

**CodeArts Check**

# **API Reference**

**Issue**            01  
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# 1 Before You Start

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## 1.1 Overview

CodeArts Check manages code quality in the cloud. It allows you to easily perform static checks and security checks on code in multiple programming languages and obtain comprehensive quality reports. CodeArts Check also allows you to view grouped defects with fix suggestions provided, effectively controlling quality.

This document provides application programming interfaces (APIs) for you to perform CodeArts Check operations, such as creating, deleting, and querying tasks. For details about all supported operations, see [API Overview](#).

Before calling CodeArts Check APIs, ensure that you are familiar with basic concepts ([1.4 Basic Concepts](#)).

## 1.2 Calling Method

CodeArts Check 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 Check endpoints. Select a desired one based on the service requirements.

**Table 1-1** CodeArts Check 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    |
| 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.
- **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

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**Table 2-1** CodeArts Check API overview

| Type           | Subtype           | Description                                                                                                                       |
|----------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| CodeArts Check | Task Management   | Task management includes creating, executing, querying, and stopping tasks.                                                       |
|                | Defect Management | Defect management includes defect details, such as issue overview, issue status, cyclomatic complexity, and code repetition rate. |
|                | Rule Management   | Rule management includes obtaining the rule list APIs, creating user-defined rule sets, and querying the rule set list.           |

# 3 Calling APIs

## 3.1 Making an API Request

### 3.2 Authentication

### 3.3 Response

## 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}*

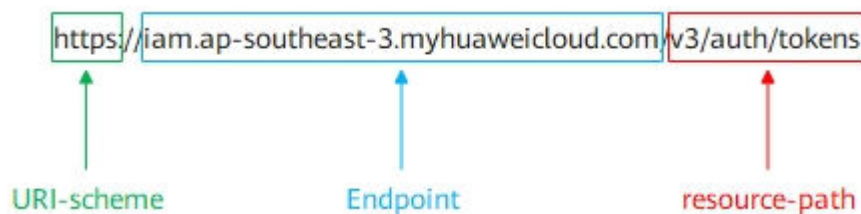
| Parameter     | Description                                                                                                                                                                                                                                                                                            |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| URI-scheme    | Protocol used to transmit requests. All APIs use <b>HTTPS</b> .                                                                                                                                                                                                                                        |
| 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 <b>1.3 Endpoints</b> .<br><br>For example, the endpoint of IAM in the <b>AP-Singapore</b> region is <b>iam.ap-southeast-3.myhuaweicloud.com</b> . |
| resource-path | Resource path, that is, the API access path, which is obtained from the URI of a specific API. For example, the <b>resource-path</b> of the API used to obtain a user token is <b>/v3/auth/tokens</b> .                                                                                                |

| Parameter    | Description                                                                                                                                                                                                                              |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| query-string | (Optional) Query parameter. The query parameter is prefixed with a question mark (?), in the format of <b>Parameter name=Parameter value</b> . For example, <b>limit=10</b> indicates that a maximum of 10 data records will be queried. |

For example, to obtain the IAM token in the **AP-Singapore** region, obtain the endpoint of this region (iam.ap-southeast-3.myhuaweicloud.com) and find the **resource-path (/v3/auth/tokens)** in the URI of the API for **obtaining 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 more information, see [3.2 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 [1.3 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": "xxxxxxxxx"
    }
  }
}
```

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

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see [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 → [REDACTED] UMC
j3K [REDACTED] j3wEI
xHR [REDACTED] X-
j+C [REDACTED]
RzT [REDACTED]
x-xss-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](#). The following describes part of the request body.

```
{
  "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 Task Management](#)
- [4.2 Defect Management](#)
- [4.3 Rule Management](#)

## 4.1 Task Management

### 4.1.1 Creating a Check Task

#### Function

Create a check task but do not execute it.

#### Calling Method

For details, see [Calling APIs](#).

#### URI

POST /v2/{project\_id}/task

**Table 4-1** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |

## Request Parameters

**Table 4-2** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | Specifies the user token.<br>It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |
| Content-Type | Yes       | String | Media type and encoding format.                                                                                                                                          |

**Table 4-3** Request body parameters

| Parameter    | Mandatory | Type                              | Description                                                                                                   |
|--------------|-----------|-----------------------------------|---------------------------------------------------------------------------------------------------------------|
| check_type   | No        | Array of strings                  | Check type, in array format. The default value is source.                                                     |
| git_url      | Yes       | String                            | Repository address                                                                                            |
| git_branch   | Yes       | String                            | Repository Branch                                                                                             |
| language     | Yes       | Array of strings                  | Check language. The value is in array format and can be cpp,java,js,python,php,css,html,go,typescript,csharp. |
| rule_sets    | No        | Array of <b>RuleSetV2</b> objects | Specifying a Rule Set                                                                                         |
| task_type    | No        | String                            | Check type. The value can be full or inc. full indicates full check, and inc indicates MR check.              |
| username     | No        | String                            | Name of the user who has the permission to access the repository.                                             |
| access_token | No        | String                            | Token of a user who has permission on the repository.                                                         |
| endpoint_id  | No        | String                            | Specifies the endpoint ID of the user who has the repository permission.                                      |

| Parameter        | Mandatory | Type                               | Description                                                                                   |
|------------------|-----------|------------------------------------|-----------------------------------------------------------------------------------------------|
| inc_config       | No        | <a href="#">IncConfigV2</a> object | Parameters related to incremental check                                                       |
| enable_fossbot   | No        | Boolean                            | Indicates whether to enable fossbot check. By default, fossbot check is disabled.             |
| resource_pool_id | No        | String                             | Specifies the resource pool ID, which can be obtained from the resource pool management page. |

**Table 4-4** RuleSetV2

| Parameter  | Mandatory | Type   | Description                                                                            |
|------------|-----------|--------|----------------------------------------------------------------------------------------|
| ruleset_id | No        | String | Rule set ID, which needs to be obtained from the web page.                             |
| language   | Yes       | String | Check the language. cpp,java,js,python,php,css,html,go,typescript,csharp is supported. |

**Table 4-5** IncConfigV2

| Parameter         | Mandatory | Type   | Description                                                                                              |
|-------------------|-----------|--------|----------------------------------------------------------------------------------------------------------|
| parent_task_id    | No        | String | ID of the parent task to be associated. This parameter is required for pipeline creation or MR creation. |
| git_source_branch | No        | String | Incrementally check code source branches.                                                                |
| git_target_branch | No        | String | Incrementally check the code target branch.                                                              |
| merge_id          | No        | String | Unique MR ID                                                                                             |
| event_type        | No        | String | Webhook triggering event type. The options are merge_request and push_request.                           |
| action            | No        | String | Webhook event status, which can be open, close, or update.                                               |
| title             | No        | String | MR Title                                                                                                 |

## Response Parameters

**Status code: 200**

**Table 4-6** Response body parameters

| Parameter | Type   | Description                  |
|-----------|--------|------------------------------|
| task_id   | String | Specifies the check task ID. |

**Status code: 400**

**Table 4-7** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401**

**Table 4-8** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

Create a check task. The check type of the check task is source, the corresponding code repository URL is displayed based on the site requirements, the code repository branch is master, and the language type is cpp.

```
POST https://{endpoint}/v2/{project_id}/task
{
  "check_type": [ "source" ],
  "git_url": "git@code*****958.git",
  "git_branch": "master",
  "language": [ "cpp", "js" ]
}
```

## Example Responses

**Status code: 200**

Request succeeded!

```
{
  "task_id" : "d161fd0*****cb3c1d6a783e"
}
```

**Status code: 400**

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Create a check task. The check type of the check task is source, the corresponding code repository URL is displayed based on the site requirements, the code repository branch is master, and the language type is cpp.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class CreateTaskSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateTaskRequest request = new CreateTaskRequest();
        CreateTaskRequestV2 body = new CreateTaskRequestV2();
```

```
List<String> listbodyLanguage = new ArrayList<>();
listbodyLanguage.add("cpp");
listbodyLanguage.add("js");
List<String> listbodyCheckType = new ArrayList<>();
listbodyCheckType.add("source");
body.withLanguage(listbodyLanguage);
body.withGitBranch("master");
body.withGitUrl("git@code*****958.git");
body.withCheckType(listbodyCheckType);
request.withBody(body);
try {
    CreateTaskResponse response = client.createTask(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

Create a check task. The check type of the check task is source, the corresponding code repository URL is displayed based on the site requirements, the code repository branch is master, and the language type is cpp.

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = CodeCheckClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = CreateTaskRequest()
        listLanguagebody = [
            "cpp",
            "js"
        ]
        listCheckTypebody = [
            "source"
        ]
        request.body = CreateTaskRequestV2(
            language=listLanguagebody,
            git_branch="master",
```

```
        git_url="git@code*****958.git",
        check_type=listCheckTypebody
    )
    response = client.create_task(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

Create a check task. The check type of the check task is source, the corresponding code repository URL is displayed based on the site requirements, the code repository branch is master, and the language type is cpp.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateTaskRequest{}
    var listLanguagebody = []string{
        "cpp",
        "js",
    }
    var listCheckTypebody = []string{
        "source",
    }
    request.Body = &model.CreateTaskRequestV2{
        Language: listLanguagebody,
        GitBranch: "master",
        GitUrl: "git@code*****958.git",
        CheckType: &listCheckTypebody,
    }
    response, err := client.CreateTask(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.2 Deleting a Check Task

### Function

This interface is used to delete a check task. A task that is being executed cannot be viewed.

### Calling Method

For details, see [Calling APIs](#).

### URI

DELETE /v2/tasks/{task\_id}

**Table 4-9** Path Parameters

| Parameter | Mandatory | Type   | Description   |
|-----------|-----------|--------|---------------|
| task_id   | Yes       | String | Check Task ID |



## Request Parameters

**Table 4-10** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                  |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | Specifies the user token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

**Status code: 400**

**Table 4-11** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401**

**Table 4-12** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
DELETE https://{endpoint}/v2/tasks/{task_id}
```

## Example Responses

**Status code: 200**

Request succeeded!

```
null
```

**Status code: 400**

### Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

### Status code: 401

### Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

public class DeleteTaskSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteTaskRequest request = new DeleteTaskRequest();
        try {
            DeleteTaskResponse response = client.deleteTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}  
}
```

## Python

```
# coding: utf-8  
  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodecheck.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = __import__('os').getenv("CLOUD_SDK_AK")  
    sk = __import__('os').getenv("CLOUD_SDK_SK")  
  
    credentials = BasicCredentials(ak, sk) \  
  
    client = CodeCheckClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = DeleteTaskRequest()  
        response = client.delete_task(request)  
        print(response)  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)  
        print(e.error_code)  
        print(e.error_msg)
```

## Go

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codecheck.NewCodeCheckClient(  
        codecheck.CodeCheckClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())
```

```
request := &model.DeleteTaskRequest{}
response, err := client.DeleteTask(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.3 Querying the task list

### Function

This API is used to query the task list of a project based on project\_id.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/{project\_id}/tasks

**Table 4-13** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |

**Table 4-14** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                                         |
|-----------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | No        | Integer | Pagination index, offset<br>Minimum: <b>0</b><br>Default: <b>0</b>                                                                                                  |
| limit     | No        | Integer | Number of records displayed on each page. A maximum of 100 records can be displayed on each page.<br>Minimum: <b>1</b><br>Maximum: <b>100</b><br>Default: <b>10</b> |

## Request Parameters

**Table 4-15** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                    |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: **200**

**Table 4-16** Response body parameters

| Parameter | Type                                              | Description |
|-----------|---------------------------------------------------|-------------|
| tasks     | Array of <a href="#">SimpleTaskInfoV2</a> objects | Task Info   |
| total     | Integer                                           | Total       |

**Table 4-17** SimpleTaskInfoV2

| Parameter       | Type   | Description                                                                     |
|-----------------|--------|---------------------------------------------------------------------------------|
| task_id         | String | Specifies the task ID.                                                          |
| task_name       | String | Indicates the task name.                                                        |
| creator_id      | String | Creator ID.                                                                     |
| git_url         | String | Code Repository Address                                                         |
| git_branch      | String | Code repository branch. If the MR mode is used, the value is the source branch. |
| created_at      | String | Created                                                                         |
| last_check_time | String | Last Check Time                                                                 |

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

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

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

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

GET https://{endpoint}/v2/{task\_id}/tasks

## Example Responses

**Status code: 200**

Request succeeded!

```
{
  "tasks": [ {
    "task_id": "435b58e*****d01c94a6",
```

```
"task_name" : "CSharp_02201119",
"creator_id" : "ecadebb5041***9780f3d905e20",
"git_url" : "git@*****_02201119.git",
"git_branch" : "master",
"created_at" : "2020-02-20 11:21:11",
"last_check_time" : "2020-02-20 11:37:46"
}, {
"task_id" : "435b58343tg5g36907c1384d01c94a6",
"task_name" : "CSharp_066",
"creator_id" : "ecadebb3664*****",
"git_url" : "git@****_02201119.git",
"git_branch" : "master",
"created_at" : "2020-02-20 11:21:11",
"last_check_time" : "2020-02-20 11:37:46"
}],
"total" : 2
}
```

**Status code: 400**

## Bad Request

```
{
"error_code" : "CC.00000000",
"error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

## Unauthorized

```
{
"error_code" : "CC.00000003",
"error_msg" : "The authentication information has expired."
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

public class ShowTaskListByProjectIdSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
```

```
CodeCheckClient client = CodeCheckClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
    .build();
ShowTaskListByProjectIdRequest request = new ShowTaskListByProjectIdRequest();
request.withOffset(<offset>);
request.withLimit(<limit>);
try {
    ShowTaskListByProjectIdResponse response = client.showTaskListByProjectId(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = CodeCheckClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowTaskListByProjectIdRequest()
        request.offset = <offset>
        request.limit = <limit>
        response = client.show_task_list_by_project_id(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
```



```
codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowTaskListByProjectIdRequest{}
    offsetRequest := int32(<offset>)
    request.Offset = &offsetRequest
    limitRequest := int32(<limit>)
    request.Limit = &limitRequest
    response, err := client.ShowTaskListByProjectId(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.4 Executing a Check Task

### Function

Execute the check task.

### Calling Method

For details, see [Calling APIs](#).

### URI

POST /v2/tasks/{task\_id}/run

**Table 4-20** Path Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| task_id   | Yes       | String | Task ID     |

### Request Parameters

**Table 4-21** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                              |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: 1<br>Maximum: <b>100000</b> |
| Content-Type | Yes       | String | Media type and encoding format.                                                                                                                          |

**Table 4-22** Request body parameters

| Parameter | Mandatory | Type   | Description                                                                                    |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------|
| username  | No        | String | Name of the user who has the permission on the temporary repository corresponding to the task. |

| Parameter    | Mandatory | Type   | Description                                                                                     |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------|
| access_token | No        | String | Token of the user who has the permission on the temporary repository corresponding to the task. |
| git_url      | No        | String | Temporary repository address corresponding to the task.                                         |
| git_branch   | No        | String | Temporary warehouse branch corresponding to the task.                                           |

## Response Parameters

**Status code: 200**

**Table 4-23** Response body parameters

| Parameter | Type   | Description  |
|-----------|--------|--------------|
| exec_id   | String | Execution ID |

**Status code: 400**

**Table 4-24** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401**

**Table 4-25** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

Execute the check task. The URL of the code repository corresponding to the task is displayed based on the site requirements. The branch of the code repository is master, and the user name is displayed based on the site requirements.

```
POST https://{endpoint}/v2/tasks/{taskid}/run
{
  "git_url" : "http://github.xxxxxxxx.git",
  "git_branch" : "master",
  "username" : "test",
  "access_token" : "xLD56xxxxxxxxxJF3Sdxxxx"
}
```

## Example Responses

### Status code: 200

Request succeeded!

```
{
  "exec_id" : "d163535d0*****81d6a7654443e"
}
```

### Status code: 400

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

### Status code: 401

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Execute the check task. The URL of the code repository corresponding to the task is displayed based on the site requirements. The branch of the code repository is master, and the user name is displayed based on the site requirements.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;
```

```
public class RunTaskSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new BasicCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        CodeCheckClient client = CodeCheckClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))  
            .build();  
        RunTaskRequest request = new RunTaskRequest();  
        RunRequestV2 body = new RunRequestV2();  
        body.withGitBranch("master");  
        body.withGitUrl("http://github.xxxxxxx.git");  
        body.withAccessToken("xLD56xxxxxxxxxJF3Sdxxx");  
        body.withUsername("test");  
        request.withBody(body);  
        try {  
            RunTaskResponse response = client.runTask(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

## Python

Execute the check task. The URL of the code repository corresponding to the task is displayed based on the site requirements. The branch of the code repository is master, and the user name is displayed based on the site requirements.

```
# coding: utf-8  
  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodecheck.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = __import__('os').getenv("CLOUD_SDK_AK")  
    sk = __import__('os').getenv("CLOUD_SDK_SK")  
  
    credentials = BasicCredentials(ak, sk) \
```

```
client = CodeCheckClient.new_builder() \  
  .with_credentials(credentials) \  
  .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \  
  .build()  
  
try:  
  request = RunTaskRequest()  
  request.body = RunRequestV2(  
    git_branch="master",  
    git_url="http://github.xxxxxxx.git",  
    access_token="xLD56xxxxxxxxJF3Sdxxxx",  
    username="test"  
  )  
  response = client.run_task(request)  
  print(response)  
except exceptions.ClientRequestException as e:  
  print(e.status_code)  
  print(e.request_id)  
  print(e.error_code)  
  print(e.error_msg)
```

## Go

Execute the check task. The URL of the code repository corresponding to the task is displayed based on the site requirements. The branch of the code repository is master, and the user name is displayed based on the site requirements.

```
package main  
  
import (  
  "fmt"  
  "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
  codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"  
  "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"  
  region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"  
)  
  
func main() {  
  // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
  risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
  variables and decrypted during use to ensure security.  
  // In this example, AK and SK are stored in environment variables for authentication. Before running this  
  example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
  ak := os.Getenv("CLOUD_SDK_AK")  
  sk := os.Getenv("CLOUD_SDK_SK")  
  
  auth := basic.NewCredentialsBuilder().  
    WithAk(ak).  
    WithSk(sk).  
    Build()  
  
  client := codecheck.NewCodeCheckClient(  
    codecheck.CodeCheckClientBuilder().  
      WithRegion(region.ValueOf("<YOUR REGION>")).  
      WithCredential(auth).  
      Build())  
  
  request := &model.RunTaskRequest{}  
  gitBranchRunRequestV2 := "master"  
  gitUrlRunRequestV2 := "http://github.xxxxxxx.git"  
  accessTokenRunRequestV2 := "xLD56xxxxxxxxJF3Sdxxxx"  
  usernameRunRequestV2 := "test"  
  request.Body = &model.RunRequestV2{  
    GitBranch: &gitBranchRunRequestV2,  
    GitUrl: &gitUrlRunRequestV2,  
    AccessToken: &accessTokenRunRequestV2,  
    Username: &usernameRunRequestV2,  
  }  
}
```

```
response, err := client.RunTask(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.5 Stopping a Check Task

### Function

This interface is used to terminate a check task based on the task ID.

### Calling Method

For details, see [Calling APIs](#).

### URI

POST /v2/tasks/{task\_id}/stop

**Table 4-26** Path Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| task_id   | Yes       | String | Task ID     |

## Request Parameters

**Table 4-27** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br><br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

**Status code: 400**

**Table 4-28** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401**

**Table 4-29** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
POST https://{endpoint}/v2/tasks/2b31ed520xxxxxebedb6e57xxxxxxx/stop
```

## Example Responses

**Status code: 200**

Request succeeded!

```
null
```

**Status code: 400**

Bad Request



```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

public class StopTaskByIdSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        StopTaskByIdRequest request = new StopTaskByIdRequest();
        try {
            StopTaskByIdResponse response = client.stopTaskById(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = CodeCheckClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = StopTaskByIdRequest()
        response = client.stop_task_by_id(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.StopTaskByIdRequest{}
    response, err := client.StopTaskById(request)
```

```
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.6 Querying the Task Execution Status

### Function

Query the task execution status based on the task ID. Task status: 0 indicates that the task is being checked, 1 indicates that the check fails, 2 indicates that the check is successful, and 3 indicates that the task is stopped. The detailed progress information is displayed only when the check is in progress.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/tasks/{task\_id}/progress

**Table 4-30** Path Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| task_id   | Yes       | String | Task ID     |

## Request Parameters

**Table 4-31** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                              |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: 1<br>Maximum: <b>100000</b> |

## Response Parameters

**Status code: 200****Table 4-32** Response body parameters

| Parameter   | Type                                    | Description                                                                                                           |
|-------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| task_status | Integer                                 | Specifies the task status. The value can be 0 (checking), 1 (check failed), 2 (check succeeded), or 3 (task stopped). |
| progress    | <a href="#">ProgressDetailV2</a> object | Check Progress                                                                                                        |

**Table 4-33** ProgressDetailV2

| Parameter | Type   | Description         |
|-----------|--------|---------------------|
| ratio     | String | Progress Percentage |
| info      | String | Progress            |

**Status code: 400****Table 4-34** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401**

**Table 4-35** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/tasks/2b31ed520xxxxxxeb6e57xxxxxxx/progress
```

## Example Responses

### Status code: 200

Request succeeded!

```
{
  "task_status" : 0,
  "progress" : {
    "ratio" : "50%",
    "info" : "Performing the check..."
  }
}
```

### Status code: 400

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

### Status code: 401

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.7 Querying Historical Scan Results

### Function

Provides statistics on the number of issues scanned each time.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/{project\_id}/tasks/{task\_id}/checkrecord

**Table 4-36** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| task_id    | Yes       | String | Task ID     |

**Table 4-37** Query Parameters

| Parameter  | Mandatory | Type    | Description                                                                                                                                                           |
|------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset     | No        | Integer | Pagination index, offset<br>Minimum: <b>0</b><br>Default: <b>0</b>                                                                                                    |
| limit      | No        | Integer | Number of records displayed on each page. A maximum of 1000 records can be displayed on each page.<br>Minimum: <b>1</b><br>Maximum: <b>1000</b><br>Default: <b>10</b> |
| start_time | No        | String  | Start time for filtering tasks. Tasks are filtered based on the start time.                                                                                           |
| end_time   | No        | String  | End time of the filtering. The filtering is performed based on the end time of the task check.                                                                        |

## Request Parameters

**Table 4-38** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | 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.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: 200

**Table 4-39** Response body parameters

| Parameter | Type                                                 | Description     |
|-----------|------------------------------------------------------|-----------------|
| data      | Array of <a href="#">CheckRecordDataInfo</a> objects | Historical data |
| total     | Integer                                              | Total           |

**Table 4-40** CheckRecordDataInfo

| Parameter      | Type                                              | Description                         |
|----------------|---------------------------------------------------|-------------------------------------|
| check_time     | String                                            | Schedule                            |
| check_end_time | String                                            | Checks the task execution end time. |
| issue_counts   | <a href="#">CheckRecordIssueCountsInfo</a> object | Severity                            |

**Table 4-41** CheckRecordIssueCountsInfo

| Parameter | Type    | Description     |
|-----------|---------|-----------------|
| critical  | Integer | Critical Issues |

| Parameter | Type    | Description     |
|-----------|---------|-----------------|
| serious   | Integer | Major           |
| normal    | Integer | Common Problems |
| prompt    | Integer | Suggestion      |

**Status code: 400****Table 4-42** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-43** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/{project_id}/tasks/{task_id}/checkrecord
```

## Example Responses

**Status code: 200**

Request succeeded!

```
{
  "total": 100,
  "data": [ {
    "check_time": "2020-02-20 11:37:46",
    "check_end_time": "2020-02-20 11:47:46",
    "issue_counts": {
      "critical": 0,
      "serious": 1,
      "normal": 2,
      "prompt": 3
    }
  }, {
    "check_time": "2020-02-20 11:37:46",
    "check_end_time": "2020-02-20 11:47:46",
    "issue_counts": {
      "critical": 0,
```



```
"serious" : 1,  
"normal" : 2,  
"prompt" : 3  
}  
}]  
}
```

**Status code: 400**

Bad Request

```
{  
  "error_code" : "CC.00000000",  
  "error_msg" : "The network is busy. Please try again later."  
}
```

**Status code: 401**

Unauthorized

```
{  
  "error_code" : "CC.00000003",  
  "error_msg" : "The authentication information has expired."  
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.8 Querying the Selected Rule Sets of a Task (V2)

### Function

This API is used to query the selected rule set list (v2) of a task.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/{project\_id}/tasks/{task\_id}/rulesets

**Table 4-44** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| task_id    | Yes       | String | Task ID.    |

## Request Parameters

**Table 4-45** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                             |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | No        | String | Setting the Media Type and Encoding Format                                                                                                                              |
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: 1<br>Maximum: <b>100000</b> |

## Response Parameters

Status code: 200

**Table 4-46** Response body parameters

| Parameter | Type                                             | Description        |
|-----------|--------------------------------------------------|--------------------|
| [items]   | Array of <a href="#">TaskRulesetInfo</a> objects | Request succeeded! |

**Table 4-47** TaskRulesetInfo

| Parameter     | Type   | Description       |
|---------------|--------|-------------------|
| template_id   | String | Rule Set ID       |
| language      | String | Rule Set Language |
| template_name | String | Rule Set          |

| Parameter | Type   | Description                                                                                                                 |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------|
| type      | String | Rule set status. The options are as follows: optional; selected.                                                            |
| status    | String | Rule set attribute. The value 0 indicates the default user rule set, and the value 1 indicates the default system rule set. |

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

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

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

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/{project_id}/tasks/{task_id}/rulesets
```

## Example Responses

**Status code: 200**

Request succeeded!

```
[ {  
  "template_id" : "396e1c2511744f6fa199d33b26038edd",  
  "language" : "Java",  
  "template_name" : "Java_cmetrics",  
  "type" : "selected",  
  "status" : "0"  
}, {  
  "template_id" : "4e988c481b4c46d0a3297fbc343a662d",  
  "language" : "html",  
  "template_name" : "General Check Rule Set",  
  "type" : "optional",  
  "status" : "1"  
}]
```

**Status code: 400**

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

**Status Codes**

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

**Error Codes**See [Error Codes](#).**4.1.9 Querying the Selected Rule Sets of a Task (v3)****Function**

This API is used to query the selected rule set list (v3) of a task.

**Calling Method**For details, see [Calling APIs](#).**URI**

GET /v3/{project\_id}/tasks/{task\_id}/rulesets

**Table 4-50** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| task_id    | Yes       | String | Task ID     |

**Table 4-51** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                                           |
|-----------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | No        | Integer | Pagination index, offset<br>Minimum: <b>0</b><br>Default: <b>0</b>                                                                                                    |
| limit     | No        | Integer | Number of records displayed on each page. A maximum of 1000 records can be displayed on each page.<br>Minimum: <b>1</b><br>Maximum: <b>1000</b><br>Default: <b>10</b> |

## Request Parameters

**Table 4-52** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                             |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | No        | String | Setting the Media Type and Encoding Format                                                                                                              |
| X-Auth-Token | Yes       | String | User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: **200**

**Table 4-53** Response body parameters

| Parameter | Type                                             | Description          |
|-----------|--------------------------------------------------|----------------------|
| info      | Array of <a href="#">TaskRulesetInfo</a> objects | Rule Set Information |
| total     | Integer                                          | Total                |

**Table 4-54** TaskRulesetInfo

| Parameter     | Type   | Description                                                                                                                 |
|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------|
| template_id   | String | Rule Set ID                                                                                                                 |
| language      | String | Rule Set Language                                                                                                           |
| template_name | String | Rule Set                                                                                                                    |
| type          | String | Rule set status. The options are as follows: optional; selected.                                                            |
| status        | String | Rule set attribute. The value 0 indicates the default user rule set, and the value 1 indicates the default system rule set. |

**Status code: 400****Table 4-55** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-56** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v3/{project_id}/tasks/{task_id}/rulesets
```

## Example Responses

**Status code: 200**

Request succeeded!

```
{
  "total": 1,
  "data": [ {
    "template_id": "111111xxxx3246",
```

```
"language" : "java",  
"type" : "selected",  
"template_name" : "General check rule set",  
"status" : "1"  
}]  
}
```

**Status code: 400**

Bad Request

```
{  
  "error_code" : "CC.00000000",  
  "error_msg" : "The network is busy. Please try again later."  
}
```

**Status code: 401**

Unauthorized

```
{  
  "error_code" : "CC.00000003",  
  "error_msg" : "The authentication information has expired."  
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

### 4.1.10 Querying Check Parameters of a Task Rule Set (V2)

#### Function

Querying Check Parameters of a Task Rule Set (V2)

#### Calling Method

For details, see [Calling APIs](#).

#### URI

GET /v2/{project\_id}/tasks/{task\_id}/ruleset/{ruleset\_id}/check-parameters

**Table 4-57** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| task_id    | Yes       | String | Task ID.    |
| ruleset_id | Yes       | String | Rule Set ID |

**Table 4-58** Query Parameters

| Parameter | Mandatory | Type   | Description       |
|-----------|-----------|--------|-------------------|
| language  | Yes       | String | Rule Set Language |

## Request Parameters

**Table 4-59** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                 |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | No        | String | Setting the Media Type and Encoding Format                                                                                                                                  |
| X-Auth-Token | Yes       | String | 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.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: 200

**Table 4-60** Response body parameters

| Parameter | Type                                        | Description        |
|-----------|---------------------------------------------|--------------------|
| [items]   | Array of <b>TaskCheckParameters</b> objects | Request succeeded! |



**Table 4-61** TaskCheckParamters

| Parameter       | Type                                             | Description                 |
|-----------------|--------------------------------------------------|-----------------------------|
| check_id        | Integer                                          | Check Tool ID               |
| name            | String                                           | Compilation Parameter Name  |
| checker_configs | Array of <a href="#">CheckConfigInfo</a> objects | Checking Parameter Settings |

**Table 4-62** CheckConfigInfo

| Parameter     | Type    | Description                                                        |
|---------------|---------|--------------------------------------------------------------------|
| name          | String  | Check the parameter name.                                          |
| cfg_key       | String  | Check the key value corresponding to the parameter.                |
| default_value | String  | Checking the Default Value of a Parameter                          |
| option_value  | String  | Check the optional parameters.                                     |
| is_required   | Integer | 0: optional; 1: mandatory                                          |
| description   | String  | Check Parameter Description                                        |
| type          | Integer | Parameter type. The options are as follows: 0: text; 2: optional.  |
| status        | String  | Parameter status. The options are on (enabled) and off (disabled). |
| value         | String  | Checks parameter values.                                           |

**Status code: 400****Table 4-63** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401**

**Table 4-64** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/{project_id}/tasks/{task_id}/ruleset/{ruleset_id}/check-parameters
```

## Example Responses

### Status code: 200

Request succeeded!

```
[ {  
  "check_id" : 0,  
  "name" : "compile_tool",  
  "check_configs" : [ {  
    "value" : "",  
    "name" : "Command",  
    "cfg_key" : "",  
    "default_value" : "",  
    "option_value" : "",  
    "is_required" : 0,  
    "description" : "Command",  
    "type" : 0,  
    "status" : "on"  
  } ]  
} ]
```

### Status code: 400

Bad Request

```
{  
  "error_code" : "CC.00000000",  
  "error_msg" : "The network is busy. Please try again later."  
}
```

### Status code: 401

Unauthorized

```
{  
  "error_code" : "CC.00000003",  
  "error_msg" : "The authentication information has expired."  
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |

| Status Code | Description  |
|-------------|--------------|
| 401         | Unauthorized |

## Error Codes

See [Error Codes](#).

## 4.1.11 Querying Check Parameters of a Task Rule Set (v3)

### Function

Querying Check Parameters of a Task Rule Set (v3)

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v3/{project\_id}/tasks/{task\_id}/ruleset/{ruleset\_id}/check-parameters

**Table 4-65** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| task_id    | Yes       | String | Task ID     |
| ruleset_id | Yes       | String | Rule Set ID |

**Table 4-66** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                            |
|-----------|-----------|---------|----------------------------------------------------------------------------------------|
| language  | Yes       | String  | Rule Set Language                                                                      |
| offset    | No        | Integer | Pagination index, offset, which is optional.<br>Minimum: <b>0</b><br>Default: <b>0</b> |

| Parameter | Mandatory | Type    | Description                                                                                                                              |
|-----------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------|
| limit     | No        | Integer | Number of records displayed on each page. This parameter is optional.<br>Minimum: <b>1</b><br>Maximum: <b>1000</b><br>Default: <b>10</b> |

## Request Parameters

Table 4-67 Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                    |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | No        | String | Setting the Media Type and Encoding Format                                                                                                                                     |
| X-Auth-Token | Yes       | String | The user token is obtained by calling the IAM API for obtaining a user token (value of X-Subject-Token in the response header).<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: 200

Table 4-68 Response body parameters

| Parameter | Type                                                 | Description     |
|-----------|------------------------------------------------------|-----------------|
| data      | Array of <a href="#">TaskCheckParameters</a> objects | Historical data |
| total     | Integer                                              | Total           |

Table 4-69 TaskCheckParameters

| Parameter | Type    | Description   |
|-----------|---------|---------------|
| check_id  | Integer | Check Tool ID |

| Parameter       | Type                                             | Description                 |
|-----------------|--------------------------------------------------|-----------------------------|
| name            | String                                           | Compilation Parameter Name  |
| checker_configs | Array of <a href="#">CheckConfigInfo</a> objects | Checking Parameter Settings |

**Table 4-70** CheckConfigInfo

| Parameter     | Type    | Description                                                        |
|---------------|---------|--------------------------------------------------------------------|
| name          | String  | Check the parameter name.                                          |
| cfg_key       | String  | Check the key value corresponding to the parameter.                |
| default_value | String  | Checking the Default Value of a Parameter                          |
| option_value  | String  | Check the optional parameters.                                     |
| is_required   | Integer | 0: optional; 1: mandatory                                          |
| description   | String  | Check Parameter Description                                        |
| type          | Integer | Parameter type. The options are as follows: 0: text; 2: optional.  |
| status        | String  | Parameter status. The options are on (enabled) and off (disabled). |
| value         | String  | Checks parameter values.                                           |

**Status code: 400****Table 4-71** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-72** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |

| Parameter | Type   | Description |
|-----------|--------|-------------|
| error_msg | String | Description |

## Example Requests

```
GET https://{endpoint}/v3/{project_id}/tasks/{task_id}/ruleset/{ruleset_id}/check-parameters
```

## Example Responses

### Status code: 200

Request succeeded!

```
{
  "total": 1,
  "data": [ {
    "check_id": 0,
    "name": "compile_tool",
    "check_configs": [ {
      "value": "",
      "name": "Command",
      "cfg_key": "",
      "default_value": "",
      "option_value": "",
      "is_required": 0,
      "description": "Command",
      "type": 0,
      "status": "on"
    } ]
  } ]
}
```

### Status code: 400

Bad Request

```
{
  "error_code": "CC.00000000",
  "error_msg": "The network is busy. Please try again later."
}
```

### Status code: 401

Unauthorized

```
{
  "error_code": "CC.00000003",
  "error_msg": "The authentication information has expired."
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.12 Task Configuration Check Parameters

### Function

Task Configuration Check Parameters

### Calling Method

For details, see [Calling APIs](#).

### URI

POST /v2/{project\_id}/tasks/{task\_id}/config-parameters

**Table 4-73** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| task_id    | Yes       | String | Task ID     |

### Request Parameters

**Table 4-74** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                     |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |
| Content-Type | Yes       | String | Media type and encoding format.                                                                                                                                 |

**Table 4-75** Request body parameters

| Parameter           | Mandatory | Type                                          | Description                                                          |
|---------------------|-----------|-----------------------------------------------|----------------------------------------------------------------------|
| check_id            | Yes       | Integer                                       | Check Tool ID<br>Minimum: <b>1</b><br>Maximum: <b>11</b>             |
| ruleset_id          | Yes       | String                                        | Rule Set ID<br>Minimum: <b>1</b><br>Maximum: <b>64</b>               |
| language            | Yes       | String                                        | Rule Set Language<br>Minimum: <b>1</b><br>Maximum: <b>128</b>        |
| status              | Yes       | String                                        | off: disabled; on: enabled<br>Minimum: <b>1</b><br>Maximum: <b>3</b> |
| task_check_settings | Yes       | Array of <b>TaskCheckSettingsItem</b> objects | Checking Parameter Information                                       |

**Table 4-76** TaskCheckSettingsItem

| Parameter | Mandatory | Type   | Description                                                                                    |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------|
| cfg_key   | Yes       | String | Check the key value corresponding to the parameter.<br>Minimum: <b>1</b><br>Maximum: <b>50</b> |
| status    | Yes       | String | Parameter Status<br>Minimum: <b>1</b><br>Maximum: <b>3</b>                                     |
| cfg_value | No        | String | Checking Parameter Values<br>Minimum: <b>1</b><br>Maximum: <b>1000</b>                         |

## Response Parameters

Status code: 400



**Table 4-77** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-78** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

Task configuration check parameter: Check whether the language type of the parameter is csharp and the status is on.

```
POST https://{endpoint}/v2/{project_id}/tasks/{task_id}/config-parameters
```

```
{
  "check_id" : 11,
  "ruleset_id" : "b113bxxxxxxxx5738bee86ecxxxxxxxx",
  "language" : "csharp",
  "status" : "on",
  "task_check_settings" : [ {
    "cfg_key" : "csharpCompileTool",
    "status" : "on",
    "cfg_value" : "msbuild"
  } ]
}
```

## Example Responses

**Status code: 200**

Request succeeded!

```
null
```

**Status code: 400**

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

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

```
"error_msg" : "The authentication information has expired."  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Task configuration check parameter: Check whether the language type of the parameter is csharp and the status is on.

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;  
import com.huaweicloud.sdk.codecheck.v2.*;  
import com.huaweicloud.sdk.codecheck.v2.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class ListTaskParameterSolution {  
  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new BasicCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        CodeCheckClient client = CodeCheckClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ListTaskParameterRequest request = new ListTaskParameterRequest();  
        ConfigTaskParameterBody body = new ConfigTaskParameterBody();  
        List<TaskCheckSettingsItem> listbodyTaskCheckSettings = new ArrayList<>();  
        listbodyTaskCheckSettings.add(  
            new TaskCheckSettingsItem()  
                .withCfgKey("csharpCompileTool")  
                .withStatus("on")  
                .withCfgValue("msbuild")  
        );  
        body.withTaskCheckSettings(listbodyTaskCheckSettings);  
        body.withStatus("on");  
        body.withLanguage("csharp");  
        body.withRulesetId("b113bxxxxxxx5738bee86ecxxxxxxx");  
        body.withCheckId(11);  
        request.withBody(body);  
        try {  
            ListTaskParameterResponse response = client.listTaskParameter(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        }  
    }  
}
```

```
    } catch (ServiceResponseException e) {  
        e.printStackTrace();  
        System.out.println(e.getHttpStatusCode());  
        System.out.println(e.getRequestId());  
        System.out.println(e.getErrorCode());  
        System.out.println(e.getErrorMsg());  
    }  
}  
}
```

## Python

Task configuration check parameter: Check whether the language type of the parameter is csharp and the status is on.

```
# coding: utf-8  
  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodecheck.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = __import__('os').getenv("CLOUD_SDK_AK")  
    sk = __import__('os').getenv("CLOUD_SDK_SK")  
  
    credentials = BasicCredentials(ak, sk) \  
  
    client = CodeCheckClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = ListTaskParameterRequest()  
        listTaskCheckSettingsbody = [  
            TaskCheckSettingsItem(  
                cfg_key="csharpCompileTool",  
                status="on",  
                cfg_value="msbuild"  
            )  
        ]  
        request.body = ConfigTaskParameterBody(  
            task_check_settings=listTaskCheckSettingsbody,  
            status="on",  
            language="csharp",  
            ruleset_id="b113bxxxxxxx5738bee86ecxxxxxxx",  
            check_id=11  
        )  
        response = client.list_task_parameter(request)  
        print(response)  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)  
        print(e.error_code)  
        print(e.error_msg)
```

## Go

Task configuration check parameter: Check whether the language type of the parameter is csharp and the status is on.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListTaskParameterRequest{}
    cfgValueTaskCheckSettings:= "msbuild"
    var listTaskCheckSettingsbody = []model.TaskCheckSettingsItem{
        {
            CfgKey: "csharpCompileTool",
            Status: "on",
            CfgValue: &cfgValueTaskCheckSettings,
        },
    }
    request.Body = &model.ConfigTaskParameterBody{
        TaskCheckSettings: listTaskCheckSettingsbody,
        Status: "on",
        Language: "csharp",
        RulesetId: "b113bxxxxxxx5738bee86ecxxxxxxx",
        CheckId: int32(11),
    }
    response, err := client.ListTaskParameter(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |

| Status Code | Description  |
|-------------|--------------|
| 400         | Bad Request  |
| 401         | Unauthorized |

## Error Codes

See [Error Codes](#).

## 4.1.13 Modifying a Task Rule Set

### Function

Modify a task rule set.

### Calling Method

For details, see [Calling APIs](#).

### URI

PUT /v2/tasks/{task\_id}/ruleset

**Table 4-79** Path Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| task_id   | Yes       | String | Task ID     |

## Request Parameters

**Table 4-80** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                    |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Setting the Media Type and Encoding Format                                                                                                                                     |
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

**Table 4-81** Request body parameters

| Parameter | Mandatory | Type                                                   | Description     |
|-----------|-----------|--------------------------------------------------------|-----------------|
| [items]   | Yes       | Array of <a href="#">UpdateTaskRulesetItem</a> objects | Modify Rule Set |

**Table 4-82** UpdateTaskRulesetItem

| Parameter   | Mandatory | Type   | Description                                                                                                                                    |
|-------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|
| language    | Yes       | String | Rule Set Language<br>Minimum: <b>1</b><br>Maximum: <b>128</b>                                                                                  |
| rule_set_id | Yes       | String | Rule Set ID<br>Minimum: <b>1</b><br>Maximum: <b>50</b>                                                                                         |
| if_use      | Yes       | String | Indicates whether the relationship between the task language and rule set is enabled. 1: yes; 0: no.<br>Minimum: <b>1</b><br>Maximum: <b>1</b> |
| status      | Yes       | String | New/Old data. The default value is 1.<br>Minimum: <b>1</b><br>Maximum: <b>1</b>                                                                |

## Response Parameters

**Status code: 400**

**Table 4-83** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401**

**Table 4-84** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

Modify the rule set of the task. The language type of the rule set is `cpp`, the rule setting ID is displayed according to the actual situation, and the rule status is 1.

```
PUT https://{endpoint}/v2/tasks/{task_id}/ruleset
```

```
[ {  
  "language" : "cpp",  
  "rule_set_id" : "7be4cfxxxxxxxxfd8d07077cxxxxxxxx",  
  "if_use" : "1",  
  "status" : "1"  
} ]
```

## Example Responses

### Status code: 200

Request succeeded!

```
null
```

### Status code: 400

Bad Request

```
{  
  "error_code" : "CC.00000000",  
  "error_msg" : "The network is busy. Please try again later."  
}
```

### Status code: 401

Unauthorized

```
{  
  "error_code" : "CC.00000003",  
  "error_msg" : "The authentication information has expired."  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Modify the rule set of the task. The language type of the rule set is `cpp`, the rule setting ID is displayed according to the actual situation, and the rule status is 1.

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;
```

```
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateTaskRulesetSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateTaskRulesetRequest request = new UpdateTaskRulesetRequest();
        List<UpdateTaskRulesetItem> listbodyUpdateTaskRuleset = new ArrayList<>();
        listbodyUpdateTaskRuleset.add(
            new UpdateTaskRulesetItem()
                .withLanguage("cpp")
                .withRuleSetId("7be4cfxxxxxxxxfd8d07077cxxxxxxxx")
                .withIfUse("1")
                .withStatus("1")
        );
        request.withBody(listbodyUpdateTaskRuleset);
        try {
            UpdateTaskRulesetResponse response = client.updateTaskRuleset(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

Modify the rule set of the task. The language type of the rule set is cpp, the rule setting ID is displayed according to the actual situation, and the rule status is 1.

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
```



```
# The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
variables and decrypted during use to ensure security.
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = __import__('os').getenv("CLOUD_SDK_AK")
sk = __import__('os').getenv("CLOUD_SDK_SK")

credentials = BasicCredentials(ak, sk) \

client = CodeCheckClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = UpdateTaskRulesetRequest()
    listUpdateTaskRulesetbody = [
        UpdateTaskRulesetItem(
            language="cpp",
            rule_set_id="7be4cfxxxxxxxxfd8d07077cxxxxxxxx",
            if_use="1",
            status="1"
        )
    ]
    request.body = listUpdateTaskRulesetbody
    response = client.update_task_ruleset(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

Modify the rule set of the task. The language type of the rule set is cpp, the rule setting ID is displayed according to the actual situation, and the rule status is 1.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.UpdateTaskRulesetRequest{}
var listUpdateTaskRulesetbody = []model.UpdateTaskRulesetItem{
    {
        Language: "cpp",
        RuleSetId: "7be4cfxxxxxxxxfd8d07077xxxxxxxx",
        IfUse: "1",
        Status: "1",
    },
}
request.Body = &listUpdateTaskRulesetbody
response, err := client.UpdateTaskRuleset(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.14 Querying Task Check Failure Logs

### Function

This interface is used to query task check failure logs. If `execute_id` is not transferred, the latest check log is queried.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/{project\_id}/tasks/{task\_id}/log-detail

**Table 4-85** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| task_id    | Yes       | String | Task ID.    |

**Table 4-86** Query Parameters

| Parameter  | Mandatory | Type   | Description          |
|------------|-----------|--------|----------------------|
| execute_id | No        | String | ID of a single task. |

## Request Parameters

**Table 4-87** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | No        | String | Setting the Media Type and Encoding Format                                                                                                                 |
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: 200

**Table 4-88** Response body parameters

| Parameter  | Type                            | Description     |
|------------|---------------------------------|-----------------|
| param_info | <b>ParamInfo</b> object         | Task Details    |
| log_info   | Array of <b>LogInfo</b> objects | Log information |

**Table 4-89** ParamInfo

| Parameter      | Type   | Description                           |
|----------------|--------|---------------------------------------|
| url            | String | Repository address                    |
| branch         | String | Repository Branch                     |
| language       | String | Repository Language                   |
| exclude_dir    | String | Excluded Directory                    |
| encode         | String | Encoding Format                       |
| compile_config | String | Compilation Configuration Information |
| rule_template  | String | Rule Set Name                         |

**Table 4-90** LogInfo

| Parameter    | Type   | Description         |
|--------------|--------|---------------------|
| display_name | String | Log Title           |
| log          | String | Log content         |
| level        | String | Log level           |
| analysis     | String | Logs                |
| faq          | String | Cloud Commerce FAQs |

**Status code: 400****Table 4-91** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-92** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |

| Parameter | Type   | Description |
|-----------|--------|-------------|
| error_msg | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/{project_id}/tasks/{task_id}/log-detail
```

## Example Responses

### Status code: 200

Request succeeded!

```
{
  "param_info": {
    "url": "git@xxxxxx_only00001/file.git",
    "branch": "master",
    "language": "language",
    "exclude_dir": "aa",
    "encode": "",
    "compile_config": "xxx",
    "rule_template": ""
  },
  "log_info": [ {
    "log": "2023-01-04 14:31:33 Running on server:10.75.***.***\n2023-01-04 14:31:34 waiting subJob to execute\n2023-01-04 14:33:38 flush redis cache successfully!\n2023-01-04 14:33:38 all subJob finish!",
    "level": "",
    "analysis": "2023-01-04 14:31:33 Running on server:10.75.***.***\n2023-01-04 14:31:34 waiting subJob to execute\n2023-01-04 14:33:38 flush redis cache successfully!\n2023-01-04 14:33:38 all subJob finish!",
    "faq": "",
    "display_name": ""
  } ]
}
```

### Status code: 400

Bad Request

```
{
  "error_code": "CC.00000000",
  "error_msg": "The network is busy. Please try again later."
}
```

### Status code: 401

Unauthorized

```
{
  "error_code": "CC.00000003",
  "error_msg": "The authentication information has expired."
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |

| Status Code | Description  |
|-------------|--------------|
| 401         | Unauthorized |

## Error Codes

See [Error Codes](#).

## 4.1.15 Obtaining the Directory Tree of a Task

### Function

Obtains the directory tree of a task.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/{project\_id}/tasks/{task\_id}/listpathtree

**Table 4-93** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| task_id    | Yes       | String | Task ID.    |

**Table 4-94** Query Parameters

| Parameter    | Mandatory | Type    | Description                                                                                                               |
|--------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------|
| current_path | No        | String  | Directory or file path.                                                                                                   |
| offset       | No        | Integer | Offset for pagination.<br>Minimum: <b>0</b><br>Default: <b>0</b>                                                          |
| limit        | No        | Integer | Number of records displayed on each page (max: 1,000).<br>Minimum: <b>1</b><br>Maximum: <b>1000</b><br>Default: <b>10</b> |

## Request Parameters

None

## Response Parameters

Status code: 200

Table 4-95 Response body parameters

| Parameter | Type                                      | Description                           |
|-----------|-------------------------------------------|---------------------------------------|
| info      | Array of <a href="#">TreeNode</a> objects | Directory tree information of a task. |
| total     | Integer                                   | Quantity.                             |

Table 4-96 TreeNode

| Parameter       | Type    | Description                                                                                                                  |
|-----------------|---------|------------------------------------------------------------------------------------------------------------------------------|
| file_name       | String  | Directory or file name.                                                                                                      |
| file_path       | String  | Directory or file path.                                                                                                      |
| is_leaf         | Boolean | Whether this is a leaf node. The options are <b>true</b> (yes) and <b>false</b> (no).                                        |
| checkbox_status | String  | Shielding status. The value can be <b>unchecked</b> (unshielded), <b>all</b> (all shielded), or <b>half</b> (half shielded). |

Status code: 400

Table 4-97 Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

Status code: 401

**Table 4-98** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/{project_id}/tasks/{task_id}/listpathtree
```

## Example Responses

### Status code: 200

Request succeeded!

```
{
  "info" : [ {
    "file_name" : ".LAST_RELEASE",
    "file_path" : ".LAST_RELEASE",
    "is_leaf" : true,
    "checkbox_status" : "unchecked"
  } ],
  "total" : 1
}
```

### Status code: 400

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "Network busy. Try again later."
}
```

### Status code: 401

Unauthorized

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "Network busy. Try again later."
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;
```



```
public class ShowTaskPathTreeSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowTaskPathTreeRequest request = new ShowTaskPathTreeRequest();
        request.withCurrentPath("<current_path>");
        request.withOffset(<offset>);
        request.withLimit(<limit>);
        try {
            ShowTaskPathTreeResponse response = client.showTaskPathTree(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = CodeCheckClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = ShowTaskPathTreeRequest()
```

```
request.current_path = "<current_path>"
request.offset = <offset>
request.limit = <limit>
response = client.show_task_path_tree(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowTaskPathTreeRequest{}
    currentPathRequest:= "<current_path>"
    request.CurrentPath = &currentPathRequest
    offsetRequest:= int32(<offset>)
    request.Offset = &offsetRequest
    limitRequest:= int32(<limit>)
    request.Limit = &limitRequest
    response, err := client.ShowTaskPathTree(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.16 Shielding a Directory in Task Configuration

### Function

Shielded directory for task configuration.

### Calling Method

For details, see [Calling APIs](#).

### URI

POST /v2/{project\_id}/tasks/{task\_id}/config-ignorepath

**Table 4-99** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| task_id    | Yes       | String | Task ID.    |

### Request Parameters

**Table 4-100** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                               |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header).<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

| Parameter    | Mandatory | Type   | Description                     |
|--------------|-----------|--------|---------------------------------|
| Content-Type | Yes       | String | Media type and encoding format. |

**Table 4-101** Request body parameters

| Parameter            | Mandatory | Type                                                   | Description                              |
|----------------------|-----------|--------------------------------------------------------|------------------------------------------|
| ignore_path_settings | Yes       | Array of <a href="#">IgnorePathSettingItem</a> objects | List of nodes that shield the directory. |

**Table 4-102** IgnorePathSettingItem

| Parameter       | Mandatory | Type   | Description                                                                                                                  |
|-----------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------|
| file_path       | Yes       | String | Directory or file path.                                                                                                      |
| checkbox_status | Yes       | String | Shielding status. The value can be <b>unchecked</b> (unshielded), <b>all</b> (all shielded), or <b>half</b> (half shielded). |

## Response Parameters

### Status code: 400

**Table 4-103** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

### Status code: 401

**Table 4-104** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

Task configuration shielding directory: The file path is .LAST\_RELEASE, and the check status is all.

```
POST https://{endpoint}/v2/{project_id}/tasks/{task_id}/config-ignorepath
{
  "ignore_path_settings" : [ {
    "file_path" : ".LAST_RELEASE",
    "checkbox_status" : "all"
  } ]
}
```

## Example Responses

### Status code: 200

Request succeeded!

```
null
```

### Status code: 400

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "Network busy. Try again later."
}
```

### Status code: 401

Unauthorized

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

## SDK Sample Code

The SDK sample code is as follows.

### Java

Task configuration shielding directory: The file path is .LAST\_RELEASE, and the check status is all.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateIgnorePathSolution {
```

```
public static void main(String[] args) {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
    // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
    // environment variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running
    // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    String ak = System.getenv("CLOUD_SDK_AK");
    String sk = System.getenv("CLOUD_SDK_SK");

    ICredential auth = new BasicCredentials()
        .withAk(ak)
        .withSk(sk);

    CodeCheckClient client = CodeCheckClient.newBuilder()
        .withCredential(auth)
        .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
        .build();
    UpdateIgnorePathRequest request = new UpdateIgnorePathRequest();
    UpdateIgnorePathRequestBody body = new UpdateIgnorePathRequestBody();
    List<IgnorePathSettingItem> listbodyIgnorePathSettings = new ArrayList<>();
    listbodyIgnorePathSettings.add(
        new IgnorePathSettingItem()
            .withFilePath(".LAST_RELEASE")
            .withCheckboxStatus("all")
    );
    body.withIgnorePathSettings(listbodyIgnorePathSettings);
    request.withBody(body);
    try {
        UpdateIgnorePathResponse response = client.updateIgnorePath(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

## Python

Task configuration shielding directory: The file path is .LAST\_RELEASE, and the check status is all.

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = CodeCheckClient.new_builder() \
        .with_credentials(credentials) \
```

```
.with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \  
.build()  
  
try:  
    request = UpdateIgnorePathRequest()  
    listIgnorePathSettingsbody = [  
        IgnorePathSettingItem(  
            file_path=".LAST_RELEASE",  
            checkbox_status="all"  
        )  
    ]  
    request.body = UpdateIgnorePathRequestBody(  
        ignore_path_settings=listIgnorePathSettingsbody  
    )  
    response = client.update_ignore_path(request)  
    print(response)  
except exceptions.ClientRequestException as e:  
    print(e.status_code)  
    print(e.request_id)  
    print(e.error_code)  
    print(e.error_msg)
```

## Go

Task configuration shielding directory: The file path is .LAST\_RELEASE, and the check status is all.

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codecheck.NewCodeCheckClient(  
        codecheck.CodeCheckClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.UpdateIgnorePathRequest{}  
    var listIgnorePathSettingsbody = []model.IgnorePathSettingItem{  
        {  
            FilePath: ".LAST_RELEASE",  
            CheckboxStatus: "all",  
        },  
    }  
    request.Body = &model.UpdateIgnorePathRequestBody{  
        IgnorePathSettings: listIgnorePathSettingsbody,  
    }  
    response, err := client.UpdateIgnorePath(request)  
    if err == nil {
```

```
    fmt.Printf("%+v\n", response)
  } else {
    fmt.Println(err)
  }
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.17 Querying Advanced Settings of a Task

### Function

Advanced settings of a query task.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/{project\_id}/tasks/{task\_id}/settings

**Table 4-105** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| task_id    | Yes       | String | Task ID.    |



**Table 4-106** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                             |
|-----------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------|
| offset    | No        | Integer | (Optional) Offset for pagination.<br>Minimum: <b>0</b><br>Default: <b>0</b>                                             |
| limit     | No        | Integer | (Optional) Number of records displayed on each page.<br>Minimum: <b>1</b><br>Maximum: <b>1000</b><br>Default: <b>10</b> |

## Request Parameters

**Table 4-107** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                               |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Media type and encoding format.                                                                                                                                           |
| X-Auth-Token | Yes       | String | Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header).<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: **200**

**Table 4-108** Response body parameters

| Parameter | Type                                         | Description                            |
|-----------|----------------------------------------------|----------------------------------------|
| info      | Array of <b>TaskAdvancedSettings</b> objects | Information about an advanced setting. |
| total     | Integer                                      | Total number.                          |

**Table 4-109** TaskAdvancedSettings

| Parameter    | Type   | Description                         |
|--------------|--------|-------------------------------------|
| key          | String | Name of an advanced setting.        |
| value        | String | Value of an advanced setting.       |
| option_value | String | Options for an advanced setting.    |
| description  | String | Description of an advanced setting. |

**Status code: 400****Table 4-110** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-111** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

GET https://{endpoint}/v2/{project\_id}/tasks/{task\_id}/settings

## Example Responses

**Status code: 200**

Request succeeded!

```
{
  "info" : [{
    "key" : "customImage",
    "value" : "xxxxx",
    "description" : "Custom image.",
    "option_value" : ""
  }],
  "total" : 1
}
```

**Status code: 400**

### Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "Network busy. Try again later."
}
```

### Status code: 401

### Unauthorized

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

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.1.18 Configuring Advanced Settings for a Task

### Function

Configures advanced settings for a task, such as custom image.

### Calling Method

For details, see [Calling APIs](#).

### URI

POST /v2/{project\_id}/tasks/{task\_id}/settings

**Table 4-112** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID. |
| task_id    | Yes       | String | Task ID.    |

## Request Parameters

**Table 4-113** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                               |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | Can be obtained by calling the IAM API for obtaining the user token (the value of X-Subject-Token in the response header).<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |
| Content-Type | Yes       | String | Media type and encoding format.                                                                                                                                           |

**Table 4-114** Request body parameters

| Parameter              | Mandatory | Type                                                      | Description                                     |
|------------------------|-----------|-----------------------------------------------------------|-------------------------------------------------|
| task_advanced_settings | Yes       | Array of <a href="#">TaskAdvancedSettingsItem</a> objects | Information about advanced settings parameters. |

**Table 4-115** TaskAdvancedSettingsItem

| Parameter | Mandatory | Type   | Description                                                                |
|-----------|-----------|--------|----------------------------------------------------------------------------|
| key       | Yes       | String | Name of an advanced setting.<br>Minimum: <b>1</b><br>Maximum: <b>50</b>    |
| value     | Yes       | String | Value of an advanced setting.<br>Minimum: <b>1</b><br>Maximum: <b>1000</b> |

## Response Parameters

Status code: **400**

**Table 4-116** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |

| Parameter | Type   | Description |
|-----------|--------|-------------|
| error_msg | String | Description |

**Status code: 401**

**Table 4-117** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

Configure advanced options for tasks, such as customizing images.

```
POST https://{endpoint}/v2/{project_id}/tasks/{task_id}/settings
{
  "task_advanced_settings": [ {
    "key": "customImage",
    "value": "xxxx"
  } ]
}
```

## Example Responses

**Status code: 200**

Request succeeded!

```
null
```

**Status code: 400**

Bad Request

```
{
  "error_code": "CC.00000000",
  "error_msg": "Network busy. Try again later."
}
```

**Status code: 401**

Unauthorized

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

## SDK Sample Code

The SDK sample code is as follows.

## Java

Configure advanced options for tasks, such as customizing images.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

import java.util.List;
import java.util.ArrayList;

public class UpdateTaskSettingsSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateTaskSettingsRequest request = new UpdateTaskSettingsRequest();
        UpdateTaskSettingsRequestBody body = new UpdateTaskSettingsRequestBody();
        List<TaskAdvancedSettingsItem> listbodyTaskAdvancedSettings = new ArrayList<>();
        listbodyTaskAdvancedSettings.add(
            new TaskAdvancedSettingsItem()
                .withKey("customImage")
                .withValue("xxxx")
        );
        body.withTaskAdvancedSettings(listbodyTaskAdvancedSettings);
        request.withBody(body);
        try {
            UpdateTaskSettingsResponse response = client.updateTaskSettings(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

Configure advanced options for tasks, such as customizing images.

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = CodeCheckClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateTaskSettingsRequest()
        listTaskAdvancedSettingsbody = [
            TaskAdvancedSettingsItem(
                key="customImage",
                value="xxxx"
            )
        ]
        request.body = UpdateTaskSettingsRequestBody(
            task_advanced_settings=listTaskAdvancedSettingsbody
        )
        response = client.update_task_settings(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

Configure advanced options for tasks, such as customizing images.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()
```

```
client := codecheck.NewCodeCheckClient(
    codecheck.CodeCheckClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.UpdateTaskSettingsRequest{}
var listTaskAdvancedSettingsbody = []model.TaskAdvancedSettingsItem{
    {
        Key: "customImage",
        Value: "xxxx",
    },
}
request.Body = &model.UpdateTaskSettingsRequestBody{
    TaskAdvancedSettings: listTaskAdvancedSettingsbody,
}
response, err := client.UpdateTaskSettings(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

# 4.2 Defect Management

## 4.2.1 Query Defect Summary

### Function

Query the summary of the defect result based on the check task ID. Including the problem overview, problem status, cyclomatic complexity, and code repetition rate.



## Calling Method

For details, see [Calling APIs](#).

## URI

GET /v2/tasks/{task\_id}/defects-summary

**Table 4-118** Path Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| task_id   | Yes       | String | Task ID     |

## Request Parameters

**Table 4-119** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                     |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: 200

**Table 4-120** Response body parameters

| Parameter       | Type   | Description                                                                     |
|-----------------|--------|---------------------------------------------------------------------------------|
| task_id         | String | Task ID                                                                         |
| task_name       | String | Indicates the task name.                                                        |
| creator_id      | String | Creator ID.                                                                     |
| git_url         | String | Code Repository Address                                                         |
| git_branch      | String | Code repository branch. If the MR mode is used, the value is the source branch. |
| last_check_time | String | Last Check Time                                                                 |

| Parameter                        | Type    | Description                                         |
|----------------------------------|---------|-----------------------------------------------------|
| code_line_total                  | Integer | Total Number of Code Lines                          |
| code_line                        | Integer | Number of Valid Code Lines                          |
| code_quality                     | Number  | Code quality                                        |
| issue_count                      | Integer | Number of Problems                                  |
| risk_coefficient                 | Number  | Dangerous Function                                  |
| duplication_ratio                | String  | Repetition Ratio                                    |
| complexity_count                 | Integer | Complexity                                          |
| duplicated_lines                 | Integer | Duplicate Rows                                      |
| comment_lines                    | Integer | Number of Comment Lines                             |
| comment_ratio                    | String  | Comment Ratio                                       |
| duplicated_blocks                | Integer | Duplicate block                                     |
| last_exec_time                   | String  | Last Executed                                       |
| check_type                       | String  | Check type.                                         |
| created_at                       | String  | Time when the gateway response is created           |
| cyclomatic_complexity_per_method | String  | Average Code Complexity                             |
| cyclomatic_complexity_per_file   | String  | Average Code Complexity (File)                      |
| critical_count                   | String  | Critical                                            |
| major_count                      | String  | Major                                               |
| minor_count                      | String  | Minor                                               |
| suggestion_count                 | String  | Suggestion                                          |
| is_access                        | String  | Check whether the access control quality is passed. |

| Parameter              | Type    | Description                     |
|------------------------|---------|---------------------------------|
| trigger_type           | String  | Task Triggering Mode            |
| file_duplication_ratio | String  | File repetition rate            |
| new_count              | Integer | Number of New Issues            |
| solve_count            | Integer | Resolved                        |
| duplicated_files       | Integer | Number of duplicate files.      |
| new_critical_count     | String  | Number of New Critical Defects  |
| new_major_count        | String  | Number of New Major Problems    |
| new_minor_count        | String  | Number of New Minor Problems    |
| new_suggestion_count   | String  | Number of New Suggestion Issues |

**Status code: 400****Table 4-121** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-122** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/tasks/2b31ed520xxxxxeb6e57xxxxxx/defects-summary
```

## Example Responses

### Status code: 200

Request succeeded!

```
{
  "task_id" : "435b58ecf7f54c45907c1384d01c94a6",
  "task_name" : "CSharp_02201119",
  "creator_id" : "ecadebb5041146cc96f9780f3d905e20",
  "git_url" : "git@****_02201119.git",
  "git_branch" : "master",
  "last_check_time" : "2020-02-20 11:37:46",
  "code_line_total" : 20,
  "code_line" : 156,
  "code_quality" : 147.4,
  "issue_count" : 3,
  "risk_coefficient" : 23,
  "duplication_ratio" : "0.0%",
  "complexity_count" : 0,
  "duplicated_lines" : 0,
  "comment_lines" : 0,
  "comment_ratio" : "0",
  "duplicated_blocks" : 0,
  "last_exec_time" : "2 minutes 28 seconds",
  "check_type" : "source",
  "created_at" : "2020-02-20 11:21:11",
  "cyclomatic_complexity_per_method" : "84.0",
  "cyclomatic_complexity_per_file" : "112.0",
  "critical_count" : 2,
  "major_count" : 1,
  "minor_count" : 1,
  "suggestion_count" : 1,
  "is_access" : 0,
  "trigger_type" : 1,
  "file_duplication_ratio" : "33.3%",
  "new_count" : 0,
  "solve_count" : 0,
  "duplicated_files" : 0,
  "new_critical_count" : "0",
  "new_major_count" : "0",
  "new_minor_count" : "0",
  "new_suggestion_count" : "0"
}
```

### Status code: 400

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

### Status code: 401

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.2.2 Querying the cmertrics Defect Summary

### Function

Query the cmertrics defect summary based on the check task ID.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/{project\_id}/tasks/{task\_id}/metrics-summary

**Table 4-123** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| task_id    | Yes       | String | Task ID     |

## Request Parameters

**Table 4-124** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                         |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | 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.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

**Status code: 200****Table 4-125** Response body parameters

| Parameter       | Type                     | Description              |
|-----------------|--------------------------|--------------------------|
| task_id         | String                   | Task ID.                 |
| task_name       | String                   | Indicates the task name. |
| creator_id      | String                   | Creator ID.              |
| git_url         | String                   | Code Repository Address  |
| git_branch      | String                   | Code Repository Branch   |
| last_check_time | String                   | Last Check Time          |
| last_exec_time  | String                   | Last Executed            |
| check_type      | String                   | Check type.              |
| created_at      | String                   | Created                  |
| metric_info     | <b>MetricInfo</b> object | Measurement Item         |

**Table 4-126** MetricInfo

| Parameter | Type   | Description |
|-----------|--------|-------------|
| code_size | String | Code size   |

| Parameter                            | Type   | Description                                                      |
|--------------------------------------|--------|------------------------------------------------------------------|
| raw_lines                            | String | Total Lines                                                      |
| methods_total                        | String | Total number of functions                                        |
| cyclomatic_complexity_total          | String | Total Cyclomatic Complexity                                      |
| cyclomatic_complexity_per_method     | String | Average cyclomatic complexity: $\leq 5$                          |
| maximum_cyclomatic_complexity        | String | Maximum Cyclomatic Complexity                                    |
| huge_cyclomatic_complexity_total     | String | Complexity of Ultra-Large Circles                                |
| huge_cyclomatic_complexity_ratio     | String | Ratio of ultra-large cyclomatic complexity                       |
| cca_cyclomatic_complexity_total      | String | Total number of cca cyclomatic complexity                        |
| cca_cyclomatic_complexity_per_method | String | cca average cyclomatic complexity                                |
| maximum_cca_cyclomatic_complexity    | String | Maximum Cyclomatic Complexity of cca                             |
| huge_cca_cyclomatic_complexity_total | String | Total Number of Functions with Ultra-Large Cyclomatic Complexity |
| cyclomatic_complexity_adequacy       | String | Cyclomatic Complexity Satisfaction                               |
| maximum_depth                        | String | Maximum depth                                                    |
| huge_depth_total                     | String | Number of ultra-large depths                                     |
| huge_depth_ratio                     | String | Percentage of Ultra-Large Depth                                  |
| method_lines                         | String | Total number of rows in a function                               |

| Parameter                        | Type   | Description                            |
|----------------------------------|--------|----------------------------------------|
| lines_per_method                 | String | Average Code Lines of a Function       |
| huge_method_total                | String | Number of oversized functions          |
| huge_method_ratio                | String | Percentage of ultra-large functions    |
| files_total                      | String | Total Files                            |
| folders_total                    | String | Total number of directories            |
| lines_per_file                   | String | Average Lines of Code in a File        |
| huge_headerfile_total            | String | Number of oversized header files       |
| huge_headerfile_ratio            | String | Percentage of Oversized Header Files   |
| huge_non_headerfile_total        | String | Number of oversized source files       |
| huge_non_headerfile_ratio        | String | Percentage of Oversized Source Files   |
| huge_folder_total                | String | Number of ultra-large directories      |
| huge_folder_ratio                | String | Percentage of Ultra-Large Directories  |
| file_duplication_total           | String | Number of duplicate files              |
| file_duplication_ratio           | String | File repetition rate                   |
| non_hfile_duplication_total      | String | Number of duplicate source files       |
| non_hfile_duplication_ratio      | String | Source File Repetition Rate            |
| code_duplication_total           | String | Number of repeated codes               |
| code_duplication_ratio           | String | Duplication Rate                       |
| non_hfile_code_duplication_total | String | Number of duplicate source file codes. |



| Parameter                        | Type   | Description                         |
|----------------------------------|--------|-------------------------------------|
| non_hfile_code_duplication_ratio | String | Source File Code Repetition Rate    |
| unsafe_functions_total           | String | Total Number of Dangerous Functions |
| unsafe_functions_kloc            | String | Density of Dangerous Functions      |
| redundant_code_total             | String | Number of redundant codes           |
| redundant_code_kloc              | String | Density of redundant code blocks    |
| warning_suppression_total        | String | Number of suppressed alarms         |
| warning_suppression_kloc         | String | Suppressed Alarm Density            |

**Status code: 400****Table 4-127** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-128** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/{project_id}/tasks/{task_id}/metrics-summary
```

## Example Responses

**Status code: 200**

## Request succeeded!

```
{
  "task_id": "435b58ecf7f54c45907c1384d01c94a6",
  "task_name": "CSharp_02201119",
  "creator_id": "ecadebb5041146cc96f9780f3d905e20",
  "git_url": "git@****_02201119.git",
  "git_branch": "master",
  "last_check_time": "2020-02-20 11:37:46",
  "last_exec_time": "2020-02-20 11:37:46",
  "check_type": "source",
  "created_at": "2020-02-20 11:21:11",
  "metric_info": {
    "code_size": "133426.00",
    "raw_lines": "182082.00",
    "methods_total": "6840.00",
    "cyclomatic_complexity_total": "27435.00",
    "cyclomatic_complexity_per_method": "7.43",
    "maximum_cyclomatic_complexity": "346.00",
    "huge_cyclomatic_complexity_total": "167.00",
    "huge_cyclomatic_complexity_ratio": "4.13",
    "cca_cyclomatic_complexity_total": "26693.00",
    "cca_cyclomatic_complexity_per_method": "7.25",
    "maximum_cca_cyclomatic_complexity": "342.00",
    "huge_cca_cyclomatic_complexity_total": "148.00",
    "cyclomatic_complexity_adequacy": "21.00",
    "maximum_depth": "333.00",
    "huge_depth_total": "8.85",
    "huge_depth_ratio": "91546.00",
    "method_lines": "24.91",
    "lines_per_method": "8.04",
    "huge_method_total": "12300",
    "huge_method_ratio": "12300",
    "files_total": "629.00",
    "folders_total": "426.00",
    "lines_per_file": "12300",
    "huge_headerfile_total": "12300",
    "huge_headerfile_ratio": "12300",
    "huge_non_headerfile_total": "12300",
    "huge_non_headerfile_ratio": "12300",
    "huge_folder_total": "12300",
    "huge_folder_ratio": "12300",
    "file_duplication_total": "12300",
    "file_duplication_ratio": "12300",
    "non_hfile_duplication_total": "12300",
    "non_hfile_duplication_ratio": "12300",
    "code_duplication_total": "3.28",
    "code_duplication_ratio": "11782.00",
    "non_hfile_code_duplication_total": "8.59",
    "non_hfile_code_duplication_ratio": "11782.00",
    "unsafe_functions_total": "17.17",
    "unsafe_functions_kloc": "0.00",
    "redundant_code_total": "0.00",
    "redundant_code_kloc": "674.00",
    "warning_suppression_total": "17.00",
    "warning_suppression_kloc": "0.45"
  }
}
```

**Status code: 400**

## Bad Request

```
{
  "error_code": "CC.00000000",
  "error_msg": "The network is busy. Please try again later."
}
```

**Status code: 401**

### Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.2.3 Querying Defect Details

### Function

This API is used to query defect result details by check task ID in pagination mode.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/tasks/{task\_id}/defects-detail

**Table 4-129** Path Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| task_id   | Yes       | String | Task ID.    |

**Table 4-130** Query Parameters

| Parameter | Mandatory | Type    | Description                                                        |
|-----------|-----------|---------|--------------------------------------------------------------------|
| offset    | No        | Integer | Pagination index, offset<br>Minimum: <b>0</b><br>Default: <b>0</b> |

| 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.<br>Minimum: <b>1</b><br>Maximum: <b>100</b><br>Default: <b>10</b> |
| status_ids | No        | String  | Filter by Issue Status                                                                                                                                              |
| severity   | No        | String  | Indicates the severity. 0: critical; 1: major; 2: minor; 3: warning.                                                                                                |

## Request Parameters

**Table 4-131** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                     |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

**Status code: 200**

**Table 4-132** Response body parameters

| Parameter | Type                                          | Description    |
|-----------|-----------------------------------------------|----------------|
| defects   | Array of <a href="#">DefectInfoV2</a> objects | Defect Details |
| total     | Integer                                       | Total          |

**Table 4-133** DefectInfoV2

| Parameter           | Type                                              | Description                                                                            |
|---------------------|---------------------------------------------------|----------------------------------------------------------------------------------------|
| defect_id           | String                                            | ID of a defect.                                                                        |
| defect_checker_name | String                                            | Name of the check item corresponding to the defect                                     |
| defect_status       | String                                            | Defect status. The options are as follows: 0: resolved; 1: resolved; 2: ignored.       |
| rule_system_tags    | String                                            | Rule tag. Multiple tags are separated by commas (,).                                   |
| rule_id             | String                                            | Rule ID.                                                                               |
| rule_name           | String                                            | NATRuleName                                                                            |
| line_number         | String                                            | Line No. of the File Where the Defect Is Located                                       |
| defect_content      | String                                            | Defect Description                                                                     |
| defect_level        | String                                            | Defect level. The options are as follows: 0: critical; 1: major; 2: minor; 3: warning. |
| file_path           | String                                            | Defect File Path                                                                       |
| created_at          | String                                            | Creation Time                                                                          |
| issue_key           | String                                            | Unique ID of a question.                                                               |
| fragment            | Array of <a href="#">DefectFragmentV2</a> objects | Defect Code Snippet Details                                                            |
| events              | Array of <a href="#">DefectEvents</a> objects     | Call chain information                                                                 |

**Table 4-134** DefectFragmentV2

| Parameter    | Type    | Description              |
|--------------|---------|--------------------------|
| line_num     | String  | Line number              |
| line_content | String  | Content of the Code Line |
| start_offset | Integer | Defect Start Column No.  |
| end_offset   | Integer | Defect End Column No.    |

**Table 4-135** DefectEvents

| Parameter               | Type                                          | Description                                  |
|-------------------------|-----------------------------------------------|----------------------------------------------|
| events                  | Array of <a href="#">DefectEvents</a> objects | Call chain information                       |
| description             | String                                        | Description                                  |
| fix_suggestions         | Array of strings                              | Solution                                     |
| line                    | Integer                                       | Line that has a defect                       |
| end_line                | Integer                                       | Line where a defect ends                     |
| code_context_start_line | Integer                                       | Line where a defect starts                   |
| main                    | Boolean                                       | Code snippet                                 |
| path                    | String                                        | Path                                         |
| tag                     | String                                        | Tag                                          |
| main_buggy_code         | String                                        | Code snippet corresponding to the main event |
| code_context            | String                                        | Code Context                                 |

**Status code: 400****Table 4-136** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-137** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/tasks/2b31ed520xxxxxxebdb6e57xxxxxxx/defects-summary
```

## Example Responses

**Status code: 200**

Request succeeded!

```
{
  "defects": [ {
    "line_number": "81",
    "defect_id": "5b71a4594bcb4a69a33f576c3564e6cc",
    "rule_system_tags": "fossscan",
    "rule_id": "111",
    "rule_name": "FossScan.1 OpenSource Software",
    "defect_checker_name": "Disallow fallthrough of `case` statements",
    "defect_status": "0",
    "defect_content": "Update or refactor this function so that its implementation doesn't duplicate the one on line 60.",
    "defect_level": "1",
    "file_path": "code/types/functions.ts",
    "created_at": "2020-07-21T02:12:01Z",
    "issue_key": "AA76E96XXXXXXXXXXXXXXXXXXCAAE5",
    "fragment": [ {
      "line_num": "78",
      "line_content": "  export function padding(all: number);",
      "start_offset": -1,
      "end_offset": -1
    }, {
      "line_num": "79",
      "line_content": "  export function padding(topAndBottom: number, leftAndRight: number);",
      "start_offset": -1,
      "end_offset": -1
    }, {
      "line_num": "80",
      "line_content": "  export function padding(top: number, right: number, bottom: number, left: number);",
      "start_offset": -1,
      "end_offset": -1
    }, {
      "line_num": "81",
      "line_content": "  export function padding(a: number, b?: number, c?: number, d?: number) {}",
      "start_offset": 11,
      "end_offset": 19
    }, {
      "line_num": "82",
      "line_content": "    if (b === undefined && c === undefined && d === undefined) {}",
      "start_offset": -1,
      "end_offset": -1
    }
  ]
}, {
  "line_number": "190",
  "defect_id": "5b71a4594wtrfsgrew546t466c3564e6cc",
  "rule_system_tags": "fossscan",
  "rule_id": "112",
  "rule_name": "FossScan.1 OpenSource Software",
  "defect_checker_name": "Disallow fallthrough of `case` statements",
  "defect_status": "0",
  "defect_content": "Update or refactor this function so that its implementation doesn't duplicate the one on line 173.",
  "defect_level": "1",
  "file_path": "code/types/types.ts",
  "created_at": "2020-07-21T02:12:01Z",
  "issue_key": "AA76E96XXXXXXXXXXXXXXXXXXFE3B6",
  "fragment": [ {
    "line_num": "187",
    "line_content": "  var _value;",
```

```
"start_offset" : -1,
"end_offset" : -1
}, {
"line_num" : "188",
"line_content" : "    function getOrSet(): number;",
"start_offset" : -1,
"end_offset" : -1
}, {
"line_num" : "189",
"line_content" : "    function getOrSet(value: number);",
"start_offset" : -1,
"end_offset" : -1
}, {
"line_num" : "190",
"line_content" : "    \\" function getOrSet(value?: number) {\\"",
"start_offset" : 4,
"end_offset" : 12
}, {
"line_num" : "191",
"line_content" : "    \\"    if (value === undefined) {\\"",
"start_offset" : -1,
"end_offset" : -1
}
}
}],
"total" : 2
}
```

**Status code: 400**

## Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

## Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

**Status Codes**

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

**Error Codes**

See [Error Codes](#).



## 4.2.4 Querying Defect Details Statistics

### Function

This interface is used to query defect details based on the check task ID.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/tasks/{task\_id}/defects-statistic

**Table 4-138** Path Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| task_id   | Yes       | String | Task ID     |

### Request Parameters

**Table 4-139** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                              |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: 1<br>Maximum: <b>100000</b> |

### Response Parameters

Status code: 200

**Table 4-140** Response body parameters

| Parameter | Type                                       | Description              |
|-----------|--------------------------------------------|--------------------------|
| severity  | <a href="#">StatisticSeverityV2</a> object | Problem Level Statistics |
| status    | <a href="#">StatisticStatusV2</a> object   | Issue Status Statistics  |

**Table 4-141** StatisticSeverityV2

| Parameter  | Type    | Description |
|------------|---------|-------------|
| critical   | Integer | Critical    |
| major      | Integer | Major       |
| minor      | Integer | Minor       |
| suggestion | Integer | Suggestion  |

**Table 4-142** StatisticStatusV2

| Parameter  | Type    | Description |
|------------|---------|-------------|
| unresolved | Integer | Unsolved    |
| resolved   | Integer | Solved      |
| dismissed  | Integer | Ignored     |

**Status code: 400****Table 4-143** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-144** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/tasks/2b31ed520xxxxxxeb6e57xxxxxxx/defects-statistic
```

## Example Responses

**Status code: 200**

Request succeeded!

```
{
  "severity": {
    "critical": 120,
    "major": 877,
    "minor": 79,
    "suggestion": 3
  },
  "status": {
    "unresolved": 877,
    "resolved": 79,
    "dismissed": 5
  }
}
```

**Status code: 400**

Bad Request

```
{
  "error_code": "CC.00000000",
  "error_msg": "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

```
{
  "error_code": "CC.00000003",
  "error_msg": "The authentication information has expired."
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.2.5 Modify Defect Status

### Function

Change the status of detected defects to Resolved or Ignored.

### Calling Method

For details, see [Calling APIs](#).

## URI

PUT /v2/tasks/{task\_id}/defect-status

**Table 4-145** Path Parameters

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| task_id   | Yes       | String | Task ID     |

## Request Parameters

**Table 4-146** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br><br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |
| Content-Type | Yes       | String | Media type and encoding format.                                                                                                                                     |

**Table 4-147** Request body parameters

| Parameter     | Mandatory | Type   | Description                                                                   |
|---------------|-----------|--------|-------------------------------------------------------------------------------|
| defect_id     | Yes       | String | Question ID. Use commas (,) to separate multiple question IDs.                |
| defect_status | Yes       | String | Status. The options are as follows: 2: ignored; 1: resolved; 0: not resolved. |

## Response Parameters

**Status code: 400**

**Table 4-148** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |

| Parameter | Type   | Description |
|-----------|--------|-------------|
| error_msg | String | Description |

**Status code: 401**

**Table 4-149** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

Change the defect status. The defect status ID is displayed based on the site requirements, and the defect status is changed to 1.

```
PUT https://{endpoint}/v2/tasks/{taskid}/defect-status
```

```
{
  "defect_id" : "363540xxxxxxxx5105099944xxxxxxxx",
  "defect_status" : "1"
}
```

## Example Responses

**Status code: 200**

Request succeeded!

```
null
```

**Status code: 400**

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## SDK Sample Code

The SDK sample code is as follows.

## Java

Change the defect status. The defect status ID is displayed based on the site requirements, and the defect status is changed to 1.

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

public class UpdateDefectStatusSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateDefectStatusRequest request = new UpdateDefectStatusRequest();
        UpdateDefectRequestBody body = new UpdateDefectRequestBody();
        body.withDefectStatus("1");
        body.withDefectId("363540xxxxxxx5105099944xxxxxxx");
        request.withBody(body);
        try {
            UpdateDefectStatusResponse response = client.updateDefectStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

Change the defect status. The defect status ID is displayed based on the site requirements, and the defect status is changed to 1.

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = CodeCheckClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = UpdateDefectStatusRequest()
        request.body = UpdateDefectRequestBody(
            defect_status="1",
            defect_id="363540xxxxxxxx5105099944xxxxxxxx"
        )
        response = client.update_defect_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

Change the defect status. The defect status ID is displayed based on the site requirements, and the defect status is changed to 1.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateDefectStatusRequest{
        defectStatusUpdateDefectRequestBody: "1"
    }
```

```
defectIdUpdateDefectRequestBody:= "363540xxxxxxx5105099944xxxxxxx"
request.Body = &model.UpdateDefectRequestBody{
    DefectStatus: &defectStatusUpdateDefectRequestBody,
    DefectId: &defectIdUpdateDefectRequestBody,
}
response, err := client.UpdateDefectStatus(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

# 4.3 Rule Management

## 4.3.1 Interface for Obtaining the Rule List

### Function

This API queries the rule list based on conditions such as the language and problem level.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/rules



**Table 4-150** Query Parameters

| Parameter      | Mandatory | Type    | Description                                                                                                   |
|----------------|-----------|---------|---------------------------------------------------------------------------------------------------------------|
| rule_languages | No        | String  | Language corresponding to the rule.                                                                           |
| rule_severity  | No        | String  | Defect level. The options are as follows: 0: critical; 1: major; 2: minor; 3: warning.                        |
| offset         | No        | Integer | Pagination index, offset<br>Minimum: <b>0</b><br>Default: <b>0</b>                                            |
| limit          | No        | Integer | Number of records displayed on each page.<br>Minimum: <b>1</b><br>Maximum: <b>1000</b><br>Default: <b>100</b> |

## Request Parameters

**Table 4-151** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                    |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

Status code: 200

**Table 4-152** Response body parameters

| Parameter | Type                                          | Description           |
|-----------|-----------------------------------------------|-----------------------|
| info      | Array of <a href="#">RuleListItem</a> objects | Parameter description |
| total     | Integer                                       | Total                 |

**Table 4-153** RuleListItem

| Parameter      | Type   | Description                           |
|----------------|--------|---------------------------------------|
| rule_set       | String | Rule Set Specification Classification |
| rule_id        | String | Rule ID.                              |
| rule_language  | String | Rule Language                         |
| rule_name      | String | Rule Name                             |
| rule_severity  | String | Rule Problem Severity                 |
| rule_tags      | String | Rule Tag                              |
| right_example  | String | Correct Example                       |
| error_example  | String | Negative example                      |
| revise_opinion | String | Resolution suggestions                |
| rule_desc      | String | Description                           |

**Status code: 400****Table 4-154** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-155** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

GET https://{endpoint}/v2/rules

## Example Responses

**Status code: 200**

Request succeeded!

```

{
  "info" : [ {
    "rule_id" : "2561",
    "rule_language" : "Java",
    "rule_name" : "\"\"=\"+\" cannot be replaced by \"+=\".",
    "rule_severity" : "1",
    "rule_tags" : "bug",
    "rule_desc" : "<p> uses the constant operator (<code>===</code>) to compare different types. The result
is always <code>>false</code>. </p>",
    "right_example" : "<pre>\nvar a = 8;\nvar b = \"8\";\n\nif (a == b) {\n // ...\n}\n</pre>\n<p>or</p>
\n<pre>\nvar a = 8;\nvar b = \"8\";\n\nif (a === Number(b)) {\n // ...\n}\n</pre>",
    "error_example" : "<pre>\nvar a = 8;\nvar b = \"8\";\n\nif (a === b) { //The comparison result is always
false.\n // ...\n}\n</pre>",
    "revise_opinion" : "None",
    "rule_set" : "HuaWeiJava"
  }, {
    "rule_id" : "8048",
    "rule_language" : "Java",
    "rule_name" : "\"Arrays.stream\" should be used for primitive arrays",
    "rule_severity" : "1",
    "rule_tags" : "performance",
    "rule_desc" : "<p> uses the constant operator (<code>===</code>) to compare different types. The result
is always <code>>false</code>. </p>",
    "right_example" : "<pre>\nvar a = 8;\nvar b = \"8\";\n\nif (a == b) {\n // ...\n}\n</pre>\n<p>or</p>
\n<pre>\nvar a = 8;\nvar b = \"8\";\n\nif (a === Number(b)) {\n // ...\n}\n</pre>",
    "error_example" : "<pre>\nvar a = 8;\nvar b = \"8\";\n\nif (a === b) { //The comparison result is always
false.\n // ...\n}\n</pre>",
    "revise_opinion" : "None",
    "rule_set" : "HuaWeiJava"
  } ],
  "total" : 2
}

```

**Status code: 400**

## Bad Request

```

{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}

```

**Status code: 401**

## Unauthorized

```

{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}

```

**Status Codes**

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.3.2 Creating a User-Defined Rule Set

### Function

Rules can be flexibly combined as required.

### Calling Method

For details, see [Calling APIs](#).

### URI

POST /v2/ruleset

### Request Parameters

**Table 4-156** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                    |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Setting the Media Type and Encoding Format                                                                                                                                     |
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

**Table 4-157** Request body parameters

| Parameter     | Mandatory | Type   | Description                                                   |
|---------------|-----------|--------|---------------------------------------------------------------|
| project_id    | Yes       | String | Project ID<br>Minimum: <b>1</b><br>Maximum: <b>50</b>         |
| template_name | Yes       | String | New Rule Set Name<br>Minimum: <b>1</b><br>Maximum: <b>500</b> |

| Parameter         | Mandatory | Type                                     | Description                                                                                                                                  |
|-------------------|-----------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| language          | Yes       | String                                   | Rule Set Language<br>Minimum: <b>1</b><br>Maximum: <b>128</b>                                                                                |
| is_default        | Yes       | String                                   | If there is a rule set based on, the value is 1. If there is no rule set based on, the value is 0.<br>Minimum: <b>1</b><br>Maximum: <b>1</b> |
| rule_ids          | Yes       | String                                   | ID of the newly enabled rule.<br>Minimum: <b>1</b><br>Maximum: <b>4000</b>                                                                   |
| uncheck_ids       | No        | String                                   | ID of the new closure rule.<br>Minimum: <b>1</b><br>Maximum: <b>4000</b>                                                                     |
| template_id       | No        | String                                   | Rule Set ID<br>Minimum: <b>1</b><br>Maximum: <b>50</b>                                                                                       |
| custom_attributes | No        | Array of <b>CustomAttributes</b> objects | Users can customize rule parameters and modify rule thresholds.                                                                              |

**Table 4-158** CustomAttributes

| Parameter | Mandatory | Type                                         | Description                                                                          |
|-----------|-----------|----------------------------------------------|--------------------------------------------------------------------------------------|
| attribute | No        | String                                       | Indicates the configuration item attribute. severity indicates the problem severity. |
| rules     | No        | Array of <b>CustomAttributesRule</b> objects | Rule Details                                                                         |

**Table 4-159** CustomAttributesRule

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| rule_id   | No        | String | Rule ID.    |

| Parameter        | Mandatory | Type                               | Description                                                                                       |
|------------------|-----------|------------------------------------|---------------------------------------------------------------------------------------------------|
| value            | No        | String                             | Attribute problem level. The options are as follows: 0: critical; 1: major; 2: minor; 3: warning. |
| rule_config_list | No        | Array of <b>RuleConfig</b> objects | Rule Threshold Details                                                                            |

**Table 4-160** RuleConfig

| Parameter     | Mandatory | Type    | Description                                 |
|---------------|-----------|---------|---------------------------------------------|
| id            | No        | Integer | Rule Configuration ID                       |
| rule_id       | No        | Integer | Rule ID.                                    |
| default_value | No        | String  | Default Value                               |
| option_value  | No        | String  | Before acceleration                         |
| option_key    | No        | String  | Key of the current rule configuration item. |
| option_name   | No        | String  | Name of the current rule configuration item |
| template_id   | No        | String  | Rule Set ID                                 |
| description   | No        | String  | Description                                 |

## Response Parameters

**Status code: 201**

**Table 4-161** Response body parameters

| Parameter   | Type   | Description |
|-------------|--------|-------------|
| template_id | String | Rule Set ID |

**Status code: 400**

**Table 4-162** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |

| Parameter | Type   | Description |
|-----------|--------|-------------|
| error_msg | String | Description |

**Status code: 401**

**Table 4-163** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

Create a user-defined rule set. The project ID and template ID corresponding to the rule set are displayed based on the site requirements. The template name is test\_cpp, and the language is cpp.

```
POST https://{endpoint}/v2/ruleset
{
  "project_id" : "24b97exxxxxxxxxfb912625b14cxxxxxx",
  "template_id" : "da303dxxxxxxxxaca60dbcc2e2xxxxxx",
  "template_name" : "test_cpp",
  "language" : "cpp",
  "is_default" : "1",
  "rule_ids" : "8139,8138",
  "uncheck_ids" : "1101,1102"
}
```

## Example Responses

**Status code: 201**

Request succeeded!

```
{
  "template_id" : "c53417a4804f45eba9c11991131c9e79"
}
```

**Status code: 400**

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

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

```
"error_msg" : "The authentication information has expired."  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Create a user-defined rule set. The project ID and template ID corresponding to the rule set are displayed based on the site requirements. The template name is `test_cpp`, and the language is `cpp`.

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;  
import com.huaweicloud.sdk.codecheck.v2.*;  
import com.huaweicloud.sdk.codecheck.v2.model.*;  
  
public class CreateRulesetSolution {  
    public static void main(String[] args) {  
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great  
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or  
        // environment variables and decrypted during use to ensure security.  
        // In this example, AK and SK are stored in environment variables for authentication. Before running  
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
        String ak = System.getenv("CLOUD_SDK_AK");  
        String sk = System.getenv("CLOUD_SDK_SK");  
  
        ICredential auth = new BasicCredentials()  
            .withAk(ak)  
            .withSk(sk);  
  
        CodeCheckClient client = CodeCheckClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))  
            .build();  
        CreateRulesetRequest request = new CreateRulesetRequest();  
        Ruleset body = new Ruleset();  
        body.withTemplatelId("da303dxxxxxxxxaca60dbcc2e2xxxxxx");  
        body.withUncheckIds("1101,1102");  
        body.withRuleIds("8139,8138");  
        body.withIsDefault("1");  
        body.withLanguage("cpp");  
        body.withTemplateName("test_cpp");  
        body.withProjectId("24b97xxxxxxxxfb912625b14cxxxxxx");  
        request.withBody(body);  
        try {  
            CreateRulesetResponse response = client.createRuleset(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```



```
}  
}  
}
```

## Python

Create a user-defined rule set. The project ID and template ID corresponding to the rule set are displayed based on the site requirements. The template name is `test_cpp`, and the language is `cpp`.

```
# coding: utf-8  
  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodecheck.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = __import__('os').getenv("CLOUD_SDK_AK")  
    sk = __import__('os').getenv("CLOUD_SDK_SK")  
  
    credentials = BasicCredentials(ak, sk) \  
  
    client = CodeCheckClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = CreateRulesetRequest()  
        request.body = Ruleset(  
            template_id="da303dxxxxxxxxaca60dbcc2e2xxxxxx",  
            uncheck_ids="1101,1102",  
            rule_ids="8139,8138",  
            is_default="1",  
            language="cpp",  
            template_name="test_cpp",  
            project_id="24b97xxxxxxxxfb912625b14cxxxxxx"  
        )  
        response = client.create_ruleset(request)  
        print(response)  
    except exceptions.ClientRequestException as e:  
        print(e.status_code)  
        print(e.request_id)  
        print(e.error_code)  
        print(e.error_msg)
```

## Go

Create a user-defined rule set. The project ID and template ID corresponding to the rule set are displayed based on the site requirements. The template name is `test_cpp`, and the language is `cpp`.

```
package main  
  
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
```

```
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codecheck.NewCodeCheckClient(  
        codecheck.CodeCheckClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.CreateRulesetRequest{  
        templateIdRuleset:= "da303dxxxxxxxxaca60dbcc2e2xxxxxx"  
        uncheckIdsRuleset:= "1101,1102"  
        request.Body = &model.Ruleset{  
            TemplateId: &templateIdRuleset,  
            UncheckIds: &uncheckIdsRuleset,  
            RuleIds: "8139,8138",  
            IsDefault: "1",  
            Language: "cpp",  
            TemplateName: "test_cpp",  
            ProjectId: "24b97xxxxxxxxfb912625b14cxxxxxx",  
        }  
        response, err := client.CreateRuleset(request)  
        if err == nil {  
            fmt.Printf("%+v\n", response)  
        } else {  
            fmt.Println(err)  
        }  
    }  
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 201         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

## 4.3.3 Querying the Rule Set List

### Function

This API is used to query the rule set list based on conditions such as the project ID and language.

### Calling Method

For details, see [Calling APIs](#).

### URI

GET /v2/{project\_id}/rulesets

**Table 4-164** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |

**Table 4-165** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                               |
|-----------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| category  | No        | String  | Rule Set Type<br>'0' indicates that only the system rule set is queried. 1 indicates that only the user-defined rule set is queried. 2 indicates that only the user-defined rule sets are queried. '0,1,2' or 'Query all' |
| offset    | No        | Integer | Pagination index, offset<br>Minimum: <b>0</b><br>Default: <b>0</b>                                                                                                                                                        |
| limit     | No        | Integer | Number of records displayed on each page.<br>Minimum: <b>1</b><br>Maximum: <b>1000</b><br>Default: <b>100</b>                                                                                                             |

## Request Parameters

**Table 4-166** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                    |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

**Status code: 200****Table 4-167** Response body parameters

| Parameter | Type                                         | Description               |
|-----------|----------------------------------------------|---------------------------|
| info      | Array of <a href="#">RulesetItem</a> objects | Rule Set List Information |
| total     | Integer                                      | Total                     |

**Table 4-168** RulesetItem

| Parameter            | Type   | Description                                     |
|----------------------|--------|-------------------------------------------------|
| template_id          | String | Rule Set ID                                     |
| language             | String | Rule Set Language                               |
| template_name        | String | Rule Set                                        |
| creator_id           | String | Creator ID.                                     |
| creator_name         | String | Creator name                                    |
| template_create_time | String | Creator Time                                    |
| is_used              | String | Indicates the usage status. 1: in use; 0: idle. |
| rule_ids             | String | ID of a rule in a rule set.                     |

| Parameter                   | Type   | Description                                                                                           |
|-----------------------------|--------|-------------------------------------------------------------------------------------------------------|
| is_default                  | String | Indicates whether the default rule set of the language is used. 0: no; 1: yes                         |
| is_devcloud_project_default | String | Indicates whether the rule set is the default rule set of the language in the project. 0: no; 1: yes. |
| is_default_template         | String | Indicates whether the rule set is a system rule set. 0: no; 1: yes.                                   |

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

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

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

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
GET https://{endpoint}/v2/{project_id}/rulesets
```

## Example Responses

**Status code: 200**

Request succeeded!

```
{
  "info": [ {
    "template_id": "9698e0cb9d2441c3bd8cec5f8641696e",
    "language": "Java",
    "template_name": "test1111",
    "creator_id": "ae161856f2604229ae12056478a7919f",
    "creator_name": "Mr. Yang",
    "template_create_time": "2021-10-21T02:14:55Z",
    "is_used": "0",
    "rule_ids": "",
    "is_default": "0",
```

```
"is_default_template" : "1",
"is_devcloud_project_default" : "0"
}, {
  "template_id" : "9698e0cb9d2441c3bd8cec5f8641696e",
  "language" : "cpp",
  "template_name" : "test222",
  "creator_id" : "ae161856f2604229ae12056478a7919f",
  "creator_name" : "Mr. Yang",
  "template_create_time" : "2021-10-21T02:14:55Z",
  "is_used" : "1",
  "rule_ids" : "11152,11153,11154,11155",
  "is_default" : "0",
  "is_default_template" : "1",
  "is_devcloud_project_default" : "1"
}],
"total" : 2
}
```

**Status code: 400**

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

### 4.3.4 Viewing the Rule List of a Rule Set

#### Function

This API is used to query the rule list based on conditions such as the project ID and rule set ID.

## Calling Method

For details, see [Calling APIs](#).

## URI

GET /v2/{project\_id}/ruleset/{ruleset\_id}/rules

**Table 4-171** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| ruleset_id | Yes       | String | Rule Set ID |

**Table 4-172** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                   |
|-----------|-----------|---------|---------------------------------------------------------------------------------------------------------------|
| types     | Yes       | String  | Status<br>'1: query all; 2: enabled; 3: disabled'<br>Default: <b>1</b>                                        |
| languages | No        | String  | Rule Language                                                                                                 |
| tags      | No        | String  | Tag to which the rule belongs                                                                                 |
| offset    | No        | Integer | Pagination index, offset<br>Minimum: <b>0</b><br>Default: <b>0</b>                                            |
| limit     | No        | Integer | Number of records displayed on each page.<br>Minimum: <b>1</b><br>Maximum: <b>1000</b><br>Default: <b>100</b> |

## Request Parameters

**Table 4-173** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                             |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: 1<br>Maximum: <b>100000</b> |

## Response Parameters

Status code: 200

**Table 4-174** Response body parameters

| Parameter | Type                                      | Description              |
|-----------|-------------------------------------------|--------------------------|
| info      | Array of <a href="#">RuleItem</a> objects | Rule list of a rule set. |
| total     | Integer                                   | Total                    |

**Table 4-175** RuleItem

| Parameter        | Type                                        | Description                                                       |
|------------------|---------------------------------------------|-------------------------------------------------------------------|
| rule_id          | String                                      | Rule ID                                                           |
| rule_language    | String                                      | Rule Language                                                     |
| rule_name        | String                                      | Rule Name                                                         |
| rule_severity    | String                                      | Rule Problem Severity                                             |
| tags             | String                                      | Rule Tag                                                          |
| checked          | String                                      | Rule status. The options are as follows: 0: disabled; 1: enabled. |
| rule_config_list | Array of <a href="#">RuleConfig</a> objects | Threshold information about rule configuration parameters         |



**Table 4-176** RuleConfig

| Parameter     | Type    | Description                                 |
|---------------|---------|---------------------------------------------|
| id            | Integer | Rule Configuration ID                       |
| rule_id       | Integer | Rule ID.                                    |
| default_value | String  | Default Value                               |
| option_value  | String  | Before acceleration                         |
| option_key    | String  | Key of the current rule configuration item. |
| option_name   | String  | Name of the current rule configuration item |
| template_id   | String  | Rule Set ID                                 |
| description   | String  | Description                                 |

**Status code: 400****Table 4-177** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-178** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

GET https://{endpoint}/v2/{project\_id}/ruleset/{ruleset\_id}/rules

## Example Responses

**Status code: 200**

Request succeeded!

```
{  
  "info" : [ {  
    "rule_language" : "cpp",
```

```
"rule_id" : "1614",
"checked" : "1",
"rule_name" : "A buffer must have size of 2 integers if used as parameter of pipe().",
"rule_severity" : "1",
"tags" : "cwe",
"rule_config_list" : [ ]
}, {
"rule_language" : "cpp",
"rule_id" : "1611",
"checked" : "1",
"rule_name" : "A buffer must have size of 2 integers if used as parameter of pipe().",
"rule_severity" : "1",
"tags" : "cwe",
"rule_config_list" : [ {
  "id" : 250,
  "rule_id" : 11707,
  "template_id" : "906e7eac47dd4bde9c984f5e6f2a54e8",
  "option_key" : "threshold",
  "option_name" : "Adding a Threshold",
  "option_value" : "10",
  "default_value" : "20",
  "description" : "If the code complexity exceeds the threshold, the code is identified as an ultra-large cyclomatic complexity. The difference between the cyclomatic complexity statistics and the cyclomatic complexity statistics is that only the number of switches is counted, and the case and default values are not counted. This parameter is mandatory."
}, {
  "id" : 251,
  "rule_id" : 11707,
  "template_id" : "906e7eac47dd4bde9c984f5e6f2a54e8",
  "option_key" : "threshold_modify",
  "option_name" : "Modifying a threshold",
  "option_value" : "30",
  "default_value" : "20",
  "description" : "If the code complexity exceeds the threshold, the code is identified as ultra-large cyclomatic complexity. The difference between the cyclomatic complexity statistics and cyclomatic complexity statistics is that only the number of switches is counted, and the case and default values are not counted. The modified threshold must be greater than the new threshold. This parameter is optional."
}
]
}, {
"total" : 2
}
```

**Status code: 400**

## Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

## Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

**Status Codes**

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |

| Status Code | Description  |
|-------------|--------------|
| 400         | Bad Request  |
| 401         | Unauthorized |

## Error Codes

See [Error Codes](#).

## 4.3.5 Deleting a User-Defined Rule Set

### Function

This interface is used to delete a user-defined rule set. The rule set in use or the default rule set cannot be deleted.

### Calling Method

For details, see [Calling APIs](#).

### URI

DELETE /v2/{project\_id}/ruleset/{ruleset\_id}

**Table 4-179** Path Parameters

| Parameter  | Mandatory | Type   | Description |
|------------|-----------|--------|-------------|
| project_id | Yes       | String | Project ID  |
| ruleset_id | Yes       | String | Rule Set ID |

### Request Parameters

**Table 4-180** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                  |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | Specifies the user token.<br>It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

**Status code: 400**

**Table 4-181** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401**

**Table 4-182** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
DELETE https://{endpoint}/v2/{project_id}/ruleset/{ruleset_id}
```

## Example Responses

**Status code: 200**

Request succeeded!

```
null
```

**Status code: 400**

Bad Request

```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## SDK Sample Code

The SDK sample code is as follows.

## Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

public class DeleteRulesetSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteRulesetRequest request = new DeleteRulesetRequest();
        try {
            DeleteRulesetResponse response = client.deleteRuleset(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")
```

```
credentials = BasicCredentials(ak, sk) \

client = CodeCheckClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
    .build()

try:
    request = DeleteRulesetRequest()
    response = client.delete_ruleset(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteRulesetRequest{}
    response, err := client.DeleteRuleset(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

### 4.3.6 Set the default rule set configuration for the language corresponding to each project.

#### Function

Set the default rule set configuration for the language corresponding to each project.

#### Calling Method

For details, see [Calling APIs](#).

#### URI

POST /v2/{project\_id}/ruleset/{ruleset\_id}/{language}/default

**Table 4-183** Path Parameters

| Parameter  | Mandatory | Type   | Description       |
|------------|-----------|--------|-------------------|
| project_id | Yes       | String | Project ID        |
| ruleset_id | Yes       | String | Rule Set ID       |
| language   | Yes       | String | Rule Set Language |

## Request Parameters

**Table 4-184** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                         |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | It can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token.<br><br>Minimum: <b>1</b><br>Maximum: <b>100000</b> |

## Response Parameters

**Status code: 400****Table 4-185** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

**Status code: 401****Table 4-186** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error Codes |
| error_msg  | String | Description |

## Example Requests

```
POST https://{endpoint}/v2/{project_id}/{language}/ruleset/{ruleset_id}/default
```

## Example Responses

**Status code: 200**

Request succeeded!

null

**Status code: 400**

Bad Request



```
{
  "error_code" : "CC.00000000",
  "error_msg" : "The network is busy. Please try again later."
}
```

**Status code: 401**

## Unauthorized

```
{
  "error_code" : "CC.00000003",
  "error_msg" : "The authentication information has expired."
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codecheck.v2.region.CodeCheckRegion;
import com.huaweicloud.sdk.codecheck.v2.*;
import com.huaweicloud.sdk.codecheck.v2.model.*;

public class SetDefaultTemplateSolution {

    public static void main(String[] args) {
        // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great
        // security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or
        // environment variables and decrypted during use to ensure security.
        // In this example, AK and SK are stored in environment variables for authentication. Before running
        // this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
        String ak = System.getenv("CLOUD_SDK_AK");
        String sk = System.getenv("CLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);

        CodeCheckClient client = CodeCheckClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeCheckRegion.valueOf("<YOUR REGION>"))
            .build();
        SetDefaultTemplateRequest request = new SetDefaultTemplateRequest();
        try {
            SetDefaultTemplateResponse response = client.setDefaultTemplate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodecheck.v2.region.codecheck_region import CodeCheckRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodecheck.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    # variables and decrypted during use to ensure security.
    # In this example, AK and SK are stored in environment variables for authentication. Before running this
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak = __import__('os').getenv("CLOUD_SDK_AK")
    sk = __import__('os').getenv("CLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = CodeCheckClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeCheckRegion.value_of("<YOUR REGION>")) \
        .build()

    try:
        request = SetDefaultTemplateRequest()
        response = client.set_default_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    codecheck "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codecheck/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
    // variables and decrypted during use to ensure security.
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
    ak := os.Getenv("CLOUD_SDK_AK")
    sk := os.Getenv("CLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := codecheck.NewCodeCheckClient(
        codecheck.CodeCheckClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.SetDefaultTemplateRequest{}
    response, err := client.SetDefaultTemplate(request)
```

```
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## More

For SDK sample code of more programming languages, see the Sample Code tab in [API Explorer](#). SDK sample code can be automatically generated.

## Status Codes

| Status Code | Description        |
|-------------|--------------------|
| 200         | Request succeeded! |
| 400         | Bad Request        |
| 401         | Unauthorized       |

## Error Codes

See [Error Codes](#).

# 5 Application Examples

[5.1 Example 1: Querying the Task List](#)

[5.2 Example 2: Querying the Defect Summary](#)

## 5.1 Example 1: Querying the Task List

### Scenario

Query the task list of a project based on `DEVCLLOUD_PROJECT_UUID`.

### Constraints

None

### Involved API

The following API is involved:

Querying the Task List: queries the task list based on `DEVCLLOUD_PROJECT_UUID`.

### Procedure

Query the task list.

- API information

URI format: **GET** `/v2/{project_id}/tasks`

- Request example

GET `https://{endpoint}/v2/2b31ed520xxxxxxeb6e57xxxxxx/tasks`

Obtain the information from [1.3 Endpoints](#).

- Example response

```
{
  "result": [
    {
      "projectId": "b9db371361724226937f3280df1d4fc4",
      "devCloudProjectId": "a2b9a42ee6494e0794f5655f8535920e",
      "devCloudProjectName": "TestDemo",
      "codeHubName": "portal-ts",
```

```
"codeHubWebUrl":"https://xxxx/portal-ts",
"codeLineTotal":"63371",
"projectName":"portal-ts-abctest111222",
"creatorId":"ae161856f2604229ae12056478a7919f",
"creatorName":"devcloud_devcloud_y00336947_01",
"domainId":"78d0e09c1ad0425b9b4f3a8fdd066164",
"domainName":"devcloud_devcloud_y00336947_01",
"gitUrl":"git@xxxx/portal-ts.git",
"branch":"master",
"language":["
\"html\"
],
"filePath":["
\"\"
],
"lastCheckTime\":"2019-09-24 15:00:41",
"codeQuality":"141.7",
"codeLine":"55777",
"projectStatus":"2",
"riskCoefficient":"7905",
"starLevel":"0",
"defectInfo":{"
"totalCount":"0",
"criticalCount":"0",
"seriousCount":"0",
"normalCount":"0",
"promptCount":"0"
},
"defectStatusInfo":{"
"totalCount":"2952",
"newCount":"2952",
"ignoredCount":"0",
"fixedCount":"0"
},
"progress":{
},
"createdAt":"2019-08-08 17:56:40",
"duplications":"24.0%",
"complexityNum":"0",
"complexityAvg":"0",
"duplicatedLines":"15206",
"commentLines":"0",
"commentRatio":"0",
"duplicatedBlocks":"0",
"lastExecTime":"2 minutes 4 seconds",
"checkType":"source",
"dependenceType":"",
"logDatasStr":{
}
},
{
"projectId":"b9db371361724226937f3280df1d4fc4",
"devCloudProjectId":"a2b9a42ee6494e0794f5655f8535920e",
"devCloudProjectName":"TestDemo",
"codeHubName":"portal-ts",
"codeHubWebUrl":"https://xxxx/portal-ts",
"codeLineTotal":"63371",
"projectName":"portal-ts-abctest111222",
"creatorId":"ae161856f2604229ae12056478a7919f",
"creatorName":"devcloud_devcloud_y00336947_01",
"domainId":"78d0e09c1ad0425b9b4f3a8fdd066164",
"domainName":"devcloud_devcloud_y00336947_01",
"gitUrl":"git@xxxx/portal-ts.git",
"branch":"master",
"language":["
\"html\"
],

```

```
"filePath":["
  "\
"],
"lastCheckTime\":"2019-09-24 15:00:41",
"codeQuality":"141.7",
"codeLine":"55777",
"projectStatus":"2",
"riskCoefficient":"7905",
"starLevel":"0",
"defectInfo":{
  "totalCount":"0",
  "criticalCount":"0",
  "seriousCount":"0",
  "normalCount":"0",
  "promptCount":"0"
},
"defectStatusInfo":{
  "totalCount":"2952",
  "newCount":"2952",
  "ignoredCount":"0",
  "fixedCount":"0"
},
"progress":{
}
},
"createdAt":"2019-08-08 17:56:40",
"duplications":"24.0%",
"complexityNum":"0",
"complexityAvg":"0",
"duplicatedLines":"15206",
"commentLines":"0",
"commentRatio":"0",
"duplicatedBlocks":"0",
"lastExecTime":"2 minutes 4 seconds",
"checkType":"source",
"dependenceType":"",
"logDatasStr":{
}
}
],
"status":"success"
}
```

## 5.2 Example 2: Querying the Defect Summary

### Scenario

Query the defect summary based on the check task ID, including the issue overview, issue status, cyclomatic complexity, and code repetition rate.

### Constraints

The task exists.

### Involved API

The following API is involved:

Querying the Defect Summary: queries the defect summary, including the issue overview, issue status, cyclomatic complexity, and code repetition rate.

## Procedure

- API information  
URI format: **GET /v2/tasks/{task\_id}/defects-summary**
- Request example  
GET https://{endpoint}/v2/tasks/2b31ed520xxxxxebedb6e57xxxxxxx/defects-summary  
Obtain the information from **1.3 Endpoints**.

- Example response

```
{
  "result":{
    "info":{
      "projectId":"b9db371361724226937f3280df1d4fc4",
      "devCloudProjectId":"a2b9a42ee6494e0794f5655f8535920e",
      "devCloudProjectName":"TestDemo",
      "codeHubName":"portal-ts",
      "codeHubWebUrl":"https://xxxxx/portal-ts",
      "codeLineTotal":"63371",
      "projectName":"portal-ts-abctest111222",
      "creatorId":"ae161856f2604229ae12056478a7919f",
      "creatorName":"devcloud_devcloud_y00336947_01",
      "domainId":"78d0e09c1ad0425b9b4f3a8fdd066164",
      "domainName":"devcloud_devcloud_y00336947_01",
      "gitUrl":"git@xxxxx/portal-ts.git",
      "branch":"master",
      "language":["
        \"html\"
      ],
      "filePath":["
        \"\"
      ],
      "lastCheckTime\":"2019-09-24 15:00:41",
      "codeQuality":"141.7",
      "codeLine":"55777",
      "projectStatus":"2",
      "riskCoefficient":"790",
      "starLevel":"0",
      "defectInfo":{
        "totalCount":"0",
        "criticalCount":"0",
        "seriousCount":"0",
        "normalCount":"0",
        "promptCount":"0"
      },
      "defectStatusInfo":{
        "totalCount":"2952",
        "newCount":"2952",
        "ignoredCount":"0",
        "fixedCount":"0"
      },
      "progress":{
      },
      "createdAt":"2019-08-08 17:56:40",
      "duplications":"24.0%",
      "complexityNum":"0",
      "complexityAvg":"0",
      "duplicatedLines":"15206",
      "commentLines":"0",
      "commentRatio":"0",
      "duplicatedBlocks":"0",
      "lastExecTime":"2 minutes 4 seconds",
      "checkType":"source",
      "dependenceType":"",
      "logDatasStr":{
      }
    }
  }
}
```

```
}  
},  
"status": "success"  
}
```



# 6 Appendixes

[6.1 Status Codes](#)

[6.2 Error Codes](#)

[6.3 Obtaining a Project ID](#)

[6.4 Obtaining an Account ID](#)

## 6.1 Status Codes

**Table 6-1** describes status codes.

**Table 6-1** Status codes

| Status Code | Message                       | Description                                                                                                                                              |
|-------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100         | Continue                      | Continue sending requests.<br>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.<br>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.                                                                                                     |

| Status Code | Message           | Description                                                                                                                                                                        |
|-------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <b>OPTIONS</b> request. |
| 205         | Reset Content     | The server has successfully processed the request after resetting the content.                                                                                                     |
| 206         | Partial Content   | The server has successfully processed a part of the <b>GET</b> 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         | Retrieve another URL, using a <b>GET</b> or <b>POST</b> 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.<br>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.                                                                          |

| Status Code | Message                         | Description                                                                                                                                                                                                                                                                                          |
|-------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                                                                                                         |
| 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.<br>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 <b>Content-Length</b> 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 <b>Retry-After</b> 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 <b>Expect</b> request header field.                                                                                                                                                                                                                 |

| Status Code | Message                    | Description                                                                                                                                                                                                                                                                        |
|-------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 422         | UnprocessableEntity        | The request is well-formed but is unable to respond due to semantic errors.                                                                                                                                                                                                        |
| 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 <b>Retry-After</b> 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                                         |
|-------------|-------------|---------------------------------------|----------------------------------------------------------|--------------------------------------------------|
| 200         | CC.00050000 | parameters not valid                  | Invalid parameters.                                      | Check the parameter formats.                     |
| 200         | CC.00050001 | query task list error                 | Querying the task list throws an error.                  | Contact customer service.                        |
| 200         | CC.00050002 | query task detail error               | Querying task details throws an error.                   | Contact customer service.                        |
| 200         | CC.00050003 | query templates error                 | Viewing the task configuration template throws an error. | Contact customer service.                        |
| 200         | CC.00050004 | query task history error              | Querying the task history throws an error.               | Contact customer service.                        |
| 200         | CC.00050005 | create task error                     | Creating a task throws an error.                         | Contact customer service.                        |
| 200         | CC.00050006 | service inner error                   | Internal service error.                                  | Contact customer service.                        |
| 200         | CC.00050007 | IAM authentication failed             | IAM authentication failed.                               | Check whether the authentication token is valid. |
| 200         | CC.00050010 | current user does not have permission | Insufficient permission.                                 | Check the permission.                            |

| Status Code | Error Code  | Error Message                                                                                                                   | Description                                                                                                      | Solution                                                  |
|-------------|-------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 200         | CC.00050011 | not in any project                                                                                                              | The current user is not a member of any project of the tenant.                                                   | Join the project.                                         |
| 200         | CC.00050012 | retry later                                                                                                                     | The network is busy.                                                                                             | Try again later or contact customer service.              |
| 200         | CC.00050013 | project not exist                                                                                                               | The project does not exist or has been deleted.                                                                  | Modify project-related parameters.                        |
| 200         | CC.00050014 | call getTaskBasicInfo failed                                                                                                    | Failed to call the getTaskBasicInfo API.                                                                         | Try again later or contact customer service.              |
| 200         | CC.00050015 | task is running                                                                                                                 | The task is being executed. Try again later.                                                                     | Try again later.                                          |
| 200         | CC.00050016 | create task failed                                                                                                              | An error occurred when creating a task. Creation failed.                                                         | Check related parameters or contact customer service.     |
| 200         | CC.00050017 | call updateIssueStatus failed                                                                                                   | Ignore the warning in the latest scanning result.                                                                | Ignore the warning in the latest scanning result.         |
| 200         | CC.00050019 | operations that are not supported by domain of the earlier version                                                              | Operation not supported by tenants using earlier versions                                                        | Operation not supported by tenants using earlier versions |
| 200         | CC.00050020 | The current task has not been checked or has been checked successfully. Please check or try again after the check is successful | The current task has not been checked or checked successfully. Check or try again after the check is successful. | Check or try again after the check is successful.         |

## 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}](#)**. **{Endpoint}** indicates the endpoint of IAM, which can be obtained from [1.3 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"
  }
}
```

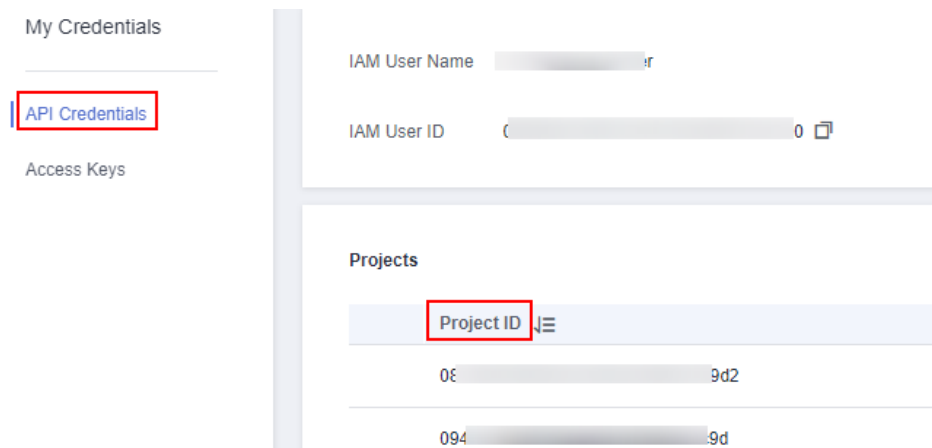
### Obtaining a Project ID from the Console

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.



# 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 second official release. It incorporates the following change:<br>Renamed CodeCheck to CodeArts Check. | 2022-04-23   |
| This issue is the first official release.                                                                                | 2022-09-30   |