

CodeArts TestPlan

API Reference

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Contents

1 Before You Start..... 1

1.1 Overview..... 1

1.2 Calling Method..... 1

1.3 Endpoints..... 1

1.4 Constraints..... 2

1.5 Concepts..... 2

2 API Overview..... 4

3 Calling APIs..... 5

3.1 Making an API Request..... 5

3.2 Authentication..... 8

3.3 Response..... 10

4 APIs..... 12

4.1 API Test Suite Management..... 12

4.1.1 Generating an API Test Suite by Importing Files from a Repository..... 12

4.2 Environment Parameter Group Management..... 21

4.2.1 Obtaining the Environment Parameter Group List..... 21

4.3 Test Plan Management..... 29

4.3.1 Adding Test Cases In Batches to a Plan..... 29

4.3.2 Querying the Test Plan List in a Project..... 39

4.3.3 Querying the Requirement Tree of a Test Plan..... 51

4.3.4 Creating a Plan in a Project..... 61

4.3.5 Querying the Operation History of a Test Plan..... 70

4.3.6 Querying the Test Plan List in a Project (V2)..... 79

5 Examples..... 93

5.1 User Plan Operations..... 93

6 Appendix..... 96

6.1 Status Codes..... 96

6.2 Error Codes..... 96

6.3 Obtaining a Project ID..... 125

6.3.1 Obtaining a CodeArts Project ID..... 125

6.3.2 Obtaining an IAM Project ID..... 125

6.4 Obtaining an Account ID..... 126

1 Before You Start

1.1 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](#).

1.2 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](#).

1.3 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

Region Name	Region	Endpoint
AP-Singapore	ap-southeast-3	cloudtest-ext.ap-southeast-3.myhuaweicloud.com

1.4 Constraints

For details, see API description.

1.5 Concepts

- **Account**
An account is created upon successful registration 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 from the dimensions of geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region.
Regions are classified into universal 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, network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.
- **Project**
A project is created by a user in CodeArts Req based on a template. 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 [Applicable Scenarios](#) in the user guide of the Enterprise Management service.

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 Create a plan in a project Query the test plan list in a project Query the requirement tree of a test plan Query the operation history of a test plan 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}*

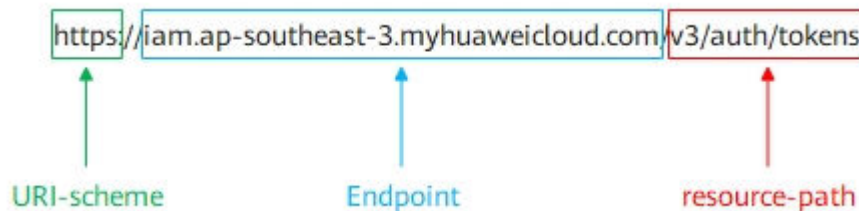
The following table describes the parameters.

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

For example, to obtain 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 application/json . Other values of this field will be provided for specific APIs if any.
X-Auth-Token	User token	Optional	The user token is a response to the API used to obtain a user token . This API is the only one that does not require authentication.
X-Project-ID	Subproject ID	Optional	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 *xxxxxxxx* (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 → Z18d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → MIIYXQYJKoZIhvcNAQcCoIIYtJCCGEoCAQExDTALBgIghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjwMTktMDItMTNUMC
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgkIQO1wi4JlGzrpd18LGXK5bdfq4lqHCYb8P4NaY0NYejcAgz/VeFYtLWT1GSO0zxKZmIQHQ82HBqHdgIzO9fuEbL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FrUooL6jggIFkNPQuFSOU8+uSsttVwRtnfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CM8nOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-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-xxxxxx-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	Definition Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range N/A. Default Value N/A.

Request Parameters

Table 4-2 Request header parameters

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

Table 4-3 Request body parameters

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

Response Parameters

Status code: 201

Table 4-4 Response body parameters

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

Status code: 400

Table 4-5 Response body parameters

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

Table 4-6 CommonResponseDetail

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

Status code: 401

Table 4-7 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.

Parameter	Type	Description
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 500

Table 4-10 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range 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	Definition Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range A string of 32 characters. Default Value N/A.

Table 4-12 Query parameters

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

Request Parameters

Table 4-13 Request header parameters

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

Response Parameters

Status code: 200**Table 4-14** Response body parameters

Parameter	Type	Description
environments	Array of Environment objects	Definition Environment groups.
offset	Long	Definition The position where the query starts. Range 0-999
limit	Long	Definition Number of items displayed on each page. Range 1-200
total_count	Long	Definition Total number of environment groups. Range 0-100

Table 4-15 Environment

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

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

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

Status code: 401

Table 4-17 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.

Parameter	Type	Description
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 500

Table 4-20 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range 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.getErrMsg());
        }
    }
}
```

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	Definition Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range N/A. Default Value N/A.
plan_id	Yes	String	Definition Unique identifier of a plan. Constraints N/A. Range 11 to 34 characters. Default Value N/A.

Request Parameters

Table 4-22 Request header parameters

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

Table 4-23 Request body parameters

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

Response Parameters

Status code: 200

Table 4-24 Response body parameters

Parameter	Type	Description
status	String	success or error
error	ApiError 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 ApiError object which only contains the reason field.

Table 4-25 ApiError

Parameter	Type	Description
code	String	Definition Error code. Range N/A.
reason	String	Definition Service failure message. Range N/A.

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

Parameter	Type	Description
status	String	Definition Processing status of the request. Range success or error
result	ResultValueString object	Definition Request result. Range Optional
error	ApiError object	Definition Error message Range Optional
request_id	String	Definition Unique ID of a request. Range Optional
address	String	Definition Service address that receives the request. Range Optional

Table 4-27 ResultValueString

Parameter	Type	Description
value	String	Definition resultObject Range N/A.

Table 4-28 ApiError

Parameter	Type	Description
code	String	Definition Error code. Range N/A.
reason	String	Definition Service failure message. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 404

Table 4-30 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.
error_detail	ErrorDetailInfo 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 ErrorCaseInfoBean objects	Details about the resources that fail to be operated in batches.

Table 4-33 ErrorCaseInfoBean

Parameter	Type	Description
error_code	String	Definition Error code. Range N/A.
error_msg	String	Definition Error message. Range N/A.
testcase_id	String	Definition Failed resource information. Range 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 = CreateTestCaselnPlanRequest()
        request.project_id = "{project_id}"
        request.plan_id = "{plan_id}"
        listTestcaseIdListbody = [
            "97b82412f1ca4628803b918c27ed09de",
            "97b82412f1ca4628803b918c27ed09de",
            "97b82412f1ca4628803b918c27ed09de"
        ]
        request.body = CreateTestCaselnPlanRequestBody(
            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	Definition Project UUID. For details, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range N/A. Default Value N/A.

Table 4-35 Query parameters

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

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

Request Parameters

Table 4-36 Request header parameters

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

Response Parameters

Status code: 200

Table 4-37 Response body parameters

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

Table 4-38 TestPlanDetail

Parameter	Type	Description
creator	creator object	Definition Test plan creator information. Range N/A.
current_stage	String	Definition Stage of the current test plan. Range N/A.

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

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

Table 4-39 creator

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

Parameter	Type	Description
user_name	String	Definition Name of the test plan creator. Range N/A.

Table 4-40 design_stage

Parameter	Type	Description
case_count	Integer	Definition Number of test cases. Range N/A.
issue_count	Integer	Definition Number of requirements. Range N/A.
issue_covered_count	String	Definition Number of requirements associated with test cases. Range N/A.

Table 4-41 execute_stage

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

Parameter	Type	Description
defect_count	Integer	Definition Number of bugs. Range N/A.
executed_case_count	Integer	Definition Number of executed test cases, calculated by test case status. Range N/A.

Table 4-42 NameAndId

Parameter	Type	Description
id	String	Definition Object ID. Range N/A.
name	String	Definition Object name. Range N/A.

Table 4-43 owner

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

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

Table 4-44 report_stage

Parameter	Type	Description
case_complete_rate	String	Definition Case completion rate, calculated by status. Range 0%–100%

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 401

Table 4-46 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.

Parameter	Type	Description
error_msg	String	Definition Error message displayed after the API fails to be called. Range 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.getErrMsg());
        }
    }
}
```

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	Definition Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range N/A. Default Value N/A.
plan_id	Yes	String	Definition 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, https:// <i>{host}</i> /cloudtestportal/project/ <i>{project_id}</i> /testcase?branch_id= <i>{branch_id}</i> &testplan_id= <i>{testplan_id}</i> . Constraints 11 to 34 characters (letters and digits). Range N/A. Default Value N/A.

Table 4-50 Query parameters

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

Request Parameters

Table 4-51 Request header parameters

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

Response Parameters

Status code: 200

Table 4-52 Response body parameters

Parameter	Type	Description
[Array elements]	Array of TestPlanIssueDetail objects	Definition List of requirements associated with a test plan in a project. Range N/A.

Table 4-53 TestPlanIssueDetail

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

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

Parameter	Type	Description
workitem_id	String	Definition Work item ID. Range N/A.

Table 4-54 NameAndId

Parameter	Type	Description
id	String	Definition Object ID. Range N/A.
name	String	Definition Object name. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 401

Table 4-56 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.

Parameter	Type	Description
error_msg	String	Definition Error message displayed after the API fails to be called. Range 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	Definition Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range N/A. Default Value N/A.

Request Parameters

Table 4-60 Request header parameters

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

Table 4-61 Request body parameters

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

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

Table 4-62 PlanCycle

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

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

Response Parameters

Status code: 200

Table 4-63 Response body parameters

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

Status code: 400

Table 4-64 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 401

Table 4-65 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 404

Table 4-66 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.

Parameter	Type	Description
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Example Requests

Create a plan in a project.

```
post https://{endpoint}/v1/projects/efdb403066474ab08836b9eeaaa23bca/plans
```

```
{
  "assigned_id" : "efdb403066474ab08836b9eeaaa23bca",
  "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.getStatusCode());
        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	Definition Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range N/A. Default Value N/A.

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

Table 4-69 Query parameters

Parameter	Mandatory	Type	Description
offset	Yes	Long	Definition The position where the query starts. Constraints ≥ 0 Range 0-2000000 Default Value N/A.
limit	Yes	Long	Definition Number of items displayed on each page. Constraints N/A. Range 1-200 Default Value N/A.

Request Parameters

Table 4-70 Request header parameters

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

Response Parameters

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

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

Table 4-72 TestPlanJournalList

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

Parameter	Type	Description
project_id	String	Definition Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range N/A.

Table 4-73 TestPlanJournalDetail

Parameter	Type	Description
added	Array of NameAndId objects	Records of adding test plan resources (work items or test cases).
deleted	Array of NameAndId objects	Records of removing test plan resources (work items or test cases).
journalized_type	String	Definition Specific type in change records. Example: test case or requirement. Range N/A.
type	String	Definition Whether the basic information or a resource is changed (adding or removing requirements/test cases). Range N/A.
updated	Array of AttributeChange objects	Definition 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. Range N/A.

Table 4-74 NameAndId

Parameter	Type	Description
id	String	Definition Object ID. Range N/A.
name	String	Definition Object name. Range N/A.

Table 4-75 AttributeChange

Parameter	Type	Description
attribute_type	String	Definition Changed test plan attributes. Range N/A.
new_value	String	Definition Changed value. Range N/A.
old_value	String	Definition Value before the change. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.

Parameter	Type	Description
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 500**Table 4-79** Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Example Requests

```
get https://{endpoint}/v1/projects/efdb403066474ab08836b9eaaaa23bca/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	Definition Project UUID, which uniquely identifies a project. For details about how to obtain the project UUID, see Obtaining a Project ID . Constraints 32 characters (letters and digits). Range N/A. Default Value N/A.

Table 4-81 Query parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Definition The position where the query starts. Constraints N/A. Range Greater than or equal to 0. Default Value N/A.
limit	Yes	Integer	Definition Number of items displayed on each page. Constraints N/A. Range 0–100 Default Value N/A.

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

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

Request Parameters

Table 4-82 Request header parameters

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

Response Parameters

Status code: 201

Table 4-83 Response body parameters

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

Table 4-84 TestPlanDetail

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

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

Parameter	Type	Description
start_date	String	Definition Test plan start time. Range N/A.

Table 4-85 creator

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

Table 4-86 design_stage

Parameter	Type	Description
case_count	Integer	Definition Number of test cases. Range N/A.
issue_count	Integer	Definition Number of requirements. Range N/A.

Parameter	Type	Description
issue_covered_count	String	Definition Number of requirements associated with test cases. Range N/A.

Table 4-87 execute_stage

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

Table 4-88 NameAndId

Parameter	Type	Description
id	String	Definition Object ID. Range N/A.

Parameter	Type	Description
name	String	Definition Object name. Range N/A.

Table 4-89 owner

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

Table 4-90 report_stage

Parameter	Type	Description
case_complete_rate	String	Definition Case completion rate, calculated by status. Range 0%-100%

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

Status code: 404

Table 4-93 Response body parameters

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range N/A.

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

Parameter	Type	Description
error_code	String	Definition Error code displayed after the API fails to be called. Range N/A.
error_msg	String	Definition Error message displayed after the API fails to be called. Range 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" : "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 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](#).

5 Examples

5.1 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
```

6 Appendix

6.1 Status Codes

Table 6-1 Normal status codes

Status Code	Description
200	OK
201	Created

Table 6-2 Abnormal status codes

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

6.2 Error Codes

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

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.00013024",
  "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.00010005	Inter-service communication issues.	Inter-service communication issues.	Contact customer service for troubleshooting.
400	CLOUDTEST.00012002	Invalid project ID.	The project ID is invalid.	Check whether the project ID contains 32 characters.
400	CLOUDTEST.00013024	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.00013025	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.00013026	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.00014000	Empty requirement ID.	The requirement ID in the input parameters is empty.	Contact customer service for troubleshooting.
400	CLOUDTEST.00014001	Requirement not found in the project.	The requirement cannot be found in the input project.	Contact customer service for troubleshooting.
400	CLOUDTEST.00014003	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.00015002	Directory not found.	The directory in the input parameters cannot be found.	Contact customer service for troubleshooting.
400	CLOUDTEST.00017000	Invalid test case ID.	The test case ID is invalid.	Check whether the test case ID contains 32 characters.
400	CLOUDTEST.00017001	Target test case not found.	The target test case in the input parameters cannot be found.	Contact customer service for troubleshooting.
400	CLOUDTEST.00017003	Invalid test plan ID.	The test plan ID is invalid.	Check whether the test plan ID contains 32 characters.
400	CLOUDTEST.00017004	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 0 , 1 , 5 , or 6 .
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: 0, 1, 2, 3, or 4.	The case level is invalid. It must be: 0, 1, 2, 3, or 4.	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 0, 1, 5, or 6.

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 3040024	Invalid parameter.	The parameter is invalid.	Check whether the input parameter is invalid.
400	CLOUDTEST.4 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 3040030	Project not found.	The project cannot be found.	Check whether the project exists.
400	CLOUDTEST.4 3040091	Call third-party service failed.	Failed to call the third-party service.	Contact customer service for troubleshooting.
400	CLOUDTEST.4 3040099	Call third-party service failed.	Failed to call the third-party service.	Contact customer service for troubleshooting.
400	CLOUDTEST.4 3400102	Incorrect file type.	The file type is incorrect.	Use the YAML or JSON format.
400	CLOUDTEST.4 3400103	Max size: 1 MB	The file size exceeds 1 MB.	Use a file not more than 1 MB.
400	CLOUDTEST.4 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 3400138	Account error.	There are problems with the account.	Check whether the account is in arrears.
400	CLOUDTEST.4 3400139	Account error.	There are problems with the account.	Check whether the account is in arrears.
400	CLOUDTEST.4 3400161	Invalid request body structure.	The request body structure is invalid.	Check whether the request body structure is invalid.
400	CLOUDTEST.4 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 3400207	Path not found.	The path cannot be found.	Check whether the path is correct.
400	CLOUDTEST.4 3400210	Insufficient permissions.	The user does not have sufficient permissions.	Check the user permissions in the current project.
400	CLOUDTEST.4 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 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 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 3400253	Invalid request parameters.	The request contains invalid parameters.	Check whether the parameters in the API request are valid.
400	CLOUDTEST.4 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 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 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 3400334	Invalid repository ID.	The repository ID is invalid.	Check whether the repository ID contains 32 characters.
400	CLOUDTEST.4 3400335	Invalid file path length.	The file path length is invalid.	Check whether the file path contains 6 to 128 characters.
400	CLOUDTEST.4 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 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 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 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 0030003	Insufficient permissions.	The current user does not have sufficient permissions.	Use the administrator account.
401	CLOUDTEST.0 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.00070009	Test plan name already in use.	The test plan name is already in use.	Use another name.

6.3 Obtaining a Project ID

6.3.1 Obtaining a CodeArts Project ID

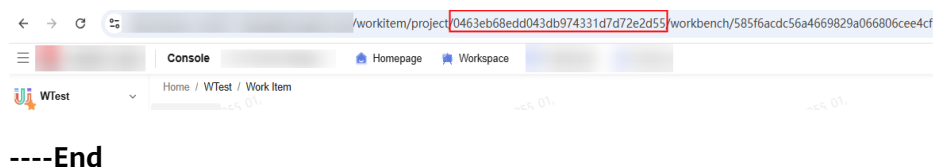
Obtaining a Project ID from a URL

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

Step 2 Click  in the upper left corner 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

6.3.2 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

6.4 Obtaining an Account ID

An account ID is required for some URLs when an API is called. To obtain an account ID, perform the following operations:

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