

**CodeArts TestPlan**

# **API Reference**

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# 1 Before You Start

## Overview

CodeArts TestPlan is a one-stop cloud testing platform provided for software developers. It covers test management and API tests, and integrates the DevOps agile testing concepts, helping you improve management efficiency and deliver high-quality products. You can use APIs described in this document to perform operations, such as creating and deleting test cases. For details about all supported operations, see [API Overview](#).

Before calling a CodeArts TestPlan API, ensure that you have fully understood the concepts related to CodeArts TestPlan. For details, see [Service Overview](#).

## Calling Method

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

## Endpoints

An endpoint is the request address for calling an API. Endpoints vary with services and regions. For the endpoints of all services, see [Regions and Endpoints](#).

The following table lists the CodeArts TestPlan endpoints. Select a desired one based on the service requirements.

| Region Name     | Region         | Endpoint                                       |
|-----------------|----------------|--|
| LA-Mexico City2 | la-north-2     | cloudtest-ext.la-north-2.myhuaweicloud.com     |
| LA-Sao Paulo1   | sa-brazil-1    | cloudtest-ext.sa-brazil-1.myhuaweicloud.com    |
| AP-Singapore    | ap-southeast-3 | cloudtest-ext.ap-southeast-3.myhuaweicloud.com |

## Constraints

For details, see description of each API.

## Concepts

- Account

An account is created upon successful registration with the cloud platform. 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 users and grant them permissions for routine management.
- User

An Identity and Access Management (IAM) user is created by an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).

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

Regions are divided by geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region.

Regions are classified into universal regions 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, computing, networking, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.
- Project

A project is created by a user in CodeArts Req based on a template. It also contains preset work items, code, and resources. IAM users in a project are added to the project as team members. They are assigned with corresponding roles and granted with operation permissions.
- 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 [Enterprise Management User Guide](#).

# 2 API Overview

**Table 2-1** CodeArts TestPlan APIs

| Category                               | API   |
|--|---|
| API test suite management              | Generate an API test suite by importing files from a repository.  |
| Environment parameter group management | Obtain the environment parameter group list.  |
| Test plan management                   | Add test cases in batches to a plan<br>Create a plan in a project<br>Query the test plan list in a project<br>Query the requirement tree of a test plan<br>Query the operation history of a test plan<br>Query the test plan list in a project (V2) |

# 3 Calling APIs

## 3.1 Making an API Request

This section describes the structure of a REST API request, and demonstrates how to call an API, for example, the API used to [obtain an IAM user token](#). The obtained token can then be used to authenticate other API calls.

### Request URI

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

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

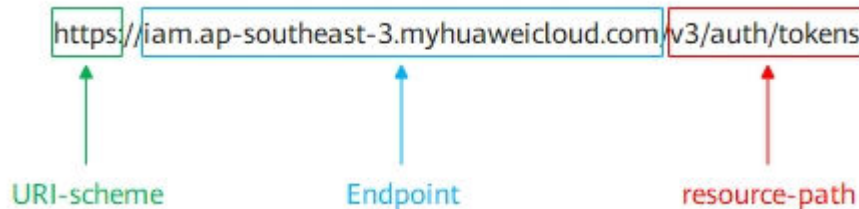
The following table describes the parameters.

| 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 <a href="#">Regions and Endpoints</a> .<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 | The resource path, that is, the API access path, 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> .   |
| query-string  | (Optional) Query a 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 region **AP-Singapore**, obtain the endpoint of this region (**iam.ap-southeast-3.myhuaweicloud.com**) and find the resource path (**/v3/auth/tokens**) in the URI 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. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

## Request Methods

HTTP defines the following request methods that can be used to send a request to the server. The details are as follows:

| Request Method | Description  |
|----------------|--|
| 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, for example, an object. |
| HEAD           | Same as GET except that the server must return only the response header.   |

For example, if the request method is **POST** in the URI for **obtaining a user token**, the request is as follows:

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

## Request Header

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

Common request header fields:

| Name         | Description                 | Mandatory | Remarks   |
|--------------|-----------------------------|-----------|---|
| Content-Type | Request body type or format | Yes       | The default value is <b>application/json</b> . Other values of this field will be provided for specific APIs if any.                        |
| X-Auth-Token | User token                  | No        | The user token is a response to the API used to <b>obtain a user token</b> . This API is the only one that does not require authentication. |
| X-Project-ID | Subproject ID               | No        | Used in multi-project scenarios.  |
| X-Domain-ID  | Account ID                  | -         | -   |

#### NOTE

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

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

The API used to obtain a user token does not require authentication. Therefore, only the **Content-Type** field needs to be added to request headers 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 generally sent in structured format. It corresponds to **Content-Type** in the request header and transfers content except the request header.

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

In the case of the API used to **obtain a user token**, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace *username*, *domainname* (account name), *\*\*\*\*\** (login password), and *xxxxxxx* (project ID) with the actual values. To learn how to obtain a project name, see [Obtaining a Project ID](#).

 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 more information 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": {
        "id": "xxxxxxxx"
      }
    }
  }
}
```

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

## 3.2 Authentication

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

- **Token authentication:** Requests are authenticated using Tokens.
- **AK/SK authentication:** Requests are encrypted using an AK/SK.

### Token-based Authentication

 NOTE

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

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

When calling the API to [obtain a user token](#), set **auth.scope** in the request body to **project**.

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

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFJ....** 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 authentication supports API requests with a body no larger than 12 MB. For API requests with a larger body, use token authentication.

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

- AK: access key ID. It is a unique ID associated with an SK. AK is used together with SK to sign requests.
- SK: secret access key used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see [AK/SK Signing and Authentication Guide](#).

---

### NOTICE

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

---

## 3.3 Response

### Status Code

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

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

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**.

The following figure shows the response header fields for the API used to [obtain a user token](#). The **x-subject-token** header field is the target user token. This token can then be used to authenticate the calling of 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
→ MlYXQYJKoZlHvcNAQcCoIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjwMTktMDItMTNUMD
fj3Kjs6YgKnpVNRbW2eZ5eb78SZOkajACgkqO1wi4JlGzrpd18LGXK5bdfq4lqHCYb8P4NaY0NYejcAgzVVeFYtLWT1GSO0zxKZmiQHQ82HBqHdgIZO9fuEbL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXI1jipPEGA270g1FruooL6jqglFKNPQuFSOU8+uSsttVwRtnfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUUpvGw-oPNFYxJECKnoH3HROzv0vN--n5d6Nbxg==
x-xss-protection → 1; mode=block;
```

### Response Body

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

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

```
{
  "token": {
```

```
"expires_at": "2019-02-13T06:52:13.855000Z",  
"methods": [  
  "password"  
],  
"catalog": [  
  {  
    "endpoints": [  
      {  
        "region_id": "xx-xxxxx-1",  
.....
```

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

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

In the response body, **error\_code** is an error code, and **error\_msg** provides information about the error.

# 4 APIs

---

## 4.1 API Test Suite Management

### 4.1.1 Generating an API Test Suite by Importing Files from a Repository

#### Function

This API is used to generate an API test suite by importing files from a repository.

#### Calling Method

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

#### URI

POST /v1/projects/{*project\_id*}/repository/testsuites

**Table 4-1** Path parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

## Request Parameters

**Table 4-2** Request header parameters

| Parameter    | Mandatory | Type   | Description  |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes       | String | <b>Definition</b><br>User token. It can be obtained by calling the corresponding <a href="#">IAM API</a> . The value of <b>X-Subject-Token</b> in the response header is the user token.<br><b>Constraints</b><br>1 to 100,000 characters.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

**Table 4-3** Request body parameters

| Parameter         | Mandatory | Type   | Description  |
|-------------------|-----------|--------|--|
| testsuite_name    | Yes       | String | <b>Definition</b><br>Name of the test suite to be generated.<br><b>Constraints</b><br>3 to 128 characters.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A.   |
| repository_id     | Yes       | String | <b>Definition</b><br>Repository ID.<br><b>Constraints</b><br>32 characters.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A.  |
| repository_branch | Yes       | String | <b>Definition</b><br>Repository branch.<br><b>Constraints</b><br>3 to 100 characters.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A.  |
| file_path         | Yes       | String | <b>Definition</b><br>Relative path of the YAML or JSON file in the repository. Only YAML and JSON files of Swagger 2.0 are supported.<br><b>Constraints</b><br>6 to 45 characters.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

## Response Parameters

**Status code: 201**

**Table 4-4** Response body parameters

| Parameter    | Type             | Description  |
|--------------|------------------|--|
| testsuite_id | String           | <b>Definition</b><br>ID of the generated test suite.<br><b>Range</b><br>A string of 32 characters. |
| testcase_ids | Array of strings | <b>Definition</b><br>URI list of generated test cases.<br><b>Range</b><br>N/A.                     |

**Status code: 400**

**Table 4-5** Response body parameters

| Parameter    | Type  | Description  |
|--------------|---|--|
| error_code   | String  | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>A string of 16 characters.          |
| error_detail | Array of <a href="#">CommonResponseDetail</a> objects | <b>Definition</b><br>Details about API calling failure. This field does not display for non-parameter verification failures.       |
| error_msg    | String  | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>A string of 3 to 100 characters. |

**Table 4-6** CommonResponseDetail

| Parameter     | Type   | Description   |
|---------------|--------|---|
| step_name     | String | <b>Definition</b><br>Name of the incorrect step.<br><b>Range</b><br>A string of 3 to 100 characters.          |
| testcase_name | String | <b>Definition</b><br>Case name.<br><b>Range</b><br>A string of 3 to 128 characters.                           |
| fail_content  | String | <b>Definition</b><br>The actual error content.<br><b>Range</b><br>A string of 3 to 128 characters.            |
| fail_keys     | String | <b>Definition</b><br>The keyword that contains the error.<br><b>Range</b><br>A string of 3 to 128 characters. |
| fail_source   | String | <b>Definition</b><br>The header name of the error part.<br><b>Range</b><br>A string of 3 to 100 characters.   |
| fail_type     | String | <b>Definition</b><br>Error type.<br><b>Range</b><br>A string of 3 to 100 characters.                          |
| stage         | String | <b>Definition</b><br>The stage that contains the error.<br><b>Range</b><br>A string of 2 to 50 characters.    |

**Status code: 401**

**Table 4-7** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

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

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 404****Table 4-9** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

| Parameter | Type   | Description  |
|-----------|--------|--|
| error_msg | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 500**

**Table 4-10** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

## Example Requests

```
post https://{endpoint}/v1/projects/75681cbb7c324e15a9eb8ee74a96a474/repository/testsuites
{
  "testsuite_name": "New test suite",
  "repository_id": "2213",
  "repository_branch": "master",
  "file_path": "/opt"
}
```

## Example Responses

**Status code: 201**

Created

```
{
  "testsuite_id": "v92u00010adqi1bl",
  "testcase_ids": [ "bb1d3f7a6ffc409dad173d90b0620d9f", "b24c3b86e8a7456bbb9a9b06cd91dc40" ]
}
```

## SDK Sample Code

The 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.cloudtest.v1.region.CloudtestRegion;
import com.huaweicloud.sdk.cloudtest.v1.*;
import com.huaweicloud.sdk.cloudtest.v1.model.*;

public class CreateApiTestSuiteByRepoFileSolution {

    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);

        CloudtestClient client = CloudtestClient.newBuilder()
            .withCredential(auth)
            .withRegion(CloudtestRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateApiTestSuiteByRepoFileRequest request = new CreateApiTestSuiteByRepoFileRequest();
        request.withProjectId("{project_id}");
        CreateTestSuiteByRepoFileInfo body = new CreateTestSuiteByRepoFileInfo();
        body.withFilePath("/opt");
        body.withRepositoryBranch("master");
        body.withRepositoryId("2213");
        body.withTestSuiteName("New test suite");
        request.withBody(body);
        try {
            CreateApiTestSuiteByRepoFileResponse response = client.createApiTestSuiteByRepoFile(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

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcloudtest.v1.region.cloudtest_region import CloudtestRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcloudtest.v1 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 = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = CreateApiTestSuiteByRepoFileRequest()
    request.project_id = "{project_id}"
    request.body = CreateTestSuitByRepoFileInfo(
        file_path="/opt",
        repository_branch="master",
        repository_id="2213",
        testsuite_name="New test suite"
    )
    response = client.create_api_test_suite_by_repo_file(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"
    cloudtest "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/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 := cloudtest.NewCloudtestClient(
        cloudtest.CloudtestClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateApiTestSuiteByRepoFileRequest{}
    request.ProjectId = "{project_id}"
    request.Body = &model.CreateTestSuitByRepoFileInfo{
        FilePath: "/opt",
        RepositoryBranch: "master",
```

```
RepositoryId: "2213",
  TestsuiteName: "New test suite",
}
response, err := client.CreateApiTestSuiteByRepoFile(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More SDK Sample Code

For SDK code examples in more programming languages, visit [API Explorer](#) and click the **Sample Code** tab.

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 201         | Created               |
| 400         | Bad request           |
| 401         | Unauthorized          |
| 403         | Forbidden             |
| 404         | Not found             |
| 500         | Internal server error |

## Error Codes

See [Error Codes](#).

# 4.2 Environment Parameter Group Management

## 4.2.1 Obtaining the Environment Parameter Group List

### Function

This API is used to obtain the environment parameter group list.

### Calling Method

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

### URI

GET /v1/projects/{project\_id}/environments

**Table 4-11** Path parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>A string of 32 characters.<br><b>Default Value</b><br>N/A. |

**Table 4-12** Query parameters

| Parameter | Mandatory | Type | Description   |
|-----------|-----------|------|---|
| offset    | Yes       | Long | <b>Definition</b><br>The position where the query starts.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>0-999<br><b>Default Value</b><br>N/A.    |
| limit     | Yes       | Long | <b>Definition</b><br>Number of items displayed on each page.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>1-200<br><b>Default Value</b><br>N/A. |

## Request Parameters

Table 4-13 Request header parameters

| Parameter    | Mandatory | Type   | Description  |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes       | String | <b>Definition</b><br>User token. It can be obtained by calling the corresponding <a href="#">IAM API</a> . The value of <b>X-Subject-Token</b> in the response header is the user token.<br><b>Constraints</b><br>1 to 100,000 characters.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

## Response Parameters

Status code: 200

Table 4-14 Response body parameters

| Parameter    | Type   | Description   |
|--------------|--|---|
| environments | Array of <a href="#">Environment</a> objects | <b>Definition</b><br>Environment groups.  |
| offset       | Long   | <b>Definition</b><br>The position where the query starts.<br><b>Range</b><br>0-999    |
| limit        | Long   | <b>Definition</b><br>Number of items displayed on each page.<br><b>Range</b><br>1-200 |
| total_count  | Long   | <b>Definition</b><br>Total number of environment groups.<br><b>Range</b><br>0-100     |

**Table 4-15** Environment

| Parameter               | Type    | Description  |
|-------------------------|---------|--|
| environment_id          | String  | <b>Definition</b><br>Environment group ID.<br><b>Range</b><br>A string of 32 characters.   |
| environment_name        | String  | <b>Definition</b><br>Environment group name.<br><b>Range</b><br>A string of 3 to 50 characters   |
| environment_description | String  | <b>Definition</b><br>Environment group description.<br><b>Range</b><br>A string of 0 to 300 characters.  |
| is_default              | Boolean | <b>Definition</b><br>Whether the environment is default.<br><b>Range</b><br><b>false</b> or <b>true</b> .<br><b>true</b> : default<br><b>false</b> : not default |

**Status code: 400****Table 4-16** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>A string of 12 to 16 characters     |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>A string of 3 to 100 characters. |

**Status code: 401**

**Table 4-17** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 403****Table 4-18** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 404****Table 4-19** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

| Parameter | Type   | Description  |
|-----------|--------|--|
| error_msg | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 500**

**Table 4-20** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

## Example Requests

```
get https://{endpoint}/v1/projects/75681cbb7c324e15a9eb8ee74a96a474/environments?offset=1&limit=10
```

## Example Responses

**Status code: 200**

Response body for obtaining the environment parameter group list

```
{
  "environments" : [ {
    "environment_id" : "ff4893796ee1a8aa009ff3a470de55d8",
    "environment_name" : "default environment",
    "environment_description" : "default environment",
    "is_default" : true
  } ],
  "offset" : 0,
  "limit" : 1,
  "total_count" : 50
}
```

## SDK Sample Code

The 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.cloudtest.v1.region.CloudtestRegion;
import com.huaweicloud.sdk.cloudtest.v1.*;
import com.huaweicloud.sdk.cloudtest.v1.model.*;

public class ListEnvironmentsSolution {

    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);

        CloudtestClient client = CloudtestClient.newBuilder()
            .withCredential(auth)
            .withRegion(CloudtestRegion.valueOf("<YOUR REGION>"))
            .build();
        ListEnvironmentsRequest request = new ListEnvironmentsRequest();
        request.withProjectId("{project_id}");
        try {
            ListEnvironmentsResponse response = client.listEnvironments(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

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcloudtest.v1.region.cloudtest_region import CloudtestRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcloudtest.v1 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 = os.environ["CLOUD_SDK_AK"]
```

```
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = ListEnvironmentsRequest()
    request.project_id = "{project_id}"
    response = client.list_environments(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"
    cloudtest "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/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 := cloudtest.NewCloudtestClient(
        cloudtest.CloudtestClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More SDK Sample Code

For SDK code examples in more programming languages, visit [API Explorer](#) and click the **Sample Code** tab.

## Status Codes

| Status Code | Description  |
|-------------|--|
| 200         | Response body for obtaining the environment parameter group list |
| 400         | Bad request  |
| 401         | Unauthorized   |
| 403         | Forbidden  |
| 404         | Not found  |
| 500         | Internal server error  |

## Error Codes

See [Error Codes](#).

# 4.3 Test Plan Management

## 4.3.1 Adding Test Cases In Batches to a Plan

### Function

This API is used to add test cases in batches to a test plan.

### Calling Method

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

### URI

POST /v1/projects/{project\_id}/plans/{plan\_id}/testcases/batch-add

**Table 4-21** Path parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |
| plan_id    | Yes       | String | <b>Definition</b><br>Unique identifier of a plan.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>11 to 34 characters.<br><b>Default Value</b><br>N/A.   |

## Request Parameters

**Table 4-22** Request header parameters

| Parameter    | Mandatory | Type   | Description  |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes       | String | <b>Definition</b><br>User token. It can be obtained by calling the corresponding <a href="#">IAM API</a> . The value of <b>X-Subject-Token</b> in the response header is the user token.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>1 to 100,000 characters.<br><b>Default Value</b><br>N/A. |

**Table 4-23** Request body parameters

| Parameter        | Mandatory | Type             | Description   |
|------------------|-----------|------------------|---|
| service_id       | Yes       | Integer          | <b>Definition</b><br>Service ID returned by the API for registering a test service.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A.               |
| testcase_id_list | Yes       | Array of strings | <b>Definition</b><br>Number of cases in a plan.<br><b>Constraints</b><br>It must involve only one test type.<br><b>Range</b><br>Fewer than 50 elements.<br><b>Default Value</b><br>N/A. |

## Response Parameters

Status code: 200

**Table 4-24** Response body parameters

| Parameter      | Type                            | Description  |
|----------------|---------------------------------|--|
| status         | String                          | <b>success</b> or <b>error</b>   |
| error          | <a href="#">ApiError</a> object | Error message.   |
| request_id     | String                          | Input by the API caller. Use a UUID to ensure that the request is unique.  |
| server_address | String                          | Service address that receives the request.   |
| result         | String                          | If status is failed, this field stores one <a href="#">ApiError</a> object which only contains the reason field. |

**Table 4-25** ApiError

| Parameter | Type   | Description   |
|-----------|--------|---|
| code      | String | <b>Definition</b><br>Error code.<br><b>Range</b><br>N/A.              |
| reason    | String | <b>Definition</b><br>Service failure message.<br><b>Range</b><br>N/A. |

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

| Parameter  | Type                                     | Description   |
|------------|--|---|
| status     | String                                   | <b>Definition</b><br>Processing status of the request.<br><b>Range</b><br>success or error  |
| result     | <a href="#">ResultValueString</a> object | <b>Definition</b><br>Request result.<br><b>Range</b><br>Optional                            |
| error      | <a href="#">ApiError</a> object          | <b>Definition</b><br>Error message.<br><b>Range</b><br>Optional                             |
| request_id | String                                   | <b>Definition</b><br>Unique ID of a request.<br><b>Range</b><br>Optional                    |
| address    | String                                   | <b>Definition</b><br>Service address that receives the request.<br><b>Range</b><br>Optional |

**Table 4-27** ResultValueString

| Parameter | Type   | Description   |
|-----------|--------|---|
| value     | String | <b>Definition</b><br>resultObject<br><b>Range</b><br>N/A. |

**Table 4-28** ApiError

| Parameter | Type   | Description   |
|-----------|--------|---|
| code      | String | <b>Definition</b><br>Error code.<br><b>Range</b><br>N/A.              |
| reason    | String | <b>Definition</b><br>Service failure message.<br><b>Range</b><br>N/A. |

**Status code: 401****Table 4-29** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 404**

**Table 4-30** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 500****Table 4-31** Response body parameters

| Parameter    | Type                          | Description  |
|--------------|-------------------------------|--|
| error_code   | String                        | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg    | String                        | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |
| error_detail | <b>ErrorDetailInfo</b> object | Details about batch operation failure. This field does not display when all operations fail.           |

**Table 4-32** ErrorDetailInfo

| Parameter | Type                                      | Description  |
|-----------|---|--|
| failed    | Array of <b>ErrorCaseInfoBean</b> objects | Details about the resources that fail to be operated in batches. |

**Table 4-33** ErrorCaseInfoBean

| Parameter   | Type   | Description   |
|-------------|--------|---|
| error_code  | String | <b>Definition</b><br>Error code.<br><b>Range</b><br>N/A.                  |
| error_msg   | String | <b>Definition</b><br>Error message.<br><b>Range</b><br>N/A.               |
| testcase_id | String | <b>Definition</b><br>Failed resource information.<br><b>Range</b><br>N/A. |

## Example Requests

Add test cases in batches to a plan.

```
post https://{endpoint}/v1/projects/efdb403066474ab08836b9eaaaa23bca/plans/9b26f58ec29943f681804a6628779a23/testcases/batch-add
{
  "service_id" : 13,
  "testcase_id_list" : [ "97b82412f1ca4628803b918c27ed09de", "97b82412f1ca4628803b918c27ed09de",
"97b82412f1ca4628803b918c27ed09de" ]
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "status" : "success",
  "result" : {
    "value" : "success"
  }
}
```

**Status code: 500**

Internal server error

```
{
  "error_code" : "CLOUDTEST.00000001",
  "error_msg" : "error message displayed after an API fails to be called"
}
```

## SDK Sample Code

The sample code is as follows.

### Java

Add test cases in batches to a plan.

```
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.cloudtest.v1.region.CloudtestRegion;
import com.huaweicloud.sdk.cloudtest.v1.*;
import com.huaweicloud.sdk.cloudtest.v1.model.*;

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

public class CreateTestCaselnPlanSolution {

    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);

        CloudtestClient client = CloudtestClient.newBuilder()
            .withCredential(auth)
            .withRegion(CloudtestRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateTestCaselnPlanRequest request = new CreateTestCaselnPlanRequest();
        request.withProjectId("{project_id}");
        request.withPlanId("{plan_id}");
        CreateTestCaselnPlanRequestBody body = new CreateTestCaselnPlanRequestBody();
        List<String> listbodyTestcaselidList = new ArrayList<>();
        listbodyTestcaselidList.add("97b82412f1ca4628803b918c27ed09de");
        listbodyTestcaselidList.add("97b82412f1ca4628803b918c27ed09de");
        listbodyTestcaselidList.add("97b82412f1ca4628803b918c27ed09de");
        body.withTestcaselidList(listbodyTestcaselidList);
        body.withServiceid(13);
        request.withBody(body);
        try {
            CreateTestCaselnPlanResponse response = client.createTestCaselnPlan(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

Add test cases in batches to a plan.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcloudtest.v1.region.cloudtest_region import CloudtestRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcloudtest.v1 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 = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreateTestCaseInPlanRequest()
        request.project_id = "{project_id}"
        request.plan_id = "{plan_id}"
        listTestcaseIdListbody = [
            "97b82412f1ca4628803b918c27ed09de",
            "97b82412f1ca4628803b918c27ed09de",
            "97b82412f1ca4628803b918c27ed09de"
        ]
        request.body = CreateTestCaseInPlanRequestBody(
            testcase_id_list=listTestcaseIdListbody,
            service_id=13
        )
        response = client.create_test_case_in_plan(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

Add test cases in batches to a plan.

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    cloudtest "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/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 := cloudtest.NewCloudtestClient(
    cloudtest.CloudtestClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreateTestCaseInPlanRequest{}
request.ProjectId = "{project_id}"
request.PlanId = "{plan_id}"
var listTestcaseIdListbody = []string{
    "97b82412f1ca4628803b918c27ed09de",
    "97b82412f1ca4628803b918c27ed09de",
    "97b82412f1ca4628803b918c27ed09de",
}
request.Body = &model.CreateTestCaseInPlanRequestBody{
    TestcaseIdList: listTestcaseIdListbody,
    ServiceId: int32(13),
}
response, err := client.CreateTestCaseInPlan(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More SDK Sample Code

For SDK code examples in more programming languages, visit [API Explorer](#) and click the **Sample Code** tab.

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 200         | OK                    |
| 400         | Bad request           |
| 401         | Unauthorized          |
| 404         | Not found             |
| 500         | Internal server error |

## Error Codes

See [Error Codes](#).

## 4.3.2 Querying the Test Plan List in a Project

### Function

This API is used to query the test plan list in a project.

### Calling Method

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

### URI

GET /v1/projects/{project\_id}/plans

**Table 4-34** Path parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | <b>Definition</b><br>Project UUID. For details, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

**Table 4-35** Query parameters

| Parameter | Mandatory | Type   | Description  |
|-----------|-----------|--------|--|
| name      | No        | String | <b>Definition</b><br>Used for fuzzy query (for test plan names).<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

| Parameter     | Mandatory | Type    | Description  |
|---------------|-----------|---------|--|
| current_stage | No        | String  | <b>Definition</b><br>Test plan stage (create, design, execute, or report).<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |
| offset        | Yes       | Integer | <b>Definition</b><br>Offset<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>0-2000000.<br><b>Default Value</b><br>N/A.  |
| limit         | Yes       | Integer | <b>Definition</b><br>Number of items displayed on each page.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>1-100<br><b>Default Value</b><br>N/A.              |

## Request Parameters

**Table 4-36** Request header parameters

| Parameter    | Mandatory | Type   | Description  |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes       | String | <b>Definition</b><br>User token. It can be obtained by calling the corresponding <a href="#">IAM API</a> . The value of <b>X-Subject-Token</b> in the response header is the user token.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>1 to 100,000 characters.<br><b>Default Value</b><br>N/A. |

## Response Parameters

Status code: 200

**Table 4-37** Response body parameters

| Parameter                 | Type  | Description  |
|---------------------------|---|--|
| [ <i>Array elements</i> ] | Array of <a href="#">TestPlanDetail</a> objects | Response structure for querying the test plan list in a project. |

**Table 4-38** TestPlanDetail

| Parameter     | Type                           | Description  |
|---------------|--------------------------------|--|
| creator       | <a href="#">creator</a> object | <b>Definition</b><br>Test plan creator information.<br><b>Range</b><br>N/A.  |
| current_stage | String                         | <b>Definition</b><br>Stage of the current test plan.<br><b>Range</b><br>N/A. |

| Parameter     | Type                                 | Description   |
|---------------|--------------------------------------|---|
| design_stage  | <a href="#">design_stage</a> object  | <b>Definition</b><br>Information about the test plan design stage.<br><b>Range</b><br>N/A.  |
| end_date      | String                               | <b>Definition</b><br>Test plan deadline.<br><b>Range</b><br>N/A.  |
| execute_stage | <a href="#">execute_stage</a> object | <b>Definition</b><br>Information about the test plan execution stage.<br><b>Range</b><br>N/A.   |
| expire_day    | Integer                              | <b>Definition</b><br>Overdue days. A positive value indicates that the plan has expired.<br><b>Range</b><br>N/A.                              |
| finish_date   | String                               | <b>Definition</b><br>Actual completion time of the test plan (when all test cases under the test plan are completed.)<br><b>Range</b><br>N/A. |
| iteration     | <a href="#">NameAndId</a> object     | <b>Definition</b><br>Sprint No. and name of the test plan.<br><b>Range</b><br>N/A.  |
| name          | String                               | <b>Definition</b><br>Test plan name.<br><b>Range</b><br>N/A.  |
| owner         | <a href="#">owner</a> object         | <b>Definition</b><br>Test plan processor information.<br><b>Range</b><br>N/A.   |

| Parameter    | Type                                | Description   |
|--------------|-------------------------------------|---|
| plan_id      | String                              | <b>Definition</b><br>Test plan ID.<br><b>Range</b><br>N/A.  |
| project_id   | String                              | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |
| report_stage | <a href="#">report_stage</a> object | <b>Definition</b><br>Statistics at the reporting stage.<br><b>Range</b><br>N/A.   |
| start_date   | String                              | <b>Definition</b><br>Test plan start time.<br><b>Range</b><br>N/A.  |

Table 4-39 creator

| Parameter | Type   | Description  |
|-----------|--------|--|
| id        | String | <b>Definition</b><br>ID of the test plan creator.<br><b>Range</b><br>N/A.  |
| nick_name | String | <b>Definition</b><br>Nickname of the test plan creator.<br><b>Range</b><br>This field is not returned if the user does not set the nickname. |

| Parameter | Type   | Description   |
|-----------|--------|---|
| user_name | String | <b>Definition</b><br>Name of the test plan creator.<br><b>Range</b><br>N/A. |

**Table 4-40** design\_stage

| Parameter           | Type    | Description   |
|---------------------|---------|---|
| case_count          | Integer | <b>Definition</b><br>Number of test cases.<br><b>Range</b><br>N/A.                              |
| issue_count         | Integer | <b>Definition</b><br>Number of requirements.<br><b>Range</b><br>N/A.                            |
| issue_covered_count | String  | <b>Definition</b><br>Number of requirements associated with test cases.<br><b>Range</b><br>N/A. |

**Table 4-41** execute\_stage

| Parameter              | Type    | Description  |
|------------------------|---------|--|
| case_pass_rate         | String  | <b>Definition</b><br>Test case pass rate, calculated by test case results.<br><b>Range</b><br>N/A. |
| completed_defect_count | Integer | <b>Definition</b><br>Number of completed bugs.<br><b>Range</b><br>N/A.                             |

| Parameter           | Type    | Description   |
|---------------------|---------|---|
| defect_count        | Integer | <b>Definition</b><br>Number of bugs.<br><b>Range</b><br>N/A.  |
| executed_case_count | Integer | <b>Definition</b><br>Number of executed test cases, calculated by test case status.<br><b>Range</b><br>N/A. |

**Table 4-42** NameAndId

| Parameter | Type   | Description   |
|-----------|--------|---|
| id        | String | <b>Definition</b><br>Object ID.<br><b>Range</b><br>N/A.   |
| name      | String | <b>Definition</b><br>Object name.<br><b>Range</b><br>N/A. |

**Table 4-43** owner

| Parameter | Type   | Description  |
|-----------|--------|--|
| id        | String | <b>Definition</b><br>Test plan processor ID.<br><b>Range</b><br>N/A.   |
| name      | String | <b>Definition</b><br>Name of the test plan processor. nickName is returned if it exists, otherwise userName is returned.<br><b>Range</b><br>N/A. |

| Parameter | Type   | Description  |
|-----------|--------|--|
| nick_name | String | <b>Definition</b><br>Alias of the test plan processor. This parameter is not returned if the user does not set an alias.<br><b>Range</b><br>N/A. |
| user_name | String | <b>Definition</b><br>Username of the test plan processor.<br><b>Range</b><br>N/A.  |

**Table 4-44** report\_stage

| Parameter          | Type   | Description   |
|--------------------|--------|---|
| case_complete_rate | String | <b>Definition</b><br>Case completion rate, calculated by status.<br><b>Range</b><br>0%–100% |

**Status code: 400****Table 4-45** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 401**

**Table 4-46** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 404****Table 4-47** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 500****Table 4-48** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

| Parameter | Type   | Description  |
|-----------|--------|--|
| error_msg | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

## Example Requests

```
get https://{endpoint}/v1/projects/efdb403066474ab08836b9eeaaa23bca/plans?offset=1&limit=10&current_stage
```

## Example Responses

**Status code: 200**

OK

```
[ {
  "creator" : {
    "id" : "efdb403066474ab08836b9eeaaa23bca",
    "nick_name" : "Tester",
    "user_name" : "Tester"
  },
  "current_stage" : "design",
  "design_stage" : {
    "case_count" : 2,
    "issue_count" : 0,
    "issue_covered_count" : "0"
  },
  "end_date" : "2021-07-10",
  "execute_stage" : {
    "case_pass_rate" : "0.00%",
    "completed_defect_count" : 0,
    "defect_count" : 0,
    "executed_case_count" : 0
  },
  "expire_day" : -4,
  "finish_date" : "2021-07-10",
  "iteration" : {
    "id" : "ID",
    "name" : "Name"
  },
  "name" : "Test",
  "owner" : {
    "id" : "efdb403066474ab08836b9eeaaa23bca",
    "name" : "Tester",
    "nick_name" : "Tester",
    "user_name" : "Tester"
  },
  "plan_id" : "c7c2ddf2ea914164ac6ee76bf11a30ea",
  "project_id" : "9b26f58ec29943f681804a6628779a23",
  "report_stage" : {
    "case_complete_rate" : "100.00%"
  },
  "start_date" : "2021-07-10"
} ]
```

## SDK Sample Code

The 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.cloudtest.v1.region.CloudtestRegion;
import com.huaweicloud.sdk.cloudtest.v1.*;
import com.huaweicloud.sdk.cloudtest.v1.model.*;

public class ShowPlansSolution {

    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);

        CloudtestClient client = CloudtestClient.newBuilder()
            .withCredential(auth)
            .withRegion(CloudtestRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPlansRequest request = new ShowPlansRequest();
        request.withProjectId("{project_id}");
        try {
            ShowPlansResponse response = client.showPlans(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

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcloudtest.v1.region.cloudtest_region import CloudtestRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcloudtest.v1 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 = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = ShowPlansRequest()
    request.project_id = "{project_id}"
    response = client.show_plans(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"
    cloudtest "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/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 := cloudtest.NewCloudtestClient(
        cloudtest.CloudtestClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More SDK Sample Code

For SDK code examples in more programming languages, visit [API Explorer](#) and click the **Sample Code** tab.

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 200         | OK                    |
| 400         | Bad request           |
| 401         | Unauthorized          |
| 404         | Not found             |
| 500         | Internal server error |

## Error Codes

See [Error Codes](#).

## 4.3.3 Querying the Requirement Tree of a Test Plan

### Function

This API is used to query the requirement list in a test plan.

### Calling Method

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

### URI

GET /v1/projects/{project\_id}/plans/{plan\_id}/issues

**Table 4-49** Path parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A.   |
| plan_id    | Yes       | String | <b>Definition</b><br>Test plan ID. It corresponds to the test plan object created on the test plan management page and the version object created on the version management page. The value consists of <i>{branch_id}</i> and <i>{testplan_id}</i> in the URL in the address box on the test case list page, that is, <code>https://{host}/cloudtestportal/project/{project_id}/testcase?branch_id={branch_id}&amp;testplan_id={testplan_id}</code> .<br><b>Constraints</b><br>11 to 34 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

**Table 4-50** Query parameters

| Parameter | Mandatory | Type | Description   |
|-----------|-----------|------|---|
| offset    | Yes       | Long | <b>Definition</b><br>The position where the query starts.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>0–2000000.<br><b>Default Value</b><br>N/A. |
| limit     | Yes       | Long | <b>Definition</b><br>Number of items displayed on each page.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>0–100<br><b>Default Value</b><br>N/A.   |

## Request Parameters

**Table 4-51** Request header parameters

| Parameter    | Mandatory | Type   | Description  |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes       | String | <b>Definition</b><br>User token. It can be obtained by calling the corresponding <a href="#">IAM API</a> . The value of <b>X-Subject-Token</b> in the response header is the user token.<br><b>Constraints</b><br>Mandatory.<br><b>Range</b><br>1 to 100,000 characters.<br><b>Default Value</b><br>N/A. |

## Response Parameters

Status code: 200

Table 4-52 Response body parameters

| Parameter                 | Type  | Description   |
|---------------------------|---|---|
| [ <i>Array elements</i> ] | Array of <b>TestPlanIssueDetail</b> objects | <b>Definition</b><br>List of requirements associated with a test plan in a project.<br><b>Range</b><br>N/A. |

Table 4-53 TestPlanIssueDetail

| Parameter | Type                    | Description  |
|-----------|-------------------------|--|
| end_date  | String                  | <b>Definition</b><br>Estimated end date.<br><b>Range</b><br>N/A.                   |
| iteration | <b>NameAndId</b> object | <b>Definition</b><br>Sprint No. and name of the test plan.<br><b>Range</b><br>N/A. |
| module    | <b>NameAndId</b> object | <b>Definition</b><br>Module number and name.<br><b>Range</b><br>N/A.               |
| name      | String                  | <b>Definition</b><br>Work item name.<br><b>Range</b><br>N/A.                       |
| owner     | <b>NameAndId</b> object | <b>Definition</b><br>Owner.<br><b>Range</b><br>N/A.                                |

| Parameter    | Type                             | Description   |
|--------------|----------------------------------|---|
| parent_issue | String                           | <b>Definition</b><br>Parent work item.<br><b>Range</b><br>N/A.  |
| plan_id      | String                           | <b>Definition</b><br>Test plan ID.<br><b>Range</b><br>N/A.  |
| project_id   | String                           | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A. |
| region_id    | String                           | <b>Definition</b><br>Region information.<br><b>Range</b><br>N/A.  |
| severity     | <a href="#">NameAndId</a> object | <b>Definition</b><br>Severity ID and name<br><b>Range</b><br>N/A.   |
| start_date   | String                           | <b>Definition</b><br>Estimated start date.<br><b>Range</b><br>N/A.  |
| status       | <a href="#">NameAndId</a> object | <b>Definition</b><br>Status ID and name.<br><b>Range</b><br>N/A.  |
| tracker      | <a href="#">NameAndId</a> object | <b>Definition</b><br>Tracker<br><b>Range</b><br>N/A.  |

| Parameter   | Type   | Description  |
|-------------|--------|--|
| workitem_id | String | <b>Definition</b><br>Work item ID.<br><b>Range</b><br>N/A. |

**Table 4-54** NameAndId

| Parameter | Type   | Description   |
|-----------|--------|---|
| id        | String | <b>Definition</b><br>Object ID.<br><b>Range</b><br>N/A.   |
| name      | String | <b>Definition</b><br>Object name.<br><b>Range</b><br>N/A. |

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

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 401**

**Table 4-56** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 404****Table 4-57** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 500****Table 4-58** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

| Parameter | Type   | Description  |
|-----------|--------|--|
| error_msg | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

## Example Requests

Query the requirement tree of a test plan.

```
get https://{endpoint}/v1/projects/efdb403066474ab08836b9eeaaa23bca/plans/  
9b26f58ec29943f681804a6628779a23/issues?offset=1&limit=10
```

## Example Responses

**Status code: 200**

OK

```
[ {  
  "end_date": "2021-12-11 00:00:00",  
  "iteration": {  
    "id": "ID",  
    "name": "Name"  
  },  
  "module": {  
    "id": "ID",  
    "name": "Name"  
  },  
  "name": "Work item 1",  
  "owner": {  
    "id": "ID",  
    "name": "Name"  
  },  
  "parent_issue": "4192352",  
  "plan_id": "c7c2ddf2ea914164ac6ee76bf11a30ea",  
  "project_id": "9b26f58ec29943f681804a6628779a23",  
  "region_id": "{region ID}",  
  "severity": {  
    "id": "ID",  
    "name": "Name"  
  },  
  "start_date": "2021-12-10 00:00:00",  
  "status": {  
    "id": "ID",  
    "name": "Name"  
  },  
  "tracker": {  
    "id": "ID",  
    "name": "Name"  
  },  
  "workitem_id": "4192353"  
}
```

## SDK Sample Code

The 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.cloudtest.v1.region.CloudtestRegion;
import com.huaweicloud.sdk.cloudtest.v1.*;
import com.huaweicloud.sdk.cloudtest.v1.model.*;

public class ShowIssuesByPlanIdSolution {

    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);

        CloudtestClient client = CloudtestClient.newBuilder()
            .withCredential(auth)
            .withRegion(CloudtestRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowIssuesByPlanIdRequest request = new ShowIssuesByPlanIdRequest();
        request.withProjectId("{project_id}");
        request.withPlanId("{plan_id}");
        try {
            ShowIssuesByPlanIdResponse response = client.showIssuesByPlanId(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

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcloudtest.v1.region.cloudtest_region import CloudtestRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcloudtest.v1 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 = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = ShowIssuesByPlanIdRequest()
    request.project_id = "{project_id}"
    request.plan_id = "{plan_id}"
    response = client.show_issues_by_plan_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"
    cloudtest "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/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 := cloudtest.NewCloudtestClient(
        cloudtest.CloudtestClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowIssuesByPlanIdRequest{}
    request.ProjectId = "{project_id}"
    request.PlanId = "{plan_id}"
    response, err := client.ShowIssuesByPlanId(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More SDK Sample Code

For SDK code examples in more programming languages, visit [API Explorer](#) and click the **Sample Code** tab.

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 200         | OK                    |
| 400         | Bad request           |
| 401         | Unauthorized          |
| 404         | Not found             |
| 500         | Internal server error |

## Error Codes

See [Error Codes](#).

## 4.3.4 Creating a Plan in a Project

### Function

This API is used to create a plan in a project.

### Calling Method

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

### URI

POST /v1/projects/{*project\_id*}/plans

**Table 4-59** Path parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

## Request Parameters

**Table 4-60** Request header parameters

| Parameter    | Mandatory | Type   | Description   |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

**Table 4-61** Request body parameters

| Parameter   | Mandatory | Type   | Description   |
|-------------|-----------|--------|---|
| assigned_id | No        | String | <b>Definition</b><br>Processor ID. If this parameter is left blank, the current user ID is used by default.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

| Parameter       | Mandatory | Type                       | Description  |
|-----------------|-----------|----------------------------|--|
| name            | Yes       | String                     | <b>Definition</b><br>Plan name.<br><b>Constraints</b><br>Max. 128 characters.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A.                    |
| plan_cycle      | Yes       | <b>PlanCycle</b><br>object | Plan period.   |
| service_id_list | Yes       | Array of integers          | <b>Definition</b><br>Types of cases in the plan.<br><b>Constraints</b><br>Max. array length: 10.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

**Table 4-62** PlanCycle

| Parameter | Mandatory | Type   | Description   |
|-----------|-----------|--------|---|
| end_date  | Yes       | String | <b>Definition</b><br>End time of the plan.<br><b>Constraints</b><br>In the UTC format. For example, 2020-03-31.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| start_date | Yes       | String | <b>Definition</b><br>Start time of the plan.<br><b>Constraints</b><br>In the UTC format. For example, 2020-03-04.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

## Response Parameters

Status code: 200

Table 4-63 Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| plan_id    | String | <b>Definition</b><br>Plan ID returned after the API is called successfully.<br><b>Range</b><br>N/A. |
| error_code | String | <b>Definition</b><br>Error code returned after API calling fails.<br><b>Range</b><br>N/A.           |
| error_msg  | String | <b>Definition</b><br>Error message returned after API calling fails.<br><b>Range</b><br>N/A.        |

Status code: 400

**Table 4-64** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

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

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 404****Table 4-66** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

| Parameter | Type   | Description  |
|-----------|--------|--|
| error_msg | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 500****Table 4-67** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

## Example Requests

Create a plan in a project.

```
post https://{endpoint}/v1/projects/efdb403066474ab08836b9eaaaa23bca/plans
```

```
{
  "assigned_id": "efdb403066474ab08836b9eaaaa23bca",
  "name": "Example test plan",
  "plan_cycle": {
    "end_date": "2020-03-31",
    "start_date": "2020-03-04"
  },
  "service_id_list": [ 13, 24 ]
}
```

## Example Responses

**Status code: 200**

Created

```
{
  "plan_id": "b66aab5469cc4ab39b0dda8e644a42a4",
  "error_code": "CLOUDTEST.00000001",
}
```

```
"error_msg" : "error message displayed after an API fails to be called"  
}
```

## SDK Sample Code

The sample code is as follows.

### Java

Create a plan in a project.

```
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.cloudtest.v1.region.CloudtestRegion;  
import com.huaweicloud.sdk.cloudtest.v1.*;  
import com.huaweicloud.sdk.cloudtest.v1.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class CreatePlanSolution {  
    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);  
  
        CloudtestClient client = CloudtestClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CloudtestRegion.valueOf("<YOUR REGION>"))  
            .build();  
        CreatePlanRequest request = new CreatePlanRequest();  
        request.withProjectId("{project_id}");  
        CreatePlanRequestBody body = new CreatePlanRequestBody();  
        PlanCycle planCyclebody = new PlanCycle();  
        planCyclebody.withStartDate("2020-03-04")  
            .withEndDate("2020-03-31");  
        List<Integer> listbodyServiceIdList = new ArrayList<>();  
        listbodyServiceIdList.add(13);  
        listbodyServiceIdList.add(24);  
        body.withPlanCycle(planCyclebody);  
        body.withServiceIdList(listbodyServiceIdList);  
        body.withAssignedId("efdb403066474ab08836b9eaaaa23bca");  
        body.withName("Example test plan");  
        request.withBody(body);  
        try {  
            CreatePlanResponse response = client.createPlan(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 plan in a project.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcloudtest.v1.region.cloudtest_region import CloudtestRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcloudtest.v1 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 = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreatePlanRequest()
        request.project_id = "{project_id}"
        planCyclebody = PlanCycle(
            start_date="2020-03-04",
            end_date="2020-03-31"
        )
        listServiceIdListbody = [
            13,
            24
        ]
        request.body = CreatePlanRequestBody(
            plan_cycle=planCyclebody,
            service_id_list=listServiceIdListbody,
            assigned_id="efdb403066474ab08836b9eeaaa23bca",
            name="Example test plan"
        )
        response = client.create_plan(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 plan in a project.

```
package main

import (
```

```
"fmt"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
cloudtest "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/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 := cloudtest.NewCloudtestClient(
        cloudtest.CloudtestClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePlanRequest{}
    request.ProjectId = "{project_id}"
    startDatePlanCycle:= "2020-03-04"
    endDatePlanCycle:= "2020-03-31"
    planCyclebody := &model.PlanCycle{
        StartDate: &startDatePlanCycle,
        EndDate: &endDatePlanCycle,
    }
    var listServiceIdListbody = []int32{
        int32(13),
        int32(24),
    }
    assignedIdCreatePlanRequestBody:= "efdb403066474ab08836b9eeaaa23bca"
    request.Body = &model.CreatePlanRequestBody{
        PlanCycle: planCyclebody,
        ServiceIdList: listServiceIdListbody,
        AssignedId: &assignedIdCreatePlanRequestBody,
        Name: "Example test plan",
    }
    response, err := client.CreatePlan(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More SDK Sample Code

For SDK code examples in more programming languages, visit [API Explorer](#) and click the **Sample Code** tab.

## Status Codes

| Status Code | Description |
|-------------|-------------|
| 200         | Created     |

| Status Code | Description           |
|-------------|-----------------------|
| 400         | Bad request           |
| 401         | Unauthorized          |
| 404         | Not found             |
| 500         | Internal server error |

## Error Codes

See [Error Codes](#).

## 4.3.5 Querying the Operation History of a Test Plan

### Function

This API is used to query the operation history of a test plan.

### Calling Method

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

### URI

GET /v1/projects/{project\_id}/plans/{plan\_id}/journals

**Table 4-68** Path parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

| Parameter | Mandatory | Type   | Description   |
|-----------|-----------|--------|---|
| plan_id   | Yes       | String | <b>Definition</b><br>ID of a test plan.<br><b>Constraints</b><br>11 to 34 characters.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

**Table 4-69** Query parameters

| Parameter | Mandatory | Type | Description  |
|-----------|-----------|------|--|
| offset    | Yes       | Long | <b>Definition</b><br>The position where the query starts.<br><b>Constraints</b><br>$\geq 0$<br><b>Range</b><br>0-2000000<br><b>Default Value</b><br>N/A. |
| limit     | Yes       | Long | <b>Definition</b><br>Number of items displayed on each page.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>1-200<br><b>Default Value</b><br>N/A.      |

## Request Parameters

**Table 4-70** Request header parameters

| Parameter    | Mandatory | Type   | Description   |
|--------------|-----------|--------|---|
| X-Auth-Token | Yes       | String | User token.<br>It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token. |

## Response Parameters

**Status code: 201****Table 4-71** Response body parameters

| Parameter                 | Type   | Description   |
|---------------------------|--|---|
| [ <i>Array elements</i> ] | Array of <b>TestPlanJournal-List</b> objects | <b>Definition</b><br>Response structure for querying the operation history of a test plan in a project.<br><b>Range</b><br>N/A. |

**Table 4-72** TestPlanJournalList

| Parameter    | Type   | Description  |
|--------------|--|--|
| detail       | Array of <b>TestPlanJournal-Detail</b> objects | Historical record details.   |
| operate_time | String   | Change time.   |
| operator     | <b>NameAndId</b> object                        | <b>Definition</b><br>Operator<br><b>Range</b><br>N/A.                      |
| plan_id      | String   | <b>Definition</b><br>Test plan ID.<br><b>Range</b><br>11 to 34 characters. |

| Parameter  | Type   | Description   |
|------------|--------|---|
| project_id | String | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A. |

**Table 4-73** TestPlanJournalDetail

| Parameter        | Type   | Description  |
|------------------|--|--|
| added            | Array of <a href="#">NameAndId</a> objects       | Records of adding test plan resources (work items or test cases).  |
| deleted          | Array of <a href="#">NameAndId</a> objects       | Records of removing test plan resources (work items or test cases).  |
| journalized_type | String   | <b>Definition</b><br>Specific type in change records.<br>Example: test case or requirement.<br><b>Range</b><br>N/A.  |
| type             | String   | <b>Definition</b><br>Whether the basic information or a resource is changed (adding or removing requirements/test cases).<br><b>Range</b><br>N/A.  |
| updated          | Array of <a href="#">AttributeChange</a> objects | <b>Definition</b><br>Change of the basic information about the test plan. It includes the plan name, test type, plan processor, version, associated sprint, start date, end date, and description.<br><b>Range</b><br>N/A. |

**Table 4-74** NameAndId

| Parameter | Type   | Description   |
|-----------|--------|---|
| id        | String | <b>Definition</b><br>Object ID.<br><b>Range</b><br>N/A.   |
| name      | String | <b>Definition</b><br>Object name.<br><b>Range</b><br>N/A. |

**Table 4-75** AttributeChange

| Parameter      | Type   | Description  |
|----------------|--------|--|
| attribute_type | String | <b>Definition</b><br>Changed test plan attributes.<br><b>Range</b><br>N/A. |
| new_value      | String | <b>Definition</b><br>Changed value.<br><b>Range</b><br>N/A.                |
| old_value      | String | <b>Definition</b><br>Value before the change.<br><b>Range</b><br>N/A.      |

**Status code: 400****Table 4-76** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

| Parameter | Type   | Description  |
|-----------|--------|--|
| error_msg | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

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

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 404****Table 4-78** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 500**

**Table 4-79** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

## Example Requests

```
get https://{endpoint}/v1/projects/efdb403066474ab08836b9eeaaa23bca/plans/9b26f58ec29943f681804a6628779a23/journals?offset=1&limit=10
```

## Example Responses

**Status code: 201**

OK

```
[{
  "detail": [{
    "added": [{
      "id": "ID",
      "name": "Name"
    }],
    "deleted": [{
      "id": "ID",
      "name": "Name"
    }],
    "journalized_type": "plan",
    "type": "resource/attribute",
    "updated": [{
      "attribute_type": "name",
      "new_value": "tester",
      "old_value": "test"
    }]
  }],
  "operate_time": "2021-07-10",
  "operator": {
    "id": "ID",
    "name": "Name"
  },
  "plan_id": "c7c2ddf2ea914164ac6ee76bf11a30ea",
  "project_id": "9b26f58ec29943f681804a6628779a23"
}]
```

## SDK Sample Code

The 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.cloudtest.v1.region.CloudtestRegion;
import com.huaweicloud.sdk.cloudtest.v1.*;
import com.huaweicloud.sdk.cloudtest.v1.model.*;

public class ShowPlanJournalsSolution {

    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);

        CloudtestClient client = CloudtestClient.newBuilder()
            .withCredential(auth)
            .withRegion(CloudtestRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPlanJournalsRequest request = new ShowPlanJournalsRequest();
        request.withProjectId("{project_id}");
        request.withPlanId("{plan_id}");
        try {
            ShowPlanJournalsResponse response = client.showPlanJournals(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

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcloudtest.v1.region.cloudtest_region import CloudtestRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcloudtest.v1 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 = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = ShowPlanJournalsRequest()
    request.project_id = "{project_id}"
    request.plan_id = "{plan_id}"
    response = client.show_plan_journals(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"
    cloudtest "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/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 := cloudtest.NewCloudtestClient(
        cloudtest.CloudtestClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPlanJournalsRequest{}
    request.ProjectId = "{project_id}"
    request.PlanId = "{plan_id}"
    response, err := client.ShowPlanJournals(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More SDK Sample Code

For SDK code examples in more programming languages, visit [API Explorer](#) and click the **Sample Code** tab.

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 201         | OK                    |
| 400         | Bad request           |
| 401         | Unauthorized          |
| 404         | Not found             |
| 500         | Internal server error |

## Error Codes

See [Error Codes](#).

## 4.3.6 Querying the Test Plan List in a Project (V2)

### Function

This API is used to query the test plan list in a project (V2).

### Calling Method

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

### URI

GET /v2/projects/{*project\_id*}/plans

**Table 4-80** Path parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |

**Table 4-81** Query parameters

| Parameter | Mandatory | Type    | Description   |
|-----------|-----------|---------|---|
| offset    | Yes       | Integer | <b>Definition</b><br>The position where the query starts.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>$\geq 0$<br><b>Default Value</b><br>N/A. |
| limit     | Yes       | Integer | <b>Definition</b><br>Number of items displayed on each page.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>0-100<br><b>Default Value</b><br>N/A. |

| Parameter       | Mandatory | Type   | Description   |
|-----------------|-----------|--------|---|
| name            | No        | String | <b>Definition</b><br>Used for fuzzy query (for test plan names).<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A.                              |
| current_stage   | No        | String | <b>Definition</b><br>Stage of the test plan.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>create, design, execute, report<br><b>Default Value</b><br>N/A.                       |
| fix_version_ids | No        | String | <b>Definition</b><br>Sprint associated with the test plan.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>Sprint IDs are separated by commas (,).<br><b>Default Value</b><br>N/A. |
| branch_uri      | No        | String | <b>Definition</b><br>Branch URI.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>master  |

| Parameter         | Mandatory | Type    | Description  |
|-------------------|-----------|---------|--|
| query_all_version | No        | Boolean | <b>Definition</b><br>Whether to query test plans of all versions.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br><b>false</b> : Query test plans in the branches specified in the <b>branch_uri</b> field. If <b>branch_uri</b> is left empty, the master branch will be queried by default.<br><b>true</b> : Query test plans of all versions.<br><b>Default Value</b><br>false |

## Request Parameters

Table 4-82 Request header parameters

| Parameter    | Mandatory | Type   | Description  |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes       | String | <b>Definition</b><br>User token. It can be obtained by calling the corresponding <a href="#">IAM API</a> . The value of <b>X-Subject-Token</b> in the response header is the user token.<br><b>Constraints</b><br>N/A.<br><b>Range</b><br>1 to 100,000 characters.<br><b>Default Value</b><br>N/A. |

## Response Parameters

Status code: 201

**Table 4-83** Response body parameters

| Parameter                 | Type                                   | Description  |
|---------------------------|--|--|
| [ <i>Array elements</i> ] | Array of <b>TestPlanDetail</b> objects | Response structure for querying the test plan list in a project. |

**Table 4-84** TestPlanDetail

| Parameter     | Type                        | Description  |
|---------------|-----------------------------|--|
| creator       | <b>creator</b> object       | <b>Definition</b><br>Test plan creator information.<br><b>Range</b><br>N/A.                                      |
| current_stage | String                      | <b>Definition</b><br>Stage of the current test plan.<br><b>Range</b><br>N/A.                                     |
| design_stage  | <b>design_stage</b> object  | <b>Definition</b><br>Information about the test plan design stage.<br><b>Range</b><br>N/A.                       |
| end_date      | String                      | <b>Definition</b><br>Test plan deadline.<br><b>Range</b><br>N/A.   |
| execute_stage | <b>execute_stage</b> object | <b>Definition</b><br>Information about the test plan execution stage.<br><b>Range</b><br>N/A.                    |
| expire_day    | Integer                     | <b>Definition</b><br>Overdue days. A positive value indicates that the plan has expired.<br><b>Range</b><br>N/A. |

| Parameter    | Type                                | Description   |
|--------------|-------------------------------------|---|
| finish_date  | String                              | <b>Definition</b><br>Actual completion time of the test plan (when all test cases under the test plan are completed.)<br><b>Range</b><br>N/A.   |
| iteration    | <a href="#">NameAndId</a> object    | <b>Definition</b><br>Sprint No. and name of the test plan.<br><b>Range</b><br>N/A.  |
| name         | String                              | <b>Definition</b><br>Test plan name.<br><b>Range</b><br>N/A.  |
| owner        | <a href="#">owner</a> object        | <b>Definition</b><br>Test plan processor information.<br><b>Range</b><br>N/A.   |
| plan_id      | String                              | <b>Definition</b><br>Test plan ID.<br><b>Range</b><br>N/A.  |
| project_id   | String                              | <b>Definition</b><br>Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see <a href="#">Obtaining a Project ID</a> .<br><b>Constraints</b><br>32 characters (letters and digits).<br><b>Range</b><br>N/A.<br><b>Default Value</b><br>N/A. |
| report_stage | <a href="#">report_stage</a> object | <b>Definition</b><br>Statistics at the reporting stage.<br><b>Range</b><br>N/A.   |

| Parameter  | Type   | Description  |
|------------|--------|--|
| start_date | String | <b>Definition</b><br>Test plan start time.<br><b>Range</b><br>N/A. |

**Table 4-85** creator

| Parameter | Type   | Description  |
|-----------|--------|--|
| id        | String | <b>Definition</b><br>ID of the test plan creator.<br><b>Range</b><br>N/A.  |
| nick_name | String | <b>Definition</b><br>Nickname of the test plan creator.<br><b>Range</b><br>This field is not returned if the user does not set the nickname. |
| user_name | String | <b>Definition</b><br>Name of the test plan creator.<br><b>Range</b><br>N/A.  |

**Table 4-86** design\_stage

| Parameter   | Type    | Description  |
|-------------|---------|--|
| case_count  | Integer | <b>Definition</b><br>Number of test cases.<br><b>Range</b><br>N/A.   |
| issue_count | Integer | <b>Definition</b><br>Number of requirements.<br><b>Range</b><br>N/A. |

| Parameter           | Type   | Description   |
|---------------------|--------|---|
| issue_covered_count | String | <b>Definition</b><br>Number of requirements associated with test cases.<br><b>Range</b><br>N/A. |

**Table 4-87** execute\_stage

| Parameter              | Type    | Description   |
|------------------------|---------|---|
| case_pass_rate         | String  | <b>Definition</b><br>Test case pass rate, calculated by test case results.<br><b>Range</b><br>N/A.          |
| completed_defect_count | Integer | <b>Definition</b><br>Number of completed bugs.<br><b>Range</b><br>N/A.                                      |
| defect_count           | Integer | <b>Definition</b><br>Number of bugs.<br><b>Range</b><br>N/A.  |
| executed_case_count    | Integer | <b>Definition</b><br>Number of executed test cases, calculated by test case status.<br><b>Range</b><br>N/A. |

**Table 4-88** NameAndId

| Parameter | Type   | Description   |
|-----------|--------|---|
| id        | String | <b>Definition</b><br>Object ID.<br><b>Range</b><br>N/A. |

| Parameter | Type   | Description   |
|-----------|--------|---|
| name      | String | <b>Definition</b><br>Object name.<br><b>Range</b><br>N/A. |

**Table 4-89** owner

| Parameter | Type   | Description  |
|-----------|--------|--|
| id        | String | <b>Definition</b><br>Test plan processor ID.<br><b>Range</b><br>N/A.   |
| name      | String | <b>Definition</b><br>Name of the test plan processor.<br>nickName is returned if it exists,<br>otherwise userName is returned.<br><b>Range</b><br>N/A. |
| nick_name | String | <b>Definition</b><br>Alias of the test plan processor. This<br>parameter is not returned if the user<br>does not set an alias.<br><b>Range</b><br>N/A. |
| user_name | String | <b>Definition</b><br>Username of the test plan processor.<br><b>Range</b><br>N/A.  |

**Table 4-90** report\_stage

| Parameter          | Type   | Description  |
|--------------------|--------|--|
| case_complete_rate | String | <b>Definition</b><br>Case completion rate, calculated by<br>status.<br><b>Range</b><br>0%–100% |

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

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

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

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 404**

**Table 4-93** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

**Status code: 500****Table 4-94** Response body parameters

| Parameter  | Type   | Description  |
|------------|--------|--|
| error_code | String | <b>Definition</b><br>Error code displayed after the API fails to be called.<br><b>Range</b><br>N/A.    |
| error_msg  | String | <b>Definition</b><br>Error message displayed after the API fails to be called.<br><b>Range</b><br>N/A. |

## Example Requests

```
get https://{endpoint}/v2/projects/efdb403066474ab08836b9eeaaa23bca/plans?
offset=1&limit=10&name&current_stage
```

## Example Responses

**Status code: 201**

OK

```
[ {
  "creator" : {
    "id" : "efdb403066474ab08836b9eeaaa23bca",
    "nick_name" : "Tester",
```

```
"user_name" : "Tester"
},
"current_stage" : "design",
"design_stage" : {
  "case_count" : 2,
  "issue_count" : 0,
  "issue_covered_count" : "0"
},
"end_date" : "2021-07-10",
"execute_stage" : {
  "case_pass_rate" : "0.00%",
  "completed_defect_count" : 0,
  "defect_count" : 0,
  "executed_case_count" : 0
},
"expire_day" : -4,
"finish_date" : "2021-07-10",
"iteration" : {
  "id" : "ID",
  "name" : "Name"
},
"name" : "Test",
"owner" : {
  "id" : "efdb403066474ab08836b9eaaaa23bca",
  "name" : "Tester",
  "nick_name" : "Tester",
  "user_name" : "Tester"
},
"plan_id" : "c7c2ddf2ea914164ac6ee76bf11a30ea",
"project_id" : "9b26f58ec29943f681804a6628779a23",
"report_stage" : {
  "case_complete_rate" : "100.00%"
},
"start_date" : "2021-07-10"
}]
```

## SDK Sample Code

The 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.cloudtest.v1.region.CloudtestRegion;
import com.huaweicloud.sdk.cloudtest.v1.*;
import com.huaweicloud.sdk.cloudtest.v1.model.*;

public class ShowPlanListSolution {

    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);
```

```
CloudtestClient client = CloudtestClient.newBuilder()
    .withCredential(auth)
    .withRegion(CloudtestRegion.valueOf("<YOUR REGION>"))
    .build();
ShowPlanListRequest request = new ShowPlanListRequest();
request.withProjectId("{project_id}");
try {
    ShowPlanListResponse response = client.showPlanList(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

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcloudtest.v1.region.cloudtest_region import CloudtestRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcloudtest.v1 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 = os.environ["CLOUD_SDK_AK"]
    sk = os.environ["CLOUD_SDK_SK"]

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowPlanListRequest()
        request.project_id = "{project_id}"
        response = client.show_plan_list(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"
    cloudtest "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1"
```

```
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/cloudtest/v1/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 := cloudtest.NewCloudtestClient(
        cloudtest.CloudtestClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More SDK Sample Code

For SDK code examples in more programming languages, visit [API Explorer](#) and click the **Sample Code** tab.

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 201         | OK                    |
| 400         | Bad request           |
| 401         | Unauthorized          |
| 404         | Not found             |
| 500         | Internal server error |

## Error Codes

See [Error Codes](#).

# 4.4 Test Suit Management

## 4.4.1 Obtaining Details of the Test Cases in a Test Suite

### Function

This API is used to obtain details of the test cases in a test suite.

### Calling Method

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

### URI

POST /v4/{project\_id}/tasks/{task\_uri}/testcases/batch-query

**Table 4-95** Path Parameters

| Parameter  | Mandatory | Type   | Description   |
|------------|-----------|--------|---|
| project_id | Yes       | String | Project UUID, which uniquely identifies a project. The value must contain 32 characters (letters and digits). For details, see <a href="#">Obtaining a Project ID</a> . |
| task_uri   | Yes       | String | Task URI.   |

### Request Parameters

**Table 4-96** Request body parameters

| Parameter   | Mandatory | Type             | Description  |
|-------------|-----------|------------------|--|
| stage       | No        | Integer          | Phase of a test case in a task.                                  |
| owners      | No        | Array of strings | Handlers for filtering.  |
| page_no     | No        | Integer          | Page number.   |
| page_size   | No        | Integer          | Number of pages. The value ranges from <b>1</b> to <b>1000</b> . |
| results     | No        | Array of strings | Result filter.   |
| status      | No        | Array of strings | Status for filtering.  |
| version_uri | No        | String           | Branch/Sprint URI.   |

| Parameter        | Mandatory | Type              | Description   |
|------------------|-----------|-------------------|---|
| release_dev      | No        | String            | Task version filtering condition, which affects the query result of associated tasks. The latest test case result in the current task version is queried.   |
| sort_field       | No        | String            | Sorting field.  |
| sort_type        | No        | String            | <b>Definition</b><br>Sorting method.<br><b>Constraints</b><br>N/A<br><b>Range</b> <ul style="list-style-type: none"><li>• <b>ASC</b>: ascending order</li><li>• <b>DESC</b>: descending order</li></ul> <b>Default Value</b><br>N/A |
| feature_uri      | No        | String            | Feature URI.  |
| task_result_uri  | No        | String            | URI of the test suite result.   |
| rank_ids         | No        | Array of integers | Test case level IDs.  |
| key_word         | No        | String            | Keyword   |
| issue_id         | No        | String            | Requirement ID.   |
| associated_issue | No        | Boolean           | Whether the test case is associated with a requirement.<br><b>null</b> : not limited; <b>false</b> : not associated; <b>true</b> : associated.  |
| select_all_pages | No        | Boolean           | Whether all pages are selected ( <b>null</b> : no; <b>false</b> : no; <b>true</b> : yes). This parameter is used for batch task execution results. Only the case URI is returned.   |
| is_available     | No        | Boolean           | Whether a test case is available.   |
| is_script_exist  | No        | Boolean           | Whether the case script field has a value.  |
| is_contain_child | No        | Boolean           | Whether to include subdirectories. The default value is <b>true</b> .   |

## Response Parameters

Status code: 200

**Table 4-97** Response body parameters

| Parameter | Type  | Description  |
|-----------|---|--|
| value     | Array of <a href="#">TaskAssignCaseDetailVo</a> objects | Return parameters for obtaining details of the test cases in a test suite. |

**Table 4-98** TaskAssignCaseDetailVo

| Parameter        | Type    | Description   |
|------------------|---------|---|
| uri              | String  | Association URI.  |
| sort             | Integer | Sorting order.  |
| owner            | String  | Owner ID.   |
| stage            | Integer | Test phase.   |
| project_id       | String  | Project UUID, which uniquely identifies a project. The value must contain 32 characters (letters and digits). For details, see <a href="#">Obtaining a Project ID</a> . |
| task_uri         | String  | Task URI.   |
| update_time      | String  | Update time.  |
| updator_name     | String  | Updater.  |
| updator          | String  | Updater ID.   |
| case_uri         | String  | Case URI.   |
| is_available     | Integer | Available or not.   |
| test_case_name   | String  | Test case name.   |
| feature_uri      | String  | Case directory URI.   |
| test_case_number | String  | Test case ID.   |
| svn_script_path  | String  | Script path.  |
| status_code      | String  | Status.   |
| status_name      | String  | Status name.  |
| result_code      | String  | Result ID.  |
| result_name      | String  | Result name.  |

| Parameter            | Type    | Description                         |
|----------------------|---------|-------------------------------------|
| owner_name           | String  | Owner name.                         |
| execute_latest_time  | String  | Time of the last execution.         |
| execute_duration     | String  | Execution duration.                 |
| is_keyword           | Integer | Whether the test case is a key one. |
| net_work_script_name | String  | Script name.                        |
| rank_id              | Integer | Test case level.                    |
| remark               | String  | Description.                        |

**Status code: 400****Table 4-99** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | Error code displayed after the API fails to be called.    |
| error_msg  | String | Error message displayed after the API fails to be called. |

**Status code: 401****Table 4-100** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | Error code displayed after the API fails to be called.    |
| error_msg  | String | Error message displayed after the API fails to be called. |

**Status code: 404**

**Table 4-101** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | Error code displayed after the API fails to be called.    |
| error_msg  | String | Error message displayed after the API fails to be called. |

**Status code: 500****Table 4-102** Response body parameters

| Parameter  | Type   | Description   |
|------------|--------|---|
| error_code | String | Error code displayed after the API fails to be called.    |
| error_msg  | String | Error message displayed after the API fails to be called. |

## Example Requests

```
post https://{endpoint}/v4/projects/f3087a82b44744c29a1bd69ab6ada154/tasks/v90100010gmi4h0j/testcases/batch-query
{
  "page_no": 1,
  "page_size": 15,
  "results": [ ],
  "status": [ ],
  "version_uri": "v90200010aelu5om",
  "owners": [ ],
  "rank_ids": [ ]
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "value": [ {
    "uri": "v90100010gmi4sgs",
    "sort": 1,
    "owner": "",
    "stage": 1,
    "project_id": "407ac57de7ea44d28e47293a2b9cf15c",
    "task_uri": "v90100010gmi4h0j",
    "update_time": "2025-05-29 10:25:40",
    "updater_name": "sec_admin——nich",
    "updater": "2ce06fffb4634271a377c1cd7c429704",
    "case_uri": "v90410b5o5ce22a7",
    "is_available": 1,
    "test_case_name": "cx_2995",
    "test_case_number": "7417",
  }
]
```

```
"status_code": "7",
"status_name": "Completed",
"result_code": "1",
"result_name": "Failed",
"is_keyword": 0,
"rank_id": 2
}, {
  "uri": "v90110gmi4sgsf2e",
  "sort": 2,
  "owner": "",
  "stage": 1,
  "project_id": "407ac57de7ea44d28e47293a2b9cf15c",
  "task_uri": "v90100010gmi4h0j",
  "update_time": "2025-05-29 10:25:39",
  "updater_name": "sec_admin—nich",
  "updater": "2ce06fffb4634271a377c1cd7c429704",
  "case_uri": "v90200010gmhoo73",
  "is_available": 1,
  "test_case_name": "sdw",
  "test_case_number": "7421",
  "status_code": "0",
  "status_name": "New",
  "result_name": "Not executed",
  "is_keyword": 0,
  "rank_id": 2
}]
}
```

## Status Codes

| Status Code | Description           |
|-------------|-----------------------|
| 200         | OK                    |
| 400         | Bad Request           |
| 401         | Unauthorized          |
| 404         | Not Found             |
| 500         | Internal Server Error |

## Error Codes

See [Error Codes](#).

# 5 Actions Supported by Identity Policy-based Authorization

---

IAM provides system-defined identity policies to define typical cloud service permissions. You can also create custom identity policies using the actions supported by cloud services for more refined access control.

In addition to IAM, the [Organizations](#) service also provides [Service Control Policies \(SCPs\)](#) to set access control policies.

SCPs do not actually grant any permissions to an entity. They only set the permissions boundary for the entity. When SCPs are attached to an organizational unit (OU) or a member account, the SCPs do not directly grant permissions to that OU or member account. Instead, the SCPs only determine what permissions are available for that member account or those member accounts under that OU. The granted permissions can be applied only if they are allowed by the SCPs.

To learn more about how IAM is different from Organizations for access control, see [How IAM Is Different from Organizations for Access Control?](#)

This section describes the elements used by IAM custom identity policies and Organizations SCPs. The elements include actions, resources, and conditions.

- For details about how to use these elements to edit an IAM custom identity policy, see [Creating a Custom Identity Policy](#).
- For details about how to use these elements to edit a custom SCP, see [Creating an SCP](#).

## Actions

Actions are specific operations that are allowed or denied in an identity policy.

- The Access Level column describes how the action is classified (List, Read, or Write). This classification helps you understand the level of access that an action grants when you use it in an identity policy.
- The Resource Type column indicates whether the action supports resource-level permissions.
  - You can use a wildcard (\*) to indicate all resource types. If this column is empty (-), the action does not support resource-level permissions and you must specify all resources ("\*") in your identity policy statements.

- If this column includes a resource type, you must specify the URN in the Resource element of your identity policy statements.
- Required resources are marked with asterisks (\*) in the table. If you specify a resource in a statement using this action, then it must be of this type.

For details about the resource types defined by CodeArts TestPlan, see [Resources](#).

- The Condition Key column contains keys that you can specify in the Condition element of an identity policy statement.
  - If the Resource Type column has values for an action, the condition key takes effect only for the listed resource types.
  - If the Resource Type column is empty (-) for an action, the condition key takes effect for all resources that action supports.
  - If the Condition Key column is empty (-) for an action, the action does not support any condition keys.

For details about the condition keys defined by CodeArts TestPlan, see [Table 5-3](#).

- The Alias column lists the policy actions that are configured in identity policies. With these actions, you can use APIs for policy-based authorization. For details, see [Policies and Identity Policies](#).

The following table lists the actions that you can define in identity policy statements for CodeArts TestPlan.

**Table 5-1** Actions supported by CodeArts TestPlan

| Action                            | Description                            | Access Level | Resource Type (*: required) | Condition Key                              | Alias |
|-----------------------------------|--|--------------|-----------------------------|--|-------|
| codeartstestplan:testSuite:create | Grant permission to create test suite. | Write        | -                           | <a href="#">codeartstestplan:ProjectId</a> | -     |
| codeartstestplan:variable:get     | Grant permission to get variable.      | Read         | -                           | <a href="#">codeartstestplan:ProjectId</a> | -     |
| codeartstestplan:testCase:create  | Grant permission to create test case.  | Write        | -                           | <a href="#">codeartstestplan:ProjectId</a> | -     |
| codeartstestplan:testPlan:get     | Grant permission to get test plan.     | Read         | -                           | <a href="#">codeartstestplan:ProjectId</a> | -     |

| Action                           | Description                                | Access Level | Resource Type (*: required) | Condition Key              | Alias |
|----------------------------------|--|--------------|-----------------------------|----------------------------|-------|
| codeartstestplan:testPlan:create | Grant permission to create test plan.      | Write        | -                           | codeartstestplan:ProjectId | -     |
| codeartstestplan:testPlan:list   | Grant permission to create test plan list. | List         | -                           | codeartstestplan:ProjectId | -     |
| codeartstestplan:testSuite:get   | Grant permission to get test suit.         | Read         | -                           | codeartstestplan:ProjectId | -     |

Each API of CodeArts TestPlan usually supports one or more actions. [Table 5-2](#) lists the supported actions and dependencies.

**Table 5-2** Actions and dependencies supported by CodeArts TestPlan APIs

| API  | Action                            | Dependencies |
|--|-----------------------------------|--------------|
| <a href="#">POST /v1/projects/{project_id}/repository/testsuites</a>               | codeartstestplan:testSuite:create | -            |
| <a href="#">GET /v1/projects/{project_id}/environments</a>                         | codeartstestplan:variable:get     | -            |
| <a href="#">POST /v1/projects/{project_id}/plans/{plan_id}/testcases/batch-add</a> | codeartstestplan:testCase:create  | -            |
| <a href="#">GET /v1/projects/{project_id}/plans</a>                                | codeartstestplan:testPlan:get     | -            |
| <a href="#">GET /v1/projects/{project_id}/plans/{plan_id}/issues</a>               | codeartstestplan:testPlan:get     | -            |
| <a href="#">POST /v1/projects/{project_id}/plans</a>                               | codeartstestplan:testPlan:create  | -            |

| API  | Action                         | Dependencies |
|--|--------------------------------|--------------|
| <a href="#">GET /v1/projects/{project_id}/plans/{plan_id}/journals</a>       | codeartstestplan:testPlan:get  | -            |
| <a href="#">GET /v2/projects/{project_id}/plans</a>                          | codeartstestplan:testPlan:list | -            |
| <a href="#">POST /v4/{project_id}/tasks/{task_uri}/testcases/batch-query</a> | codeartstestplan:testSuite:get | -            |

## Resources

CodeArts TestPlan does not support resource-level authorization. To allow access to CodeArts TestPlan, use a wildcard (\*) in the Resource element of the identity policy, indicating that the identity policy will be applied to all resources.

## Conditions

CodeArts TestPlan does not support service-specific condition keys in identity policies. It can only use global condition keys applicable to all services. For details, see [Global Condition Keys](#).

**Table 5-3** Conditions

| Service-specific condition key | Type   | Single-value/multi-value | Description   |
|--------------------------------|--------|--------------------------|---|
| codeartstestplan:ProjectId     | string | Single-value             | Filter access permissions based on the CodeArts project ID model. |

# 6 Examples

---

## 6.1 User Plan Operations

### Scenario

This scenario is applicable to those who have created projects in CodeArts TestPlan and have created cases in their own projects. They can create different plans to manage their own cases.

The following procedure describes how to create a test plan and add cases to the plan.

### Prerequisites

You have created a project and created your own cases.

### Involved APIs

User plan operations include creating a plan under a project and adding test cases to a plan in batches. (To add test cases to a plan, you must have created test cases in advance.) The APIs for the following operations are involved:

- Creating a plan in a project: You can create your own test plan under the third-party test type in the project.
- Adding test cases in batches to a plan: After the plan is created, associate test cases with the plan.

### Procedure

**Step 1** Determine the user token that can be used to authenticate the calling of other APIs.

1. Query the user token. For details, see [Obtaining a User Token](#).
2. Obtain the value of **X-Subject-Token** in the response header.

**Step 2** Create a test plan.

- API information  
URL format: POST /v1/projects/{project\_id}/plans  
For details about API request parameters, see "Creating a Plan in a Project."
- Example request  
POST https://{endpoint}/v1/projects/{project\_id}/plans
  - Obtain the value of {endpoint} from [Endpoints](#).
  - {project\_id} uniquely identifies a project.Body:

```
{
  "name": "Name of a test plan",
  "assigned_id": "efdb403066474ab08836b9eeaaa23bca",
  "service_id_list": [ 0 ],
  "plan_cycle": {
    "start_date": "2020-03-04",
    "end_date": "2020-03-31"
  }
}
```
- Example response

```
{
  "plan_id": "efdb403066474ab08836b9eeaaa23bca",
  "error_code": "CLOUDTEST.000XXXXXX",
  "error_msg": "Failure cause: xxx"
}
```

### Step 3 Add a case to the test plan.

- API information  
URL format: POST /v1/projects/{project\_id}/plans/{plan\_id}/testcases/batch-add  
For details about API request parameters, see "Adding Test Cases in Batches to a Plan."
- Example request  
POST https://{endpoint}/v1/projects/{project\_id}/plans/{plan\_id}/testcases/batch-add
  - Obtain the value of {endpoint} from [Endpoints](#).
  - {project\_id} uniquely identifies a project.Body:

```
{
  "service_id": 13,
  "testcase_id_list": [ "efdb403066474ab08836b9eeaaa23bca",
    "251fca07b22f493692eb06b1754f07a8" ]
}
```
- Example response

```
{
  "error_code": "CLOUDTEST.000XXXXXX",
  "error_msg": "Failure cause: xxx",
  "error_detail": {
    "failed": [ {
      "error_code": "CLOUDTEST.000XXXXXX",
      "error_msg": "Failure cause: xxx",
      "testcase_id": "efdb403066474ab08836b9eeaaa23bca"
    }, {
      "error_code": "CLOUDTEST.000XXXXXX",
      "error_msg": "Failure cause: xxx",
      "testcase_id": "251fca07b22f493692eb06b1754f07a8"
    }
  ]
}
```

```
}  
}
```

----End

# 7 Appendix

---

## 7.1 Status Codes

**Table 7-1** Normal status codes

| Status Code | Description |
|-------------|-------------|
| 200         | OK          |
| 201         | Created     |

**Table 7-2** Abnormal status codes

| Status Code | Description           |
|-------------|-----------------------|
| 204         | No Content            |
| 400         | Bad Request           |
| 401         | Unauthorized          |
| 404         | Not Found             |
| 500         | Internal Server Error |

## 7.2 Error Codes

If an error occurs in API calling and no result is returned, you can locate the cause based on the error code of each API.

If an error occurs during API calling, HTTP status code 4xx or 5xx is returned. The returned message body contains the specific error code and error information.

If you fail to locate the cause of the error, contact customer service and provide the error code so that we can help you solve the problem as soon as possible.

## Error Response Body Format

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

```
{
  "error_code": "CLOUDTEST.0013024",
  "error_msg": "Not authorized to add cases."
}
```

In the response body, **error\_code** is an error code, and **error\_msg** provides information about 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 [Error Codes](#).

| Status Code | Error Code        | Error Message                                     | Description   | Solution   |
|-------------|-------------------|---|---|--|
| 400         | CLOUDTEST.0010005 | Inter-service communication issues.               | Inter-service communication issues.   | Contact customer service for troubleshooting.        |
| 400         | CLOUDTEST.0012002 | Invalid project ID.                               | The project ID is invalid.  | Check whether the project ID contains 32 characters. |
| 400         | CLOUDTEST.0013024 | Not authorized to add test cases of this type.    | The current user has not yet been authorized to add test cases of this type.    | Contact the administrator to grant permissions.      |
| 400         | CLOUDTEST.0013025 | Not authorized to query test cases of this type.  | The current user has not yet been authorized to query test cases of this type.  | Contact the administrator to grant permissions.      |
| 400         | CLOUDTEST.0013026 | Not authorized to update test cases of this type. | The current user has not yet been authorized to update test cases of this type. | Contact the administrator to grant permissions.      |

| Status Code | Error Code        | Error Message                              | Description   | Solution  |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0014000 | Empty requirement ID.                      | The requirement ID in the input parameters is empty.                | Contact customer service for troubleshooting.                     |
| 400         | CLOUDTEST.0014001 | Requirement not found in the project.      | The requirement cannot be found in the input project.               | Contact customer service for troubleshooting.                     |
| 400         | CLOUDTEST.0014003 | Too many test cases under the requirement. | The number of test cases under the requirement exceeds the maximum. | Add no more than 200 test cases in the requirement.               |
| 400         | CLOUDTEST.0015002 | Directory not found.                       | The directory in the input parameters cannot be found.              | Contact customer service for troubleshooting.                     |
| 400         | CLOUDTEST.0017000 | Invalid test case ID.                      | The test case ID is invalid.  | Check whether the test case ID contains 32 characters.            |
| 400         | CLOUDTEST.0017001 | Target test case not found.                | The target test case in the input parameters cannot be found.       | Contact customer service for troubleshooting.                     |
| 400         | CLOUDTEST.0017003 | Invalid test plan ID.                      | The test plan ID is invalid.  | Check whether the test plan ID contains 32 characters.            |
| 400         | CLOUDTEST.0017004 | Test step too long.                        | In the input parameters, the test step is too long.                 | Check whether the length of the test step exceeds 500 characters. |

| Status Code | Error Code        | Error Message                    | Description   | Solution   |
|-------------|-------------------|----------------------------------|---|--|
| 400         | CLOUDTEST.0017005 | Expected result too long.        | In the input parameters, the expected result is too long.           | Check whether the length of the expected step exceeds 500 characters.        |
| 400         | CLOUDTEST.0017006 | Sprint not found.                | The sprint in the input parameters cannot be found.                 | Contact customer service for troubleshooting.                                |
| 400         | CLOUDTEST.0017009 | Invalid test case execution ID.  | The test case execution ID is invalid.                              | Check whether the test case execution ID is within 32 characters.            |
| 400         | CLOUDTEST.0017011 | Invalid case name.               | In the input parameters, the case name contains invalid characters. | Check the case name and delete invalid characters.                           |
| 400         | CLOUDTEST.0017012 | Invalid service types.           | The service types are invalid.                                      | Check whether the length of the service type list in the request exceeds 10. |
| 400         | CLOUDTEST.0017013 | Test case prerequisite too long. | In the input parameters, the test case prerequisite is too long.    | Check whether the test case prerequisite exceeds 500 characters.             |
| 400         | CLOUDTEST.0017014 | Case description too long.       | In the input parameters, the case description is too long.          | Check whether the case description exceeds 500 characters.                   |
| 400         | CLOUDTEST.0017015 | Case ID already in use.          | The case ID in the input parameters has been used by another case.  | Change the case ID.  |

| Status Code | Error Code        | Error Message   | Description  | Solution   |
|-------------|-------------------|---|--|--|
| 400         | CLOUDTEST.0017016 | Max. 50,000 cases in a project.                           | Max. 50,000 cases in a project. Submit a service ticket to increase the quota. | Check whether the number of cases exceeds the upper limit. Delete some cases.  |
| 400         | CLOUDTEST.0017017 | Empty case ID.  | The case ID in the input parameters is empty.                                  | Enter a case ID.   |
| 400         | CLOUDTEST.0017019 | Invalid duration.   | The duration is invalid.   | Check whether the value is an integer.   |
| 400         | CLOUDTEST.0017020 | Some cases failed in batch execution.                     | Some cases failed to execute during the batch execution.                       | Check whether the design of the failed cases complies with the requirements. If no problem is found, contact customer service. |
| 400         | CLOUDTEST.0017021 | Some cases failed in batch update.                        | Some cases failed to update during the batch update.                           | Check whether the design of the failed cases complies with the requirements. If no problem is found, contact customer service. |
| 400         | CLOUDTEST.0017032 | Invalid processor ID.                                     | The processor ID is invalid.   | Check whether the processor ID contains 32 characters.   |
| 400         | CLOUDTEST.0017036 | Delete case failed. Abnormal inter-service communication. | Failed to delete the case. Inter-service communication may be abnormal.        | Contact customer service for troubleshooting.  |
| 400         | CLOUDTEST.0017038 | Service type invalid or not found.                        | The service type is invalid or not found.                                      | Check whether the service type is correct.   |

| Status Code | Error Code        | Error Message                                | Description   | Solution  |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0017051 | Invalid test case version.                   | The version of test case in the input parameters is invalid.  | Contact customer service for troubleshooting.                             |
| 400         | CLOUDTEST.0017054 | Invalid case level.                          | The case level in the input parameters is invalid.            | Contact customer service for troubleshooting.                             |
| 400         | CLOUDTEST.0017055 | Too many cases for batch execution.          | Too many cases to be executed in batches.                     | Execute no more than 50 cases in a batch.                                 |
| 400         | CLOUDTEST.0017056 | Too many cases for batch update.             | Too many cases to be updated in batches.                      | Update no more than 50 cases in a batch.                                  |
| 400         | CLOUDTEST.0017057 | Case not found in the project or plan.       | The case cannot be found in the project or plan.              | Contact customer service for troubleshooting.                             |
| 400         | CLOUDTEST.0017058 | Invalid test case result.                    | The test case result is invalid.                              | Check whether the value is <b>0</b> , <b>1</b> , <b>5</b> , or <b>6</b> . |
| 400         | CLOUDTEST.0018001 | Tag too long.                                | In the input parameters, the tag is too long.                 | Use no more than 25 characters for the tag.                               |
| 400         | CLOUDTEST.0018002 | Too many tags associated with the test case. | Too many tags associated with the test case.                  | Associate the test case with no more than 30 tags.                        |
| 400         | CLOUDTEST.0018004 | Too many tags added to the project.          | Too many tags added to the project.                           | Add no more than 10,000 tags to the project.                              |
| 400         | CLOUDTEST.0018005 | Invalid tag name value.                      | The value of the tag name in the input parameters is invalid. | Contact customer service for troubleshooting.                             |

| Status Code | Error Code        | Error Message                                | Description   | Solution   |
|-------------|-------------------|--|---|--|
| 400         | CLOUDTEST.0030001 | Invalid case IDs for batch operation.        | The case IDs for batch operation are invalid.                       | Check whether the number of test cases for batch operation exceeds 50 and whether the ID of a single test case contains 32 characters. |
| 400         | CLOUDTEST.0030002 | Invalid service name.                        | The service name is invalid.  | Check whether the length of the service name exceeds 16 characters.  |
| 400         | CLOUDTEST.0030004 | Invalid region value.                        | The region value in the input parameters is invalid.                | Contact customer service for troubleshooting.  |
| 400         | CLOUDTEST.0030007 | Invalid introduction value.                  | The introduction value in the input parameters is invalid.          | Contact customer service for troubleshooting.  |
| 400         | CLOUDTEST.0030037 | Invalid registration parameters for parsing. | Invalid registration parameters for parsing.                        | Check whether the input parameters are valid.  |
| 400         | CLOUDTEST.0030038 | Invalid input parameters.                    | The input parameters are invalid.                                   | Check whether the input parameters are valid.  |
| 400         | CLOUDTEST.0030040 | Invalid value of deletion frequency.         | The value of deletion frequency in the input parameters is invalid. | Contact customer service for troubleshooting.  |
| 400         | CLOUDTEST.0030041 | Invalid value of deletion rule.              | The value of the deletion rule in the input parameters is invalid.  | Contact customer service for troubleshooting.  |

| Status Code | Error Code        | Error Message                          | Description   | Solution  |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0030043 | Invalid domain name.                   | The domain name is invalid.   | Starts the domain name with https or http, and use no more than 128 characters. |
| 400         | CLOUDTEST.0030044 | Invalid value of interconnection mode. | The value of interconnection mode in the input parameters is invalid. | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0030045 | Invalid value of service type.         | The value of service type in the input parameters is invalid.         | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0030047 | Invalid value of tenant.               | The value of tenant in the input parameters is invalid.               | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0040008 | Empty end time.                        | The end time in the input parameters is empty.                        | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0040011 | Invalid value of test case level.      | The value of test case level in the input parameters is invalid.      | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0040012 | Invalid module value.                  | The value of module in the input parameters is invalid.               | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0040014 | Invalid test case name length.         | The length of the test case name is invalid.                          | Use 3 to 128 characters.  |
| 400         | CLOUDTEST.0060005 | Invalid start time.                    | The start time is invalid.  | Check whether the input parameter is a timestamp.                               |

| Status Code | Error Code        | Error Message                                    | Description  | Solution  |
|-------------|-------------------|--|--|---|
| 400         | CLOUDTEST.0060006 | Invalid end time.                                | The end time is invalid.   | Check whether the input parameter is a timestamp.                                       |
| 400         | CLOUDTEST.0060010 | Invalid format of planned start time.            | The format of the planned start time is invalid.                               | Check whether the time format is <i>XXXX-XX-XX</i> .                                    |
| 400         | CLOUDTEST.0060011 | Invalid format of planned end time.              | The format of the planned end time is invalid.                                 | Check whether the time format is <i>XXXX-XX-XX</i> .                                    |
| 400         | CLOUDTEST.0070002 | Case information not found in test plan.         | The case information in the input test plan parameters cannot be found.        | Contact customer service for troubleshooting.   |
| 400         | CLOUDTEST.0070003 | Invalid test plan values.                        | The test plan values in the input parameters are invalid.                      | Contact customer service for troubleshooting.   |
| 400         | CLOUDTEST.0070010 | Invalid test plan name length.                   | The length of the test plan name is invalid.                                   | Use no more than 128 characters and do not use invalid symbols.                         |
| 400         | CLOUDTEST.0088006 | Empty value of execution result.                 | The value of execution result in the input parameters is empty.                | Contact customer service for troubleshooting.   |
| 401         | CLOUDTEST.0013013 | Not authorized to delete this type of test case. | The current user has not yet been authorized to delete this type of test case. | Check whether the current user has the operation permissions on this type of test case. |

| Status Code | Error Code        | Error Message   | Description   | Solution  |
|-------------|-------------------|---|---|---|
| 401         | CLOUDTEST.0030003 | Insufficient permissions.   | The current user does not have sufficient permissions.                      | Use the administrator account.  |
| 401         | CLOUDTEST.0050001 | Token expired.  | The token expired.  | Check whether the latest token is used for calling the API.                             |
| 500         | CLOUDTEST.0013001 | Not authorized to operate the test type.                                  | The current user has not yet been authorized to operate the test type.      | Select other test cases that you are authorized to add to the plan.                     |
| 500         | CLOUDTEST.0013002 | Not authorized to operate certain test types in the plan.                 | The current user has not yet been authorized to operate certain test types. | Check whether the user has permissions for all service types in the request.            |
| 500         | CLOUDTEST.0017022 | Execute case failed.  | Failed to execute the case.   | Check whether the case execution information in the request body is compliant.          |
| 500         | CLOUDTEST.0017023 | Update case status failed.  | Failed to update the case status.   | Check whether the update information of case results in the request body is compliant.  |
| 500         | CLOUDTEST.0017024 | All cases that the execution request involves have already been executed. | All cases that the execution request involves have already been executed.   | Check whether the request body involves the test cases that have already been executed. |

| Status Code | Error Code        | Error Message   | Description   | Solution   |
|-------------|-------------------|---|---|--|
| 500         | CLOUDTEST.0017025 | All cases that the update request involves already have the required results. | All cases that the update request involves already have the required results. | Check whether the request body involves the test cases that already have the required results. |
| 500         | CLOUDTEST.0017026 | Some cases that the request involves have already been executed.              | Some cases that the request involves have already been executed.              | Check whether the request body involves the test cases that have already been executed.        |
| 500         | CLOUDTEST.0017027 | Some cases that the request involves already have the required results.       | Some cases that the request involves already have the required results.       | Check whether the request body involves the test cases that already have the required results. |
| 500         | CLOUDTEST.0017028 | A case that the update request involves has already been executed.            | A case that the update request involves has already been executed.            | Check whether the test case has already been executed.   |
| 500         | CLOUDTEST.0017029 | A case that the request involves already has the required results.            | A case that the request involves already has the required results.            | Check whether the test case already has the required results.                                  |
| 500         | CLOUDTEST.0030022 | Not authorized.   | The user has not yet been authorized to perform this operation.               | Use the primary account to perform this operation.   |
| 500         | CLOUDTEST.0030028 | Service name already registered.  | The service name has already been registered.                                 | Use another name.  |
| 500         | CLOUDTEST.0030046 | Service already deleted.  | The service has already been deleted.   | The service has already been deleted.  |

| Status Code | Error Code         | Error Message   | Description  | Solution   |
|-------------|--------------------|---|--|--|
| 500         | CLOUDTEST.00040003 | Start time later than end time.   | The start time is later than the end time.                                       | Set a start time earlier than the end time.          |
| 500         | CLOUDTEST.00050000 | System busy due to an internal exception.                                 | The system is busy due to an internal exception.                                 | Try again later.                                     |
| 500         | CLOUDTEST.00070008 | Invalid processor.  | The processor is invalid.  | Change the processor to another role.                |
| 500         | CLOUDTEST.00070009 | Test plan name already in use.  | The test plan name is already in use.  | Use another name.                                    |
| 400         | CLOUDTEST.00010005 | Inter-service communication issues.                                       | Inter-service communication issues.  | Contact customer service for troubleshooting.        |
| 400         | CLOUDTEST.00012002 | Invalid project UUID. Use only letters and digits (32 characters).        | The project UUID is invalid. Use only letters and digits (32 characters).        | Check whether the project ID contains 32 characters. |
| 400         | CLOUDTEST.00012005 | Invalid version URI. Use only letters and digits. (11 to 34 characters)   | The version URI is invalid. Use only letters and digits. (11 to 34 characters)   | Check whether the input parameters are valid.        |
| 400         | CLOUDTEST.00012006 | Invalid test plan URI. Use only letters and digits. (11 to 34 characters) | The test plan URI is invalid. Use only letters and digits. (11 to 34 characters) | Check whether the input parameters are valid.        |
| 400         | CLOUDTEST.00012010 | Invalid service type. Use a number from 10 to 99,999.                     | The service type is invalid. Use a number from 10 to 99,999.                     | Check whether the input parameters are valid.        |

| Status Code | Error Code        | Error Message  | Description   | Solution  |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0012011 | Invalid case URI. Use only letters and digits. (11 to 34 characters) | The case URI is invalid. Use only letters and digits. (11 to 34 characters)     | Check whether the input parameters are valid.   |
| 400         | CLOUDTEST.0013024 | Not authorized to add test cases of this type.                       | The current user has not yet been authorized to add test cases of this type.    | Contact the administrator to grant permissions. |
| 400         | CLOUDTEST.0013025 | Not authorized to query test cases of this type.                     | The current user has not yet been authorized to query test cases of this type.  | Contact the administrator to grant permissions. |
| 400         | CLOUDTEST.0013026 | Not authorized to update test cases of this type.                    | The current user has not yet been authorized to update test cases of this type. | Contact the administrator to grant permissions. |
| 400         | CLOUDTEST.0014000 | Empty requirement ID.  | The requirement ID in the input parameters is empty.                            | Contact customer service for troubleshooting.   |
| 400         | CLOUDTEST.0014001 | Requirement not found in the project.                                | The input requirement cannot be found in the input project.                     | Contact customer service for troubleshooting.   |
| 400         | CLOUDTEST.0014002 | Invalid requirement ID. Use a number with 1 to 32 digits.            | The requirement ID is invalid. Use a number with 1 to 32 digits.                | Check whether the input parameters are valid.   |

| Status Code | Error Code        | Error Message  | Description   | Solution  |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0014003 | Too many test cases under the requirement.                           | The number of test cases under the requirement exceeds the maximum.         | Add no more than 200 test cases in the requirement.               |
| 400         | CLOUDTEST.0014013 | Invalid work item status ID.   | The work item status ID is invalid.   | Contact customer service for troubleshooting.                     |
| 400         | CLOUDTEST.0015002 | Directory not found.   | The directory in the input parameters cannot be found.                      | Contact customer service for troubleshooting.                     |
| 400         | CLOUDTEST.0017000 | Invalid case URI. Use only letters and digits. (11 to 34 characters) | The case URI is invalid. Use only letters and digits. (11 to 34 characters) | Check whether the input parameters are valid.                     |
| 400         | CLOUDTEST.0017001 | Target test case not found.  | The target test case in the input parameters cannot be found.               | Contact customer service for troubleshooting.                     |
| 400         | CLOUDTEST.0017003 | Invalid test plan ID.  | The test plan ID is invalid.  | Check whether the test plan ID contains 32 characters.            |
| 400         | CLOUDTEST.0017004 | Steps too long. Max. 500 characters.                                 | The steps are too long. Max. 500 characters.                                | Check whether the input parameters are valid.                     |
| 400         | CLOUDTEST.0017005 | Expected result too long.  | In the input parameters, the expected result is too long.                   | Check whether the length of expected step exceeds 500 characters. |

| Status Code | Error Code        | Error Message  | Description   | Solution  |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0017006 | Invalid sprint ID. Use only letters, digits, commas (,), and hyphens (-). (Max. 32 characters)                                       | The sprint ID is invalid. Use only letters, digits, commas (,), and hyphens (-). (Max. 32 characters)                                       | Check whether the input parameters are valid.                     |
| 400         | CLOUDTEST.0017008 | Steps and expected result too long. Max. total length: 5,000 characters.   | The total length of steps and expected results exceeds 5,000 characters.  | Check whether the input parameters are valid.                     |
| 400         | CLOUDTEST.0017009 | Invalid test case execution ID.  | The test case execution ID is invalid.  | Check whether the test case execution ID is within 32 characters. |
| 400         | CLOUDTEST.0017011 | Invalid case name. Use only letters, digits, and special characters (-_/*'^^~::~(){}=+,\$...!@#%\$. []?'"—<>). (3 to 128 characters) | The case name is invalid. Use only letters, digits, and special characters (-_/*'^^~::~(){}=+,\$...!@#%\$. []?'"—<>). (3 to 128 characters) | Check whether the input parameters are valid.                     |
| 400         | CLOUDTEST.0017012 | Invalid service types.   | The service types are invalid.  | Check whether the input parameters are valid.                     |
| 400         | CLOUDTEST.0017013 | Prerequisite too long. Max. 500 characters.  | The length of prerequisite exceeds 500 characters.  | Check whether the input parameters are valid.                     |
| 400         | CLOUDTEST.0017014 | Case description too long. Max. 500 characters.  | The length of case description exceeds 500 characters.  | Check whether the input parameters are valid.                     |

| Status Code | Error Code        | Error Message  | Description  | Solution   |
|-------------|-------------------|--|--|--|
| 400         | CLOUDTEST.0017015 | Case ID already in use.  | The case ID in the input parameters has been used by another case.             | Use another case ID.   |
| 400         | CLOUDTEST.0017016 | Max. 50,000 cases in a project. Submit a service ticket to increase the quota. | Max. 50,000 cases in a project. Submit a service ticket to increase the quota. | Check whether the number of cases exceeds the upper limit. Delete some cases or submit a service ticket to increase the quota. |
| 400         | CLOUDTEST.0017017 | Empty case ID.   | The case ID in the input parameters is empty.                                  | Enter a case ID.   |
| 400         | CLOUDTEST.0017019 | Invalid duration.  | The duration is invalid.   | Check whether the value is an integer.   |
| 400         | CLOUDTEST.0017020 | Some cases failed in batch execution.  | Some cases failed to execute during the batch execution.                       | Check whether the design of the failed cases complies with the requirements. If no problem is found, contact customer service. |
| 400         | CLOUDTEST.0017021 | Some cases failed in batch update.   | Some cases failed to update during the batch update.                           | Check whether the design of the failed cases complies with the requirements. If no problem is found, contact customer service. |

| Status Code | Error Code        | Error Message   | Description  | Solution                                      |
|-------------|-------------------|---|--|---|
| 400         | CLOUDTEST.0017032 | Invalid processor ID. Use only letters, digits, commas (,), and underscores (_). (Max. 32 characters) | The processor ID is invalid. Use only letters, digits, commas (,), and underscores (_). (Max. 32 characters) | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0017036 | Delete case failed. Abnormal inter-service communication.   | Failed to delete the case. Inter-service communication may be abnormal.                                      | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0017038 | Service type invalid or not found.  | The service type is invalid or not found.  | Check whether the service type is correct.    |
| 400         | CLOUDTEST.0017051 | Invalid test case version.  | The version of test case in the input parameters is invalid.   | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0017054 | Invalid case level. Must be: <b>0, 1, 2, 3, or 4.</b>   | The case level is invalid. It must be: <b>0, 1, 2, 3, or 4.</b>  | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0017055 | Too many cases for batch execution.   | Too many cases to be executed in batches.  | Execute no more than 50 cases in a batch.     |
| 400         | CLOUDTEST.0017056 | Too many cases for batch update.  | Too many cases to be updated in batches.   | Update no more than 50 cases in a batch.      |
| 400         | CLOUDTEST.0017057 | Case not found in the project or plan.  | The case cannot be found in the project or plan.   | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0017058 | Invalid test case result.   | The test case result is invalid.   | The value must be <b>0, 1, 5, or 6.</b>       |

| Status Code | Error Code        | Error Message  | Description  | Solution   |
|-------------|-------------------|--|--|--|
| 400         | CLOUDTEST.0017059 | Invalid test case result.  | The test case result is invalid.   | Check whether the input parameters are valid.      |
| 400         | CLOUDTEST.0017060 | Invalid execution ID.  | The execution ID is invalid.   | Check whether the input parameters are valid.      |
| 400         | CLOUDTEST.0017061 | Invalid case execution duration. Must be a non-negative integer.   | The case execution duration is invalid. It must be a non-negative integer.   | Check whether the input parameters are valid.      |
| 400         | CLOUDTEST.0017062 | Invalid end time. Must be a positive integer of 13 to 15 digits.   | The end time is invalid. It must be a positive integer of 13 to 15 digits.   | Check whether the input parameters are valid.      |
| 400         | CLOUDTEST.0017063 | Invalid description. Max. 2,000 characters.                        | The description is invalid. Max. 2,000 characters.                           | Check whether the input parameters are valid.      |
| 400         | CLOUDTEST.0017065 | Invalid start time. Must be a positive integer of 13 to 15 digits. | The start time is invalid. It must be a positive integer of 13 to 15 digits. | Check whether the input parameters are valid.      |
| 400         | CLOUDTEST.0018001 | Tag name too long. Max. 25 characters.                             | The tag name is too long. Max. 25 characters.                                | Check whether the input parameters are valid.      |
| 400         | CLOUDTEST.0018002 | Too many tags associated with the test case.                       | Too many tags associated with the test case.                                 | Associate the test case with no more than 30 tags. |
| 400         | CLOUDTEST.0018004 | Too many tags added to the project.                                | Too many tags added to the project.  | Max. 10,000 tags per project.                      |

| Status Code | Error Code        | Error Message   | Description  | Solution   |
|-------------|-------------------|---|--|--|
| 400         | CLOUDTEST.0018005 | Invalid tag name value.   | The value of the tag name in the input parameters is invalid.  | Contact customer service for troubleshooting.  |
| 400         | CLOUDTEST.0020029 | Invalid case URI or too many test cases (Max. 50). Use only letters and digits (11 to 34 characters). | The case URI is invalid or there are more than 50 test cases. Use only letters and digits (11 to 34 characters). | Check whether the input parameters are valid.  |
| 400         | CLOUDTEST.0030001 | Invalid case IDs for batch operation.   | The case IDs for batch operation are invalid.  | Check whether the number of test cases for batch operation exceeds 50 and whether the ID of a single test case contains 32 characters. |
| 400         | CLOUDTEST.0030002 | Invalid service name.   | The service name is invalid.   | Check whether the length of the service name exceeds 16 characters.  |
| 400         | CLOUDTEST.0030004 | Invalid region value.   | The region value in the input parameters is invalid.   | Contact customer service for troubleshooting.  |
| 400         | CLOUDTEST.0030007 | Invalid introduction value.   | The introduction value in the input parameters is invalid.   | Contact customer service for troubleshooting.  |
| 400         | CLOUDTEST.0030037 | Invalid registration parameters for parsing.  | The registration parameters for parsing are invalid.   | Check whether the input parameters are valid.  |

| Status Code | Error Code        | Error Message                          | Description   | Solution  |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0030038 | Invalid input parameters.              | The input parameters are invalid.                                     | Check whether the input parameters are valid.                                   |
| 400         | CLOUDTEST.0030040 | Invalid value of deletion frequency.   | The value of deletion frequency in the input parameters is invalid.   | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0030041 | Invalid value of the deletion rule.    | The value of the deletion rule in the input parameters is invalid.    | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0030043 | Invalid domain name.                   | The domain name is invalid.   | Starts the domain name with https or http, and use no more than 128 characters. |
| 400         | CLOUDTEST.0030044 | Invalid value of interconnection mode. | The value of interconnection mode in the input parameters is invalid. | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0030045 | Invalid service type value.            | The value of service type in the input parameters is invalid.         | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0030047 | Invalid tenant value.                  | The value of tenant in the input parameters is invalid.               | Contact customer service for troubleshooting.                                   |
| 400         | CLOUDTEST.0040001 | Invalid parameter format.              | The parameter format is invalid.                                      | Contact customer service for troubleshooting.                                   |

| Status Code | Error Code        | Error Message  | Description   | Solution                                      |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0040008 | Empty end time.  | The end time in the input parameters is empty.  | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0040011 | Invalid value of the expected result.  | The value of the expected result in the input parameters is invalid.  | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0040012 | Invalid module ID. Start with a hyphen (-), and use only letters, digits, commas (,), and hyphens in the remaining part (32 characters). | The module ID is invalid. It must start with a hyphen (-), and use only letters, digits, commas (,), and hyphens in the remaining part (32 characters). | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0040013 | Invalid report dimension.  | The report dimension is invalid.  | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0040014 | Invalid analysis dimension.  | The analysis dimension is invalid.  | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0040015 | Invalid comparison dimension.  | The comparison dimension is invalid.  | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0040016 | Invalid creator ID. Use only digits, letters, and underscores (_). (1 to 32 characters)  | The creator ID is invalid. Use only digits, letters, and underscores (_). (1 to 32 characters)  | Check whether the input parameters are valid. |

| Status Code | Error Code        | Error Message   | Description  | Solution  |
|-------------|-------------------|---|--|---|
| 400         | CLOUDTEST.0040017 | Invalid owner ID. Use only digits, letters, and underscores (_). (1 to 32 characters) | The owner ID is invalid. Use only digits, letters, and underscores (_). (1 to 32 characters) | Check whether the input parameters are valid.     |
| 400         | CLOUDTEST.0040018 | Invalid filter.   | The filter is invalid.   | Contact customer service for troubleshooting.     |
| 400         | CLOUDTEST.0040020 | Expected result too long. Max. 500 characters (after rich text processing).           | The length of expected result exceeds 500 characters. (After rich text processing)           | Check whether the input parameters are valid.     |
| 400         | CLOUDTEST.0060001 | Invalid pagination parameter. Max. value: 100   | The pagination parameter is invalid. Max. 100 records.                                       | Check whether the input parameters are valid.     |
| 400         | CLOUDTEST.0060002 | Keyword is too long. See suggestions.   | The keyword length exceeds the limit. See the handling suggestions.                          | Check whether the input parameters are valid.     |
| 400         | CLOUDTEST.0060005 | Invalid pagination offset. Max. 2,000,000.  | The pagination offset is invalid. Max. 2,000,000 records.                                    | Check whether the input parameters are valid.     |
| 400         | CLOUDTEST.0060006 | Invalid end time.   | The end time is invalid.   | Check whether the input parameter is a timestamp. |

| Status Code | Error Code        | Error Message   | Description  | Solution                                      |
|-------------|-------------------|---|--|---|
| 400         | CLOUDTEST.0060008 | Invalid version. Use only letters, digits, periods (.), em dashes (—), hyphens (-), and underscores (_). (1 to 64 characters) | The version is invalid. Use only letters, digits, periods (.), em dashes (—), hyphens (-), and underscores (_). (1 to 64 characters) | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0060010 | Invalid planned start time. Must be <i>YYYY-MM-DD</i> .   | The planned start time is invalid. It must be <i>YYYY-MM-DD</i> .  | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0060011 | Invalid planned end time. Must be <i>YYYY-MM-DD</i> .   | The planned end time is invalid. It must be <i>YYYY-MM-DD</i> .  | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0060012 | Invalid start offset or number of entries displayed on each page.   | In the input parameters, the start offset or the number of entries displayed on each page is invalid.                                | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0070002 | Invalid stage parameter included in the plan.   | The stage parameter included in the plan is invalid.   | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0070003 | Invalid stage information of test plan.   | The stage information of the test plan in the input parameters is invalid.   | Contact customer service for troubleshooting. |

| Status Code | Error Code        | Error Message  | Description   | Solution                                      |
|-------------|-------------------|--|---|---|
| 400         | CLOUDTEST.0070004 | Invalid branch URI. Use only letters and digits. (11 to 34 characters)   | The branch URI is invalid. Use only letters and digits. (11 to 34 characters)   | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0070010 | Test plan name missing or invalid. Use a regular expression and include only letters, digits, underscores (_), and special characters. (Max. 128 characters) | The test plan name is missing or invalid. Use a regular expression and include only letters, digits, underscores (_), and special characters. (Max. 128 characters) | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0070018 | Test case not found. Check if it was deleted.  | The test case cannot be found. Check if it was deleted.   | Check whether the input parameters are valid. |
| 400         | CLOUDTEST.0070025 | Verify domain name of third-party service failed.  | Failed to verify the third-party service domain name.   | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0070026 | Verify third-party service type failed.  | Failed to verify the third-party service type.  | Contact customer service for troubleshooting. |
| 400         | CLOUDTEST.0088006 | Empty value of execution result.   | The value of execution result in the input parameters is empty.   | Contact customer service for troubleshooting. |

| Status Code | Error Code             | Error Message   | Description   | Solution   |
|-------------|------------------------|---|---|--|
| 400         | CLOUDTEST.4<br>3040024 | Invalid parameter.  | The parameter is invalid.   | Check whether the input parameter is invalid.        |
| 400         | CLOUDTEST.4<br>3040025 | System busy due to an internal exception.                         | The system is busy due to an internal exception.                  | Contact customer service for troubleshooting.        |
| 400         | CLOUDTEST.4<br>3040030 | Project not found.  | The project cannot be found.                                      | Check whether the project exists.                    |
| 400         | CLOUDTEST.4<br>3040091 | Call third-party service failed.                                  | Failed to call the third-party service.                           | Contact customer service for troubleshooting.        |
| 400         | CLOUDTEST.4<br>3040099 | Call third-party service failed.                                  | Failed to call the third-party service.                           | Contact customer service for troubleshooting.        |
| 400         | CLOUDTEST.4<br>3400102 | Incorrect file type.  | The file type is incorrect.                                       | Use the YAML or JSON format.                         |
| 400         | CLOUDTEST.4<br>3400103 | Max size: 1 MB  | The file size exceeds 1 MB.                                       | Use a file not more than 1 MB.                       |
| 400         | CLOUDTEST.4<br>3400128 | Failed to call the third-party service to obtain the private key. | Failed to call the third-party service to obtain the private key. | Contact customer service for troubleshooting.        |
| 400         | CLOUDTEST.4<br>3400138 | Account error.  | There are problems with the account.                              | Check whether the account is in arrears.             |
| 400         | CLOUDTEST.4<br>3400139 | Account error.  | There are problems with the account.                              | Check whether the account is in arrears.             |
| 400         | CLOUDTEST.4<br>3400161 | Invalid request body structure.                                   | The request body structure is invalid.                            | Check whether the request body structure is invalid. |
| 400         | CLOUDTEST.4<br>3400171 | Invalid request parameter.  | The request parameters are invalid.                               | Check whether the request parameters are invalid.    |

| Status Code | Error Code             | Error Message   | Description   | Solution  |
|-------------|------------------------|---|---|---|
| 400         | CLOUDTEST.4<br>3400207 | Path not found.   | The path cannot be found.   | Check whether the path is correct.  |
| 400         | CLOUDTEST.4<br>3400210 | Insufficient permissions.   | The user does not have sufficient permissions.                                      | Check the user permissions in the current project.  |
| 400         | CLOUDTEST.4<br>3400218 | System busy due to an internal exception.   | The system is busy due to an internal exception.                                    | Contact customer service for troubleshooting.   |
| 400         | CLOUDTEST.4<br>3400225 | The script template file to import does not comply with the Swagger specifications. | The script template file to import does not comply with the Swagger specifications. | Import a script template file compliant with the Swagger specifications.  |
| 400         | CLOUDTEST.4<br>3400248 | Invalid test suite name length.   | The length of the test suite name is invalid.                                       | Check whether the test suite name contains 3 to 128 characters.   |
| 400         | CLOUDTEST.4<br>3400253 | Invalid request parameters.   | The request contains invalid parameters.  | Check whether the parameters in the API request are valid.  |
| 400         | CLOUDTEST.4<br>3400323 | Import YAML script failed.  | Failed to automatically generate a test suite by importing the YAML script.         | Check whether the API is defined in the YAML file. If the API is defined correctly, contact the customer service. |
| 400         | CLOUDTEST.4<br>3400324 | Too many cases in the YAML file to import. Max. 500.                                | The YAML file to import has more than 500 cases.                                    | Include no more than 500 cases in the YAML file to import.  |
| 400         | CLOUDTEST.4<br>3400333 | Invalid project ID.   | The project ID is invalid.  | Check whether the project ID contains 32 characters.  |

| Status Code | Error Code             | Error Message                                     | Description  | Solution  |
|-------------|------------------------|---|--|---|
| 400         | CLOUDTEST.4<br>3400334 | Invalid repository ID.                            | The repository ID is invalid.  | Check whether the repository ID contains 32 characters.                                     |
| 400         | CLOUDTEST.4<br>3400335 | Invalid file path length.                         | The file path length is invalid.   | Check whether the file path contains 6 to 128 characters.                                   |
| 400         | CLOUDTEST.4<br>3400336 | Invalid length of repository branch name.         | The length of repository branch name is invalid.                               | Check whether the repository branch name contains 3 to 100 characters.                      |
| 400         | CLOUDTEST.4<br>3400337 | Invalid start offset of pagination.               | The start offset of the pagination is invalid.                                 | Check whether the start offset of pagination is a pure number from 0 to 999.                |
| 400         | CLOUDTEST.4<br>3400338 | Invalid number of records displayed on each page. | The number of records displayed on each page is invalid.                       | Check whether the number of records displayed on each page is a pure number from 1 and 200. |
| 401         | CLOUDTEST.0<br>0013013 | Not authorized to delete this type of test case.  | The current user has not yet been authorized to delete this type of test case. | Check whether the current user has the operation permissions on this type of test case.     |
| 401         | CLOUDTEST.0<br>0030003 | Insufficient permissions.                         | The current user does not have sufficient permissions.                         | Use the administrator account.  |
| 401         | CLOUDTEST.0<br>0050001 | Token expired.                                    | The token expired.   | Check whether the latest token is used for calling the API.                                 |

| Status Code | Error Code        | Error Message   | Description   | Solution   |
|-------------|-------------------|---|---|--|
| 500         | CLOUDTEST.0013001 | Not authorized to operate the test type.                                      | The current user does not have the permission to operate the test type.       | Select other test cases that you are authorized to add to the plan.                            |
| 500         | CLOUDTEST.0013002 | Not authorized to operate certain test types in the plan.                     | The current user has not yet been authorized for certain test types.          | Check whether the user has permissions for all service types in the request.                   |
| 500         | CLOUDTEST.0017022 | Execute case failed.  | Failed to execute the case.   | Check whether the case execution information in the request body is compliant.                 |
| 500         | CLOUDTEST.0017023 | Update case status failed.  | Failed to update the case status.   | Check whether the update information of case results in the request body is compliant.         |
| 500         | CLOUDTEST.0017024 | All cases that the execution request involves have already been executed.     | All cases that the execution request involves have already been executed.     | Check whether the request body involves the test cases that have already been executed.        |
| 500         | CLOUDTEST.0017025 | All cases that the update request involves already have the required results. | All cases that the update request involves already have the required results. | Check whether the request body involves the test cases that already have the required results. |
| 500         | CLOUDTEST.0017026 | Some cases that the request involves have already been executed.              | Some cases that the request involves have already been executed.              | Check whether the request body involves the test cases that have already been executed.        |

| Status Code | Error Code        | Error Message   | Description   | Solution   |
|-------------|-------------------|---|---|--|
| 500         | CLOUDTEST.0017027 | Some cases that the request involves already have the required results. | Some cases that the request involves already have the required results. | Check whether the request body involves the test cases that already have the required results. |
| 500         | CLOUDTEST.0017028 | A case that the update request involves has already been executed.      | A case that the update request involves has already been executed.      | Check whether the test case has already been executed.   |
| 500         | CLOUDTEST.0017029 | A case that the request involves already has the required results.      | A case that the request involves already has the required results.      | Check whether the test case already has the required results.                                  |
| 500         | CLOUDTEST.0030022 | Not authorized.   | The user has not yet been authorized to perform this operation.         | Use the primary account to perform this operation.   |
| 500         | CLOUDTEST.0030028 | Service name already registered.  | The service name has already been registered.                           | Use another name.  |
| 500         | CLOUDTEST.0030046 | Service already deleted.  | The service has already been deleted.                                   | The service has already been deleted.  |
| 500         | CLOUDTEST.0040003 | Start time later than end time.   | The start time is later than the end time.                              | Set a start time earlier than the end time.  |
| 500         | CLOUDTEST.0050000 | System busy due to an internal exception.                               | The system is busy due to an internal exception.                        | Try again later.   |
| 500         | CLOUDTEST.0070008 | Invalid processor.  | The processor is invalid.   | Change the processor to another role.  |


| Status Code | Error Code        | Error Message                  | Description                           | Solution          |
|-------------|-------------------|--------------------------------|---------------------------------------|-------------------|
| 500         | CLOUDTEST.0070009 | Test plan name already in use. | The test plan name is already in use. | Use another name. |

## 7.3 Obtaining a Project ID

### 7.3.1 Obtaining a CodeArts Project ID

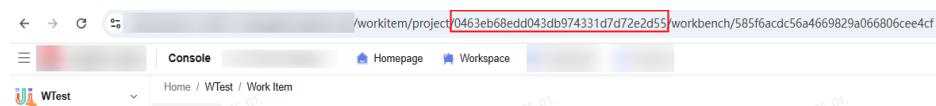
#### Obtaining a Project ID from a URL

**Step 1** [Log in to the Huawei Cloud console](#) with your Huawei Cloud account.

**Step 2** Click  in the upper left corner and choose **Developer Services > CodeArts** from the service list.

**Step 3** Click **Go to Workspace** in the upper right corner.

**Step 4** Go to the specified project. In the following figure, the content in the red box is the CodeArts project ID.



----End

### 7.3.2 Obtaining an IAM Project ID

#### Obtaining a Project ID by Calling an API

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

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

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

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "name": "xxxxxxx",
      "description": ""
    }
  ]
}
```

```
    "links": {
      "next": null,
      "previous": null,
      "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
    },
    "id": "a4a5d4098fb4474fa22cd05f897d6b99",
    "enabled": true
  }
],
"links": {
  "next": null,
  "previous": null,
  "self": "https://www.example.com/v3/projects"
}
}
```

## Obtaining a Project ID from the Console

When calling APIs, you need to specify the project ID in certain URLs. To do so, you need to obtain the project ID first.

**Step 1** Log in to the management console.

**Step 2** Hover over the username in the upper right corner and click **My Credentials** from the drop-down list.

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

----End

## 7.4 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:

**Step 1** Log in to the management console.

**Step 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.

----End