
POST https://{endpoint}/v1/user/{iam_user_uuid}/validateHttpsInfo
{
  "pwd" : "XXX"
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : "verificationPassed",
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Code

See [error codes](#).

7.7 Create branches

Function

This API is used to create a branch in a specified repository based on the repository ID.

URI

POST /v2/repositories/{repository_id}/branches

Table 7-203 Path Parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	String	Primary key ID of a warehouse.

Request Parameters

Table 7-204 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token.

Table 7-205 Request body parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Branch Name
ref	Yes	String	Source Branch Name

Response Parameters

Status code: 200

Table 7-206 Response body parameters

Parameter	Type	Description
error	Error object	Response error.
result	AddProtectResponse object	Result
status	String	Response Status

Table 7-207 Error

Parameter	Type	Description
code	String	Error Codes
message	String	Error message

Table 7-208 AddProtectResponse

Parameter	Type	Description
name	String	Branch name.
commit	CommitRepoV2 object	Details
protected	Boolean	Whether to protect DWDM.
developers_can_push	Boolean	Allow Developer to Submit
developers_can_merge	Boolean	Allow Developers to Merge
master_can_push	Boolean	Allow Administrator to Submit

Parameter	Type	Description
master_can_merge	Boolean	Indicates whether to allow administrators to merge.
no_one_can_push	Boolean	No one is allowed to submit.
no_one_can_merge	Boolean	No one is allowed to merge.
in_an_opened_merge_request	Boolean	Indicates whether a combination request is opened.

Table 7-209 CommitRepoV2

Parameter	Type	Description
id	String	Submit the corresponding SHA ID.
short_id	String	Submit the corresponding short SHA ID.
created_at	String	Created
title	String	Submit Title
parent_ids	Array of strings	Parent Submission ID
message	String	Details
author_name	String	Author
committer_name	String	Requester
committed_date	String	Submitted

Example Requests

```
{
  "ref": "master",
  "branch_name": "test"
}
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "name": "master",
```

```
"commit" : {
  "id" : "3b68902cf0eb7de3d5c8757e4a990bc3fe0af349",
  "short_id" : "3b68902c",
  "title" : "Creating a File",
  "created_at" : "2022-03-08T03:14:39.000Z",
  "parent_ids" : [ "08618c900a4048aae7e4cd88913d3d521eae02eb" ],
  "message" : "Creating a File",
  "author_name" : "repo",
  "committer_name" : "repo",
  "committed_date" : "2022-03-08T03:14:39.000Z"
},
"protected" : true,
"developers_can_push" : false,
"developers_can_merge" : false,
"master_can_push" : false,
"master_can_merge" : false,
"no_one_can_push" : true,
"no_one_can_merge" : true,
"in_an_opened_merge_request" : false
},
"status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.7.1 Obtaining the List of Repositories that Can Be Set to Public in a Project (Deprecated)

Function

Obtain the list of repositories that can be set to the public state under a project.

 NOTE

This API has been deprecated. Use the API in [Obtaining the List of Repositories that Can Be Set to Public in a Project](#).

URI

GET /v1/projects/{project_uuid}/repositories/template_status

Table 7-210 Path parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Project ID.

Table 7-211 Query parameters

Parameter	Mandatory	Type	Description
page_no	No	Integer	Page number
page_size	No	Integer	Number of data records on each page

Request Parameters

Table 7-212 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200

Table 7-213 Response body parameters

Parameter	Type	Description
error	Error object	Response error
result	TemplateListInfo object	Response result
status	String	Explanation: Response status of the API. Range: • success: The API call is successful. • failed: The API call failed.

Table 7-214 Error

Parameter	Type	Description
code	String	Error codes

Parameter	Type	Description
message	String	Error message

Table 7-215 TemplateListInfo

Parameter	Type	Description
repos	Array of DevstarRepoInfo objects	Repository List
total_count	Integer	Total number of repositories

Table 7-216 DevstarRepoInfo

Parameter	Type	Description
uuid	String	Repository UUID
repo_id	String	Repository ID
repo_name	String	Repository name
ssh_url	String	Repository SSH address
code_url	String	Repository HTTPS address
detail_url	String	Repository preview address

Request Example

GET https://{endpoint}/v1/projects/{project_uuid}/repositories/template_status

Response Example

Status code: 200

OK

```
{
  "result": {
    "repos": [ {
      "uuid": "36f532939c4b4e2191c10f5353ccf34c",
      "repo_id": 487773,
      "repo_name": "DDDDDDDD",
      "ssh_url": "git@codehub.alpha.devcloud.intest.com:CHEN_TEST00001/DDDDDDDD.git",
      "code_url": "https://codehub.alpha.devcloud.intest.com/CHEN_TEST00001/DDDDDDDD.git",
      "detail_url": "https://alpha.devcloud.intest.com/codehub/487773/home"
    } ],
    "total_count": 100
  },
  "status": "success"
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See [error codes](#).

7.7.2 Obtaining Information About All Repositories in a Project (Deprecated)

Function

Obtain the repository list. Fuzzy query is supported: If ***project_id*** is not specified, fuzzy search by repository name or project name is supported. Otherwise, only fuzzy search by repository name is supported.

NOTE

This API has been deprecated. Use the API in [Obtaining the Repository Group and Repository List of a Project](#) instead.

URI

GET /v1/projects/{project_uuid}/repositories

Table 7-217 Path parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Project UUID

Table 7-218 Query parameters

Parameter	Mandatory	Type	Description
page_index	No	Integer	Page index, starting from 1
page_size	No	Integer	Record number on each page.
search	No	String	Search keyword

Request Parameters

Table 7-219 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200**Table 7-220** Response body parameters

Parameter	Type	Description
error	Error object	Response error
result	RepoListInfo object	Response result
status	String	Explanation: Response status of the API. Range: • success: The API call is successful. • failed: The API call failed.

Table 7-221 Error

Parameter	Type	Description
code	String	Error codes
message	String	Error message

Table 7-222 RepoListInfo

Parameter	Type	Description
repositorys	Array of RepoInfo objects	Repository List

Parameter	Type	Description
total	Integer	Total number of repositories

Table 7-223 RepoInfo

Parameter	Type	Description
createAt	String	Creation time
groupName	String	Repository group name
httpUrl	String	HTTPS URL
id	String	Repository UUID Minimum length: 32 Maximum length: 32
name	String	Repository name. Minimum length: 2 Maximum length: 128
projectId	String	Project UUID Minimum length: 32 Maximum length: 32
projectIsDelete	String	Whether the project is deleted
repold	String	Repository primary key ID Minimum length: 1 Maximum length: 40
sshUrl	String	SSH URL
visibilityLevel	Integer	Whether a repository is visible. 0 indicates private repository and 20 indicates public repository
webUrl	String	Web URL access path

Request Example

```
GET https://{endpoint}/v1/projects/{project_uuid}/repositories
```

Response Example

Status code: 200

OK

```
{  
  "result" : {
```

```
{
  "total" : 1,
  "repositories" : [ {
    "id" : "d0457f74cc5b43d989ded7248f71b4e5",
    "repold" : "468480",
    "name" : "CreatRepository_2qD5i",
    "sshUrl" : "git@example.com:Demo00228/CreatRepository_2qD5i.git",
    "httpUrl" : "https://codehub.alpha.devcloud.intest.com/Demo00228/CreatRepository_2qD5i.git",
    "groupName" : "Demo00228",
    "webUrl" : "https://example.com/codehub/468480/home",
    "visibilityLevel" : 0,
    "createAt" : "2019-10-15 09:40:26",
    "projectId" : "4838955a48e2492bbe44b31bc4c272f6",
    "projectIsDelete" : "false"
  } ],
  "status" : "success"
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See [error codes](#).

7.7.3 Querying All Repositories of a User

Function

This API is used to obtain all repository information of a user.

URI

GET /v2/projects/repositories

Table 7-224 Query parameters

Parameter	Mandatory	Type	Description
page_index	No	Integer	Explanation: Page index. Range: Minimum value: 1 Maximum value: 2147483647 Default value: 1

Parameter	Mandatory	Type	Description
page_size	No	Integer	Explanation: Number of records on each page. Range: Minimum value: 1 Maximum value: 100 Default value: 100
search	No	String	Explanation: Search keyword. Range: 1–512 characters. Default value: Empty.

Request Parameters

Table 7-225 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation: User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints: Mandatory Range: 1–100,000 characters. Default value: None

Response Parameters

Status code: 200

Table 7-226 Response body parameters

Parameter	Type	Description
error	Error object	Explanation: Response error. Range: None
result	RepoListInfoV2 object	Explanation: Response result. Range: None
status	String	Explanation: Response status of the API. Range: • success: The API call is successful. • failed: The API call failed.

Table 7-227 Error

Parameter	Type	Description
code	String	Explanation: Error code returned when the API fails to be called. Range: • CH.080002
message	String	Explanation: Error code returned when the API fails to be called. Range: • CH.080002: Invalid parameter.

Table 7-228 RepoListInfoV2

Parameter	Type	Description
repositories	Array of RepoInfoV2 object	Explanation: Repository list.

Parameter	Type	Description
total	Integer	Explanation: Total number of repositories. Range: 0–2147483647

Table 7-229 RepoInfoV2

Parameter	Type	Description
created_at	String	Explanation: Creation time. Constraints: Format: yyyy-MM-dd HH:mm:ss
creator_name	String	Explanation: Name of the creator. Range: 128 digits and letters.
domain_name	String	Explanation: Tenant name of the creator. Range: 128 digits and letters.
group_name	String	Explanation: Repository group name (the segment between the domain name and repository name in a clone address). Example: Demo00228 in git@repo.alpha.devcloud.test.com:Demo00228/testword.git Range: 2–255 characters.
https_url	String	Explanation: HTTPS repository address. Range: Max. 2,000 characters.
iam_user_uid	String	Explanation: IAM user ID. Range: 32 digits and letters.

Parameter	Type	Description
is_owner	Integer	Explanation: Whether the user is the repository creator. Range: 1: Yes 0: No
lfs_size	String	Explanation: Repository LFS capacity. Constraints: Measured in MB or GB, with two decimal places.
project_is_deleted	String	Explanation: Whether the project has been deleted. Range: false: No true: Yes
project_uuid	String	Explanation: Project ID. For details, see Obtaining a Project ID . Range: 32 digits and letters.
repository_id	Integer	Explanation: Repository ID. Range: 0-2147483647
repository_name	String	Explanation: Repository name. Range: 2-255 characters.
repository_size	String	Explanation: Total repository capacity = Repository LFS capacity + Git repository capacity. Constraints: Measured in MB or GB, with two decimal places.

Parameter	Type	Description
repository_uuid	String	Explanation: Repo UUID, which is returned by the CreateRepository API. Constraints: 32 digits and letters.
ssh_url	String	Explanation: SSH repository address. Range: Max. 2,000 characters.
star	Boolean	Explanation: Whether you have followed the repository. Range: false: No true: Yes
status	Integer	Explanation: Repository status. Range: 0: The repository has been created. 1: The repository is being created. 2: The creation failed. 3: The repository is frozen. 4: The repository is closed.
updated_at	String	Explanation: Update time. Constraints: Format: yyyy-MM-dd HH:mm:ss
userRole	Integer	Explanation: Your role in the repository. Constraints: 20: Read-only member 30: Common member 40: Administrator
visibility_level	Integer	Explanation: Repository visibility. Range: 0: Private repository 20: Public repository

Parameter	Type	Description
web_url	String	Explanation: Web URL, which redirects you to the repository details page. Range: Max. 2,000 characters.

Example Requests

```
GET https://{endpoint}/v2/projects/repositories
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "total" : 29,
    "repositories" : {
      "repository_uuid" : "0bf1e7ceb5b341318cb72b42901abe54",
      "repository_id" : 468564,
      "repository_name" : "test",
      "ssh_url" : "git@repo.alpha.devcloud.test.com:test_new00001/test.git",
      "https_url" : "https://repo.alpha.devcloud.test.com/test_new00001/test.git",
      "group_name" : "test_new00001",
      "web_url" : "https://alpha.devcloud.test.com/repo/468564/home",
      "visibility_level" : 0,
      "created_at" : "2019-10-15 11:00:11",
      "updated_at" : "2019-10-15 11:00:11",
      "repository_size" : "0.05M",
      "lfs_size" : "0.00M",
      "creator_name" : "repo",
      "domain_name" : "repo",
      "star" : true,
      "status" : 0,
      "is_owner" : 1,
      "iam_user_uuid" : "a618e34bd5704be3ae3395dfede06041",
      "project_uuid" : "dc19b3ca6f334ce894a1ec467689797d",
      "project_is_deleted" : "false",
      "userRole" : null
    }
  },
  "status" : "success"
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.8 File

7.8.1 Querying File Information of a Repository (Deprecated)

Function

Obtain file information in the repository, such as the name, size, and content. Note that the file content is encoded using Base64.

NOTE

This API has been deprecated. Use the API described in [Viewing File Attributes and Content](#) instead.

URI

GET /v2/projects/{repo_id}/repository/files/{file_path}

Table 7-230 Path parameters

Parameter	Mandatory	Type	Description
repo_id	Yes	Integer	Repository short ID
file_path	Yes	String	Full path of the new URL-encoded file.

Table 7-231 Query parameters

Parameter	Mandatory	Type	Description
ref	Yes	String	Commit ID, which is the branch name or tag name of the repository.

Request Parameters

Table 7-232 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token.

Response Parameters

Status code: 200**Table 7-233** Response body parameters

Parameter	Type	Description
error	Error object	Response error
result	Array of FileContentInfo objects	Difference list
status	String	Explanation: Response status Range: • success: The API call is successful. • failed: The API call failed.

Table 7-234 Error

Parameter	Type	Description
code	String	Error codes
message	String	Error message

Table 7-235 FileContentInfo

Parameter	Type	Description
file_name	String	File name

Parameter	Type	Description
file_path	String	File path
size	Integer	File size
encoding	String	Document code
content_sha256	String	SHA256-encoded file content
ref	String	Branch name.
blob_id	String	Blob sha
commit_id	String	SHA ID of a commit
last_commit_id	String	SHA ID corresponding to the last commit
content	String	Base64-encoded file content

Request Example

GET https://{endpoint}/v2/projects/859341/repository/files/README%2Emd?ref=master

Response Example

Status code: 200

OK

```
{
  "result": [ {
    "size": 9,
    "encoding": "base64",
    "ref": "master",
    "content": "NDU0NTQ1NDQ1",
    "file_name": "README.md",
    "file_path": "README.md",
    "content_sha256": "e16f4f6c41a79d120484774a625bea8a3c3dcb655aa7c7e793ac48639dc63944",
    "blob_id": "3325fa3142fd66fedc8c3a5218b417f561e0ea2f",
    "commit_id": "a772945ec2765e322cc83e0f467f394effa22cf3",
    "last_commit_id": "a772945ec2765e322cc83e0f467f394effa22cf3"
  } ],
  "status": "success"
}
```

Status Codes

Status Codes	Description
200	OK

Error Codes

See [error codes](#).

7.9 Repository Management (V2)

7.9.1 Creating a Branch

Function

This API is used to create a branch in a specified repository based on the repository ID.

 NOTE

This API has been discarded. Use the API described in [Creating a Branch](#).

URI

POST /v2/repositories/{repository_id}/branches

Table 7-236 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	String	Explanation Repository short ID. Constraints Mandatory Range 0-2147483647 Default value None

Request Parameters

Table 7-237 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Table 7-238 Request body parameters

Parameter	Mandatory	Type	Description
branch_name	Yes	String	Explanation Branch name. Constraints Mandatory Range Minimum length: 1 Maximum length: 200 Default value None
ref	Yes	String	Explanation Source branch name. Constraints Mandatory Range Minimum length: 1 Maximum length: 200 Default value None

Response Parameters

Status code: 200

Table 7-239 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.
result	AddProtectResponse object	Explanation Response result.
status	String	Explanation Response status of the API. Range • success: The API call is successful. • failed: The API call failed.

Table 7-240 Error

Parameter	Type	Description
code	String	Explanation Error code. Range Max. 100 characters in the error code format.
message	String	Explanation Error message. Range None

Table 7-241 AddProtectResponse

Parameter	Type	Description
name	String	Explanation Branch name.
commit	CommitRepoV2 object	Explanation Commit message.
protected	Boolean	Explanation Whether to protect it.

Parameter	Type	Description
developers_can_push	Boolean	Explanation Whether a developer can commit.
developers_can_merge	Boolean	Explanation Whether a developer can merge.
master_can_push	Boolean	Explanation Whether an administrator can commit.
master_can_merge	Boolean	Explanation Whether an administrator can merge.
no_one_can_push	Boolean	Explanation No one can commit.
no_one_can_merge	Boolean	Explanation No one can merge.
in_an_opened_merge_request	Boolean	Explanation Whether it is in an open MR.

Table 7-242 CommitRepoV2

Parameter	Type	Description
id	String	Explanation SHA ID of a commit.
short_id	String	Explanation Short SHA ID of a commit.
created_at	String	Explanation Creation time.
title	String	Explanation Commit title.
parent_ids	Array of strings	Explanation Parent commit ID.
message	String	Explanation Commit message.
author_name	String	Explanation Author.

Parameter	Type	Description
committer_name	String	Explanation Committer.
committed_date	String	Explanation Commit time.

Example Requests

```
{
  "ref" : "master",
  "branch_name" : "test"
}
```

Example Responses

Status code: 200

OK

```
{
  "result" : {
    "name" : "master",
    "commit" : {
      "id" : "3b68902cf0eb7de3d5c8757e4a990bc3fe0af349",
      "short_id" : "3b68902c",
      "title" : "Create a file",
      "created_at" : "2022-03-08T03:14:39.000Z",
      "parent_ids" : [ "08618c900a4048aae7e4cd88913d3d521eae02eb" ],
      "message" : "Create a file",
      "author_name" : "repo",
      "committer_name" : "repo",
      "committed_date" : "2022-03-08T03:14:39.000Z"
    },
    "protected" : true,
    "developers_can_push" : false,
    "developers_can_merge" : false,
    "master_can_push" : false,
    "master_can_merge" : false,
    "no_one_can_push" : true,
    "no_one_can_merge" : true,
    "in_an_opened_merge_request" : false
  },
  "status" : "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

See Error Codes.

7.10 Review

7.10.1 Creating MR Review Comments (Deprecated)

Function

This API is used to create an MR review comment.

 NOTE

This API has been deprecated. Use the API described in [Creating Merge Request Review Comments](#).

URI

POST /v2/repositories/{repository_id}/merge_requests/{merge_request_id}/discussions

Table 7-243 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation Repository ID. Constraints Mandatory Range Minimum value: 1 Maximum value: 2147483647
merge_request_id	Yes	Integer	Explanation MR IID (MR sequence number in the repository). Constraints Mandatory Range Minimum value: 1 Maximum value: 2147483647

Request Parameters

Table 7-244 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Table 7-245 Request body parameters

Parameter	Mandatory	Type	Description
body	Yes	String	Explanation Review comment. Constraints Mandatory Range Maximum length: 8,000 characters. Characters: Unicode \u0000 to \uffff. Special characters, such as emojis and uncommon characters, are not supported. Blank: The value cannot be null, an empty string, or only spaces.

Parameter	Mandatory	Type	Description
severity	No	String	Explanation Severity. Non-suggestion reviews cannot be resolved by the assignee, MR creator, or committer. Range Not passed or not an enumerated value. The default value is suggestion . • suggestion • minor • major • fatal
assignee_id	No	String	Explanation Assigner ID. The value can be a user ID or username. Range Max. 255 characters.
review_categories	No	String	Explanation Review comment type. Constraints Only the configured types can be used. To configure a review type, choose Settings > Policy Settings > Review Comments .
review_modules	No	String	Explanation Review comment module. Constraints Only the configured modules can be used. To configure a review type, choose Settings > Policy Settings > Review Comments .
proposer_id	No	String	Explanation Reviewer ID. The value can be a user ID or username. Range Max. 255 characters.

Parameter	Mandatory	Type	Description
position	No	PositionDto object	Explanation Code location information to associate the comment with. Range None.
lineTypes	No	String	Explanation Mode in which the comment is provided. Range • new: On the right of the file comparison result. • old: On the left of the file comparison result.

Table 7-246 PositionDto

Parameter	Mandatory	Type	Description
base_sha	No	String	Explanation Base commit node of the source branch. Range 40 digits and letters.
start_sha	No	String	Explanation Latest commit node of the target branch. Range 40 digits and letters.
head_sha	No	String	Explanation Latest commit node of the source branch. Range 40 digits and letters.
old_path	No	String	Explanation Old file path. Range None.

Parameter	Mandatory	Type	Description
new_path	No	String	Explanation New file path. Range None.
position_type	No	String	Explanation Change type. Range None. Default value text
old_line	No	Integer	Explanation Line number before change. If the value is less than or equal to 0 or is null, the line is new and displayed in green on the right for comparison. Range -1 to 2147483647 or null
new_line	No	Integer	Explanation New line No. If the value is less than or equal to 0 or is null, the line is deleted and displayed in red on the left for comparison. Range -1 to 2147483647 or null

Response Parameters

Status code: 200

Table 7-247 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.

Parameter	Type	Description
result	MergeRequestDiscussionDto object	Explanation Review comment information. Range None.
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 7-248 Error

Parameter	Type	Description
code	String	Explanation Error code returned when the API fails to be called. Range • CH.10000. The system is busy. Try again later.
message	String	Explanation Error message returned when the API fails to be called. Range • The system is busy. Try again later.

Table 7-249 MergeRequestDiscussionDto

Parameter	Type	Description
id	String	Explanation ID shared by the main comment and reply, which is generally called discussion_id . Range 40 digits and letters.

Parameter	Type	Description
individual_note	Boolean	Explanation Whether the comment is individual and does not need resolution by others. Range • true: Yes • false: No
notes	Array of NoteDto objects	Explanation Main comment and reply list. The first one is the main comment. (This API is used to create a main comment. Therefore, there is only one comment.) Range None.
project_id	Integer	Explanation Repository ID. Range Minimum value: 1 Maximum value: 2147483647
noteable_type	String	Explanation Comment type. Range • MergeRequest: Comment for MR (When you select a commit under an MR and add a review comment, the comment is still of the MergeRequest type). • Commit: Comment for code or a specific commit.
commit_id	String	Explanation Associated commit ID: SHA value of a commit. This field applies when noteable_type is set to Commit . Range 40 digits and letters.
project_full_path	String	Explanation Repository path. Range None.

Parameter	Type	Description
a_mode	String	Explanation Mode of an associated file before the change. If the file is new, the value is 0 . Range File permissions supported by Git, for example, 100644 , 100755 , 120000 , and 160000 .
b_mode	String	Explanation Mode of an associated file after the change. If the file is deleted, the value is 0 . Range File permissions supported by Git, for example, 100644 , 100755 , 120000 , and 160000 .
deleted_file	Boolean	Explanation Whether an associated file is deleted. Range • true: Yes • false or null: No
new_file	Boolean	Explanation Whether an associated file is new. Range • true: Yes • false or null: No
resolved	Boolean	Explanation Whether the review comment has been resolved. Range • true: Yes • false or null: No
archived	Boolean	Explanation Whether the review comment has been archived. Archived comments cannot be edited, deleted, replied, or resolved. Range • true: Yes • false or null: No

Parameter	Type	Description
review_categories	String	Explanation Comment type key. The values of review_categories , review_categories_cn , and review_categories_en must match. Range None.
review_categories_cn	String	Explanation Comment type in Chinese. The values of review_categories and review_categories_cn must match. Range None.
review_categories_en	String	Explanation Comment type in English. The values of review_categories and review_categories_en must match. Range None.
review_modules	String	Explanation Review comment module. Range None.
severity	String	Explanation Review comment severity key. Range ● suggestion ● minor ● major ● fatal
severity_cn	String	Explanation Severity in Chinese. Range ● Suggestion ● Minor ● Major ● Fatal

Parameter	Type	Description
severity_en	String	Explanation Severity in English. Range • Suggestion • Minor • Major • Fatal
assignee	UserBasicDto object	Explanation Assignee details. Range None.
proposer	UserBasicDto object	Explanation Proposer details. Range None.
merge_request_version_params	MergeRequestVersionParamsDto object	Explanation MR version details. Range None.
diff_file	String	Explanation File path change. Range None.
added_lines	Integer	Explanation Number of new lines. Range Minimum value: 0 Maximum value: 2147483647
removed_lines	Integer	Explanation Number of deleted lines. Range Minimum value: 0 Maximum value: 2147483647

Table 7-250 NoteDto

Parameter	Type	Description
id	Integer	Explanation Comment ID, which is not shared by the main comment and replies. Range Minimum value: 1 Maximum value: 2147483647
type	String	Explanation Note type. Range • DiffNote: A comment that needs to be resolved on the file change page. • MergeRequestNote: A comment that needs to be resolved on the details page. • null: A comment that does not need to be resolved on the details page.
body	String	Explanation Review comment content. Range Maximum length: 8,000 characters. Characters: Unicode \u0000 to \uffff. Special characters, such as emojis and uncommon characters, are not supported. Blank: The value cannot be null, an empty string, or only spaces.
attachment	String	Explanation Attachment. (This field has been discarded.) Range None.
author	UserBasicDto object	Explanation Author details. Range None.
created_at	String	Explanation Creation time. Constraints Format: yyyy-MM-ddTHH:mm:ss.SSS+08:00

Parameter	Type	Description
updated_at	String	Explanation Update time. Constraints Format: yyyy-MM-ddTHH:mm:ss.SSS+08:00
system	Boolean	Explanation Whether the comment is generated by the system. Range • true: Yes. The comment is created by the system. • false: No. The comment is created by a user.
noteable_id	Integer	Explanation MR ID. Range Minimum value: 1 Maximum value: 2147483647
noteable_type	String	Explanation Comment type. Range • MergeRequest: Comment for MR or CR (When you select a commit under an MR or CR and add a review comment, the comment is still of the MergeRequest type). • Commit: Comment for code or a specific commit.
commit_id	String	Explanation Associated commit ID: SHA value of a commit. This field applies when noteable_type is set to Commit . Range 40 digits and letters.
resolvable	Boolean	Explanation Whether the comment needs to be resolved. Range • true: Yes • false or null: No

Parameter	Type	Description
is_reply	Boolean	Explanation Whether the comment is a reply. Range • true: Yes. The comment is a reply. • false: No. The comment is a main comment.
resolved_by	UserBasicDto object	Explanation Comment resolver. Range None.
noteable_iid	Integer	Explanation MR IID, indicating the sequence number of the MR in the repository. Range Minimum value: 1 Maximum value: 2147483647
discussion_id	String	Explanation Review comment ID, which is shared by the main comment and replies. Range 40 digits and letters.
project	String	Explanation Project path. Range None.
diff_file	String	Explanation File path change. Range None.
diff	String	Explanation File content change. Range None.

Parameter	Type	Description
archived	Boolean	Explanation Whether the review comment has been archived. Archived comments cannot be edited, deleted, replied, or resolved. Range • true: Yes • false or null: No
review_categories	String	Explanation Comment type key. The values of review_categories , review_categories_cn , and review_categories_en must match. Range None.
review_categories_cn	String	Explanation Comment type in Chinese. The values of review_categories and review_categories_cn must match. Range None.
review_categories_en	String	Explanation Comment type in English. The values of review_categories and review_categories_en must match. Range None.
review_modules	String	Explanation Review comment module. Range None.
severity	String	Explanation Severity. Non-suggestion reviews cannot be resolved by the assignee, MR creator, or committer. Range • suggestion • minor • major • fatal

Parameter	Type	Description
severity_cn	String	Explanation Severity in Chinese. Range • Suggestion • Minor • Major • Fatal
severity_en	String	Explanation Severity in English. Range • Suggestion • Minor • Major • Fatal
file_path	String	Explanation File path. (This field has been discarded.) Range None.
line	String	Explanation Line number. (This field has been discarded.) Range None.
assignee	UserBasicDto object	Explanation Assignee details. Range None.
proposer	UserBasicDto object	Explanation Reviewer details. Range None.
position	PositionDto object	Explanation Code location information to associate the comment with. Range None.

Parameter	Type	Description
resolved	Boolean	Explanation Whether the review comment has been resolved. Range • true: Yes • false or null: No
is_outdated	Boolean	Explanation Whether the review comment is for the latest commit. Range • true: Yes • false or null: No

Table 7-251 PositionDto

Parameter	Type	Description
base_sha	String	Explanation Base commit node of the source branch. Range 40 digits and letters.
start_sha	String	Explanation Latest commit node of the source branch. Range 40 digits and letters.
head_sha	String	Explanation Latest commit node of the target branch. Range 40 digits and letters.
old_path	String	Explanation Old file path. Range None.
new_path	String	Explanation New file path. Range None.

Parameter	Type	Description
position_type	String	Explanation Change type. Range None. Default value text
old_line	Integer	Explanation Line number before change. If the value is less than or equal to 0 or is null, the line is new and displayed in green on the right for comparison. Range -1 to 2147483647 or null
new_line	Integer	Explanation New line No. If the value is less than or equal to 0 or is null, the line is deleted and displayed in red on the left for comparison. Range -1 to 2147483647 or null

Table 7-252 UserBasicDto

Parameter	Type	Description
id	Integer	Explanation User ID. Range Minimum value: 1 Maximum value: 2147483647
name	String	Explanation Name. Range Max. 255 characters.
username	String	Explanation Username. Range Max. 255 characters.

Parameter	Type	Description
state	String	Explanation Status. Range Max. 255 characters.
avatar_url	String	Explanation URL for obtaining the profile picture. Range None.
avatar_path	String	Explanation Path for obtaining the profile picture. Range None.
email	String	Explanation Email address. Range None.
name_cn	String	Explanation Chinese name. Constraints The value is the same as that of username . This field has been discarded. Range None.
web_url	String	Explanation Homepage URL. Range None.
nick_name	String	Explanation Alias. Range None.
tenant_name	String	Explanation Tenant name. Range None.

Table 7-253 MergeRequestVersionParamsDto

Parameter	Type	Description
diff_id	Integer	Explanation Each MR version has a unique diff_id . (In this API, the MR version is the latest.) Range Minimum value: 1 Maximum value: 2147483647
start_sha	String	Explanation Latest commit node of the target branch. Range 40 digits and letters.
commit_id	String	Explanation Associated commit ID: SHA value of a commit. This field applies when noteable_type is set to Commit . Range 40 digits and letters.

Example Requests

POST https://{endpoint}/v2/repositories/{repository_id}/merge_requests/{merge_request_iid}/discussions

```
{
  "body": "Review comment",
  "lineTypes": "new",
  "position": {
    "base_sha": "a9ce1513d5185d5fe2bac52c597f204ce695c4be",
    "start_sha": "a9ce1513d5185d5fe2bac52c597f204ce695c4be",
    "head_sha": "53c75fa88dc4e7d0b68d108b7f1ee0a5c4564f44",
    "position_type": "text",
    "new_path": "a.txt",
    "old_path": "a.txt",
    "new_line": 1,
    "old_line": -1
  },
  "assignee_id": 9124,
  "proposer_id": null,
  "severity": "suggestion",
  "review_modules": "Module",
  "review_categories": "Type"
}
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "id": "996f57b8fdd5e62678b16f0ea4f91688405fa72f",
  }
}
```

```
"individual_note": false,
"notes": [
  {
    "id": 2111974336,
    "type": "DiffNote",
    "body": "Review comment",
    "author": {
      "id": 9124,
      "name": "CodeHub_beta_dev",
      "username": "c369c68f1ff84679b5a8ed904d8bff1c",
      "state": "active",
      "avatar_url": "",
      "email": "liujian@example.com",
      "name_cn": "CodeHub_beta_dev",
      "web_url": "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c",
      "nick_name": "Alias",
      "tenant_name": "devcloud_codehub_l00314597_01"
    },
    "created_at": "2024-07-29T22:01:37.000+08:00",
    "updated_at": "2024-07-29T22:01:37.000+08:00",
    "system": false,
    "noteable_id": 38517,
    "noteable_type": "MergeRequest",
    "resolvable": true,
    "is_reply": false,
    "noteable_iid": 18,
    "discussion_id": "996f57b8fdd5e62678b16f0ea4f91688405fa72f",
    "project": "sll_test00006/mr_test",
    "diff_file": "a.txt",
    "diff": "@@ -0,0 +1,0 @@\n+1\r\n",
    "archived": false,
    "review_categories": "Type",
    "review_categories_cn": "Type",
    "review_categories_en": "Type",
    "review_modules": "Module",
    "severity": "suggestion",
    "severity_cn": "Suggestion",
    "severity_en": "Suggestion",
    "assignee": {
      "id": 9124,
      "name": "CodeHub_beta_dev",
      "username": "c369c68f1ff84679b5a8ed904d8bff1c",
      "state": "active",
      "avatar_url": "",
      "email": "liujian@example.com",
      "name_cn": "CodeHub_beta_dev",
      "web_url": "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c",
      "nick_name": "Alias",
      "tenant_name": "devcloud_codehub_l00314597_01"
    },
    "proposer": {
      "id": 9124,
      "name": "CodeHub_beta_dev",
      "username": "c369c68f1ff84679b5a8ed904d8bff1c",
      "state": "active",
      "avatar_url": "",
      "email": "liujian@example.com",
      "name_cn": "CodeHub_beta_dev",
      "web_url": "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c",
      "nick_name": "Alias",
      "tenant_name": "devcloud_codehub_l00314597_01"
    },
    "position": {
      "base_sha": "a9ce1513d5185d5fe2bac52c597f204ce695c4be",
      "start_sha": "a9ce1513d5185d5fe2bac52c597f204ce695c4be",
      "head_sha": "53c75fa88dc4e7d0b68d108b7f1ee0a5c4564f44",
      "old_path": "a.txt",
      "new_path": "a.txt",
      "position_type": "text",
```



```
        "new_line": 1
      },
      "resolved": false,
      "is_outdated": false
    }
  ],
  "project_id": 2111704470,
  "noteable_type": "MergeRequest",
  "project_full_path": "sll_test00006/mr_test",
  "a_mode": "0",
  "b_mode": "100644",
  "deleted_file": false,
  "new_file": true,
  "resolved": false,
  "archived": false,
  "review_categories": "Type",

  "review_categories_en": "Type",
  "review_modules": "Module",
  "severity": "suggestion",

  "severity_en": "Suggestion",
  "assignee": {
    "id": 9124,
    "name": "CodeHub_beta_dev",
    "username": "c369c68f1ff84679b5a8ed904d8bff1c",
    "state": "active",
    "avatar_url": "",
    "email": "liujian@example.com",
    "name_cn": "CodeHub_beta_dev",
    "web_url": "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name": "Alias",
    "tenant_name": "devcloud_codehub_l00314597_01"
  },
  "proposer": {
    "id": 9124,
    "name": "CodeHub_beta_dev",
    "username": "c369c68f1ff84679b5a8ed904d8bff1c",
    "state": "active",
    "avatar_url": "",
    "email": "liujian@example.com",
    "name_cn": "CodeHub_beta_dev",
    "web_url": "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c",
    "nick_name": "Alias",
    "tenant_name": "devcloud_codehub_l00314597_01"
  },
  "merge_request_version_params": {},
  "diff_file": "@@ -0,0 +1,0 @@\n+1\r\n",
  "added_lines": 2,
  "removed_lines": 0
},
"status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error Codes

Status Code	Error Code	Error message.	Description	Measure
400	CH.00401999	'body': The body is out of max length (8,000 characters).	The review comment exceeds 8,000 characters.	Reduce the content.
400	CH.00401015	String cannot contain emoticons or uncommon characters	Only Unicode characters from \u0000 to \uffff can be used. Special characters, such as emojis and uncommon characters, are not supported.	Delete the special characters.
405	CH.00406019	The current MR/CR is not allowed to be reviewed after being merged, change the settings to enable this operation	The MR or CR has been merged. No more review comments can be added.	Choose Settings > Policy Settings > Merge Requests , and select Allow code review and comment for merged or closed MRs .
404	CH.00406026	MR/CR extend not found	No additional MR/CR information is found in the database.	Refresh the page and try again.
400	CH.00406029	The merge/change request is in progress. You cannot add new review comments.	The MR/CR is being merged.	Try again later.

7.10.2 Replying to MR Review Comments (Deprecated)

Function

This API is used to reply to an MR review.

NOTE

This API has been deprecated. Use the API described in [Replying to Merge Request Review Comments](#).

URI

POST /v2/repositories/{repository_id}/merge_requests/{merge_request_iid}/discussions/{discussion_id}/notes

Table 7-254 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation Repository ID. Constraints Mandatory Range Minimum value: 1 Maximum value: 2147483647
merge_request_iid	Yes	Integer	Explanation MR IID (MR sequence number in the repository). Constraints Mandatory Range Minimum value: 1 Maximum value: 2147483647
discussion_id	Yes	String	Comment ID

Request Parameters

Table 7-255 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Table 7-256 Request body parameters

Parameter	Mandatory	Type	Description
body	Yes	String	Explanation Review comment content. Constraints Mandatory Range Maximum length: 8,000 characters. Characters: Unicode \u0000 to \uffff. Special characters, such as emojis and uncommon characters, are not supported. Blank: The value cannot be null, an empty string, or only spaces.

Response Parameters

Status code: 200

Table 7-257 Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.
result	NoteDto object	Explanation Review comment information. Range None.
status	String	Explanation Response status. Range • success: The API call is successful. • failed: The API call failed.

Table 7-258 Error

Parameter	Type	Description
code	String	Explanation Error code returned when the API fails to be called. Range • CH.10000. The system is busy. Try again later.
message	String	Explanation Error message returned when the API fails to be called. Range • The system is busy. Try again later.

Table 7-259 NoteDto

Parameter	Type	Description
id	Integer	Explanation Comment ID, which is not shared by the main comment and replies. Range Minimum value: 1 Maximum value: 2147483647

Parameter	Type	Description
type	String	Explanation Note type. Range • DiffNote: A comment that needs to be resolved on the file change page. • MergeRequestNote: A comment that needs to be resolved on the details page. • null: A comment that does not need to be resolved on the details page.
body	String	Explanation Review comment content. Range Maximum length: 8,000 characters. Characters: Unicode \u0000 to \uffff. Special characters, such as emojis and uncommon characters, are not supported. Blank: The value cannot be null, an empty string, or only spaces.
attachment	String	Explanation Attachment. (This field has been discarded.) Range None.
author	UserBasicDto object	Explanation Author details. Range None.
created_at	String	Explanation Creation time. Constraints Format: yyyy-MM-ddTHH:mm:ss.SSS+08:00
updated_at	String	Explanation Update time. Constraints Format: yyyy-MM-ddTHH:mm:ss.SSS+08:00

Parameter	Type	Description
system	Boolean	Explanation Whether the comment is generated by the system. Range • true: Yes. The comment is created by the system. • false: No. The comment is created by a user.
noteable_id	Integer	Explanation MR ID. Range Minimum value: 1 Maximum value: 2147483647
noteable_type	String	Explanation Comment type. Range • MergeRequest: Comment for MR or CR (When you select a commit under an MR or CR and add a review comment, the comment is still of the MergeRequest type). • Commit: Comment for code or a specific commit.
commit_id	String	Explanation Associated commit ID: SHA value of a commit. This field applies when noteable_type is set to Commit . Range 40 digits and letters.
resolvable	Boolean	Explanation Whether the comment needs to be resolved. Range • true: Yes • false or null: No
is_reply	Boolean	Explanation Whether the comment is a reply. Range • true: Yes. The comment is a reply. • false: No. The comment is a main comment.

Parameter	Type	Description
resolved_by	UserBasicDto object	Explanation Comment resolver. Range None.
noteable_iid	Integer	Explanation MR IID, indicating the sequence number of the MR in the repository. Range Minimum value: 1 Maximum value: 2147483647
discussion_id	String	Explanation Review comment ID, which is shared by the main comment and replies. Range 40 digits and letters.
project	String	Explanation Project path. Range None.
diff_file	String	Explanation File path change. Range None.
diff	String	Explanation File content change. Range None.
archived	Boolean	Explanation Whether the review comment has been archived. Archived comments cannot be edited, deleted, replied, or resolved. Range • true: Yes • false or null: No

Parameter	Type	Description
review_categories	String	Explanation Comment type key. The values of review_categories and review_categories_cn must match. Range None.
review_categories_cn	String	Explanation Comment type in Chinese. The values of review_categories and review_categories_cn must match. Range None.
review_categories_en	String	Explanation Comment type in English. The values of review_categories and review_categories_en must match. Range None.
review_modules	String	Explanation Review comment module. Range None.
severity	String	Explanation Severity. Non-suggestion reviews cannot be resolved by the assignee, MR creator, or committer. Range ● suggestion ● minor ● major ● fatal

Parameter	Type	Description
severity_cn	String	Explanation Severity in Chinese. Range • Suggestion • Minor • Major • Fatal
severity_en	String	Explanation Severity in English. Range • Suggestion • Minor • Major • Fatal
file_path	String	Explanation File path. (This field has been discarded.) Range None.
line	String	Explanation Line number. (This field has been discarded.) Range None.
assignee	UserBasicDto object	Explanation Assignee details. Range None.
proposer	UserBasicDto object	Explanation Reviewer details. Range None.
position	PositionDto object	Explanation Code location information to associate the comment with. Range None.

Parameter	Type	Description
resolved	Boolean	Explanation Whether the review comment has been resolved. Range • true: Yes • false or null: No
is_outdated	Boolean	Explanation Whether the review comment is for the latest commit. Range • true: Yes • false or null: No

Table 7-260 UserBasicDto

Parameter	Type	Description
id	Integer	Explanation User ID. Range Minimum value: 1 Maximum value: 2147483647
name	String	Explanation Name. Range Max. 255 characters.
username	String	Explanation Username. Range Max. 255 characters.
state	String	Explanation Status. Range Max. 255 characters.
avatar_url	String	Explanation URL for obtaining the profile picture. Range None.

Parameter	Type	Description
avatar_path	String	Explanation Path for obtaining the profile picture. Range None.
email	String	Explanation Email address. Range None.
name_cn	String	Explanation Chinese name. Constraints The value is the same as that of username . This field has been discarded. Range None.
web_url	String	Explanation Homepage URL. Range None.
nick_name	String	Explanation Alias. Range None.
tenant_name	String	Explanation Tenant name. Range None.

Table 7-261 PositionDto

Parameter	Type	Description
base_sha	String	Explanation Base commit node of the source branch. Range 40 digits and letters.

Parameter	Type	Description
start_sha	String	Explanation Latest commit node of the source branch. Range 40 digits and letters.
head_sha	String	Explanation Latest commit node of the target branch. Range 40 digits and letters.
old_path	String	Explanation Old file path. Range None.
new_path	String	Explanation New file path. Range None.
position_type	String	Explanation Change type. Range None. Default value text
old_line	Integer	Explanation Line number before change. If the value is less than or equal to 0 or is null, the line is new and displayed in green on the right for comparison. Range -1 to 2147483647 or null
new_line	Integer	Explanation New line No. If the value is less than or equal to 0 or is null, the line is deleted and displayed in red on the left for comparison. Range -1 to 2147483647 or null

Example Requests

```
POST https://{endpoint}/v2/repositories/{repository_id}/merge_requests/{merge_request_iid}/discussions/{discussion_id}/notes

{
  "body": "Reply content"
}
```

Example Responses

Status code: 200

OK

```
{
  "result": {
    "id": 2111974340,
    "type": "DiffNote",
    "body": "Reply content",
    "author": {
      "id": 9124,
      "name": "CodeHub_beta_dev",
      "username": "c369c68f1ff84679b5a8ed904d8bff1c",
      "state": "active",
      "avatar_url": "",
      "email": "liujian@example.com",
      "name_cn": "CodeHub_beta_dev",
      "web_url": "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c",
      "nick_name": "Alias",
      "tenant_name": "devcloud_codehub_l00314597_01"
    },
    "created_at": "2024-07-30T10:47:54.000+08:00",
    "updated_at": "2024-07-30T10:47:54.000+08:00",
    "system": false,
    "noteable_id": 38517,
    "noteable_type": "MergeRequest",
    "resolvable": true,
    "is_reply": true,
    "noteable_iid": 18,
    "discussion_id": "996f57b8fdd5e62678b16f0ea4f91688405fa72f",
    "project": "sll_test00006/mr_test",
    "diff_file": "a.txt",
    "diff": "@@ -0,0 +1,0 @@\n+1\r\n",
    "archived": false,
    "review_categories": "Type",
    "review_categories_cn": "Type",
    "review_categories_en": "Type",
    "review_modules": "Module",
    "severity": "suggestion",
    "severity_cn": "Suggestion",
    "severity_en": "Suggestion",
    "assignee": {
      "id": 9124,
      "name": "CodeHub_beta_dev",
      "username": "c369c68f1ff84679b5a8ed904d8bff1c",
      "state": "active",
      "avatar_url": "",
      "email": "liujian@example.com",
      "name_cn": "CodeHub_beta_dev",
      "web_url": "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c",
      "nick_name": "Alias",
      "tenant_name": "devcloud_codehub_l00314597_01"
    },
    "proposer": {
      "id": 9124,
      "name": "CodeHub_beta_dev",
      "username": "c369c68f1ff84679b5a8ed904d8bff1c",
      "state": "active",

```

```
{
  "avatar_url": "",
  "email": "liujian@example.com",
  "name_cn": "CodeHub_beta_dev",
  "web_url": "https://test.com/c369c68f1ff84679b5a8ed904d8bff1c",
  "nick_name": "Alias",
  "tenant_name": "devcloud_codehub_l00314597_01"
},
"position": {
  "base_sha": "a9ce1513d5185d5fe2bac52c597f204ce695c4be",
  "start_sha": "a9ce1513d5185d5fe2bac52c597f204ce695c4be",
  "head_sha": "53c75fa88dc4e7d0b68d108b7f1ee0a5c4564f44",
  "old_path": "a.txt",
  "new_path": "a.txt",
  "position_type": "text",
  "new_line": 1
},
"resolved": false,
"is_outdated": false
},
"status": "success"
}
```

Status Code

Status Code	Description
200	OK

Error codes

Status Code	Error Code	Error message.	Description	Measure
400	CH.00401999	'body': The body is out of max length (8,000 characters).	The review comment exceeds 8,000 characters.	Reduce the content.
400	CH.00401015	String cannot contain emoticons or uncommon characters	Only Unicode characters from \u0000 to \uffff can be used. Special characters, such as emojis and uncommon characters, are not supported.	Delete the special characters.
404	CH.00406001	MergeRequest Not Found	MR information is not found.	Refresh the MR page and try again.
404	CH.00406048	note not found by noteld	No review comment is found for the associated repository_id , merge_request_iid , and discussion_id .	Check and modify the input parameters .

Status Code	Error Code	Error message.	Description	Measure
404	CH.00406049	incorrect type of note	No review comment is found for the associated repository_id , merge_request_iid , and discussion_id .	Check and modify the input parameters .
404	CH.00406050	note does not belong to this commit or merge request	No review comment is found for the associated repository_id , merge_request_iid , and discussion_id .	Check and modify the input parameters .
405	CH.00406019	The current merge request is not allowed to be reviewed after being merged, change the settings to enable this operation	Adding comments to merged MRs is not allowed.	Modify the MR settings.

7.10.3 Obtaining Review Settings (Deprecated)

Function

This API is used to obtain review settings.

NOTE

This API has been deprecated. Use the API described in [Obtaining Review Settings](#).

URI

GET /v2/repositories/{repository_id}/review_setting

Table 7-262 Path parameters

Parameter	Mandatory	Type	Description
repository_id	Yes	Integer	Explanation Repository ID. Constraints Mandatory Range Minimum value: 1 Maximum value: 2147483647

Request Parameters

Table 7-263 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Explanation User token. It can be obtained by calling the corresponding IAM API . The value of X-Subject-Token in the response header is the user token. Constraints Mandatory Range 1–100,000 characters. Default value None.

Response Parameters

Status code: 200**Table 7-264** Response body parameters

Parameter	Type	Description
error	Error object	Explanation Response error code.
result	ReviewSettingDto object	Explanation Review comment information. Range None.
status	String	Explanation Response status. Range ● success: The API call is successful. ● failed: The API call failed.

Table 7-265 Error

Parameter	Type	Description
code	String	Explanation Error code returned when the API fails to be called. Range CH.10000. The system is busy. Try again later.
message	String	Explanation Error message returned when the API fails to be called. Range The system is busy. Try again later.

Table 7-266 ReviewSettingDto

Parameter	Type	Description
categories_and_modules_enabled	Boolean	Explanation Whether to enable review comment types and modules. Range - true: Yes - false: No
secondary_category_enabled	Boolean	Explanation Whether to enable preset review comment types. Range - true: Yes - false: No. You can select desired types or add custom ones.
primary_categories	Array of CategoryDto objects	Explanation Selected types. Range None.
review_default_categories	Array of strings	Explanation Keys of selected types. Range None.

Parameter	Type	Description
review_customized_categories	Array of strings	Explanation Custom types. Range Max.: 20. Max. length each: 200 characters. Characters: Unicode \u0000 to \uffff. Special characters, such as emojis and uncommon characters, are not supported. Blank: The value cannot be null, an empty string, or only spaces.
review_modules	Array of strings	Explanation Review comment module. Range Max.: 20. Ma. length each: 200 characters. Characters: Unicode \u0000 to \uffff. Special characters, such as emojis and uncommon characters, are not supported. Blank: The value cannot be null, an empty string, or only spaces.
source_id	Integer	Explanation Repository ID. Range Minimum value: 1 Maximum value: 2147483647
source_type	String	Explanation Project type. Currently, only one project type is supported. Range Project
source_path	String	Explanation Repository path. Range None.
secondary_category_type	String	Explanation Preset review comment type (discarded field). Range HiCode

Parameter	Type	Description
secondary_categories	Array of CategoryDto objects	Explanation Preset review comment. Range None.

Table 7-267 CategoryDto

Parameter	Type	Description
key	String	Explanation Key of a preset review comment type. Range None.
name_zh	String	Explanation Name of a preset review comment type in Chinese. Range None.
name_en	String	Explanation Name of a preset review comment type in English. Range None.
sub_categories	Array of CategoryDto objects	Explanation Subtype of a preset review comment type. Range None.

Example Requests

GET https://{endpoint}/v2/repositories/{repository_id}/review_setting

Example Responses

Status code: 200

OK

```
{
  "result": {
    "categories_and_modules_enabled": true,
    "secondary_category_enabled": false,
    "primary_categories": [
```

```
{
  "key": "realize",
  "name_zh": "Algorithm",
  "name_en": "Algorithm"
},
"review_default_categories": [
  "realize"
],
"review_customized_categories": [
  "Type"
],
"review_modules": [
  "Module"
],
"source_id": 2111704470,
"source_type": "Project",
"source_path": "ssl_test00006/mr_test"
},
"status": "success"
}
```

Status Code

Status Code	Description
200	OK