

CodeArts Req

API Reference

Issue 02

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Contents

1 Before You Start.....	1
1.1 Overview.....	1
1.2 Calling Method.....	1
1.3 Endpoints.....	1
1.4 Basic Concepts.....	2
2 API Overview.....	4
3 Calling APIs.....	5
3.1 Making an API Request.....	5
3.2 Authentication.....	8
3.3 Response.....	9
4 APIs.....	12
4.1 Work Items of the Scrum Project.....	12
4.1.1 Creating a Customized Field for a Work Item Type.....	12
4.1.2 Uploading an image.....	15
4.1.3 Obtaining Work Item Completion Rate.....	17
4.1.4 Obtaining Comments on a Specified Work Item.....	20
4.1.5 Querying Labor Hours by User (Single Project).....	23
4.1.6 Querying Labor Hours by User (Multi-Project).....	27
4.1.7 Obtaining the Work Item History.....	31
4.1.8 Create work items.....	34
4.1.9 Querying Work Items of a Project.....	43
4.1.10 Advanced Query Work Item.....	50
4.1.11 Deleting Work Items in Batches.....	59
4.1.12 Querying Work Item Details.....	61
4.1.13 Updating a Work Item.....	69
4.1.14 Deleting a Work Item.....	78
4.1.15 Obtains sub-work items.....	79
4.1.16 Querying Historical Records of All Work Items in a Project.....	87
4.1.17 Querying the Work Item Transfer Configuration of a Scrum Project.....	90
4.1.18 Creating a Work Item as a Fine-grained Permission User.....	93
4.1.19 Queries the work items associated with the current work item.....	102
4.1.20 Queries the associated Wikis associated with the current work item.....	106

4.1.21 Queries the code submission records or branch creation records associated with the current work item.....	109
4.1.22 Querying Associated Wikis.....	113
4.1.23 Querying Customized Fields of Scrum Work Items.....	116
4.1.24 Downloading an Image.....	120
4.1.25 Uploading an Attachment to a Work Item.....	121
4.2 Iteration of the Scrum Project.....	124
4.2.1 Obtaining Sprints of a Specified Project.....	124
4.2.2 Deleting Iterations of Projects in Batches.....	127
4.2.3 Viewing Iteration Details.....	129
4.2.4 Creating a Scrum Project Iteration.....	132
4.2.5 Update Scrum Project Iteration.....	134
4.2.6 Delete Project Iteration.....	137
4.2.7 Viewing Historical Iteration Records.....	138
4.3 User Information.....	142
4.3.1 Obtains the current user information.....	142
4.3.2 Obtains the role of the current user.....	145
4.3.3 Updating a User Nickname.....	147
4.3.4 Updating the Nickname of a Subuser.....	148
4.4 Project members.....	150
4.4.1 Quitting a Project.....	150
4.4.2 Obtaining the Member List of a Specified Project.....	152
4.4.3 Adding Project Members in Batches.....	155
4.4.4 Deleting Project Members in Batches.....	158
4.4.5 Update the role of a member in the project.....	159
4.4.6 Add project members.....	161
4.4.7 AGC calls the current user to apply for joining in a project.....	164
4.5 Project Information.....	165
4.5.1 Updating a Project.....	166
4.5.2 Deleting a Project.....	167
4.5.3 Querying Projects.....	169
4.5.4 Creating a Project.....	173
4.5.5 Obtaining Projects That an Account Has Not Joined.....	176
4.5.6 Check whether the project name exists.....	180
4.5.7 Obtaining Project Details.....	182
4.6 Project Indicators.....	184
4.6.1 Query Per Capita Bug.....	185
4.6.2 On-Time Completion Rate of Query Requirements.....	189
4.6.3 Query Defect Density.....	193
4.7 Project Statistics.....	196
4.7.1 Obtains bug statistics.....	196
4.7.2 Obtaining Requirement Statistics.....	198
4.7.3 Obtaining the Project Overview.....	201

4.8 Modules of the Scrum Project.....	205
4.8.1 Module for Creating a Project.....	205
4.8.2 Querying the Module List of a Project.....	208
4.8.3 Module for Updating a Project.....	212
4.8.4 Module for Deleting a Project.....	215
4.9 Domain of the Scrum Project.....	217
4.9.1 Domain for Creating a Project.....	217
4.9.2 Querying the Domain List of a Project.....	219
4.9.3 Update the domain of the project.....	222
4.9.4 Cancel the association between the domain and the project.....	224
4.10 Scrum Project Statuses.....	226
4.10.1 Querying the Project Status List.....	226
5 Application Examples.....	230
5.1 Example 1: Obtaining the Project List of CodeArts Req.....	230
5.2 Example 2: Querying the Iteration List of a Specified Project.....	231
5.3 Example 3: Querying Comments on Work Items of a User.....	232
6 Appendixes.....	235
6.1 Status Codes.....	235
6.2 Error Codes.....	238
6.3 Obtaining a Project ID.....	245
6.4 Obtaining an Account ID.....	246
7 Change History.....	247

1 Before You Start

1.1 Overview

CodeArts is an agile project management and collaboration service for software development teams. You can use Scrum projects to manage sprints and requirements, track bugs, host documents in the cloud, and gain insights from reports.

This document describes how to use application programming interfaces (APIs) to perform operations in CodeArts Req, such as creating, deleting, or querying tasks. For details about all supported operations, see [API Overview](#).

Before calling CodeArts APIs, ensure that you are familiar with basic CodeArts Req concepts ([Basic Concepts](#)). For details, see [Product Overview](#).

1.2 Calling Method

CodeArts Req supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details, see [Calling APIs](#).

1.3 Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions.

[Table 1-1](#) lists the CodeArts Req endpoints.

Table 1-1 CodeArts endpoints

Region	Region ID	Endpoint
LA-Mexico City2	la-north-2	devcloud.la-north-2.myhuaweicloud.com
LA-Sao Paulo1	sa-brazil-1	devcloud.sa-brazil-1.myhuaweicloud.com

Region	Region ID	Endpoint
AP-Singapore	ap-southeast-3	devcloud.ap-southeast-3.myhuaweicloud.com

1.4 Basic 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.
- IAM user

An Identity and Access Management (IAM) user is created using an account to use cloud services. Each IAM 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 domain 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 computing, block storage, object storage, VPC network, elastic public IP address, and image, are shared in 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.
- 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, compute, 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 is created by a user in CodeArts Req based on a template. A project also contains preset work items, code, and resources. IAM users in a project are added to the project as team members. They are assigned with corresponding roles and granted with operation permissions.
- Project template

A template-based project is created with a **preset template**. That is, Scrum or Kanban work items and processes preset in CodeArts Req. You can select a project template or create a development task.

- **Enterprise project**
An enterprise project groups and manages enterprise resources in a logically isolated manner. It can contain resources in multiple regions, and allow resources to be added or removed.
For details about how to obtain enterprise project IDs and features, see the [Enterprise Management User Guide](#).

2 API Overview

Table 2-1 API overview

Type	Subtype	Description
Work items of the Scrum project	Work items of the Scrum project	The APIs are used to create, delete, modify, and query work items of the Scrum project.
Sprints of the Scrum project	Sprints of the Scrum project	The APIs are used to create, delete, modify, and query sprints of the Scrum project.
User information	User information	The APIs are used to obtain the current user information, update the username, and obtain the current user role.
Project members	Project members	The APIs are used to add, query, delete, and delete project members.
Project information	Project information	The APIs are used to create, update, query, and delete projects.
Project indicators	Project indicators	The APIs are used to query the average number of bugs, on-time requirement completion rate, and defect density.
Project statistics	Project statistics	The APIs are used to obtain bugs, requirement statistics, and project overview.
Scrum project modules	Scrum project modules	The APIs are used to create, query, update, and delete Scrum project modules.
Scrum project domains	Scrum project domains	The APIs are used to create, query, update, and delete Scrum project domains.

3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API request, using the IAM API for [obtaining a user token](#) as an example to demonstrate how to call an API. The obtained token can then be used to authenticate requests for calling other APIs.

Request URI

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

A request URI consists of four parts: *{URI-scheme}:// {Endpoint} | {resource-path}? {query-string}*

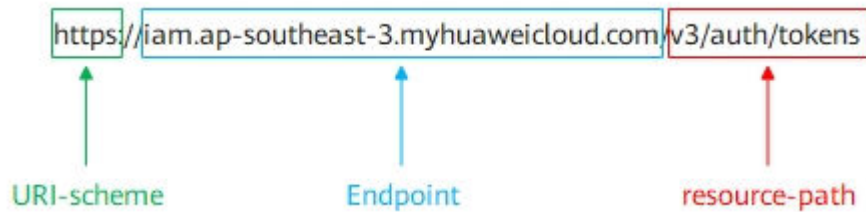
Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS .
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from Endpoints . For example, the endpoint of IAM in the AP-Singapore region is iam.ap-southeast-3.myhuaweicloud.com .
resource-path	Resource path, that is, the API access path, which is obtained from the URI of a specific API. For example, the resource-path of the API used to obtain a user token is /v3/auth/tokens .
query-string	(Optional) Query parameter. The query parameter is prefixed with a question mark (?), in the format of Parameter name=Parameter value . For example, limit=10 indicates that a maximum of 10 data records will be queried.

For example, to obtain an IAM token in the **AP-Singapore** region, obtain the endpoint of IAM ((iam.ap-southeast-3.myhuaweicloud.com) for this region and

the **resource-path** (`/v3/auth/tokens`) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

```
https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
```

Figure 3-1 Example URI



NOTE

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

Request Methods

HTTP defines the following request methods that can be used to send a request to the server.

- **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.
- **HEAD**: same as **GET** except that the server must return only the response header.
- **PATCH**: requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

For example, when you call the API to obtain a user token, the request method is **POST**, and the request is as follows:

```
POST https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
```

Request Header

You can also add additional header fields to a request, such as fields for specifying a URI and an HTTP method. For example, to request authentication information, add **Content-Type**, which specifies the request body type.

Common request header fields are as follows:

- **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**: specifies 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, APIs also support authentication using access key ID/secret access key (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 details, see [Authentication](#).

- **X-Project-ID**: specifies a subproject ID. This parameter is optional. It is used in multi-project scenarios.
- **X-Domain-ID**: identifies an account.

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.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

Request Body

A request body is often sent in structured format. It corresponds to **Content-Type** in the request header and passes 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.

When you call the API for [obtaining 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, ap-southeast-3) with the actual values. The project ID can be obtained from [Endpoints](#).

NOTE

The **scope** parameter specifies where a token takes effect. 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 details about this API, see [Obtaining a User Token Through Password Authentication](#).

```
POST https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

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

```
    }  
  },  
  "scope": {  
    "project": {  
      "name": "xxxxxxx"  
    }  
  }  
}
```

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 requests for calling 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 IAM API used to obtain a user token.

A token is used to acquire temporary permissions. 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, add field **X-Auth-Token** to the request header to specify the token when other APIs are called. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFJ....** can be added to a request as follows:

```
GET https://iam.ap-southeast-3.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.

AK/SK-based authentication uses AK/SK to sign requests, and the signature is then added to request headers for authentication.

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- 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 [API Request Signing 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 that includes 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 details, see [Status Codes](#).

For example, if status code **201** is returned for calling the API used to [obtain a user token](#), the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **content-type**.

Figure 3-2 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 requests for calling other APIs.

Figure 3-2 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 → MIYXQYJKoZlhcNAQcCoIYTJCCGEoCAQExDTALBgIghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjIwMTk0MDtMTNUMDfj3KJ56YgKnpVNRbW2eZ5eb78SZOKqjACgkqO1wi4JIGzrpd18LGXK5bxdffq4lqHCYb8P4NaY0NYejcAgzIVeFYtLWT1GSO0zxKZmiQHq82HBqHdgIZO9fuEbL5dMhdavj+33wEIXHRCE9I87o+k9-j+CMZSEB7bUGd5Uj6eRASXI1jipPEGA270g1FruooL6jqglFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CM8nOintWW7oeRUVhVpxk8pxiX1wTEboX-RzT6MUbpvGw-oPNFYxjECKnoH3HRozv0vN--n5d6Nbxg==
x-ssr-protection → 1; mode=block;
```

Response Body

A response body is often returned in structured format. It corresponds to **content-type** header field and passes content except the response header.

The following 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": "ap-southeast-3",
            .....

```

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 preceding information, **error_code** is an error code, and **error_msg** describes the error.

4 APIs

4.1 Work Items of the Scrum Project

4.1.1 Creating a Customized Field for a Work Item Type

Function

Creating a Customized Field for a Work Item Type

URI

POST /v3/{project_id}/custom-fields

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-2 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 4-3 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Parameter
type	Yes	String	Customized Field Type Optional Type textArea select radio text checkbox date time_date number
options	Yes	String	Options
memo	Yes	String	Description
scrum_type	Yes	String	Type

Response Parameters

Status code: 200

Table 4-4 Response body parameters

Parameter	Type	Description
options	String	Options
region	String	System fields
id	Integer	Field ID.
identifier	String	Field ID.
project_id	Integer	Project ID
tracker_id	Integer	Work item type ID. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story
custom_field	String	System Field Name
type	String	Field Type
name	String	Parameter
sort	Integer	System fields
memo	String	Description
created	String	Created
modified	String	Time when the gateway response was last modified
is_delete	Boolean	Deleted or Not

Status code: 400

Table 4-5 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-6** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post <https://{endpoint}/v3/0792b7d26cb74bd799cbae80063dc74a/custom-fields>

```
{
  "name" : "test",
  "type" : "text",
  "memo" : "Description",
  "options" : "0792b7d26cb74bd799cbae80063dc74a",
  "scrum_type" : "Story"
}
```

Example Responses**Status code: 200**

OK

```
{
  "options" : "select1,select2",
  "region" : "southchina",
  "id" : 1,
  "identifier" : "81abca040032407bb62d52536d69ce2d",
  "project_id" : 2282492,
  "tracker_id" : 3,
  "custom_field" : "custom_field34",
  "type" : "select",
  "name" : "test",
  "sort" : 1,
  "memo" : "description",
  "created" : "2020-06-02T10:45:09Z",
  "modified" : 1,
  "is_delete" : false
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.2 Uploading an image

Function

Uploading an image

URI

POST /v2/{project_id}/img

Table 4-7 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-8 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 4-9 FormData parameters

Parameter	Mandatory	Type	Description
file	Yes	File	GIF Files

Response Parameters

Status code: 200

Table 4-10 Response body parameters

Parameter	Type	Description
img_id	String	Specifies the image ID.
img_url	String	The image URL v1 is changed to v3 as the image download request.

Status code: 400

Table 4-11 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-12 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Post https://{endpoint}/v2/99be3c6242d74ad180292a689f95d666/img
```

```
Post https://{endpoint}/v2/99be3c6242d74ad180292a689f95d666/img
```

Example Responses

Status code: 200

OK

```
{
  "img_id" : 1,
  "img_url" : "/v1/upload/0792b7d26cb74bd799cbae80063dc74a/202006/1591339394752881984.gif"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.3 Obtaining Work Item Completion Rate

Function

Obtain the completion rate of work items.

URI

GET /v4/projects/{project_id}/issue-completion-rate

Table 4-13 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-14 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-15 Response body parameters

Parameter	Type	Description
issue_completion_rates	Array of issue_completion_rates objects	Completion rate of different types of work items
total	Integer	Total

Table 4-16 issue_completion_rates

Parameter	Type	Description
issue_status	issue_status object	Number of work items in different states
tracker_id	Integer	Work item type ID. 1: requirement; 2: task/task; 3: defect /Bug,5Epic,6Feature,7Story

Table 4-17 issue_status

Parameter	Type	Description
closed_num	Integer	Indicates the number of closed work items.
new_num	Integer	Indicates the number of new work items.

Parameter	Type	Description
process_num	Integer	Indicates the number of work items under development.
rejected_num	Integer	Indicates the number of rejected work items.
solved_num	Integer	Indicates the number of resolved work items.
test_num	Integer	Indicates the number of work items under testing.

Status code: 400**Table 4-18** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-19** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issue-completion-rate
```

Example Responses

Status code: 200

OK

```
{
  "issue_completion_rates": [ {
    "issue_status": {
      "closed_num": 0,
      "new_num": 0,
      "process_num": 0,
      "rejected_num": 0,
      "solved_num": 0,
      "test_num": 0
    },
    "tracker_id": 3
  }
]
```



```
  }],  
  "total" : 2  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.4 Obtaining Comments on a Specified Work Item

Function

Obtains comments on a work item.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/comments

Table 4-20 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Identifies a work item.

Table 4-21 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Pagination index, offset Minimum: 0 Default: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records displayed on each page. A maximum of 100 records can be displayed. Minimum: 1 Maximum: 100 Default: 10

Request Parameters

Table 4-22 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-23 Response body parameters

Parameter	Type	Description
total	Integer	Total number of comments
comments	Array of IssueCommentV4 objects	Product Theory List

Table 4-24 IssueCommentV4

Parameter	Type	Description
comment	String	Indicates the comment content.
id	Integer	Identifies a comment.
created_time	String	Indicates the time when the comment is made.

Parameter	Type	Description
user	CommentUserV4 object	

Table 4-25 CommentUserV4

Parameter	Type	Description
user_num_id	Integer	Identifies a user who has posted a comment.
user_name	String	Indicates the name of the user who has posted a comment.
nick_name	String	Indicates the nickname of the user who has posted a comment.

Status code: 400**Table 4-26** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-27** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issues/1232495/comments
```

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issues/1232495/comments
```

Example Responses

Status code: 200

OK

```
{
  "total" : 3,
  "comments" : [ {
    "comment" : "<p>cost</p>",
    "id" : 2777430,
    "created_time" : "2019-10-18",
    "user" : {
      "user_num_id" : 4091,
      "user_name" : "demo_user_name",
      "nick_name" : "name"
    }
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.5 Querying Labor Hours by User (Single Project)

Function

Querying Labor Hours by User (Single Project)

URI

POST /v4/projects/{project_id}/work-hours

Table 4-28 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-29 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. Minimum: 10 Maximum: 32768

Table 4-30 Request body parameters

Parameter	Mandatory	Type	Description
user_ids	No	Array of strings	List of queried user IDs.
work_hours_types	No	String	Labor hour types separated by commas (,). 21: R&D design; 22: backend development; 23: frontend development (Web); 24: frontend development (applet); 25: frontend development (App); 26: test verification; 27: defect rectification; 28: UI design; 29: Meetings, 30: Public Affairs, 31: Training, 32: Research, 33: Others, 34: Replacement Leave
work_hours_dates	No	String	Labor hour date, separated by commas (,), in the format of year-month-day.
begin_time	No	String	Start date of working hours, in the format of year-month-day.
end_time	No	String	End date of working hours, in the format of year-month-day.
offset	Yes	Integer	Offset. offset is an integer multiple of limit. limit=10,offset=0,10,20... Minimum: 0 Default: 0

Parameter	Mandatory	Type	Description
limit	Yes	Integer	Number of records displayed on each page. A maximum of 100 records can be displayed on each page. Minimum: 1 Maximum: 100 Default: 10

Response Parameters

Status code: 200

Table 4-31 Response body parameters

Parameter	Type	Description
work_hours	Array of work_hours objects	Work Hour List
total	Integer	Total

Table 4-32 work_hours

Parameter	Type	Description
project_name	String	Project
nick_name	String	Nickname of the user.
user_id	String	User ID.
user_name	String	User Name
work_date	String	Labor Hour Date
work_hours_num	String	Labor Hour Cost
summary	String	Labor Hour Content
work_hours_type_name	String	Labor Hour Type
issue_id	Integer	Identifies a work item.
issue_type	String	Type
subject	String	Indicates the title of the work item.

Parameter	Type	Description
created_time	String	Work Item Creation Time
closed_time	String	Work Item End Time

Status code: 400

Table 4-33 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-34 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post <https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb2/work-hours>

```
{
  "limit" : 1,
  "offset" : 0,
  "end_time" : "2020-08-14"
}
```

Example Responses

Status code: 200

ok

```
{
  "work_hours" : [ {
    "project_name" : "demo",
    "nick_name" : "demo",
    "user_id" : "09d75cdd9a00d44d2f17c01875483f26",
    "user_name" : "userName",
    "work_date" : "2020-02-19",
    "work_hours_num" : "2.0",
    "summary" : "summaryXXXXX",
    "work_hours_type_name" : "ddd",
    "issue_id" : 123456,
    "issue_type" : "Story",
  }
]
```

```
"subject" : "title",  
"created_time" : "2019-12-17",  
"closed_time" : "2019-12-20"  
}],  
"total" : 1  
}
```

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.6 Querying Labor Hours by User (Multi-Project)

Function

Querying Labor Hours by User (Multi-Project)

URI

POST /v4/projects/work-hours

Request Parameters

Table 4-35 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Table 4-36 Request body parameters

Parameter	Mandatory	Type	Description
project_ids	No	Array of strings	Specifies the ID list of queried projects.
user_ids	No	Array of strings	List of queried user IDs.
work_hours_types	No	String	Labor hour types separated by commas (,). 21: R&D design; 22: backend development; 23: frontend development (Web); 24: frontend development (applet); 25: frontend development (App); 26: test verification; 27: defect rectification; 28: UI design; 29: Meetings, 30: Public Affairs, 31: Training, 32: Research, 33: Others, 34: Replacement Leave
work_hours_dates	No	String	Labor hour date, separated by commas (,), in the format of year-month-day.
begin_time	No	String	Start date of working hours, in the format of year-month-day.
end_time	No	String	End date of working hours, in the format of year-month-day.
offset	Yes	Integer	Offset. offset is an integer multiple of limit. limit=10,offset=0,10,20... Minimum: 0
limit	Yes	Integer	Number of records displayed on each page. A maximum of 100 records can be displayed on each page. Minimum: 1 Maximum: 100

Response Parameters

Status code: 200

Table 4-37 Response body parameters

Parameter	Type	Description
work_hours	Array of work_hours objects	Work Hour List
total	Integer	Total

Table 4-38 work_hours

Parameter	Type	Description
project_name	String	Project
nick_name	String	Nickname of the user.
user_id	String	User ID.
user_name	String	User Name
work_date	String	Labor Hour Date
work_hours_number	String	Labor Hour Cost
summary	String	Labor Hour Content
work_hours_type_name	String	Labor Hour Type
issue_id	Integer	Identifies a work item.
issue_type	String	Type
subject	String	Indicates the title of the work item.
created_time	String	Work Item Creation Time
closed_time	String	Work Item End Time

Status code: 400**Table 4-39** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-40 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post `https://{endpoint}/v4/projects/work-hours`

```
{
  "limit" : 1,
  "offset" : 0,
  "end_time" : "2020-08-14",
  "project_ids" : [ "e2da96a5d2c845e284f0ad47f8ca8cb2", "a2da96a5d2c845e284f0ad47f8ca8cef" ]
}
```

Example Responses

Status code: 200

ok

```
{
  "work_hours" : [ {
    "project_name" : "",
    "nick_name" : "",
    "user_id" : "09d75cdd9a00d44d2f17c01875483f26",
    "user_name" : "",
    "work_date" : "2020-02-19",
    "work_hours_num" : "2.0",
    "summary" : "",
    "work_hours_type_name" : "",
    "issue_id" : 123456,
    "issue_type" : "Story",
    "subject" : "",
    "created_time" : "2019-12-17",
    "closed_time" : "2019-12-20"
  } ],
  "total" : 1
}
```

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.7 Obtaining the Work Item History

Function

Obtaining the Work Item History

URI

GET /v4/projects/{project_id}/issue/{issue_id}/records

Table 4-41 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Identifies a work item.

Table 4-42 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Specifies the paging index and offset. offset is an integer multiple of limit. limit=10,offset=0,10,20... Minimum: 0 Default: 0
limit	No	Integer	Number of records displayed on each page. A maximum of 100 records can be displayed on each page. Minimum: 1 Maximum: 1000 Default: 10

Request Parameters

Table 4-43 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-44 Response body parameters

Parameter	Type	Description
id	Integer	Operation record ID (discarded).
created_time	Long	Creation time (discarded).
records	Array of IssueRecordV4 objects	Scaling History
total	Integer	Total number of operation records.

Table 4-45 IssueRecordV4

Parameter	Type	Description
id	Integer	Operation record ID.
created_time	Long	Time when an operation record is created.
user	user object	User who operates a work item.
details	Array of details objects	Operation Records

Table 4-46 user

Parameter	Type	Description
user_num_id	Integer	User ID
user_name	String	LoginName
nick_name	String	Nickname
user_id	String	32-bit UUID of a user.

Table 4-47 details

Parameter	Type	Description
property	String	Operation Attribute
old_value	String	Last Record
new_value	String	Current Value
operation	String	Operation
id	Integer	ID of an operation record.
name	String	Field to Be Operated

Status code: 400**Table 4-48** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-49** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issue/3458/records
```

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/issue/3458/records
```

Example Responses

Status code: 200

OK

```
{
  "id" : 1221,
  "created_time" : "1597116605000",
  "records" : [ {
    "id" : 1234,
    "created_time" : 1617764919000,
    "user" : {
      "user_num_id" : 4091,
      "user_name" : "demo_user_name",
      "nick_name" : "aaa",
      "user_id" : "a360371833bf4c558f796fd707b44daf"
    },
    "details" : [ {
      "property" : 1,
      "old_value" : 1,
      "new_value" : 2,
      "operation" : "",
      "id" : 3597,
      "name" : ""
    } ]
  } ],
  "total" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.8 Create work items.

Function

Create work items.

URI

POST /v4/projects/{project_id}/issue

Table 4-50 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-51 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Table 4-52 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	Indicates the actual person-hours.
assigned_id	No	Integer	Handler ID, which corresponds to the numeric ID of the user information.
begin_time	No	String	Start time, in the format of year-month-day.
description	No	String	Description
developer_id	No	Integer	Developer ID, which corresponds to the numeric ID of user information.

Parameter	Mandatory	Type	Description
domain_id	No	Integer	ID domain, 14'Performance', 15'Function', 16'Reliability' 17'Cyber security' 18'Maintainability' 19'Other DFX' 20'Availability'
done_ratio	No	Integer	Work Item Progress Value
end_time	No	String	End time, in the format of year-month-day.
expected_work_hours	No	Double	Expected
iteration_id	No	Integer	Identifies a sprint.
module_id	No	Integer	Specifies the module ID.
name	Yes	String	Title
parent_issue_id	No	Integer	ID of the parent work item. This parameter is mandatory when a child work item is created. The value of tracker_id of the parent work item cannot be 2 or 3.
priority_id	Yes	Integer	Priority, 1: low, In 2, 3 high,
severity_id	No	Integer	Importance, 10 key, 11 important, 12 general, 13 Prompt,
status_id	No	Integer	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 rejected,
tracker_id	Yes	Integer	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature, 7Story. The value 5 can only be the parent work item type of 6. 6 can only be the parent work item type of 7. The value 7 can only be the parent of 2 or 3.
new_custom_fields	No	Array of NewCustomField objects	Custom Item

Table 4-53 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	Custom Parameter
field_name	No	String	Custom field name
value	No	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Response Parameters

Status code: 200

Table 4-54 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	
begin_time	String	Start time, in the format of year-month-day.
creator	IssueUser object	
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	
domain	domain object	ID domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber Security', 18'Maintainability', 19'Other DFX', 20'Availability',
done_ratio	Integer	Work Item Progress Value
end_time	String	End time, in the format of year-month-day.

Parameter	Type	Description
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Sprint
module	module object	Module
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.

Table 4-55 IssueUser

Parameter	Type	Description
user_id	String	uuid
user_num_id	Integer	id
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-56 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-57 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-58 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-59 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-60 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-61 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-62 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-63 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-64 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-65 status

Parameter	Type	Description
id	Integer	Status ID.
name	String	Status Name

Table 4-66 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

Table 4-67 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-68** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issue
```

```
{
  "parent_issue_id" : 1679822,
  "end_time" : "2018-07-05",
  "name" : "test",
  "begin_time" : "2018-1-31",
  "description" : "",
  "assigned_id" : 4091,
  "developer_id" : 4091,
  "tracker_id" : 3,
  "status_id" : 1,
  "priority_id" : 2,
  "severity_id" : 10,
  "iteration_id" : "11302238\r"
}
```

Example Responses**Status code: 200**

OK

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : "user_name_demo",
    "nick_name" : "nick_name_demo"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : "user_name_demo",
    "nick_name" : "nick_name_demo"
  },
  "begin_time" : "2020-09-12",
  "creator" : {
    "id" : 4091,
    "name" : "user_name_demo",

```

```
"nick_name" : "nick_name_demo"
},
"custom_fields" : [ {
  "name" : "customField16",
  "value" : "",
  "new_name" : "custom_field16"
} ],
"new_custom_fields" : [ {
  "custom_field" : "custom_field16",
  "field_name" : "field_name",
  "value" : "select1,select2"
} ],
"developer" : {
  "id" : 4091,
  "name" : "user_name_demo",
  "nick_name" : "nick_name_demo"
},
"domain" : {
  "id" : 14,
  "name" : ""
},
"done_ratio" : 0,
"end_time" : "2020-09-19",
"expected_work_hours" : 9,
"id" : 4567,
"project" : {
  "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
  "project_name" : "testDemo",
  "project_num_id" : 78953
},
"iteration" : {
  "id" : 456,
  "name" : "iteration_1"
},
"module" : {
  "id" : 456,
  "name" : "Project"
},
"parent_issue" : {
  "id" : 123,
  "name" : "paren_issue_demo"
},
"priority" : {
  "id" : 1,
  "name" : ""
},
"severity" : {
  "id" : 12,
  "name" : ""
},
"status" : {
  "id" : 1,
  "name" : ""
},
"tracker" : {
  "id" : 7,
  "name" : "story"
}
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.9 Querying Work Items of a Project

Function

Work item type ID, which is a pagination parameter and is used to query work items of a project by creation time.

URI

GET /v4/projects/{project_id}/issues

Table 4-69 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Table 4-70 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	The offset starts from 0. Minimum: 0
limit	No	Integer	The minimum number of records on each page is 1 and the maximum number is 100. Minimum: 1 Maximum: 100

Parameter	Mandatory	Type	Description
tracker_id	No	Integer	Type Enumeration values: <ul style="list-style-type: none">• 2• 3• 4• 5• 6• 7
created_time_interval	No	String	Time when a work item is created (start time and end time of the query)
updated_time_interval	No	String	Time when a work item is updated (start time and end time of the query).

Request Parameters

Table 4-71 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. The token 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-72 Response body parameters

Parameter	Type	Description
issues	Array of IssueItemSfv 4 objects	Item

Parameter	Type	Description
total	Integer	Total

Table 4-73 IssueItemSfV4

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_user	IssueUser object	
author	IssueUser object	
begin_time	Long	Work Item Start Time
closed_time	Long	Time when a work item is closed.
created_time	Long	Created
custom_feilds	Array of CustomFeild Record objects	Custom attributes.
developer	IssueUser object	
discover_version	String	Version Where the Problem Is Found
end_time	Long	Work Item End Time
done_ratio	Integer	Work Item Progress Value
expected_work_hours	Double	Expected
order	Integer	Order. Minimum: 1 Maximum: 100
parent_issue_id	Integer	ID of the parent work item.
release_version	String	Released Version
root_issue_id	Integer	ID of the root work item.

Parameter	Type	Description
story_point	story_point object	Indicates the ID, 1 '0', 2 '1/2', 3 '1' , 4 '2' , 5 '3' , 6 '5' , 7 '8' , 8 '13' , 9 '21' , 10 '40' , 11 '80' , 12 '100' , 13 '∞' , 14 '?' ,
domain	domain object	ID, domain 14, 'Performance', 15, 'Function', 16, 'Reliability' 17,'Network security' 18, 'Maintainability' 19,'Other DFX' 20, 'Availability'
iteration	iteration object	Sprint
module	module object	Module
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
subject	String	Indicates the title of the work item.
updated_time	Long	Work Item Update Time

Table 4-74 CustomFeildRecord

Parameter	Type	Description
key	String	Customizing Work Item Attributes
name	String	User-defined Work Item Name
value	String	User-defined Work Item Value

Table 4-75 IssueUser

Parameter	Type	Description
user_id	String	uuid
user_num_id	Integer	id
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-76 story_point

Parameter	Type	Description
id	Integer	Story point ID.
name	String	Story Point

Table 4-77 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-78 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-79 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-80 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-81 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-82 status

Parameter	Type	Description
id	Integer	Status ID.
name	String	Event Name

Table 4-83 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400**Table 4-84** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-85** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues
```

```
Get https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues
```

Example Responses

Status code: 200

OK

```
{
  "issues" : [ {
    "actual_work_hours" : 10,
    "assigned_user" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "demo"
    },
    "author" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "demo"
    },
    "begin_time" : 1590940800000,
    "closed_time" : 1590940800000,
    "created_time" : 1590940800000,
    "custom_feilds" : [ {
      "key" : "customField15",
      "name" : "single",
      "value" : "15Demo"
    } ],
    "developer" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : "demo"
    },
    "discover_version" : "ProjectMan 8.0.0",
    "end_time" : 1590940800000,
    "done_ratio" : 0,
    "expected_work_hours" : 9,
    "order" : 1,
    "parent_issue_id" : 123,
    "release_version" : "ProjectMan 8.0.0",
    "root_issue_id" : 0,
    "story_point" : {
      "id" : 1,
      "name" : "0"
    },
    "domain" : {
      "id" : 14,
      "name" : ""
    },
    "iteration" : {
      "id" : 456,
      "name" : "1"
    },
    "module" : {
      "id" : 456,
      "name" : "Project"
    },
    "priority" : {
      "id" : 1,
      "name" : ""
    },
    "severity" : {
      "id" : 12,
      "name" : ""
    }
  } ]
}
```

```
},
"status": {
  "id": 1,
  "name": ""
},
"tracker": {
  "id": 7,
  "name": "story"
},
"subject": "demo",
"updated_time": 1576114296000
}],
"total": 1
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.10 Advanced Query Work Item

Function

Queries work items based on filter criteria.

URI

POST /v4/projects/{project_id}/issues

Table 4-86 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-87 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. Minimum: 10 Maximum: 32768

Table 4-88 Request body parameters

Parameter	Mandatory	Type	Description
assigned_ids	No	Array of integers	Specifies the processor ID.
creator_ids	No	Array of integers	Creator ID.
developer_ids	No	Array of integers	Developer ID, which corresponds to the numeric ID of the user information.
domain_ids	No	Array of integers	ID, domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber Security', 18'Maintainability', 19'Other DFX', 20'Availability',
done_ratios	No	Array of integers	Completion Rate
iteration_ids	No	Array of integers	Identifies a sprint.
limit	No	Integer	Number of records on each page. Minimum: 1 Maximum: 100
offset	No	Integer	Specifies the paging index and offset. offset is an integer multiple of limit. limit=10,offset=0,10,20... Minimum: 0

Parameter	Mandatory	Type	Description
module_ids	No	Array of integers	Specifies the module ID.
priority_ids	No	Array of integers	Priority
query_type	No	String	Query type backlog feature epic
severity_ids	No	Array of integers	Search Type
status_ids	No	Array of integers	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 rejected,
story_point_ids	No	Array of integers	Story point ID.
tracker_ids	No	Array of integers	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature, 7Story.
include_deleted	No	Boolean	true: The queried work items contain the work items that have been logically deleted. false: The queried work items do not contain the work items that have been deleted.
updated_time_interval	No	String	Query work items according to the update time of work items (query start time and query end time).
custom_fields	No	Array of custom_fields objects	Custom Parameter

Table 4-89 custom_fields

Parameter	Mandatory	Type	Description
custom_field	No	String	Customized Attribute Field
value	No	String	Value of a customized attribute.

Response Parameters

Status code: 200

Table 4-90 Response body parameters

Parameter	Type	Description
issues	Array of ListIssueItemResponse objects	Work Item List
total	Integer	Total

Table 4-91 ListIssueItemResponse

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	
begin_time	String	Estimated start time, in the format of year-month-day.
created_time	String	Creation time Year-Month-Day Hour:Minute:Second
creator	IssueUser object	
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	
domain	domain object	ID, domain 14, 'Performance', 15, 'Function', 16, 'Reliability' 17,'Network security' 18, 'Maintainability' 19,'Other DFX' 20, 'Availability'
done_ratio	Integer	Work Item Progress Value

Parameter	Type	Description
end_time	String	Estimated end time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Iteration
module	module object	Module
name	String	Title
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
updated_time	String	Update time (year-month-day hour:minute:second)
closed_time	String	Close Time Year-Month-Day Hour:Minute:Second
deleted	Boolean	Indicates whether the data has been deleted. The value true indicates that the data has been deleted, and the value false indicates that the data has not been deleted.

Table 4-92 IssueUser

Parameter	Type	Description
user_id	String	uuid
user_num_id	Integer	id
id	Integer	Specifies the user ID.

Parameter	Type	Description
name	String	User Name
nick_name	String	Nickname

Table 4-93 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-94 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-95 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-96 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-97 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-98 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-99 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-100 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-101 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-102 status

Parameter	Type	Description
id	Integer	Identifies a status.
name	String	Event Name

Table 4-103 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400**Table 4-104** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

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

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues
{
  "status_ids": [ 1 ]
}
```

Example Responses

Status code: 200

OK

```
{
  "issues": [ {
    "actual_work_hours": 0,
    "assigned_cc_user": [ {
      "id": 4091,
      "name": "demo_user_name",
      "nick_name": ""
    } ],
    "assigned_user": {
      "id": 4091,
      "name": "demo_user_name",
      "nick_name": ""
    }
  } ]
}
```

```
},
"begin_time" : "2020-09-12",
"created_time" : "2020-09-13 14:40:11",
"creator" : {
  "id" : 4091,
  "name" : "demo_user_name",
  "nick_name" : ""
},
"custom_fields" : [ {
  "name" : "customField16",
  "value" : "",
  "new_name" : "custom_field16"
} ],
"new_custom_fields" : [ {
  "custom_field" : "custom_field16",
  "field_name" : "field_name",
  "value" : "2"
} ],
"developer" : {
  "id" : 4091,
  "name" : "demo_user_name",
  "nick_name" : ""
},
"domain" : {
  "id" : 14,
  "name" : ""
},
"done_ratio" : 0,
"end_time" : "2020-09-19",
"expected_work_hours" : 9,
"id" : 4567,
"project" : {
  "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
  "project_name" : "testDemo",
  "project_num_id" : 78953
},
"iteration" : {
  "id" : 456,
  "name" : ""
},
"module" : {
  "id" : 456,
  "name" : "Project"
},
"name" : "",
"parent_issue" : {
  "id" : 123,
  "name" : ""
},
"priority" : {
  "id" : 1,
  "name" : ""
},
"severity" : {
  "id" : 12,
  "name" : ""
},
"status" : {
  "id" : 1,
  "name" : ""
},
"tracker" : {
  "id" : 7,
  "name" : "story"
},
"updated_time" : "2020-09-14 14:40:11",
"closed_time" : "2020-09-15 14:40:11",
"deleted" : false
}],
```

```
"total" : 1  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.11 Deleting Work Items in Batches

Function

Deleting Work Items in Batches

URI

DELETE /v4/projects/{project_id}/issues

Table 4-106 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-107 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. Minimum: 10 Maximum: 32768

Table 4-108 Request body parameters

Parameter	Mandatory	Type	Description
issue_ids	Yes	Array of integers	Work item ID.

Response Parameters

Status code: 400

Table 4-109 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-110 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues
```

```
{  
  "issue_ids" : [ 1660084, 1660085 ]  
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.12 Querying Work Item Details

Function

Querying Work Item Details

URI

GET /v4/projects/{project_id}/issues/{issue_id}

Table 4-111 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Identifies a work item.

Request Parameters

Table 4-112 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-113 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	
begin_time	String	Estimated start time, in the format of year-month-day.
created_time	String	Creation time Year-Month-Day Hour:Minute:Second
creator	IssueUser object	
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of IssueDetailCustomField objects	Attribute Value

Parameter	Type	Description
developer	IssueUser object	
domain	domain object	ID, domain 14, 'Performance', 15, 'Function', 16, 'Reliability' 17,'Network security' 18, 'Maintainability' 19,'Other DFX' 20, 'Availability'
done_ratio	Integer	Work Item Progress Value
end_time	String	Estimated end time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Iteration
module	module object	Module
name	String	Title
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
updated_time	String	Update time (year-month-day hour:minute:second)
closed_time	String	Close Time Year-Month-Day Hour:Minute:Second
description	String	Description
order	IssueOrder object	

Parameter	Type	Description
accessories	Array of IssueAccessory objects	Nearby List

Table 4-114 IssueUser

Parameter	Type	Description
user_id	String	uuid
user_num_id	Integer	id
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-115 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-116 IssueDetailCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Indicates the customized field name.
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.
field_type	String	Customized field type. The options are textArea (multi-line text), text (single-line text), select drop-down list box, number, time_date, checkbox, and radio.
description	String	Customized Field Description

Table 4-117 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-118 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-119 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-120 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-121 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-122 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-123 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-124 status

Parameter	Type	Description
id	Integer	Identifies a status.
name	String	Status Name

Table 4-125 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Table 4-126 IssueOrder

Parameter	Type	Description
id	Integer	Sequence ID
name	String	Sequence Value

Table 4-127 IssueAccessory

Parameter	Type	Description
attachment_id	Integer	Specifies the attachment ID.

Parameter	Type	Description
issue_id	Integer	Work Shoes ID
creator_num_id	Integer	Creator ID.
created_date	String	Attachment Creation Time
file_name	String	File Name During Upload
container_type	String	Specifies the attachment ID.
disk_file_name	String	Attachment name.
digest	String	Specifies the attachment ID.
disk_directory	String	Attachment Path
creator_id	String	UUID of the created user.

Status code: 400**Table 4-128** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-129** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
```

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
```

Example Responses**Status code: 200**

OK

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "begin_time" : "2020-09-12",
  "created_time" : "2020-09-13 14:40:11",
  "creator" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "custom_fields" : [ {
    "name" : "customField16",
    "value" : "value",
    "new_name" : "custom_field16"
  } ],
  "new_custom_fields" : [ {
    "custom_field" : "custom_field16",
    "field_name" : "bear1",
    "value" : "bear11,bear12",
    "field_type" : "textArea",
    "description" : "description"
  } ],
  "developer" : {
    "id" : 4091,
    "name" : "demo_user_name",
    "nick_name" : "bear1"
  },
  "domain" : {
    "id" : 14,
    "name" : ""
  },
  "done_ratio" : 0,
  "end_time" : "2020-09-19",
  "expected_work_hours" : 9,
  "id" : 4567,
  "project" : {
    "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
    "project_name" : "testDemo",
    "project_num_id" : 78953
  },
  "iteration" : {
    "id" : 456,
    "name" : "iteeration1"
  },
  "module" : {
    "id" : 456,
    "name" : "Project"
  },
  "name" : "issueDemo",
  "parent_issue" : {
    "id" : 123,
    "name" : "parentDemo"
  },
  "priority" : {
    "id" : 1,
    "name" : ""
  },
  "severity" : {
    "id" : 12,
```

```
"name" : ""
},
"status" : {
  "id" : 1,
  "name" : ""
},
"tracker" : {
  "id" : 7,
  "name" : "story"
},
"updated_time" : "2020-09-14 14:40:11",
"closed_time" : "2020-09-15 14:40:11",
"description" : "demo",
"order" : {
  "id" : 1,
  "name" : "1"
},
"accessories" : [ {
  "attachment_id" : 123444,
  "issue_id" : 123444,
  "creator_num_id" : 123444,
  "created_date" : "2021-12-15 15:57:16",
  "file_name" : "res.jpg",
  "container_type" : "issue",
  "disk_file_name" : "f0ef7216-fd05-40d4-8dea-6e6057739bb7.jpg",
  "digest" : 123444,
  "disk_directory" : 123444,
  "creator_id" : "a360371833bf4c558f796fd707b44daf"
} ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.13 Updating a Work Item

Function

Updating a Work Item

URI

PUT /v4/projects/{project_id}/issues/{issue_id}

Table 4-130 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Identifies a work item.

Request Parameters

Table 4-131 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum: 10 Maximum: 32768

Table 4-132 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	Indicates the actual person-hours.
assigned_id	No	Integer	Handler ID, which corresponds to the numeric ID of the user information.
begin_time	No	String	Start time, in the format of year-month-day.
description	No	String	Details
developer_id	No	Integer	Developer ID, which corresponds to the numeric ID of user information.
domain_id	No	Integer	Identifies a domain.
done_ratio	No	Integer	Work Item Progress Value
end_time	No	String	End time, in the format of year-month-day.

Parameter	Mandatory	Type	Description
expected_work_hours	No	Double	Expected
iteration_id	No	Integer	Identifies a sprint.
module_id	No	Integer	Specifies the module ID.
name	No	String	Title
parent_issue_id	No	Integer	ID of the parent work item.
priority_id	No	Integer	Priority, 1: low, 2, 3 high,
severity_id	No	Integer	Importance, 10 key, 11 important, 12 general, 13 Prompt,
status_id	No	Integer	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 resolved,
tracker_id	No	Integer	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature, 7Story.
new_custom_fields	No	Array of NewCustomField objects	Custom Item

Table 4-133 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	Custom Parameter
field_name	No	String	Custom field name
value	No	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Response Parameters

Status code: 200

Table 4-134 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	
begin_time	String	Estimated start time, in the format of year-month-day.
created_time	String	Creation time Year-Month-Day Hour:Minute:Second
creator	IssueUser object	
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	
domain	domain object	ID, domain 14, 'Performance', 15, 'Function', 16, 'Reliability' 17,'Network security' 18, 'Maintainability' 19,'Other DFX' 20, 'Availability'
done_ratio	Integer	Work Item Progress Value
end_time	String	Estimated end time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Iteration
module	module object	Module

Parameter	Type	Description
name	String	Title
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
updated_time	String	Update time (year-month-day hour:minute:second)
closed_time	String	Close Time Year-Month-Day Hour:Minute:Second

Table 4-135 IssueUser

Parameter	Type	Description
user_id	String	uuid
user_num_id	Integer	id
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-136 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-137 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-138 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-139 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-140 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-141 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-142 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-143 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-144 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-145 status

Parameter	Type	Description
id	Integer	Identifies a status.
name	String	Event Name

Table 4-146 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400

Table 4-147 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-148** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
{
  "status_id" : 2
}
```

Example Responses**Status code: 200**

OK

```
{
  "actual_work_hours" : 0,
  "assigned_cc_user" : [ {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  } ],
  "assigned_user" : {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  },
  "begin_time" : "2020-09-12",
  "created_time" : "2020-09-13 14:40:11",
  "creator" : {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  },
  "custom_fields" : [ {
    "name" : "customField16",
    "value" : "select1",
    "new_name" : "custom_field16"
  } ],
  "new_custom_fields" : [ {
    "custom_field" : "custom_field16",
    "field_name" : "field_name",
```

```
    "value" : "select1,select2"
  } ],
  "developer" : {
    "id" : 4091,
    "name" : " demo_user",
    "nick_name" : "demo"
  },
  "domain" : {
    "id" : 14,
    "name" : ""
  },
  "done_ratio" : 0,
  "end_time" : "2020-09-19",
  "expected_work_hours" : 9,
  "id" : 4567,
  "project" : {
    "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
    "project_name" : "testDemo",
    "project_num_id" : 78953
  },
  "iteration" : {
    "id" : 456,
    "name" : "iteration1"
  },
  "module" : {
    "id" : 456,
    "name" : "Project"
  },
  "name" : "issue name",
  "parent_issue" : {
    "id" : 123,
    "name" : "parent issue name"
  },
  "priority" : {
    "id" : 1,
    "name" : ""
  },
  "severity" : {
    "id" : 12,
    "name" : ""
  },
  "status" : {
    "id" : 1,
    "name" : ""
  },
  "tracker" : {
    "id" : 7,
    "name" : "story"
  },
  "updated_time" : "2020-09-14 14:40:11",
  "closed_time" : "2020-09-15 14:40:11"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.14 Deleting a Work Item

Function

Deleting a Work Item

URI

DELETE /v4/projects/{project_id}/issues/{issue_id}

Table 4-149 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Identifies a work item.

Request Parameters

Table 4-150 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: **400**

Table 4-151 Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

Status code: 401

Table 4-152 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
```

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.15 Obtains sub-work items.

Function

Obtains sub-work items.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/child

Table 4-153 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Identifies a work item.

Request Parameters

Table 4-154 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-155 Response body parameters

Parameter	Type	Description
issues	Array of IssueResponseV4 objects	Work Item List
total	Integer	Total

Table 4-156 IssueResponseV4

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.

Parameter	Type	Description
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	
begin_time	String	Estimated start time, in the format of year-month-day.
created_time	String	Creation time Year-Month-Day Hour:Minute:Second
creator	IssueUser object	
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	
domain	domain object	ID, domain 14, 'Performance', 15, 'Function', 16, 'Reliability' 17,'Network security' 18, 'Maintainability' 19,'Other DFX' 20, 'Availability'
done_ratio	Integer	Work Item Progress Value
end_time	String	Estimated end time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Iteration
module	module object	Module
name	String	Title
parent_issue	parent_issue object	Parent Work Item

Parameter	Type	Description
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.
updated_time	String	Update time (year-month-day hour:minute:second)
closed_time	String	Close Time Year-Month-Day Hour:Minute:Second

Table 4-157 IssueUser

Parameter	Type	Description
user_id	String	uuid
user_num_id	Integer	id
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-158 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-159 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name

Parameter	Type	Description
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-160 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-161 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project
project_num_id	Integer	Project ID

Table 4-162 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-163 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-164 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID

Parameter	Type	Description
name	String	Parent Work Item

Table 4-165 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-166 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-167 status

Parameter	Type	Description
id	Integer	Identifies a status.
name	String	Event Name

Table 4-168 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400**Table 4-169** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-170** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921/child
```

```
GET://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/4568921/child
```

Example Responses**Status code: 200**

OK

```
{
  "issues" : [ {
    "actual_work_hours" : 0,
    "assigned_cc_user" : [ {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : ""
    } ],
    "assigned_user" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : ""
    },
    "begin_time" : "2020-09-12",
    "created_time" : "2020-09-13 14:40:11",
    "creator" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : ""
    },
    "custom_fields" : [ {
      "name" : "customField16",
      "value" : "",
      "new_name" : "custom_field16"
    } ],
    "new_custom_fields" : [ {
      "custom_field" : "custom_field16",
      "field_name" : "field_name",
      "value" : "1,2"
    } ],
    "developer" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : ""
    },
    "domain" : {
      "id" : 14,
      "name" : ""
    },
    "done_ratio" : 0,
    "end_time" : "2020-09-19",
    "expected_work_hours" : 9,
```

```
{
  "id" : 4567,
  "project" : {
    "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",
    "project_name" : "testDemo",
    "project_num_id" : 78953
  },
  "iteration" : {
    "id" : 456,
    "name" : ""
  },
  "module" : {
    "id" : 456,
    "name" : "Project"
  },
  "name" : "",
  "parent_issue" : {
    "id" : 123,
    "name" : ""
  },
  "priority" : {
    "id" : 1,
    "name" : ""
  },
  "severity" : {
    "id" : 12,
    "name" : ""
  },
  "status" : {
    "id" : 1,
    "name" : ""
  },
  "tracker" : {
    "id" : 7,
    "name" : "story"
  },
  "updated_time" : "2020-09-14 14:40:11",
  "closed_time" : "2020-09-15 14:40:11"
}],
"total" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.16 Querying Historical Records of All Work Items in a Project

Function

Querying Historical Records of All Work Items in a Project

URI

GET /v4/projects/{project_id}/issues/records

Table 4-171 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Table 4-172 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	The offset starts from 0 and is an integer multiple of limit. limit=10,offset=0,10,20... Minimum: 0 Default: 0
limit	No	Integer	The minimum number of records on each page is 1 and the maximum number is 100. Minimum: 1 Maximum: 100 Default: 100
operated_time_interval	No	String	Time when a work item is changed (start time and end time of the query).

Request Parameters

Table 4-173 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200**Table 4-174** Response body parameters

Parameter	Type	Description
records	Array of IssueAttrHistoryRecord objects	Scaling History
total	Integer	Total

Table 4-175 IssueAttrHistoryRecord

Parameter	Type	Description
field_key	String	Field to Be Operated
field_name	String	Meanings of operation fields
id	Long	Specifies the historical record ID.
issue_id	Long	Identifies a work item.
new_value	String	New value, which is a JSON character string.
old_value	String	Value before the change, which is a JSON character string.
operated_time	Long	Time when the change occurs.
operation	String	Operation type, which can be create, modify, or delete.

Parameter	Type	Description
operator	IssueUser object	
property	String	Changed Attribute

Table 4-176 IssueUser

Parameter	Type	Description
user_id	String	uuid
user_num_id	Integer	id
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Status code: 400

Table 4-177 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-178 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/records
```

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/records
```

Example Responses

Status code: 200

OK

```
{
  "records" : [ {
    "field_key" : "status",
    "field_name" : "",
    "id" : 789,
    "issue_id" : 123,
    "new_value" : "{\"id\":\"2\", \"name\":\"\"}",
    "old_value" : "{\"id\":\"1\", \"name\":\"\"}",
    "operated_time" : 1601175640000,
    "operation" : "",
    "operator" : {
      "id" : 4091,
      "name" : "demo_user_name",
      "nick_name" : ""
    },
    "property" : "attr"
  } ],
  "total" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.17 Querying the Work Item Transfer Configuration of a Scrum Project

Function

Querying the Work Item Transfer Configuration of a Scrum Project

URI

GET /v4/projects/{project_id}/issues/workflow/config

Table 4-179 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Table 4-180 Query Parameters

Parameter	Mandatory	Type	Description
tracker_id	Yes	Integer	Work item type ID [2,3,4,5,6,7]

Request Parameters

Table 4-181 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-182 Response body parameters

Parameter	Type	Description
workflows	Array of ScrumStatusFlowVo objects	Data Transfer APIs

Table 4-183 ScrumStatusFlowVo

Parameter	Type	Description
id	String	UUID of the transferred data.
name	String	Event Name
status_id	Integer	Status ID.
direct_to	Array of ScrumStatusFlowDirectToVo objects	Data Transferred to

Table 4-184 ScrumStatusFlowDirectToVo

Parameter	Type	Description
id	String	UUID of the transferred data.
status_id	Integer	Status ID.
name	String	Status
enabled	Boolean	Indicates whether to enable flow transfer.

Status code: 400

Table 4-185 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-186 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/workflow/config?
tracker_id=7
```

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues/workflow/config?
tracker_id=7
```

Example Responses

Status code: 200

OK

```
{
  "workflows" : [ {
    "id" : "2e645dbab6874a3eafa77ef06b97ea75",
    "name" : "",
    "status_id" : 1,
    "direct_to" : [ {
      "id" : "2e645dbab6874a3eafa77ef06b97ea75",
      "status_id" : 2,
      "name" : "",
      "enabled" : true
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.18 Creating a Work Item as a Fine-grained Permission User

Function

Users with the IAM fine-grained permission (projectmanConfig:systemSettingField:set) and the permission to create work items in the devcloud project can set the creator of work items.

URI

POST /v4/projects/{project_id}/system/issue

Table 4-187 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-188 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. Minimum: 10 Maximum: 32768

Table 4-189 Request body parameters

Parameter	Mandatory	Type	Description
actual_work_hours	No	Double	Indicates the actual person-hours.
assigned_id	No	Integer	Handler ID, which corresponds to the numeric ID of the user information.
begin_time	No	String	Start time, in the format of year-month-day.
description	No	String	Description
developer_id	No	Integer	Developer ID, which corresponds to the numeric ID of user information.
domain_id	No	Integer	ID domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber security', 18'Maintainability', 19'Other DFX', 20'Availability'
done_ratio	No	Integer	Work Item Progress Value

Parameter	Mandatory	Type	Description
end_time	No	String	End time, in the format of year-month-day.
expected_work_hours	No	Double	Expected
iteration_id	No	Integer	Identifies a sprint.
module_id	No	Integer	Specifies the module ID.
name	Yes	String	Title
parent_issue_id	No	Integer	ID of the parent work item. This parameter is mandatory when a child work item is created. The value of tracker_id of the parent work item cannot be 2 or 3.
priority_id	Yes	Integer	Priority, 1: low, 2, 3 high,
severity_id	No	Integer	Importance, 10 key, 11 important, 12 general, 13 Prompt,
status_id	No	Integer	Status ID, New 1, 2 in progress, 3 resolved, 4 in the test, 5 closed, 6 rejected,
tracker_id	Yes	Integer	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature, 7Story. The value 5 can only be the parent work item type of 6. 6 can only be the parent work item type of 7. The value 7 can only be the parent of 2 or 3.
new_custom_fields	No	Array of NewCustomField objects	Custom Item
creator	Yes	Creator object	
custom_fields	No	Array of ScrumCustomField objects	Custom Item

Table 4-190 NewCustomField

Parameter	Mandatory	Type	Description
custom_field	No	String	Custom Parameter
field_name	No	String	Custom field name
value	No	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-191 Creator

Parameter	Mandatory	Type	Description
user_id	Yes	String	ID of the creator of a specified work item.

Table 4-192 ScrumCustomField

Parameter	Mandatory	Type	Description
name	No	String	Custom Field
value	No	String	Indicates the customized field value.

Response Parameters

Status code: 200

Table 4-193 Response body parameters

Parameter	Type	Description
actual_work_hours	Double	Indicates the actual person-hours.
assigned_cc_user	Array of IssueUser objects	Copy To
assigned_user	IssueUser object	
begin_time	String	Start time, in the format of year-month-day.
creator	IssueUser object	

Parameter	Type	Description
custom_fields	Array of CustomField objects	Customized attribute value, which is not recommended. You are advised to refer to the new_custom_fields field.
new_custom_fields	Array of NewCustomField objects	Attribute Value
developer	IssueUser object	
domain	domain object	ID domain, 14'Performance', 15'Function', 16'Reliability', 17'Cyber Security', 18'Maintainability', 19'Other DFX', 20'Availability',
done_ratio	Integer	Work Item Progress Value
end_time	String	End time, in the format of year-month-day.
expected_work_hours	Double	Expected
id	Integer	Work Item ID
project	IssueProjectResponseV4 object	Project Information
iteration	iteration object	Sprint
module	module object	Module
parent_issue	parent_issue object	Parent Work Item
priority	priority object	Work Item Priority
severity	severity object	Work Item Importance
status	status object	Work Item Statuses
tracker	tracker object	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.

Table 4-194 IssueUser

Parameter	Type	Description
user_id	String	uuid
user_num_id	Integer	id
id	Integer	Specifies the user ID.
name	String	User Name
nick_name	String	Nickname

Table 4-195 CustomField

Parameter	Type	Description
name	String	Custom Attribute
value	String	Value of a customized attribute.
new_name	String	Custom Attribute

Table 4-196 NewCustomField

Parameter	Type	Description
custom_field	String	Custom Parameter
field_name	String	Custom field name
value	String	Value of a customized attribute. Use commas (,) to separate multiple values.

Table 4-197 domain

Parameter	Type	Description
id	Integer	Identifies a domain.
name	String	fields

Table 4-198 IssueProjectResponseV4

Parameter	Type	Description
project_id	String	Project ID
project_name	String	Project

Parameter	Type	Description
project_num_id	Integer	Project ID

Table 4-199 iteration

Parameter	Type	Description
id	Integer	Identifies a sprint.
name	String	Iteration Name

Table 4-200 module

Parameter	Type	Description
id	Integer	Specifies the module ID.
name	String	Module

Table 4-201 parent_issue

Parameter	Type	Description
id	Integer	Parent Work Item ID
name	String	Parent Work Item

Table 4-202 priority

Parameter	Type	Description
id	Integer	Identifies a priority.
name	String	Priority

Table 4-203 severity

Parameter	Type	Description
id	Integer	Identifies a severity.
name	String	Indicates the level of severity.

Table 4-204 status

Parameter	Type	Description
id	Integer	Status ID.
name	String	Status Name

Table 4-205 tracker

Parameter	Type	Description
id	Integer	Type ID
name	String	Object

Status code: 400**Table 4-206** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-207** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/system/issue
```

```
{
  "parent_issue_id" : 1679822,
  "end_time" : "2018-07-05",
  "name" : "test",
  "begin_time" : "2018-1-31",
  "description" : "",
  "assigned_id" : 4091,
  "developer_id" : 4091,
  "tracker_id" : 3,
  "status_id" : 1,
  "priority_id" : 2,
```

```
"severity_id" : 10,  
"iteration_id" : 11302238,  
"creator" : {  
  "user_id" : "a360371833bf4c558f796fd707b44daf"  
}  
}
```

Example Responses

Status code: 200

OK

```
{  
  "actual_work_hours" : 0,  
  "assigned_cc_user" : [ {  
    "id" : 4091,  
    "name" : "demo_user_name",  
    "nick_name" : "bear"  
  } ],  
  "assigned_user" : {  
    "id" : 4091,  
    "name" : "demo_user_name",  
    "nick_name" : "bear"  
  },  
  "begin_time" : "2020-09-12",  
  "creator" : {  
    "id" : 4091,  
    "name" : "demo_user_name",  
    "nick_name" : "bear"  
  },  
  "custom_fields" : [ {  
    "name" : "customField16",  
    "value" : "",  
    "new_name" : "custom_field16"  
  } ],  
  "new_custom_fields" : [ {  
    "custom_field" : "custom_field16",  
    "field_name" : "field_name",  
    "value" : "2"  
  } ],  
  "developer" : {  
    "id" : 4091,  
    "name" : "demo_user_name",  
    "nick_name" : "bear1"  
  },  
  "domain" : {  
    "id" : 14,  
    "name" : ""  
  },  
  "done_ratio" : 0,  
  "end_time" : "2020-09-19",  
  "expected_work_hours" : 9,  
  "id" : 4567,  
  "project" : {  
    "project_id" : "526cefde62004de2b62b5e8dd2c2b3af",  
    "project_name" : "testDemo",  
    "project_num_id" : 78953  
  },  
  "iteration" : {  
    "id" : 456,  
    "name" : ""  
  },  
  "module" : {  
    "id" : 456,  
    "name" : "Project"  
  },  
  "parent_issue" : {  
    "id" : 123,  
  }  
}
```

```
    "name" : "parentIssue"
  },
  "priority" : {
    "id" : 1,
    "name" : ""
  },
  "severity" : {
    "id" : 12,
    "name" : ""
  },
  "status" : {
    "id" : 1,
    "name" : ""
  },
  "tracker" : {
    "id" : 7,
    "name" : "story"
  }
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.19 Queries the work items associated with the current work item.

Function

Queries the work items associated with the current work item.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-issues

Table 4-208 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	Work Item ID

Table 4-209 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records on each page
offset	No	Integer	Offset

Request Parameters

Table 4-210 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-211 Response body parameters

Parameter	Type	Description
issues	Array of AssociateIssueDetail objects	Associated Work Item List
total	Integer	Total

Table 4-212 AssociateIssueDetail

Parameter	Type	Description
subject	String	Indicates the title of the work item.
issue_id	Integer	Work Item ID
project	SimpleProject object	
user	SimpleUser object	
status	StatusVo object	Status

Table 4-213 SimpleProject

Parameter	Type	Description
project_name	String	Project name
project_id	String	Project ID

Table 4-214 SimpleUser

Parameter	Type	Description
user_num_id	Integer	User ID
user_id	String	Indicates the user UUID.
user_name	String	Account name
nick_name	String	Nickname of the user.

Table 4-215 StatusVo

Parameter	Type	Description
id	String	Identifies a status.
name	String	Value of the status ID.

Status code: 400

Table 4-216 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-217** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associated-issues

Example Responses

Status code: 200

```
{
  "issues": [ {
    "subject": "demo",
    "issue_id": 1234,
    "project": {
      "project_name": "demo",
      "project_id": "58d9050550c847c89885c1797a718b0c"
    },
    "user": {
      "user_num_id": 4091,
      "user_id": "a360371833bf4c558f796fd707b44daf",
      "user_name": "demo_user_name_xiongzhitest001",
      "nick_name": "bear"
    },
    "status": {
      "id": "1",
      "name": ""
    }
  } ],
  "total": 12
}
```

Status Codes

Status Code	Description
200	
400	Bad Request

Status Code	Description
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.20 Queries the associated Wikis associated with the current work item.

Function

Queries the associated Wikis associated with the current work item.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-wikis

Table 4-218 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Work Item ID

Table 4-219 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records on each page
offset	No	Integer	Offset

Request Parameters

Table 4-220 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200**Table 4-221** Response body parameters

Parameter	Type	Description
wikis	Array of AttachWikiDetail objects	Associated wiki list
total	Integer	Total

Table 4-222 AttachWikiDetail

Parameter	Type	Description
issue_id	Integer	Work Item ID
wiki_title	String	Wiki Title
wiki_author	SimpleUser object	
project	SimpleProject object	
created_date	String	Created
wiki_id	String	wiki ID
region	String	Indicates the region value.

Table 4-223 SimpleUser

Parameter	Type	Description
user_num_id	Integer	User ID
user_id	String	Indicates the user UUID.
user_name	String	Account name
nick_name	String	Nickname of the user.

Table 4-224 SimpleProject

Parameter	Type	Description
project_name	String	Project name
project_id	String	Project ID

Status code: 400**Table 4-225** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-226** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associated-wikis
```

Example Responses

Status code: 200

```
{  
  "wikis": [ {
```

```
"issue_id" : 1234,
"wiki_title" : "wikidemo",
"wiki_author" : {
  "user_num_id" : 4091,
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_name" : "demo_user_name_xiongzhitest001",
  "nick_name" : "demo"
},
"project" : {
  "project_name" : "demo",
  "project_id" : "58d9050550c847c89885c1797a718b0c"
},
"created_date" : "2021-11-18 19:47:34",
"wiki_id" : "1839097",
"region" : "cn-north-xxx"
}],
"total" : "success"
}
```

Status Codes

Status Code	Description
200	
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.21 Queries the code submission records or branch creation records associated with the current work item.

Function

Queries the code submission records or branch creation records associated with the current work item.

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associated-commits

Table 4-227 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Parameter	Mandatory	Type	Description
issue_id	Yes	Integer	Work Item ID

Table 4-228 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Query type. The options are commit (submission record) and branch (branch record).
limit	No	Integer	Number of records on each page
offset	No	Integer	Offset

Request Parameters

Table 4-229 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-230 Response body parameters

Parameter	Type	Description
commits	Array of CommitRecordDetail objects	Submission Record List
total	Integer	Total

Table 4-231 CommitRecordDetail

Parameter	Type	Description
repository_id	String	Warehouse ID
branch_name	String	Branch Name
commit_id	String	commit id
commit_short_id	String	commit short id
commit_msg	String	Commit information
commit_url	String	commit URL
user	SimpleUser object	
type	String	Item type.
create_date	String	Created
update_date	String	Update time.

Table 4-232 SimpleUser

Parameter	Type	Description
user_num_id	Integer	User ID
user_id	String	Indicates the user UUID.
user_name	String	Account name
nick_name	String	Nickname of the user.

Status code: 400

Table 4-233 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-234 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associated-commits
```

```
GET https://{endpoint}/v4/projects/a360371833bf4c558f796fd707b44daf/issues/122344/associated-commits
```

Example Responses

Status code: 200

```
{
  "commits": [ {
    "repository_id": "1865706",
    "branch_name": "master",
    "commit_id": "f608b02311d90f311c41711fdf67003c31305b89",
    "commit_short_id": "f608b023",
    "commit_msg": "demo",
    "commit_url": "https://xxx.xxx/xxxx/commit/791877f7d0e0b2032bc5e38425c1245e804e8741?ref=master",
    "user": {
      "user_num_id": 4091,
      "user_id": "a360371833bf4c558f796fd707b44daf",
      "user_name": "demo_user_name_xiongzhitest001",
      "nick_name": "bear"
    },
    "type": "branch",
    "create_date": "2021-11-18 19:47:34",
    "update_date": "2021-11-18 19:47:34"
  } ],
  "total": "success"
}
```

Status Codes

Status Code	Description
200	
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.22 Querying Associated Wikis

Function

Querying Associated Wikis

URI

GET /v4/projects/{project_id}/issues/{issue_id}/associate-test-cases

Table 4-235 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
issue_id	Yes	Integer	Work Item ID

Table 4-236 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records on each page
offset	No	Integer	Offset

Request Parameters

Table 4-237 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-238 Response body parameters

Parameter	Type	Description
test_cases	Array of AssociatedTestCase objects	List of Associated Test Cases
total	Integer	Total

Table 4-239 AssociatedTestCase

Parameter	Type	Description
case_id	String	Case ID
case_num	String	Case No.
case_name	String	Case Name
case_level	String	Case Level
status	StatusVo object	Status
creator	SimpleUser object	
owner	SimpleUser object	
project	SimpleProject object	
is_base_line	Integer	Baseline or Not
type	String	Case Type
created_time	Long	Created

Table 4-240 StatusVo

Parameter	Type	Description
id	String	Identifies a status.
name	String	Value of the status ID.

Table 4-241 SimpleUser

Parameter	Type	Description
user_num_id	Integer	User ID
user_id	String	Indicates the user UUID.
user_name	String	Account name
nick_name	String	Nickname of the user.

Table 4-242 SimpleProject

Parameter	Type	Description
project_name	String	Project name
project_id	String	Project ID

Status code: 400**Table 4-243** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-244** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/{project_id}/issues/{issue_id}/associate-test-cases
```

```
GET https://{endpoint}/v4/projects/a360371833bf4c558f796fd707b44daf/issues/1234/associate-test-cases
```

Example Responses

Status code: 200

ok

```
{
  "test_cases": [ {
    "case_id": "36cfaab019dc49cdb53b07aefe553f5a",
    "case_num": "1",
    "case_name": "demo",
    "case_level": "2",
    "status": {
      "id": "1",
      "name": ""
    },
    "creator": {
      "user_num_id": 4091,
      "user_id": "a360371833bf4c558f796fd707b44daf",
      "user_name": "demo_user_name_xiongzhitest001",
      "nick_name": "bear1"
    },
    "owner": {
      "user_num_id": 4091,
      "user_id": "a360371833bf4c558f796fd707b44daf",
      "user_name": "demo_user_name_xiongzhitest001",
      "nick_name": "bear1"
    },
    "project": {
      "project_name": "demo",
      "project_id": "58d9050550c847c89885c1797a718b0c"
    },
    "is_base_line": 0,
    "type": "1",
    "created_time": 1233445566000
  } ],
  "total": 0
}
```

Status Codes

Status Code	Description
200	ok
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.23 Querying Customized Fields of Scrum Work Items

Function

Queries the optional list of customized fields of the Scrum work item. All fields that meet the `custom_fields` or `names` condition are returned. If neither of the two values is transferred, the list of all customized fields is returned.

URI

POST /v4/projects/{project_id}/issues/custom-fields

Table 4-245 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-246 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 4-247 Request body parameters

Parameter	Mandatory	Type	Description
custom_fields	No	Array of strings	Custom Parameter
names	No	Array of strings	Meanings displayed on the customized field page

Response Parameters

Status code: 200

Table 4-248 Response body parameters

Parameter	Type	Description
datas	Array of IssueCustomField objects	Data Returned by Customized Fields

Table 4-249 IssueCustomField

Parameter	Type	Description
name	String	Custom Parameter
custom_field	String	Custom Parameter
options	String	Optional values of a customized field. Use commas (,) to separate multiple values.
type	String	User-defined field type, <i>textArea</i> : multi-line text, which can contain only Chinese characters, uppercase letters, lowercase letters, digits, underscores (_), and hyphens (-) and cannot exceed 500 characters. <i>text</i> : single-line text, which can contain only Chinese characters, uppercase letters, lowercase letters, digits, underscores (_), and hyphens (-) and cannot exceed 500 characters. The select drop-down list box can contain only Chinese characters, uppercase letters, lowercase letters, digits, underscores (_), and hyphens (-). Each option can contain a maximum of 40 characters. A maximum of 60 options can be defined. <i>number</i> : The value range is set when a user creates a customized field. The value of <i>date</i> is accurate to year, month, and day, and the value of <i>time_date</i> is accurate to hour, minute, and second. The value is a long integer timestamp. The check box can contain only Chinese characters, uppercase letters, lowercase letters, digits, underscores (_), and hyphens (-). Each option can contain a maximum of 40 characters. A maximum of 60 options can be defined. The radio option button can contain only Chinese characters, uppercase letters, lowercase letters, digits, underscores (_), and hyphens (-). Each option can contain a maximum of 40 characters. A maximum of 60 options can be defined.
tracker_ids	Array of integers	Work item types supported by user-defined fields: 2 task/task, 3 defect /Bug,5Epic, 6Feature,7Story

Status code: 400

Table 4-250 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-251** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post <https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/issues/custom-fields>

```
{  
  "names": [ "Drop-down list box demo" ]  
}
```

Example Responses**Status code: 200**

OK

```
{  
  "datas": [{  
    "name": "selectName",  
    "custom_field": "custom_field16",  
    "options": "selectName1,selectName2",  
    "type": "ratio",  
    "tracker_ids": [ 7 ]  
  }]  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.24 Downloading an Image

Function

Downloads an image.

URI

GET /v4/projects/{project_id}/image-file

Table 4-252 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	32-bit ID of a DevCloud project

Table 4-253 Query Parameters

Parameter	Mandatory	Type	Description
image_uri	Yes	String	Image URI

Request Parameters

Table 4-254 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

Response Parameters

Status code: 400

Table 4-255 Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

Status code: 401

Table 4-256 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/2c42a6d37ccc4197bf0b3dbe91be021a/image-file?image_uri=/v1/upload/2c42a6d37ccc4197bf0b3dbe91be021a/202209/1662003438194761550.png
```

Example Responses

None

Status Codes

Status Code	Description
200	Binary file
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.1.25 Uploading an Attachment to a Work Item

Function

Uploads an attachment to a work item.

URI

POST /v4/projects/{project_id}/issues/{issue_id}/attachments/upload

Table 4-257 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
issue_id	Yes	String	Work item ID

Request Parameters

Table 4-258 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

Table 4-259 FormData parameters

Parameter	Mandatory	Type	Description
attachment	Yes	File	Attachment file. The maximum size is 50 MB.

Response Parameters

Status code: 200

Table 4-260 Response body parameters

Parameter	Type	Description
id	Integer	ID of the associated work item
issue_id	Integer	Work item ID
project_id	String	Project ID
disk_filename	String	Storage name on cloud disks
file_name	String	File name
size	String	File size

Status code: 400

Table 4-261 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-262** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post `https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/attachments/upload`

Example Responses

Status code: 200

```
{
  "id" : "1234,",
  "issue_id" : "1232,",
  "project_id" : "2c42a6d37ccc4197bf0b3dbe91be021a",
  "disk_filename" : "adfadsfasdfa.jpg",
  "file_name" : "demo.jpg",
  "size" : "1233"
}
```

Status Codes

Status Code	Description
200	
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.2 Iteration of the Scrum Project

4.2.1 Obtaining Sprints of a Specified Project

Function

Obtain Project Iteration

URI

GET /v4/projects/{project_id}/iterations

Table 4-263 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Table 4-264 Query Parameters

Parameter	Mandatory	Type	Description
updated_time_interval	No	String	Update iteration time (query start time and query end time).
include_deleted	No	Boolean	Indicates whether deleted iterations are included. The default value is false, indicating that deleted iterations are not included.

Request Parameters

Table 4-265 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-266 Response body parameters

Parameter	Type	Description
total	Integer	Total Iterations
iterations	Array of iterations objects	Iteration information

Table 4-267 iterations

Parameter	Type	Description
description	String	Indicates the description of the sprint.
end_time	String	Indicates the end date of the sprint.
id	Integer	Identifies a sprint.
name	String	Indicates the title of the sprint.
begin_time	String	Indicates the start date of the sprint.
status	String	Iteration Status
updated_time	Long	Iteration update time, which is a long integer timestamp.
deleted	Boolean	Indicates whether the iteration has been deleted. The options are false (not deleted) and true (deleted).

Status code: 400**Table 4-268** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-269** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/iterations
```

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/iterations
```

Example Responses

Status code: 200

OK

```
{
  "total" : 3,
  "iterations" : [ {
    "description" : "description",
    "end_time" : "2019-10-17",
    "id" : 9725885,
    "name" : "html",
    "begin_time" : "2019-10-10",
    "status" : "0",
    "updated_time" : 1640231944000,
    "deleted" : false
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request

Status Code	Description
401	Unauthorized

Error Codes

See [Error Codes](#).

4.2.2 Deleting Iterations of Projects in Batches

Function

Deleting Iterations of Projects in Batches

URI

DELETE /v4/projects/{project_id}/iterations

Table 4-270 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-271 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. Minimum: 10 Maximum: 32768

Table 4-272 Request body parameters

Parameter	Mandatory	Type	Description
iteration_ids	Yes	Array of integers	Iteration ID.

Response Parameters

Status code: 400

Table 4-273 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-274 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Delete <https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iterations>

```
{
  "iteration_ids" : [ 11302238, 11470756 ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request

Status Code	Description
401	Unauthorized

Error Codes

See [Error Codes](#).

4.2.3 Viewing Iteration Details

Function

Viewing Iteration Details

URI

GET /v4/iterations/{iteration_id}

Table 4-275 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	Integer	Identifies a sprint.

Request Parameters

Table 4-276 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. The token 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: **200**

Table 4-277 Response body parameters

Parameter	Type	Description
begin_time	String	Iteration end time, in the format of year-month-day.
charts	Array of Chart objects	Burndown Chart
closed_total	Integer	Number of Closed Work Orders
created_time	String	Iteration Creation Time
end_time	String	Iteration start time, in the format of year-month-day.
have_task	Boolean	Indicates whether a task exists.
iteration_id	Integer	Identifies a sprint.
name	String	Indicates the title of the sprint.
opened_total	Integer	Number of Open Work Orders
progress	String	Progress
total	Integer	Total Number of Work Orders
updated_time	String	Iteration Update Time
status	String	Iteration status. The options are as follows: 0: not started; 1: in progress; 2: ended.

Table 4-278 Chart

Parameter	Type	Description
date	String	Statistics period
finished_num	Integer	Complete story work orders.
iteration_id	Integer	Identifies a sprint.
project_num_id	Integer	Project ID
remaining_num	Integer	Number of Uncompleted Stories
total	Integer	Total number of stories

Status code: 400

Table 4-279 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-280** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/iterations/11225793
```

```
Get https://{endpoint}/v4/iterations/11225793
```

Example Responses

Status code: 200

OK

```
{
  "begin_time" : "2020-07-12",
  "charts" : [ {
    "date" : "2020-09-12",
    "finished_num" : 1,
    "iteration_id" : 3789,
    "project_num_id" : 36587463,
    "remaining_num" : 3,
    "total" : 4
  } ],
  "closed_total" : 1,
  "created_time" : "2020-06-31 09:10:03",
  "end_time" : "2020-07-19",
  "have_task" : false,
  "iteration_id" : 35789,
  "name" : "1",
  "opened_total" : 3,
  "progress" : "25%",
  "total" : 4,
  "updated_time" : "2020-06-31 09:10:03",
  "status" : "0"
}
```


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.2.4 Creating a Scrum Project Iteration

Function

Creating a Scrum Project Iteration

URI

POST /v4/projects/{project_id}/iteration

Table 4-281 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-282 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. Minimum: 10 Maximum: 32768

Table 4-283 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	Yes	String	Start time, in the format of year-month-day.
description	No	String	Description
end_time	Yes	String	End time, in the format of year-month-day.
name	Yes	String	Title

Response Parameters

Status code: 201

Table 4-284 Response body parameters

Parameter	Type	Description
id	Integer	Identifies a sprint.

Status code: 400

Table 4-285 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-286 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Post https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration
{
```

```
"end_time" : "2018-07-05",  
"name" : "Iteration 1",  
"begin_time" : "2018-1-31",  
"description" : ""  
}
```

Example Responses

Status code: 201

OK

```
{  
  "id" : 7312121  
}
```

Status Codes

Status Code	Description
201	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.2.5 Update Scrum Project Iteration

Function

Update Scrum Project Iteration

URI

PUT /v4/projects/{project_id}/iterations/{iteration_id}

Table 4-287 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
iteration_id	Yes	Integer	Identifies a sprint.

Request Parameters

Table 4-288 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. Minimum: 10 Maximum: 32768

Table 4-289 Request body parameters

Parameter	Mandatory	Type	Description
begin_time	Yes	String	Start time, in the format of year-month-day.
description	No	String	Description
end_time	Yes	String	End time, in the format of year-month-day.
name	Yes	String	Title
status	No	String	Iteration status. The options are as follows: 0: not started <--> 1: in progress <--> 2: ended <--> 1<--> 0. The status cannot be changed across states.
over_type	No	String	When the iteration ends, all work items are closed, and work items that are not closed are placed in the block. When the value of status is updated to 2, over_type needs to be set.

Response Parameters

Status code: 400

Table 4-290 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-291** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Put https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration/11225793
{
  "end_time" : "2018-07-05",
  "name" : "sttes32s3",
  "begin_time" : "2018-1-31",
  "description" : ""
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.2.6 Delete Project Iteration

Function

Delete Project Iteration

URI

DELETE /v4/projects/{project_id}/iterations/{iteration_id}

Table 4-292 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
iteration_id	Yes	Integer	Identifies a sprint.

Request Parameters

Table 4-293 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: **400**

Table 4-294 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-295** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Delete https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration/11225793
```

```
Delete https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/iteration/11470756
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.2.7 Viewing Historical Iteration Records

Function

Viewing Historical Iteration Records

URI

GET /v4/iterations/{iteration_id}/histories

Table 4-296 Path Parameters

Parameter	Mandatory	Type	Description
iteration_id	Yes	Integer	Identifies a sprint.

Table 4-297 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Offset Minimum: 0 Default: 0
limit	No	Integer	Number of records on each page. The maximum value is 100. Minimum: 1 Maximum: 100 Default: 10

Request Parameters

Table 4-298 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: **200**

Table 4-299 Response body parameters

Parameter	Type	Description
total	Integer	Total
histories	Array of IterationHistory objects	History

Table 4-300 IterationHistory

Parameter	Type	Description
iteration_id	String	Iteration ID
project_id	String	Project ID
operator	operator object	Change Operator
operate	String	Operation Type (Added, Modified, and Deleted)
operate_time	String	Operated
details	Array of details objects	Detail

Table 4-301 operator

Parameter	Type	Description
user_id	String	Indicates the user UUID.
user_name	String	User Name
nick_name	String	Nickname
domain_id	String	Indicates the tenant UUID.
domain_name	String	Tenant Name

Table 4-302 details

Parameter	Type	Description
operate_field_name	String	Changed Field
new_value	String	Value After Operation
old_value	String	Value Before Operation

Status code: 400

Table 4-303 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-304** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Get <https://{endpoint}/v4/iterations/11225793/histories>

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "histories": [ {
    "iteration_id": 123454,
    "project_id": "19274e1adffb4cc0b866ef6dd3ad0100",
    "operator": {
      "user_id": "0a938608ac00f2271f2ec01ccb94c19",
      "user_name": "Banna",
      "nick_name": "",
      "domain_id": "9b33eb1d219140fea54d3b5ac689b073",
      "domain_name": "devcloud_test"
    },
    "operate": "NEW",
    "operate_time": "1665473746000",
    "details": [ {
      "operate_field_name": "name",
      "old_value": null,
      "new_value": "test"
    }, {
      "operate_field_name": "description",
      "old_value": null,
      "new_value": null
    }, {
      "operate_field_name": "end_time",
      "old_value": null,
      "new_value": "1664380800000"
    }, {
      "operate_field_name": "status",
      "old_value": null,
      "new_value": "0"
    }, {

```

```
"operate_field_name" : "begin_time",  
"old_value" : null,  
"new_value" : "1663776000000"  
}, {  
"operate_field_name" : "program_version_id",  
"old_value" : null,  
"new_value" : "-1"  
}]  
}]  
}]  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.3 User Information

4.3.1 Obtains the current user information.

Function

Obtains the current user information.

URI

GET /v4/user

Request Parameters

Table 4-305 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200**Table 4-306** Response body parameters

Parameter	Type	Description
domain_id	String	Tenant ID
domain_name	String	Tenant Name
user_num_id	Integer	User ID
user_id	String	Specifies the user ID.
user_name	String	User Name
nick_name	String	Nickname of the user.
created_time	Long	Created
updated_time	Long	Update time.
gender	String	Gender
user_type	String	User type, User: cloud user, Federation Account,

Status code: 400**Table 4-307** Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

Status code: 401

Table 4-308 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/user
```

```
Get https://{endpoint}/v4/user
```

Example Responses

Status code: 200

OK

```
{
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
  "domain_name" : "demo_user_name",
  "user_num_id" : "4060",
  "user_id" : "a360371833bf4c558f796fd707b44daf",
  "user_name" : "demo_user_name",
  "nick_name" : "",
  "created_time" : "1562318865000",
  "updated_time" : "1598074854000",
  "gender" : "male",
  "user_type" : "User"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.3.2 Obtains the role of the current user.

Function

Obtaining the Role of a User in a Project

URI

GET /v4/projects/{project_id}/user-role

Table 4-309 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-310 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: **200**

Table 4-311 Response body parameters

Parameter	Type	Description
user_role	Integer	User Role ID Member Role, -1: project creator, 3 project manager, 4 developers, 5 test manager, 6 test personnel, 7 participant, 8 viewer, 9 O&M manager

Status code: 400**Table 4-312** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-313** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/user-role
```

Example Responses

Status code: 200

OK

```
{  
  "user_role" : 3  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.3.3 Updating a User Nickname

Function

Updating a User Nickname

URI

PUT /v4/user

Request Parameters

Table 4-314 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User Token

Table 4-315 Request body parameters

Parameter	Mandatory	Type	Description
nick_name	Yes	String	Nickname of the user.

Response Parameters

Status code: 400

Table 4-316 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-317 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/user
{
  "nick_name" : "Tom"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.3.4 Updating the Nickname of a Subuser

Function

A user with the te_admin role can update the nicknames of other users.

URI

PUT /v4/domain/child-users

Request Parameters

Table 4-318 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User Token

Table 4-319 Request body parameters

Parameter	Mandatory	Type	Description
users	Yes	Array of UpdateChildUserNickNameRequestBody objects	List of modified users.

Table 4-320 UpdateChildUserNickNameRequestBody

Parameter	Mandatory	Type	Description
nick_name	Yes	String	Nickname of the user.
user_id	Yes	String	User ID

Response Parameters

Status code: 400

Table 4-321 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-322 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/domain/child-users
{
  "users": [ {
    "nick_name": "Tom",
    "user_id": "08777d423500d4b01fe5c008d04336ab"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.4 Project members

4.4.1 Quitting a Project

Function

If a project member proactively quits the project, the project creator cannot quit the project.

URI

DELETE /v4/projects/{project_id}/quit

Table 4-323 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-324 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 400

Table 4-325 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-326 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Delete https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/quit
```

```
Delete https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/quit
```

Example Responses

None

Status Codes

Status Code	Description
204	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.4.2 Obtaining the Member List of a Specified Project

Function

Obtaining the Project Member List

URI

GET /v4/projects/{project_id}/members

Table 4-327 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Table 4-328 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Specifies the paging index and offset. offset is an integer multiple of limit. limit=10,offset=0,10,20... Minimum: 0 Maximum: 10000 Default: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Number of records displayed on each page. A maximum of 100 records can be displayed on each page. Minimum: 1 Maximum: 100 Default: 100

Request Parameters

Table 4-329 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: **200**

Table 4-330 Response body parameters

Parameter	Type	Description
members	Array of members objects	Project Members
total	Integer	Total

Table 4-331 members

Parameter	Type	Description
domain_id	String	Tenant ID Minimum: 32 Maximum: 32

Parameter	Type	Description
domain_name	String	Tenant Name
user_id	String	Specifies the user ID.
user_name	String	User Name
user_num_id	Integer	Creator numId
role_id	Integer	Member Role, -1: project creator, 3 project manager, 4 developers, 5 test manager, 6 test personnel, 7 participant, 8 viewer, 9 O&M manager
nick_name	String	Nickname of the user.
role_name	String	User Roles
user_type	String	User type, User iam user, Federation Account,
forbidden	Integer	Indicates whether the account is disabled. The options are as follows: 1: yes 0: no

Status code: 400**Table 4-332** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-333** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/members
```

```
Get https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/members
```

Example Responses

Status code: 200

OK

```
{
  "members" : [ {
    "domain_id" : "4e919d73499648e3b0292cd3cbef806a",
    "domain_name" : "demo_user_name",
    "user_id" : "a360371833bf4c558f796fd707b44daf",
    "user_name" : "demo_user_name",
    "user_num_id" : 4097,
    "role_id" : 7,
    "nick_name" : "name",
    "role_name" : "",
    "user_type" : "User",
    "forbidden" : 0
  } ],
  "total" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.4.3 Adding Project Members in Batches

Function

When you add project members in batches, only members under the same tenant as the project creator can be added. Incorrect user IDs will be skipped. If the added users exceed the permission, the default role is set to 7.

URI

POST /v4/projects/{project_id}/members

Table 4-334 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-335 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. Minimum: 10 Maximum: 32768

Table 4-336 Request body parameters

Parameter	Mandatory	Type	Description
users	Yes	Array of BatchAddMemberRequestV4 objects	Information about the added user

Table 4-337 BatchAddMemberRequestV4

Parameter	Mandatory	Type	Description
role_id	No	Integer	Member Role, -1: project creator, 3 project manager, 4 developers, 5 test manager, 6 test personnel, 7 participant, 8 viewer, 9 O&M manager
user_id	Yes	String	32-bit UUID of a user.

Response Parameters

Status code: 400

Table 4-338 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-339 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/members
{
  "users": [ {
    "user_id": "665b542eb4c14b53a15ead449f28b0ba",
    "role_id": 5
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.4.4 Deleting Project Members in Batches

Function

Deleting Project Members in Batches

URI

DELETE /v4/projects/{project_id}/members

Table 4-340 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-341 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. The token 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. Minimum: 10 Maximum: 32768

Table 4-342 Request body parameters

Parameter	Mandatory	Type	Description
user_ids	Yes	Array of strings	Specifies the user ID. Minimum: 32 Maximum: 32

Response Parameters

Status code: 400

Table 4-343 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-344** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/members  
[ "665b542eb4c14b53a15ead449f28b0ba" ]
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.4.5 Update the role of a member in the project.

Function

Update the role of a member in the project.

URI

POST /v4/projects/{project_id}/members/role

Table 4-345 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-346 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Table 4-347 Request body parameters

Parameter	Mandatory	Type	Description
role_id	Yes	Integer	Member Role, -1: project creator, 3 project manager, 4 developers, 5 test manager, 6 test personnel, 7 participant, 8 viewer, 9 O&M manager
user_ids	Yes	Array of strings	Specifies the user ID.

Response Parameters

Status code: 400

Table 4-348 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-349 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Post https://{endpoint}/v4/projects/e2da96a5d2c845e284f0ad47f8ca8cb1/members/role
```

```
{  
  "user_ids" : [ "08777d423500d4b01fe5c008d04336ab" ],  
  "role_id" : 7  
}
```

Example Responses

None

Status Codes

Status Code	Description
204	ok
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.4.6 Add project members

Function

Add project members. Cross-tenant members can be added.

URI

POST /v4/projects/{project_id}/member

Table 4-350 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-351 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Table 4-352 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	No	String	Tenant Name (When adding a user across tenants, enter the correct tenant name. You can proactively authorize unauthorized tenants and add the user as a project member.)
domain_id	Yes	String	Tenant ID
role_id	No	Integer	'Role ID of the user in the project' Member Role, -1: project creator, 3 project manager, 4 developers, 5 test manager, 6 test personnel, 7 participant, 8 viewer, 9 O&M manager
user_id	Yes	String	32-bit UUID of a user.

Response Parameters

Status code: 400

Table 4-353 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-354 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
POST https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/member
{
  "user_id" : "665b542eb4c14b53a15ead449f28b0ba",
  "role_id" : 5,
  "domain_id" : "4e919d73499648e3b0292cd3cbef806a"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.4.7 AGC calls the current user to apply for joining in a project.

Function

AGC calls the current user to apply for joining in the project. The applied user ID is written in the header.

URI

GET /v4/projects/{project_id}/members/agc-join

Table 4-355 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-356 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. Minimum: 10 Maximum: 32768
Domain-Id	Yes	String	Tenant ID Minimum: 32 Maximum: 32
User-Id	Yes	String	User ID. Minimum: 32 Maximum: 32

Response Parameters

Status code: 400

Table 4-357 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-358** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/members/agc-join
```

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/members/agc-join
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.5 Project Information

4.5.1 Updating a Project

Function

Updating a Project

URI

PUT /v4/projects/{project_id}

Table 4-359 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-360 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 4-361 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description
project_name	Yes	String	Project name Minimum: 1 Maximum: 128

Response Parameters

Status code: 400

Table 4-362 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-363** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af
{
  "project_name" : "ProjectUnionSDKTest_lj9",
  "description" : "2222"
}
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.5.2 Deleting a Project

Function

Deleting a Project

URI

DELETE /v4/projects/{project_id}

Table 4-364 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-365 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). Minimum: 10 Maximum: 32768

Response Parameters

Status code: 400

Table 4-366 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-367 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af
```

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.5.3 Querying Projects

Function

Querying Projects

URI

GET /v4/projects

Table 4-368 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	The offset starts from 0. Minimum: 0 Maximum: 10000 Default: 0

Parameter	Mandatory	Type	Description
limit	Yes	Integer	The minimum value is 1 and the maximum value is 1000. Minimum: 1 Maximum: 1000 Default: 10
search	No	String	Fuzzy query of project names or descriptions. Advanced query such as wildcard characters is not supported.
project_type	No	String	Project Type scrum xboard
sort	No	String	Sorting condition. By default, the creation time is sorted in descending order (name created_on)(asc desc).
archive	No	String	Indicates whether to archive. true: yes; false: no
query_type	No	String	By default, the list of projects that the current user participates in is returned. domain_projects indicates the list of all projects under the tenant. absent indicates the list of tenant projects that the current user does not participate in.

Request Parameters

Table 4-369 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. The token 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-370 Response body parameters

Parameter	Type	Description
projects	Array of projects objects	Project Information List
total	Integer	Number of projects Minimum: 0 Maximum: 10000

Table 4-371 projects

Parameter	Type	Description
project_num_id	Integer	Project numId
project_id	String	Project UUID.
project_name	String	Project
description	String	Description
created_time	Long	Indicates the time when the project is created.
updated_time	Long	Indicates the time when the project is updated.
project_type	String	Project Type
creator	creator object	Initiator Info

Table 4-372 creator

Parameter	Type	Description
user_num_id	Integer	Creator numId
user_id	String	Creator ID
user_name	String	Creator name
domain_id	String	Creator tenant ID.
domain_name	String	Tenant name of the creator.
nick_name	String	Tenant nickname of the creator.

Status code: 400**Table 4-373** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-374** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 403**Table 4-375** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects?  
limit=10&offset=0&project_type=scrum&sort=&search=aa&archive=true&query_type=domain_projects
```

```
Get https://{endpoint}/v4/projects?  
limit=10&offset=0&project_type=scrum&sort=&search=aa&archive=true&query_type=domain_projects
```

Example Responses

Status code: 200

OK

```
{  
  "projects" : [ {  
    "project_num_id" : 3183801,  
    "project_id" : "41bd3eab86544863b8fc92ffcd35e3c8",  
    "project_name" : "aaa",  
    "description" : "demo",  
    "created_time" : 1576114296000,  
    "updated_time" : 1576114296000,  
    "project_type" : "xboard",
```

```
"creator" : {  
  "user_num_id" : 4097,  
  "user_id" : "c4bd39f0573a436589714bedbcca8536",  
  "user_name" : "modile_user",  
  "domain_id" : "2489d8cbba804db8bcd35384685ff3ac",  
  "domain_name" : "modile_user",  
  "nick_name" : "Tom.M.Riddle"  
}  
}],  
"total" : 10  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized
403	Forbidden

Error Codes

See [Error Codes](#).

4.5.4 Creating a Project

Function

Creating a Project

URI

POST /v4/project

Request Parameters

Table 4-376 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. Minimum: 10 Maximum: 32768

Table 4-377 Request body parameters

Parameter	Mandatory	Type	Description
project_name	Yes	String	Project Minimum: 1 Maximum: 128
description	No	String	Description
source	No	String	Project Source
project_type	Yes	String	Project type: scrum, xboard (Kanban project), basic, phoenix (Phoenix project)
enterprise_id	No	String	Specifies the ID of the enterprise project to be bound to the project.
template_id	No	Integer	ID of the project template created by the user.

Response Parameters

Status code: 200

Table 4-378 Response body parameters

Parameter	Type	Description
project_num_id	Integer	Project ID
project_id	String	Project ID Minimum: 32 Maximum: 32
project_name	String	Project name Minimum: 1 Maximum: 128
description	String	Description
project_type	String	Project Type
user_num_id	Integer	Creator ID.

Status code: 400

Table 4-379 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-380** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post https://{endpoint}/v4/project

```
{
  "project_name" : "TestDemo",
  "description" : "modify testxxxx",
  "project_type" : "scrum"
}
```

Example Responses**Status code: 200**

OK

```
{
  "project_num_id" : 708168641,
  "project_name" : "testdemo",
  "project_id" : "2e76d6f0b2c5403796e36bf63c5d5561",
  "user_num_id" : 700145037,
  "project_type" : "scrum",
  "description" : "this is demo"
}
```

Status code: 400

Bad Request

```
{
  "error_msg" : "param error",
  "error_code" : "PM.00000001"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.5.5 Obtaining Projects That an Account Has Not Joined

Function

Obtaining Projects That an Account Has Not Joined

URI

GET /v4/projects/domain/not-added

Table 4-381 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Specifies the paging index and offset. offset is an integer multiple of limit. limit=10,offset=0,10,20... Minimum: 0 Default: 0
limit	No	Integer	Number of records displayed on each page. A maximum of 100 records can be displayed on each page. Minimum: 1 Maximum: 100 Default: 10

Request Parameters

Table 4-382 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200**Table 4-383** Response body parameters

Parameter	Type	Description
projects	Array of projects objects	Project Information List
total	Integer	Total Minimum: 0 Maximum: 10000

Table 4-384 projects

Parameter	Type	Description
project_num_id	Integer	Project ID
project_id	String	Project ID Minimum: 32 Maximum: 32
project_name	String	Project name Minimum: 1 Maximum: 128
description	String	Description

Parameter	Type	Description
created_time	Long	Indicates the time when the project is created. Minimum: 0 Maximum: 13
updated_time	Long	Indicates the time when the project is updated. Minimum: 0 Maximum: 13
project_type	String	Project Type
creator	creator object	Initiator Info

Table 4-385 creator

Parameter	Type	Description
user_num_id	Integer	Creator numId
user_id	String	Creator ID Minimum: 1 Maximum: 32
user_name	String	Creator name
domain_id	String	Creator tenant ID. Minimum: 1 Maximum: 32
domain_name	String	Tenant name of the creator.
nick_name	String	Tenant nickname of the creator.

Status code: 400**Table 4-386** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-387 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/domain/not-added
```

```
Get https://{endpoint}/v4/projects/domain/not-added
```

Example Responses

Status code: 200

OK

```
{
  "projects" : [ {
    "project_num_id" : 3056544,
    "project_id" : "e2da96a5d2c845e284f0ad47f8ca8cb1",
    "project_name" : "dsadasdsasss",
    "description" : "demo",
    "created_time" : "1571296951000",
    "updated_time" : "1571296951000",
    "project_type" : "scrum",
    "creator" : {
      "user_num_id" : 4097,
      "user_id" : "c4bd39f0573a436589714bedbcca8536",
      "user_name" : "modile_user",
      "domain_id" : "2489d8cbba804db8bcd35384685ff3ac",
      "domain_name" : "modile_user",
      "nick_name" : "Tom.M.Riddle"
    }
  }
],
  "total" : 1
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.5.6 Check whether the project name exists.

Function

Check whether the project name exists.

URI

POST /v4/projects/check-name

Request Parameters

Table 4-388 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. Minimum: 10 Maximum: 32768

Table 4-389 Request body parameters

Parameter	Mandatory	Type	Description
project_name	Yes	String	Project name Minimum: 1 Maximum: 128

Response Parameters

Status code: 200

Table 4-390 Response body parameters

Parameter	Type	Description
exist	Boolean	Indicates whether the same project name exists. true: yes; false: no

Status code: 400

Table 4-391 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-392** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post `https://{endpoint}/v4/projects/check-name`

```
{  
  "project_name" : "testDemo"  
}
```

Example Responses

Status code: 200

OK

```
{  
  "exist" : true  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.5.7 Obtaining Project Details

Function

Obtaining Project Details

URI

GET /v4/projects/{project_id}

Table 4-393 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-394 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 4-395 Response body parameters

Parameter	Type	Description
project	project object	Project Information

Table 4-396 project

Parameter	Type	Description
project_num_id	Integer	Project numId
project_id	String	Project UUID.

Parameter	Type	Description
name	String	Project
created_on	Long	Indicates the time when the project is created.
updated_on	Long	Indicates the time when the project is updated.
project_type	String	Project Type
archive	Integer	Archived or Not
enterprise_id	String	Enterprise project ID.
project_code	String	Project Code
creator	creator object	Initiator Info

Table 4-397 creator

Parameter	Type	Description
user_num_id	Integer	Creator num_id
user_id	String	UUID of the creator.
user_name	String	Creator name
domain_id	String	Creator tenant ID.
domain_name	String	Tenant name of the creator.
nick_name	String	Indicates the nickname of the creator.

Status code: 400**Table 4-398** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-399** Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

Example Requests

Get `https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a`

Example Responses

Status code: 200

OK

```
{
  "project": {
    "project_num_id": 3183801,
    "project_id": "41bd3eab86544863b8fc92ffcd35e3c8",
    "name": "aaa",
    "created_on": 1576114296000,
    "updated_on": 1576114296000,
    "project_type": "scrum",
    "archive": 1,
    "enterprise_id": "041bd3eab86544863b8fc92ffcd35e218",
    "project_code": "abc_123",
    "creator": {
      "user_num_id": 4097,
      "user_id": "c4bd39f0573a436589714bedbcca8536",
      "user_name": "modile_user",
      "domain_id": "2489d8cbba804db8bcd35384685ff3ac",
      "domain_name": "modile_user",
      "nick_name": "Tom.M.Riddle"
    }
  }
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6 Project Indicators

4.6.1 Query Per Capita Bug

Function

Query Per Capita Bug

URI

POST /v1/{project_id}/bugs-per-developer/query

Table 4-400 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-401 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 4-402 Request body parameters

Parameter	Mandatory	Type	Description
metric_type	No	String	Type
sprint_id	No	String	Iteration ID
dividend	No	dividend object	Counter Numerator Filter Criteria
divisor	No	Object	Indicator Denominator Filter Criteria

Table 4-403 dividend

Parameter	Mandatory	Type	Description
custom_field16	No	String	Custom Field
custom_field17	No	String	Custom Field
custom_field18	No	String	Custom Parameter
custom_field19	No	String	Custom Parameter
custom_field20	No	String	Custom Parameter
custom_field21	No	String	Custom Parameter
custom_field22	No	String	Custom Parameter
custom_field23	No	String	Custom Parameter
custom_field24	No	String	Custom Parameter
custom_field25	No	String	Custom Parameter
custom_field26	No	String	Custom Parameter
custom_field27	No	String	Custom Parameter
custom_field28	No	String	Custom Field
custom_field29	No	String	Custom Parameter
custom_field30	No	String	Custom Parameter
custom_field31	No	String	Custom Field
custom_field32	No	String	Custom Parameter
custom_field33	No	String	Custom Parameter

Parameter	Mandatory	Type	Description
custom_field34	No	String	Custom Parameter
custom_field35	No	String	Custom Parameter
custom_field36	No	String	Custom Field
custom_field37	No	String	Custom Parameter
custom_field38	No	String	Custom Parameter
custom_field39	No	String	Custom Parameter
custom_field40	No	String	Custom Field

Response Parameters

Status code: 200

Table 4-404 Response body parameters

Parameter	Type	Description
dividend_value	String	Numerator Value
divisor_value	String	Denominator
metric_name	String	Name
metric_value	String	Indicator Value
project_id	String	Project ID
project_name	String	Project

Status code: 400

Table 4-405 Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

Status code: 401

Table 4-406 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post `https://{endpoint}/v1/eace9c0a00574de6878ab580daa9a317/bugs-per-developer/query`

```
{
  "dividend" : {
    "custom_field16" : "Indicates the customized field value."
  },
  "divisor" : { },
  "metric_type" : "issues_per_developer",
  "sprint_id" : "8883443"
}
```

Example Responses

Status code: 200

OK

```
{
  "dividend_value" : 15,
  "divisor_value" : 20,
  "metric_name" : "completion_rate|bug_density|bugs_per_developer",
  "metric_value" : 0.8945,
  "project_id" : "eace9c0a00574de6878ab580daa9a317",
  "project_name" : "demo"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.2 On-Time Completion Rate of Query Requirements

Function

On-Time Completion Rate of Query Requirements

URI

POST /v1/{project_id}/completion-rate/query

Table 4-407 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-408 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 4-409 Request body parameters

Parameter	Mandatory	Type	Description
date_range	No	String	Frequency
metric_type	No	String	Type
sprint_id	No	String	Iteration ID
dividend	No	dividend object	Counter Numerator Filter Criteria
divisor	No	Object	Indicator Denominator Filter Criteria

Table 4-410 dividend

Parameter	Mandatory	Type	Description
on_time	No	String	On Time or Not
custom_field1 6	No	String	Custom Parameter
custom_field1 7	No	String	Custom Parameter
custom_field1 8	No	String	Custom Parameter
custom_field1 9	No	String	Custom Parameter
custom_field2 0	No	String	Custom Parameter
custom_field2 1	No	String	Custom Parameter
custom_field2 2	No	String	Custom Parameter
custom_field2 3	No	String	Custom Parameter
custom_field2 4	No	String	Custom Field
custom_field2 5	No	String	Custom Parameter
custom_field2 6	No	String	Custom Field
custom_field2 7	No	String	Custom Parameter
custom_field2 8	No	String	Custom Parameter
custom_field2 9	No	String	Custom Parameter
custom_field3 0	No	String	Custom Parameter
custom_field3 1	No	String	Custom Parameter
custom_field3 2	No	String	Custom Parameter
custom_field3 3	No	String	Custom Field

Parameter	Mandatory	Type	Description
custom_field34	No	String	Custom Parameter
custom_field35	No	String	Custom Parameter
custom_field36	No	String	Custom Field
custom_field37	No	String	Custom Parameter
custom_field38	No	String	Custom Parameter
custom_field39	No	String	Custom Field
custom_field40	No	String	Custom Parameter

Response Parameters

Status code: 200

Table 4-411 Response body parameters

Parameter	Type	Description
dividend_value	String	Numerator Value
divisor_value	String	Denominator
metric_name	String	Name
metric_value	String	Indicator Value
project_id	String	Project ID
project_name	String	Project

Status code: 400

Table 4-412 Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

Status code: 401

Table 4-413 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post `https://{endpoint}/v1/eace9c0a00574de6878ab580daa9a317/completion-rate/query`

```
{
  "date_range": "1598457600000,1598544000000",
  "dividend": {
    "custom_field16": "Indicates the customized field value.",
    "on_time": "ontime"
  },
  "divisor": { },
  "metric_type": "on-time_completion_rate",
  "sprint_id": "8883443"
}
```

Example Responses

Status code: 200

OK

```
{
  "dividend_value": 15,
  "divisor_value": 20,
  "metric_name": "completion_rate|bug_density|bugs_per_developer",
  "metric_value": 0.8945,
  "project_id": "eace9c0a00574de6878ab580daa9a317",
  "project_name": ""
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.6.3 Query Defect Density

Function

Query Defect Density

URI

POST /v2/{project_id}/bug-density/query

Table 4-414 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-415 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 4-416 Request body parameters

Parameter	Mandatory	Type	Description
date_range	No	String	Frequency
metric_type	No	String	Metric Type
dividend	No	dividend object	Counter Numerator Filter Criteria
divisor	No	Object	Indicator Denominator Filter Criteria

Table 4-417 dividend

Parameter	Mandatory	Type	Description
custom_fields	No	Array of custom_fields objects	User-defined Filter Criteria

Table 4-418 custom_fields

Parameter	Mandatory	Type	Description
name	No	String	Indicates the customized field name.
options	No	String	Values of customized fields, which are separated by commas (,).

Response Parameters

Status code: 200

Table 4-419 Response body parameters

Parameter	Type	Description
dividend_value	String	Numerator Value
divisor_value	String	Denominator
metric_name	String	Name
metric_value	String	Indicator Value
project_id	String	Project ID
project_name	String	Project

Status code: 400

Table 4-420 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-421** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post https://{endpoint}/v2/eace9c0a00574de6878ab580daa9a317/bug-density/query

```
{
  "date_range" : "1590940800000,1593446400000",
  "dividend" : {
    "custom_fields" : [ {
      "name" : "Indicates the customized field name.",
      "options" : "Indicates the customized field value."
    } ]
  },
  "divisor" : { },
  "metric_type" : "bug_density"
}
```

Example Responses**Status code: 200**

OK

```
{
  "dividend_value" : 15,
  "divisor_value" : 20,
  "metric_name" : "completion_rate|bug_density|bugs_per_developer",
  "metric_value" : 0.8945,
  "project_id" : "eace9c0a00574de6878ab580daa9a317",
  "project_name" : "demo"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.7 Project Statistics

4.7.1 Obtains bug statistics.

Function

Obtains bug statistics by module.

URI

GET /v4/projects/{project_id}/bug-statistic

Table 4-422 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-423 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-424 Response body parameters

Parameter	Type	Description
bug_statistics	Array of BugStatisticResponseV4 objects	Bug Statistics

Table 4-425 BugStatisticResponseV4

Parameter	Type	Description
critical_num	Integer	Indicates the number of critical bugs.
defect_index	Double	DI
module	String	Module
normal_num	Integer	Indicates the number of minor bugs.
serious_num	Integer	Number of Major Defects
tip_num	Integer	Indicates the number of trivial bugs.
total	Integer	Total

Status code: 400**Table 4-426** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-427** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/bug-statistic
```

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/bug-statistic
```

Example Responses

Status code: 200

OK

```
{
  "bug_statistics": [ {
    "critical_num": 0,
    "defect_index": 1,
    "module": "",
    "normal_num": 1,
    "serious_num": 0,
    "tip_num": 0,
    "total": 1
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.7.2 Obtaining Requirement Statistics

Function

Obtaining Requirement Statistics

URI

```
GET /v4/projects/{project_id}/demand-statistic
```

Table 4-428 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-429 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a user token. The token 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-430 Response body parameters

Parameter	Type	Description
demand_statistics	Array of DemandStatisticResponseV4 objects	Requirement Statistics

Table 4-431 DemandStatisticResponseV4

Parameter	Type	Description
closed_num	Integer	Closed Qty.
module	String	Module
new_num	Integer	Number of new sites.

Parameter	Type	Description
process_num	Integer	Quantity in Development
rejected_num	Integer	Rejected Qty.
solved_num	Integer	Resolved Issues
test_num	Integer	Quantity in the Test
total	Integer	Total

Status code: 400**Table 4-432** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-433** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/demand-statistic
```

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/demand-statistic
```

Example Responses

Status code: 200

OK

```
{  
  "demand_statistics": [{  
    "closed_num": 1,  
    "module": "cost",  
    "new_num": 1,  
    "process_num": 1,  
    "rejected_num": 1,  
    "solved_num": 1,  
    "test_num": 1,  
  }]
```

```
"total" : 1  
}]  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.7.3 Obtaining the Project Overview

Function

Obtaining the Project Overview

URI

GET /v4/projects/{project_id}/summary

Table 4-434 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32

Request Parameters

Table 4-435 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 200

Table 4-436 Response body parameters

Parameter	Type	Description
bug_statistics	Array of BugStatisticResponseV4 objects	Bug Statistics List
demand_statistics	Array of DemandStatisticResponseV4 objects	List of Statistics by Module
issue_completion_rates	Array of IssueCompletionRateResponseV4 objects	List of Statistics by Work Item Type
project_id	String	Project ID

Table 4-437 BugStatisticResponseV4

Parameter	Type	Description
critical_num	Integer	Indicates the number of critical bugs.
defect_index	Double	DI
module	String	Module

Parameter	Type	Description
normal_num	Integer	Indicates the number of minor bugs.
serious_num	Integer	Number of Major Defects
tip_num	Integer	Indicates the number of trivial bugs.
total	Integer	Total

Table 4-438 DemandStatisticResponseV4

Parameter	Type	Description
closed_num	Integer	Closed Qty.
module	String	Module
new_num	Integer	Number of new sites.
process_num	Integer	Quantity in Development
rejected_num	Integer	Rejected Qty.
solved_num	Integer	Resolved Issues
test_num	Integer	Quantity in the Test
total	Integer	Total

Table 4-439 IssueCompletionRateResponseV4

Parameter	Type	Description
issue_status	IssueStatusResponseV4 object	Work item statistics.
tracker_id	Integer	Work item type. The options are as follows: 2: task; 3: defect /Bug,5Epic,6Feature,7Story.

Table 4-440 IssueStatusResponseV4

Parameter	Type	Description
closed_num	Integer	Closed Qty.
new_num	Integer	Number of new sites.
process_num	Integer	Quantity in Development
rejected_num	Integer	Rejected Qty.

Parameter	Type	Description
solved_num	Integer	Resolved Issues
test_num	Integer	Quantity in the Test

Status code: 400

Table 4-441 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-442 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/summary
```

```
GET https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/summary
```

Example Responses

Status code: 200

OK

```
{
  "bug_statistics": [ {
    "critical_num": 0,
    "defect_index": 1,
    "module": "",
    "normal_num": 1,
    "serious_num": 0,
    "tip_num": 0,
    "total": 1
  } ],
  "demand_statistics": [ {
    "closed_num": 1,
    "module": "cost",
    "new_num": 1,
    "process_num": 1,
    "rejected_num": 1,
```

```
"solved_num" : 1,
"test_num" : 1,
"total" : 1
}],
"issue_completion_rates" : [ {
  "issue_status" : {
    "closed_num" : 1,
    "new_num" : 1,
    "process_num" : 1,
    "rejected_num" : 1,
    "solved_num" : 1,
    "test_num" : 1
  },
  "tracker_id" : 0
}],
"project_id" : "526cefde62004de2b62b5e8dd2c2b3af"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.8 Modules of the Scrum Project

4.8.1 Module for Creating a Project

Function

Querying the Module List of a Project

URI

POST /v4/projects/{project_id}/module

Table 4-443 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-444 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 4-445 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description
module_name	Yes	String	Module name
parent_module_id	No	Integer	Parent module ID.
owner	Yes	UserRequest object	

Table 4-446 UserRequest

Parameter	Mandatory	Type	Description
user_id	Yes	String	User ID, which is a 32-digit character string.

Response Parameters

Status code: 200

Table 4-447 Response body parameters

Parameter	Type	Description
description	String	Description
module_name	String	Module name
module_id	Integer	Specifies the module ID.
owner	ModuleOwner object	

Table 4-448 ModuleOwner

Parameter	Type	Description
user_id	String	User ID, which is a 32-digit character string.
user_num_id	Integer	User ID
user_name	String	Username.
nick_name	String	Nickname of the user.

Status code: 400**Table 4-449** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-450** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Post `https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/modules`

```
{
  "description" : "module demo",
  "module_name" : "demo",
  "parent_module_id" : 1,
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "description" : "module demo",
  "module_name" : "demo",
```

```
"module_id" : 46691,  
"owner" : {  
  "user_id" : "09d75cde5180d4481f91c018e89cb8e2",  
  "user_num_id" : 4091,  
  "user_name" : "demo_user_name_06",  
  "nick_name" : "demo"  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.8.2 Querying the Module List of a Project

Function

Querying the Module List of a Project

URI

GET /v4/projects/{project_id}/modules

Table 4-451 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Table 4-452 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. Default: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Data returned at a time. The value ranges from 1 to 100. Minimum: 1 Maximum: 100 Default: 10

Request Parameters

Table 4-453 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 4-454 Response body parameters

Parameter	Type	Description
total	Integer	Total Number of Modules
modules	Array of ProjectModule objects	Module

Table 4-455 ProjectModule

Parameter	Type	Description
module_id	Integer	Specifies the module ID.
module_name	String	Module
owner	ModuleOwner object	
depth	Integer	Module Level

Parameter	Type	Description
is_parent	Boolean	Indicates whether a module is a parent module. The options are true (parent module) and false (non-parent module).
children	Array of ProjectChildModule objects	Submodule Information

Table 4-456 ProjectChildModule

Parameter	Type	Description
module_id	Integer	Specifies the module ID.
module_name	String	Module name
owner	ModuleOwner object	
depth	Integer	Module Level
is_parent	Boolean	Indicates whether a module is a parent module. The options are true (parent module) and false (non-parent module).
parent_module_id	Integer	Parent module ID.

Table 4-457 ModuleOwner

Parameter	Type	Description
user_id	String	User ID, which is a 32-digit character string.
user_num_id	Integer	User ID
user_name	String	Username.
nick_name	String	Nickname of the user.

Status code: 400**Table 4-458** Response body parameters

Parameter	Type	Description
error_msg	String	Description

Parameter	Type	Description
error_code	String	Error Codes

Status code: 401

Table 4-459 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Get <https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/modules>

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "modules": [ {
    "module_id": 1,
    "module_name": "demo",
    "owner": {
      "user_id": "09d75cde5180d4481f91c018e89cb8e2",
      "user_num_id": 4091,
      "user_name": "demo_user_name_06",
      "nick_name": "demo"
    },
    "depth": 1,
    "is_parent": true,
    "children": [ {
      "module_id": 1,
      "module_name": "demo",
      "owner": {
        "user_id": "09d75cde5180d4481f91c018e89cb8e2",
        "user_num_id": 4091,
        "user_name": "demo_user_name_06",
        "nick_name": "demo"
      },
      "depth": 1,
      "is_parent": true,
      "parent_module_id": 1
    } ]
  } ]
}
```


Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.8.3 Module for Updating a Project

Function

Module for Updating a Project

URI

PUT /v4/projects/{project_id}/modules/{module_id}

Table 4-460 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
module_id	Yes	Integer	Specifies the module ID. Minimum: 32 Maximum: 32

Request Parameters

Table 4-461 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 4-462 Request body parameters

Parameter	Mandatory	Type	Description
description	No	String	Description
module_name	Yes	String	Module
owner	Yes	UserRequest object	

Table 4-463 UserRequest

Parameter	Mandatory	Type	Description
user_id	Yes	String	User ID, which is a 32-digit character string.

Response Parameters

Status code: 200

Table 4-464 Response body parameters

Parameter	Type	Description
description	String	Description
module_name	String	Module name
module_id	Integer	Specifies the module ID.
owner	ModuleOwner object	

Table 4-465 ModuleOwner

Parameter	Type	Description
user_id	String	User ID, which is a 32-digit character string.
user_num_id	Integer	User ID
user_name	String	Username.
nick_name	String	Nickname of the user.

Status code: 400**Table 4-466** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-467** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/662086
```

```
{
  "description" : "module demo",
  "module_name" : "demo",
  "owner" : {
    "user_id" : "09d75cde5180d4481f91c018e89cb8e2"
  }
}
```

Example Responses

Status code: 200

OK

```
{
  "description" : "module name",
  "module_name" : "demo",
  "module_id" : 46691,
}
```

```
"owner" : {  
  "user_id" : "09d75cde5180d4481f91c018e89cb8e2",  
  "user_num_id" : 4091,  
  "user_name" : "demo_user_name_06",  
  "nick_name" : "demo"  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.8.4 Module for Deleting a Project

Function

Module for Deleting a Project

URI

DELETE /v4/projects/{project_id}/modules/{module_id}

Table 4-468 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
module_id	Yes	Integer	Specifies the module ID. Minimum: 32 Maximum: 32

Request Parameters

Table 4-469 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 400

Table 4-470 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-471 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/6354
```

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/modules/6354
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.9 Domain of the Scrum Project

4.9.1 Domain for Creating a Project

Function

Querying the Domain List of a Project

URI

POST /v4/projects/{project_id}/domain

Table 4-472 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Request Parameters

Table 4-473 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 4-474 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain Name

Response Parameters

Status code: 200

Table 4-475 Response body parameters

Parameter	Type	Description
domain_name	String	Domain Name
domain_id	String	Identifies a domain.

Status code: 400

Table 4-476 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-477 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Post https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/domains
{
  "domain_name" : "demo"
}
```

Example Responses

Status code: 200

OK

```
{
  "domain_name" : "demo",
  "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.9.2 Querying the Domain List of a Project

Function

Querying the Domain List of a Project

URI

GET /v4/projects/{project_id}/domains

Table 4-478 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project.

Table 4-479 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Query offset. Default: 0

Parameter	Mandatory	Type	Description
limit	No	Integer	Data returned at a time. The value ranges from 1 to 100. Minimum: 1 Maximum: 100 Default: 10

Request Parameters

Table 4-480 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 4-481 Response body parameters

Parameter	Type	Description
total	Integer	Total Domains
domains	Array of CreateProjectDomainResponseBody objects	Domain List

Table 4-482 CreateProjectDomainResponseBody

Parameter	Type	Description
domain_name	String	Domain Name
domain_id	String	Identifies a domain.

Status code: 400

Table 4-483 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-484** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

Get `https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/domains`

Example Responses

Status code: 200

OK

```
{
  "total" : 1,
  "domains" : [ {
    "domain_name" : "demo",
    "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af"
  } ]
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.9.3 Update the domain of the project.

Function

Update the domain of the project.

URI

PUT /v4/projects/{project_id}/domains/{domain_id}

Table 4-485 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
domain_id	Yes	String	Identifies a domain. Minimum: 32 Maximum: 32

Request Parameters

Table 4-486 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 4-487 Request body parameters

Parameter	Mandatory	Type	Description
domain_name	Yes	String	Domain Name

Response Parameters

Status code: 200

Table 4-488 Response body parameters

Parameter	Type	Description
domain_name	String	Domain Name
domain_id	String	Identifies a domain.

Status code: 400**Table 4-489** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-490** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
PUT https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/domains/662086
{
  "domain_name" : "test"
}
```

Example Responses

Status code: 200

OK

```
{
  "domain_name" : "demo",
  "domain_id" : "123cefde62004de2b62b5e8dd2c2b3af"
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.9.4 Cancel the association between the domain and the project.

Function

Cancel the association between the domain and the project.

URI

DELETE /v4/projects/{project_id}/domains/{domain_id}

Table 4-491 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the 32-bit ID of the devcloud project. Minimum: 32 Maximum: 32
domain_id	Yes	String	Identifies a domain. Minimum: 32 Maximum: 32

Request Parameters

Table 4-492 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies a 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. Minimum: 10 Maximum: 32768

Response Parameters

Status code: 400

Table 4-493 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401

Table 4-494 Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/domains/6354
```

```
DELETE https://{endpoint}/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/domains/6354
```

Example Responses

None

Status Codes

Status Code	Description
204	No Content
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

4.10 Scrum Project Statuses

4.10.1 Querying the Project Status List

Function

Queries the project status list.

URI

GET /v4/projects/{project_id}/statuses

Table 4-495 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	32-bit ID of a DevCloud project

Table 4-496 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Queries the offset. Default: 0
limit	No	Integer	Number of data records returned at a time. The value ranges from 1 to 100. Minimum: 1 Maximum: 100 Default: 10

Parameter	Mandatory	Type	Description
tracker_id	No	Integer	Work item types supported by custom fields: 2 indicates a task, 3 indicates a bug, 5 indicates an epic, 6 indicates a feature, and 7 indicates a story.

Request Parameters

Table 4-497 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. Call IAM to obtain the user token (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 4-498 Response body parameters

Parameter	Type	Description
total	Integer	Total number of statuses
issue_statuses	Array of IssueStatus objects	Status list

Table 4-499 IssueStatus

Parameter	Type	Description
id	String	Status UUID
status_id	Integer	Status ID
name	String	Status name
tracker_ids	Array of integers	List of associated work items

Parameter	Type	Description
status_attribute	StatusAttribute object	Status attribute type. The value can be started, ongoing, and closed.

Table 4-500 StatusAttribute

Parameter	Type	Description
id	Integer	Status attribute ID
name	String	Status attribute name

Status code: 400**Table 4-501** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Status code: 401**Table 4-502** Response body parameters

Parameter	Type	Description
error_msg	String	Description
error_code	String	Error Codes

Example Requests

```
Get https://{endpoint}/v4/projects/0792b7d26cb74bd799cbae80063dc74a/statuses
```

Example Responses

Status code: 200

OK

```
{
  "total": 1,
  "issue_statuses": [ {
    "id": "123cefde62004de2b62b5e8dd2c2b3af",
    "status_id": 1,
    "name": "",
    "tracker_ids": [ 0 ],
```

```
"status_attribute" : {  
  "id" : 1,  
  "name" : "string"  
}  
}]  
}
```

Status Codes

Status Code	Description
200	OK
400	Bad Request
401	Unauthorized

Error Codes

See [Error Codes](#).

5 Application Examples

5.1 Example 1: Obtaining the Project List of CodeArts Req

Scenario

This section uses the **test001** user as an example to describe how to use an API to query the project list of the current user.

For details about how to call APIs, see [Calling APIs](#).

Constraints

Ensure that the **test001** user has created or participated in a CodeArts Req project.

Involved API

Query project information of the current user based on the user token.

URI: GET **/v4/projects**

For details about the API document, see "Querying the Project List."

For details about online API Explorer debugging, see "Querying the Project List."

Procedure

- Request example
GET `https://projectman-ext.ap-southeast-3.myhuaweicloud.com/v4/projects?project_type=scrum&search=ProjectTestCase&offset=0&limit=1`
- Response example

```
{
  "projects": [
    {
      "project_num_id": 3844012,
      "project_id": "ec147b681fb64e019a6bcd73ebdf3597",
      "project_name": "ProjectTestCaseYRXI",
      "description": "fdas",
      "created_time": 1600417972000,
```

```
"updated_time": 1600417972000,
"project_type": "scrum",
"creator": {
  "user_num_id": 4090,
  "user_id": "665b542eb4c14b53a15ead449f28b0ba",
  "user_name": "test001",
  "domain_id": "70d11a2d7275425689347ec104af2ad8",
  "domain_name": "projectman_l00382124_01",
  "nick_name": "Captain Britain"
}
},
"total": 48
}
```

5.2 Example 2: Querying the Iteration List of a Specified Project

Scenario

This section the **test001** user as an example to describe how to use an API to query the iteration list of a specified project.

For details about how to call APIs, see [Calling APIs](#).

Constraints

Ensure that the **test001** user has created a CodeArts Req project.

Involved API

Query the iteration list of a specified project of the current user based on the user token.

URI: GET **/v4/projects/{project_id}/iterations**

For details about the API document, see "Obtaining the Iteration List of a Specified Project."

For details about online API Explorer debugging, see "Obtaining the Iteration List of a Specified Project."

Procedure

- Request example

```
GET https://projectman-ext.ap-southeast-3.myhuaweicloud.com/v4/projects/3cea7d4d77134eee8251825918a8bd7a/iterations
```

- Response example

```
{
  "iterations": [
    {
      "id": 707961817,
      "name": " iteration 1",
      "description": "",
      "begin_time": "2020/06/07",
      "end_time": "2020/07/06"
    }
  ],
}
```

```
{
  "id": 707961818,
  "name": " iteration 2",
  "description": "",
  "begin_time": "2020/07/07",
  "end_time": "2020/08/06"
},
{
  "id": 707961819,
  "name": " Iteration 3",
  "description": "",
  "begin_time": "2020/08/07",
  "end_time": "2020/09/06"
}
],
"total": 3
}
```

5.3 Example 3: Querying Comments on Work Items of a User

Scenario

The **test001** user has created or participated in a CodeArts Req project. The project contains created work items.

For details about how to call APIs, see [Calling APIs](#).

Constraints

Ensure that work items are available.

Involved API

Query the work item list of a specified project based on the user token, and then query work item comments based on the project ID and work item ID. The procedure is as follows:

1. [Step 1: Query the work item list of the user](#)
2. [Step 2: Query comments on work items.](#)

Step 1: Query the work item list of the user

- API information

URI: Post `/v4/projects/{project_id}/issues`

For details about the API document, see "Using Advanced Query to Find Work Items."

For details about online API Explorer debugging, see "Advanced Query to Find Work Items."

- Request example

Post `https://projectman-ext.ap-southeast-3.myhuaweicloud.com/v4/projects/526cefde62004de2b62b5e8dd2c2b3af/issues`

- Request body

```
{
  "status_ids": [1],
  "limit": 1
}
```

- Response example

```
{
  "issues": [
    {
      "id": 1692040,
      "name": "Test",
      "done_ratio": 0,
      "tracker": {
        "id": 2,
        "name": "Task"
      },
      "priority": {
        "id": 2,
        "name": "Medium"
      },
      "severity": {
        "id": 12,
        "name": "Minor"
      },
      "status": {
        "id": 1,
        "name": "New"
      },
      "updated_time": "2020-09-17 10:18:31",
      "begin_time": "1970-01-01",
      "end_time": "1970-01-01",
      "project": {
        "project_num_id": 3694732,
        "project_id": "526cefde62004de2b62b5e8dd2c2b3af",
        "project_name": "sdfsdfsf"
      },
      "parent_issue": {
        "id": 1684959,
        "name": "testDemo Adassada"
      },
      "module": {
        "id": null,
        "name": null
      },
      "domain": {
        "id": null,
        "name": null
      },
      "iteration": {
        "id": null,
        "name": null
      },
      "expected_work_hours": 0.0,
      "actual_work_hours": 0.0,
      "created_time": "2020-09-17 10:18:31",
      "custom_fields": [],
      "assigned_cc_user": null,
      "assigned_user": {
        "id": 4091,
        "name": "test001",
        "nick_name": "pcedgeXXXXXXX"
      },
      "creator": {
        "id": 4091,
        "name": "test001",
        "nick_name": "pcedgeXXXXXXX"
      }
    }
  ]
}
```

```
"developer": {  
  "id": 0,  
  "name": null,  
  "nick_name": null  
},  
],  
"total": 24  
}
```

Step 2: Query comments on work items

- API information

URI: GET `/v4/projects/{project_id}/issues/{issue_id}/comments`

For details about the API document, see "Obtaining the Comment List of a Specified Work Item."

For details about online API Explorer debugging, see "Obtaining the Comment List of a Specified Work Item."

- Request example

```
GET https://projectman-ext.ap-southeast-3.myhuaweicloud.com/v4/projects/  
526cefde62004de2b62b5e8dd2c2b3af/issues/1692040/comments
```

- Response example

```
{  
  "comments": [  
    {  
      "id": 3235092,  
      "created_time": "2020-08-26",  
      "user": {  
        "user_num_id": 4091,  
        "user_name": "test001",  
        "nick_name": "pcedgeXXXXXX"  
      },  
      "comment": "<p>This is a test example.</p>"  
    },  
  ],  
  "total": 1  
}
```

6 Appendixes

6.1 Status Codes

[Table 6-1](#) describes status codes.

Table 6-1 Status codes

Status Code	Message	Description
100	Continue	Continue sending requests. This temporary response is used to inform the client that some requests have been received and not rejected by the server.
101	Switching Protocols	Switch protocols. A protocol can only be switched to a more advanced protocol. For example, switch to a later version of HTTP.
201	Created	The request for creating a resource has been implemented.
202	Accepted	The request has been accepted, but has not finished being processed yet.
203	Non-Authoritative Information	Unauthorized information. The request is successful.
204	NoContent	The request has been successfully implemented, but the HTTP response does not contain a response body. This status code is returned in response to an HTTP OPTIONS request.
205	Reset Content	The server has successfully processed the request after resetting the content.

Status Code	Message	Description
206	Partial Content	The server has successfully processed a part of the GET request.
300	Multiple Choices	There are multiple choices for a requested resource. A list of resource characteristics and addresses is returned for the client such as a browser to choose from.
301	Moved Permanently	A requested resource has been permanently moved to the given URI indicated in the response.
302	Found	The requested resource has been temporarily moved.
303	See Other	The response to the request can be found under a different URI, and should be retrieved using a GET or POST method.
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 authorization 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	A request method is not supported for the requested resource. The client should modify the request instead of re-initiating it.
406	Not Acceptable	The server cannot implement the request based on the content characteristics of the request.

Status Code	Message	Description
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.
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 fails to process the request which does not contain the Content-Length header field.
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 entity 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 retry after the time period specified in the Retry-After response header.
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

Since no result data is returned in the case of an API call error, you can identify the error cause based on the error codes of each API.

If HTTP status code 400 or 505 is returned after an API call error, you can find the specific error code and description in the response body.

If you are unable to identify the cause of an error, contact customer service and provide the error code for quick troubleshooting.

Format of an Error Response Body

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 preceding information, **error_code** is an error code, and **error_msg** describes the error.

Error Code Description

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](#).

Table 6-2 Error codes

Status Code	Error Code	Error Message	Description	Solution
400	PM. 02150010	Target user not a member of program	The target user is not a member of the program.	Add the required user to the program.
400	PM. 02150301	Deletion failed	Deletion failed.	Change the role of the user to another role before deleting the user.
400	PM. 02150302	Permissions cannot change	The permissions cannot be changed.	Do not change the permissions.
400	PM. 02150303	Role does not exist	The role does not exist.	Verify request parameters.
400	PM. 02150304	Role name unavailable	The role name is unavailable. Please set a new name.	Set a new name.
400	PM. 02150305	Role name conflict	The role name conflicts with another one.	Set a new name.
400	PM. 02150404	Program not exist	The program does not exist.	
400	PM. 02151001	Project set not exist	The project set does not exist.	
400	PM. 02152001	Invalid parameter	Invalid parameter.	Correct the parameter.
400	PM. 02152002	Undefined error	Undefined error.	Correct the error.

Status Code	Error Code	Error Message	Description	Solution
400	PM.02152003	Invalid argument name	Invalid argument name.	Correct the argument name.
400	PM.02152004	Project set not archived	The project set is not archived.	
400	PM.02152005	Project does not exist or has been deleted	Project does not exist or has been deleted.	
400	PM.02152006	Project set not followed	The project set has not been followed.	
400	PM.02152007	Project set followed	The project set has been followed.	
400	PM.02152008	Parameter for modifying permission to create project set contain unauthorized user	The parameter for modifying the permission to create a project set contains an unauthorized user.	
400	PM.02152009	Project set has been archived	The project set has been archived.	
400	PM.02152010	Project type not allowed	The project type is not allowed.	
400	PM.02152011	Project has been associated	The project has been associated.	
400	PM.02153001	Too frequent access try again later	Too frequent access. Try again later.	
400	PM.02175006	Invalid Parameter: {0}	Invalid parameter.	Use a correct request parameter to retry.

Status Code	Error Code	Error Message	Description	Solution
400	PM.02175101	Number of sub items exceeds [{0}]	The number of sub-items cannot exceed the upper limit.	Create sub-items only after deleting other sub-items, or create them under other items.
400	PM.02175103	Only accepted initial requirement can be edited	The current initial requirement (IR) cannot be modified, except when the proposed program is the same as the destination program or the IR is accepted in the destination program. This error may occur when an IR is modified or a child IR is created under the parent IR.	Confirm the IR status and try again.
400	PM.02175104	Some of the initial requirements can not be edited	Some IRs cannot be modified (usually because of unavailable requested IRs).	Ensure that all IRs to be modified exist and try again.

Status Code	Error Code	Error Message	Description	Solution
400	PM.02175105	Invalid parent	Invalid parent IR (This error occurs when the child IRs created in batches do not have a consistent parent IR, the destination program of the parent IR is inconsistent with the proposed program of the child IRs, or the specified parent IR type is incorrect.)	Use correct request parameters to retry.
400	PM.02175106	Can not create sub ir to current program	The proposed program of child IRs cannot be the same as the destination program.	Submit child IRs to other programs.
400	PM.02175111	Child IR exist, can not delete	The parent IR that has child IRs cannot be deleted.	Delete all child IRs and then delete the parent IR.
400	PM.02175113	Parent IR not exists	The parent IR does not exist.	Create child IRs under a correct parent IR.
400	PM.02175114	Parent IR not designated in current program, please perform in the destination program of this IR	The parent IR does not belong to the current program.	Try again in the destination program of the parent IR.
400	PM.02175115	Missing edit permission of sub items	The IR cannot be deleted because you do not have the edit permission on the project to which sub-work items belong.	Apply for the edit permission on the project to which sub-work items belong and try again.

Status Code	Error Code	Error Message	Description	Solution
400	PM.02175200	Missing required field [{0}]	Mandatory fields are missing.	Add mandatory fields and try again.
400	PM.02175201	Field [{0}] has invalid value{1}	The IR field has an invalid value (possibly due to incorrect format, for example, the time or date field uses a non-timestamp string.)	Use a correct value to send a request.
400	PM.02175202	Plan start date can not be later than plan due date	The estimated start date cannot be later than the estimated due date.	Use correct parameters for estimated start date and due date.
400	PM.10001002	Invalid token	Invalid token.	
400	PM.10002006	Current tenant name in use	The name of the current tenant is already in use.	
400	PM.10002010	Description cannot exceed 500	The description cannot exceed 500 characters.	
400	PM.10002011	Invalid name	Invalid name.	
400	PM.10003002	Insufficient permissions	The current user does not have sufficient permissions.	
400	PM.10003003	Invitation expired	Invitation expired.	
400	PM.10003004	Review info does not exist	The review information does not exist.	
400	PM.10003005	Label in use	The label is in use.	
400	PM.10003006	No more than 100 members	A maximum of 100 members can be added.	

Status Code	Error Code	Error Message	Description	Solution
400	PM.10003007	No more than 100 projects	A maximum of 100 projects can be added.	
400	PM.10003008	Role not allowed	The role is not allowed.	
400	PM.10003009	Creator can exit project after handing over the program	The creator can exit the project after handing over the program.	
400	PM.10003010	Member not exist	The member does not exist.	
400	PM.10003011	Total number of programs under a tenant cannot exceed 100	The total number of programs under a tenant cannot exceed 100.	
400	PM.10003014	Invitation not exist	The invitation does not exist.	
400	PM.10003015	Only users of the same tenant can add	Only users of the same tenant can be added.	
400	PM.10003016	Failed to add member	Failed to add a member.	
401	PM.02150401	Insufficient operation permissions	The user does not have sufficient operation permissions.	
403	PM.10003012	Member of program do not need to apply	The user is a member of the program and does not need to apply for the permission.	

Status Code	Error Code	Error Message	Description	Solution
404	PM.02175005	Requested resource not exist	The requested resource does not exist.	Check whether the requested resource exists. (The ID may be incorrect or the resource has been deleted.)
405	PM.10003013	Application already exist waiting for approval	An application for joining the program already exists and is waiting for the administrator's approval.	

6.3 Obtaining a Project ID

Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the API used to [query project information](#).

The API for obtaining a project ID is **GET [https://{Endpoint}/v3/projects/](#)**. **{Endpoint}** indicates the endpoint of IAM, which can be obtained from [Endpoints](#). For details about API authentication, see [Authentication](#).

In the following example, **id** indicates the project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "name": "ap-southeast-3",
      "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"
  }
}
```

```
}  
}
```

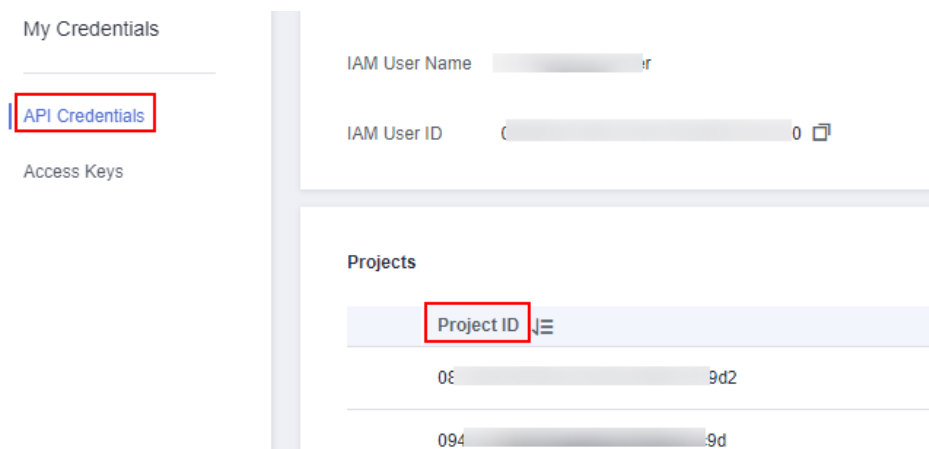
Obtaining a Project ID from the Console

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 the mouse pointer over the username in the upper right corner and choose **My Credentials** from the drop-down list.

Choose **My Credentials** > **API Credentials** to view the project ID in the project list.

Figure 6-1 Viewing a project ID



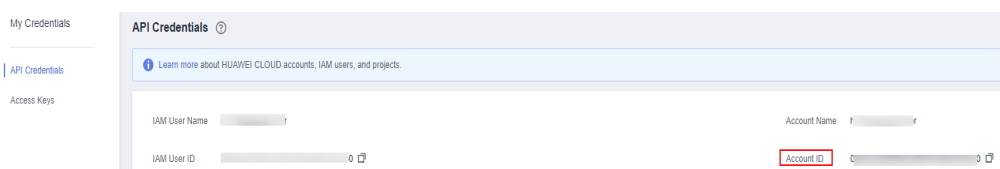
6.4 Obtaining an Account ID

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. Hover the mouse pointer over the username in the upper right corner and choose **My Credentials** from the drop-down list.

Choose **My Credentials** > **API Credentials** to view the account ID.

Figure 6-2 Obtaining an account ID



7 Change History

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

Description	Release Date
This issue is the first official release.	2022-09-30
This issue is the second official release. It incorporates the following change: Modified Before You Start .	2023-03-02