

**CodeArts Pipeline**

# **API Reference**

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# 1 Before You Start

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## 1.1 Overview

CodeArts Pipeline enables you to visualize and customize your delivery, improving efficiency and quality.

This document describes how to use APIs to perform operations on pipelines, such as starting and stopping pipelines. For details about all supported operations, see [API Overview](#).

If you plan to access a pipeline from an API, ensure that you are familiar with pipeline concepts.

## 1.2 Calling Method

CodeArts Pipeline supports Representational State Transfer (REST) APIs that can be called using HTTPS. For details, see [Calling APIs](#).

## 1.3 Endpoints

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

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

**Table 1-1** Pipeline Endpoint

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

Region Name	Region	Endpoint	Protocol
AP-Singapore	ap-southeast-3	devcloud.ap-southeast-3.myhuaweicloud.com	HTTPS
TR-Istanbul	tr-west-1	pipeline-external.tr-west-1.myhuaweicloud.com	HTTPS
LA-Santiago	la-south-2	pipeline-external.la-south-2.myhuaweicloud.com	HTTPS

## 1.4 Constraints

For details, see API description.

## 1.5 Concepts

- **Account**

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

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

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

Regions are divided based on 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.

For details, see [Region and AZ](#).
- **Availability zone**

An availability zone (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**

Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project.

For more refined access control, create subprojects under a project and purchase resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

- **Enterprise project**

An enterprise project groups and manages enterprise resources in a logically isolated manner. It contains resources in multiple regions, and allows resources to be added or removed.

For details about how to obtain enterprise project IDs and features, see [Applicable Scenarios](#).



# 2 API Overview

**Table 2-1** API overview

Category	API
<b>Template management</b>	APIs for querying the template list, creating a pipeline template, and querying template details.
<b>Pipeline management</b>	APIs for starting a pipeline, obtaining pipeline status in batches or separately, and obtaining execution details.
<b>Group management</b>	APIs for creating, updating, and deleting pipeline groups.
<b>Rule management</b>	APIs for obtaining details about a single rule, obtaining the rule list by page, and updating rules.
<b>Tenant-level policy management</b>	APIs for creating a policy, modifying a policy, and obtaining policy details.
<b>Project-level policy management</b>	APIs for obtaining the project-level policy list and querying the project-level policy list.
<b>Extension management</b>	APIs for creating an extension version, extension draft version, and a publisher.
<b>Template management (old version)</b>	APIs for querying the template list and querying template details.
<b>Pipeline management (old version)</b>	APIs for quickly creating pipelines and tasks based on templates, checking pipeline creation status, and starting pipelines.

# 3 Calling APIs

## 3.1 Making an API Request

This section describes the structure of a REST API request, and calls the IAM API for **obtaining a user token** as an example. The obtained token can then be used to authenticate the calling of other APIs.

### Request URI

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

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

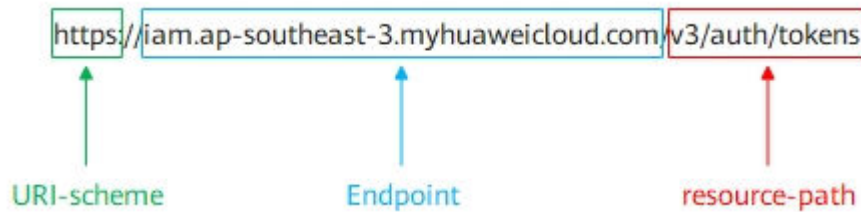
Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use <b>HTTPS</b> .
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from <a href="#">Endpoints</a> . For example, the endpoint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

For example, to obtain the IAM token in region **AP-Singapore**, obtain the region's endpoint **iam.ap-southeast-3.myhuaweicloud.com** and find the **resource-path**

(/v3/auth/tokens) in the URI of the API for **obtaining a user token**. Then, construct the URI as follows:

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

**Figure 3-1** Example URI



**NOTE**

To simplify the URI display in this document, each API is provided only with a resource path and a request method. 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.

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.
PATCH	Requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the case of the API used to obtain a user token, the request method is POST. 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.

The following table lists the common request header fields.

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

### NOTE

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

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

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

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

## Request Body

A request body is 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**, **\*\*\*\*\***, and **xxxxxxxxxx** with the actual values. **username** indicates the username, **domainname** indicates the account to which the user belongs, **\*\*\*\*\*** indicates the login password, and **xxxxxxxxxx** indicates the project name, for example, ap-southeast-3. You can obtain the value from **Endpoints**.

#### NOTE

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For 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": {
        "name": "xxxxxxxxxx"
      }
    }
  }
}
```

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

## 3.2 Authentication

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

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

## Token-based Authentication

### NOTE

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

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

In [Making an API Request](#), the process of calling the API used to [obtain a user token](#) is described.

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

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

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

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

## AK/SK-based Authentication

### NOTE

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

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

- **AK**: access key ID. It is a unique ID associated with an SK. AK is used together with SK to sign requests.

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

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

---

#### NOTICE

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

---

## 3.3 Response

### Status Code

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

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

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

### Response Header

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

[Figure 3-2](#) shows the response header fields for the API used to [obtain a user token](#). The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

**Figure 3-2** Header fields of the response to the request for obtaining a user token

```
connection → keep-alive
content-type → application/json
date → Tue, 12 Feb 2019 06:52:13 GMT
server → Web Server
strict-transport-security → max-age=31536000; includeSubdomains;
transfer-encoding → chunked
via → proxy A
x-content-type-options → nosniff
x-download-options → noopen
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → MIIYXQYJKoZIhvcNAQcCoIIVTjCCGEOCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w00BBwGgghacBIIWmHsidG9rZW4iOansiZXhwaXJlc19hdCI6IiwMTktMDItMTNUMD
fj3KJ56YgKnpVNRbW2eZ5eb78SZOkajACgkqO1wi4JIGzrpd18LGXK5bdfq4lqHCYb8P4NaYONYeJcAgz/VeFYtLWT1GSO0zxKZmlQHq82HBqHdgIZO9fuEbL5dMhdavj+33wEI
xHRCe9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jggIFkNPQuFSOU8+uSsttVwRtnfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUUVhVpxk8pxiX1wTEboX-
RzT6MUbvpGw-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 is part of the response body for the API used to obtain a user token:

```
{
  "token": {
    "expires_at": "2019-02-13T06:52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "ap-southeast-3",
            .....

```

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

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

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



# 4 API

## 4.1 Template Management

### 4.1.1 Querying Template List

#### Function

This API is used to query the pipeline template list.

#### Calling Method

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

#### URI

POST /v5/{tenant\_id}/api/pipeline-templates/list

**Table 4-1** Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Tenant ID.

#### Request Parameters

**Table 4-2** Request body parameters

Parameter	Mandatory	Type	Description
language	No	String	Template language.
is_system	No	Boolean	Whether the template is a system template.

Parameter	Mandatory	Type	Description
name	No	String	Template name.
offset	No	Long	Offset, which is the position where the query starts. Min.: <b>0</b> (default value).
limit	No	Long	Number of records queried each time. The default value is <b>10</b> .
sort_key	No	String	(Optional) Field for sorting. The value can be name or create_time.
sort_dir	No	String	(Optional) Sorting type. asc: Ascending; desc: Descending.

## Response Parameters

Status code: 200

Table 4-3 Response body parameters

Parameter	Type	Description
offset	Integer	Initial offset.
limit	Integer	Number of records on each page.
total	Integer	Total number.
templates	Array of PipelineTemplateSimpleVO objects	Pipeline template list.

Table 4-4 PipelineTemplateSimpleVO

Parameter	Type	Description
id	String	Template ID.
name	String	Template name.
icon	String	Template icon.
manifest_version	String	Version.
language	String	Template language.

Parameter	Type	Description
description	String	Template description.
is_system	Boolean	Whether the template is a system template.
region	String	Template region.
domain_id	String	ID of the tenant to which the template belongs.
creator_id	String	Template creator ID.
creator_name	String	Template creator name.
updater_id	String	Template updater ID.
create_time	Integer	Creation time.
update_time	Integer	Update time.
is_collect	Boolean	Whether to follow or not.
is_show_source	String	Whether to display the pipeline source.
stages	Array of <a href="#">stages</a> objects	Template orchestration stages.

**Table 4-5** stages

Parameter	Type	Description
name	String	Stage name.
sequence	Integer	Stage sequence.

**Status code: 400****Table 4-6** Response body parameters

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

## Example Requests

This API is used to query the pipeline template list. Set the start offset to 0 and the number to 3.

```
POST https://{endpoint}/v5/a5f63758220947b7821e70ae2734c01d/api/pipeline-templates/list

{
  "is_system" : "",
  "offset" : 0,
  "limit" : 3,
  "name" : ""
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "offset" : 0,
  "limit" : 3,
  "total" : 19,
  "templates" : [ {
    "id" : "e908740fe06e44a28f30c0f3c81b2ad5",
    "name" : "Serverless-maven Compilation and Deployment",
    "icon" : "maven60",
    "manifest_version" : "3.0",
    "language" : "Java",
    "description" : "Serverless-maven compilation and building, packaging, and deployment templates",
    "is_system" : true,
    "region" : "system",
    "domain_id" : "system",
    "creator_id" : "system",
    "creator_name" : "system",
    "updater_id" : "e908740fe06e44a28f30c0f3c81b2ad5",
    "create_time" : 1671172288000,
    "update_time" : 1677640980000,
    "is_collect" : true,
    "is_show_source" : null,
    "stages" : [ {
      "name" : "Build and Check",
      "sequence" : 0
    }, {
      "name" : "Deployment and Test",
      "sequence" : 1
    }
  ]
}, {
  "id" : "ac3b3b9a6cb64ef6b732c8f8459ab578",
  "name" : "Building a Container Image on a Node",
  "icon" : "npm60",
  "manifest_version" : "3.0",
  "language" : "Node.js",
  "description" : "Use nodes to build container images and push them to SWR for storage.",
  "is_system" : true,
  "region" : "system",
  "domain_id" : "system",
  "creator_id" : "system",
  "creator_name" : "system",
  "updater_id" : "ac3b3b9a6cb64ef6b732c8f8459ab578",
  "create_time" : 1671172288000,
  "update_time" : 1677640980000,
  "is_collect" : true,
  "is_show_source" : null,
  "stages" : [ {
    "name" : "Build",
    "sequence" : 0
  }
  ]
}, {
  "id" : "8ea4d170ba0d45d9b1b647a9780ebcf8",
  "name" : "Getting Started",
  "icon" : null,
  "manifest_version" : "3.0",
```

```
"language" : "java",
"description" : "Pipeline Template for Beginners",
"is_system" : true,
"region" : "system",
"domain_id" : "system",
"creator_id" : "system",
"creator_name" : "system",
"updater_id" : "ac3b3b9a6cb64ef6b732c8f8459ab578",
"create_time" : 1680769082000,
"update_time" : 1680770243000,
"is_collect" : false,
"is_show_source" : null,
"stages" : [ {
  "name" : "Code check",
  "sequence" : 0
}, {
  "name" : "Build Phase",
  "sequence" : 1
}, {
  "name" : "Deployment and Release",
  "sequence" : 2
} ]
} ]
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

This API is used to query the pipeline template list. Set the start offset to 0 and the number to 3.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPipelineTemplatesSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPipelineTemplatesRequest request = new ListPipelineTemplatesRequest();
        ListPipelineTemplatesQuery body = new ListPipelineTemplatesQuery();
    }
}
```

```
body.withLimit(3L);
body.withOffset(0L);
body.withName("");
body.withIsSystem();
request.withBody(body);
try {
    ListPipelineTemplatesResponse response = client.listPipelineTemplates(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

This API is used to query the pipeline template list. Set the start offset to 0 and the number to 3.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListPipelineTemplatesRequest()
        request.body = ListPipelineTemplatesQuery(
            limit=3,
            offset=0,
            name="",
            is_system=
        )
        response = client.list_pipeline_templates(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

This API is used to query the pipeline template list. Set the start offset to 0 and the number to 3.

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPipelineTemplatesRequest{
        limitListPipelineTemplatesQuery:= int64(3)
        offsetListPipelineTemplatesQuery:= int64(0)
        nameListPipelineTemplatesQuery:= ""
        isSystemListPipelineTemplatesQuery:=
        request.Body = &model.ListPipelineTemplatesQuery{
            Limit: &limitListPipelineTemplatesQuery,
            Offset: &offsetListPipelineTemplatesQuery,
            Name: &nameListPipelineTemplatesQuery,
            IsSystem: &isSystemListPipelineTemplatesQuery,
        }
    }
    response, err := client.ListPipelineTemplates(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.1.2 Creating a Pipeline Template

### Function

This API is used to create a pipeline template.

### Calling Method

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

### URI

POST /v5/{tenant\_id}/api/pipeline-templates

**Table 4-7** Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Tenant ID.

### Request Parameters

**Table 4-8** 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 <b>X-Subject-Token</b> in the response header is the user token.



**Table 4-9** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Template name.
description	No	String	Template description.
language	Yes	String	Template language.
variables	No	CustomVariable object	Custom parameter.
definition	Yes	String	Template orchestration JSON file, including stages.
is_system	Yes	Boolean	System template or not.
domain_id	Yes	String	Tenant ID.
is_show_source	Yes	Boolean	Whether to display the pipeline source.

**Table 4-10** CustomVariable

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
name	No	String	Custom parameter name.
sequence	No	Integer	Custom parameter sequence.
type	No	String	Custom parameter type.
value	No	String	Default values of custom parameters.
is_secret	No	Boolean	Private parameter or not.
description	No	String	Custom parameter description.
is_runtime	No	Boolean	Runtime setting or not.
limits	No	Array of objects	Limited enumerated value.
is_reset	No	Boolean	Reset or not.
latest_value	No	String	Latest parameter value.
runtime_value	No	String	Runtime input value.

## Response Parameters

**Status code: 200**

**Table 4-11** Response body parameters

Parameter	Type	Description
templateId	String	Template ID.

**Status code: 400****Table 4-12** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v5/ce8df55870164338a72d7e828a966a2a/api/pipeline-templates

{
  "name": "Creating a Pipeline Template-20231023215133",
  "description": "",
  "language": "none",
  "is_show_source": true,
  "variables": [ ],
  "definition": "{\n  \"stages\": [\n    {\n      \"name\": \"Phase_1\",\n      \"sequence\": \"0\",\n      \"jobs\": [\n        {\n          \"stage_id\": \"1698069093677\",\n          \"identifier\": \"16980691185419778b0f5-02cd-4bd3-a8cc-da825644add1\",\n          \"name\": \"CodeCheck name\",\n          \"depends_on\": [ ],\n          \"timeout\": \"\",\n          \"timeout_unit\": \"\",\n          \"steps\": [\n            {\n              \"name\": \"CodeCheck name \",\n              \"task\": \"official_devcloud_codeCheck_template\",\n              \"sequence\": \"0\",\n              \"inputs\": [\n                {\n                  \"key\": \"language\",\n                  \"value\": \"Java\",\n                  \"key\": \"module_or_template_id\",\n                  \"value\": \"d7dffae6b6d94c63a09cf141668356c7\",\n                  \"business_type\": \"Gate\",\n                  \"runtime_attribution\": \"agent\",\n                  \"identifier\": \"16980691136015f94b249-102d-44f2-abb5-02fa3ad9fae0\",\n                  \"multi_step_editable\": \"0\",\n                  \"official_task_version\": \"0.0.1\",\n                  \"resource\": {\n                    \"type\": \"system\",\n                    \"arch\": \"x86\"\n                  },\n                  \"condition\": \"completed\",\n                  \"exec_type\": \"OCTOPUS_JOB\",\n                  \"sequence\": \"0\",\n                  \"identifier\": \"16980690936778259e2a5-a97e-4c66-af8d-1908988c1c21\",\n                  \"pre\": [\n                    {\n                      \"task\": \"official_devcloud_autoTrigger\",\n                      \"sequence\": \"0\",\n                      \"post\": null,\n                      \"depends_on\": [ ],\n                      \"run_always\": false\n                    }\n                  ],\n                  \"domain_id\": \"ce8df55870164338a72d7e828a966a2a\",\n                  \"is_system\": false\n                }\n              ]\n            }\n          ]\n        }\n      ]\n    }\n  ]\n}"
```

## Example Responses

**Status code: 200**

OK

```
{
  "templateId": "ad8a26f8b19a4b83a8d92eb733b65476"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class CreatePipelineTemplateSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePipelineTemplateRequest request = new CreatePipelineTemplateRequest();
        PipelineTemplateDTO body = new PipelineTemplateDTO();
        body.withIsShowSource(true);
        body.withDomainId("ce8df55870164338a72d7e828a966a2a");
        body.withIsSystem(false);
        body.withDefinition("{\"stages\": [{\"name\": \"Phase_1\", \"sequence\": \"0\", \"jobs\":
[\"stage_id\":1698069093677,\"identifier\":\"16980691185419778b0f5-02cd-4bd3-a8cc-
da825644add1\", \"name\": \"CodeCheck name\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[\"name\": \"CodeCheck name \", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": 0, \"inputs\":
[\"key\": \"language\", \"value\": \"Java\"],
{ \"key\": \"module_or_template_id\", \"value\": \"d7dffaefb6d94c63a09cf141668356c7\" }], \"business_type\": \"Gate\", \"ru
ntime_attribution\": \"agent\", \"identifier\": \"16980691136015f94b249-102d-44f2-
abb5-02fa3ad9fae0\", \"multi_step_editable\": 0, \"official_task_version\": \"0.0.1\"}], \"resource\": \"{ \"type\": \"system
\\\", \"arch
\\\": \"x86\" }\", \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": 0}], \"identifier\": \"16980690936
778259e2a5-a97e-4c66-af8d-1908988c1c21\", \"pre\":
[\"task\": \"official_devcloud_autoTrigger\", \"sequence\": 0}], \"post\": null, \"depends_on\": [], \"run_always\": false}}]);
        body.withVariables("{}");
        body.withLanguage("none");
        body.withDescription("");
        body.withName("Creating a Pipeline Template-20231023215133");
        request.withBody(body);
        try {
            CreatePipelineTemplateResponse response = client.createPipelineTemplate(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreatePipelineTemplateRequest()
        request.body = PipelineTemplateDTO(
            is_show_source=True,
            domain_id="ce8df55870164338a72d7e828a966a2a",
            is_system=False,
            definition="{\"stages\": [{\"name\": \"Phase_1\", \"sequence\": \"0\", \"jobs\":
[ {\"stage_id\": \"1698069093677\", \"identifier\": \"16980691185419778b0f5-02cd-4bd3-a8cc-
da825644add1\", \"name\": \"CodeCheck name\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[ {\"name\": \"CodeCheck name \", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": 0, \"inputs\":
[ {\"key\": \"language\", \"value\": \"Java\"},
{ \"key\": \"module_or_template_id\", \"value\": \"d7dffaefb6d94c63a09cf141668356c7\" } ], \"business_type\": \"Gate\", \"ru
ntime_attribution\": \"agent\", \"identifier\": \"16980691136015f94b249-102d-44f2-
abb5-02fa3ad9fae0\", \"multi_step_editable\": 0, \"official_task_version\": \"0.0.1\" } ], \"resource\": \"{\\"type\\\": \\"system
\\\", \\"arch
\\\": \\"x86\\\"}\"}, {\"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": 0}], \"identifier\": \"16980690936
778259e2a5-a97e-4c66-af8d-1908988c1c21\", \"pre\":
[ {\"task\": \"official_devcloud_autoTrigger\", \"sequence\": 0}], \"post\": null, \"depends_on\": [], \"run_always\": false} ]\",
            variables=[],
            language="none",
            description="",
            name="Creating a Pipeline Template-20231023215133"
        )
        response = client.create_pipeline_template(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineTemplateRequest{}
    var variablesVariables interface{} = ""
    descriptionPipelineTemplateDto:= ""
    request.Body = &model.PipelineTemplateDto{
        IsShowSource: true,
        DomainId: "ce8df55870164338a72d7e828a966a2a",
        IsSystem: false,
        Definition: "{\"stages\": [{\"name\": \"Phase_1\", \"sequence\": \"0\", \"jobs\":
    [{\"stage_id\": \"1698069093677\", \"identifier\": \"16980691185419778b0f5-02cd-4bd3-a8cc-
    da825644add1\", \"name\": \"CodeCheck name\", \"depends_on\": []}, {\"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
    [{\"name\": \"CodeCheck name \", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": \"0\", \"inputs\":
    [{\"key\": \"language\", \"value\": \"Java\"},
    {\"key\": \"module_or_template_id\", \"value\": \"d7dffaefb6d94c63a09cf141668356c7\"}], \"business_type\": \"Gate\", \"ru
    ntime_attribution\": \"agent\", \"identifier\": \"16980691136015f94b249-102d-44f2-
    abb5-02fa3ad9fae0\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": \"{\\\"type\\\": \\\"system
    \\\", \\\"arch
    \\\": \\\"x86\\\"}\", \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\", \"identifier\": \"16980690936
    778259e2a5-a97e-4c66-af8d-1908988c1c21\", \"pre\":
    [{\"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\", \"post\": null, \"depends_on\": [], \"run_always\": false}]}\",
        Variables: &variablesVariables,
        Language: "none",
        Description: &descriptionPipelineTemplateDto,
        Name: "Creating a Pipeline Template-20231023215133",
    }
    response, err := client.CreatePipelineTemplate(request)
    if err == nil {
        fmt.Printf("%v\\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request

Status Code	Description
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.1.3 Querying Template Details

### Function

This API is used to query template details.

### Calling Method

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

### URI

GET /v5/{tenant\_id}/api/pipeline-templates/{template\_id}

**Table 4-13** Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Tenant ID.
template_id	Yes	String	Template ID.

### Request Parameters

None

### Response Parameters

**Status code: 200**

**Table 4-14** Response body parameters

Parameter	Type	Description
id	String	Template ID.
name	String	Template name.

Parameter	Type	Description
icon	String	Template icon.
manifest_version	String	Version.
language	String	Template language.
description	String	Template description.
is_system	Boolean	Whether the template is a system template.
region	String	Region.
domain_id	String	Tenant ID.
variables	Array of <b>CustomVariable</b> objects	Custom parameter.
creator_id	String	Creator ID.
updater_id	String	Editor ID.
create_time	Integer	Creation date.
update_time	Integer	Update date.
is_collect	String	Whether to follow or not.
is_show_source	Boolean	Whether to display the pipeline source.
definition	String	Template orchestration JSON file, including stages.

**Table 4-15** CustomVariable

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
name	String	Custom parameter name.
sequence	Integer	Custom parameter sequence.
type	String	Custom parameter type.
value	String	Default values of custom parameters.
is_secret	Boolean	Private parameter or not.
description	String	Custom parameter description.
is_runtime	Boolean	Runtime setting or not.

Parameter	Type	Description
limits	Array of objects	Limited enumerated value.
is_reset	Boolean	Reset or not.
latest_value	String	Latest parameter value.
runtime_value	String	Runtime input value.

**Status code: 400**

**Table 4-16** Response body parameters

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

## Example Requests

Querying Pipeline Template Details

```
GET https://{endpoint}/v5/a5f63758220947b7821e70ae2734c01d/api/pipeline-templates/deb18013bb6c4659b160b15fd7468644
```

## Example Responses

**Status code: 200**

OK

```
{
  "id": "deb18013bb6c4659b160b15fd7468644",
  "name": "Creating a Pipeline Template-20230112115711",
  "icon": null,
  "manifest_version": "3.0",
  "language": "none",
  "description": "",
  "is_system": false,
  "region": "region01",
  "domain_id": "70ffec613024477bbaf266128bd9778d",
  "variables": [ ],
  "creator_id": "5ffd41c9df9d4506862ce27e209bb106",
  "updater_id": "5ffd41c9df9d4506862ce27e209bb106",
  "create_time": 1673495851000,
  "update_time": 1673495851000,
  "is_collect": null,
  "is_show_source": true,
  "definition": "{ \"stages\": [ { \"name\": \"Phase_1\", \"sequence\": \"0\", \"jobs\": [ { \"stage_id\": 1673495831907, \"identifier\": \"16734958501367554c26c-561b-4831-a906-e88316c8e674\", \"name\": \"New Task\", \"depends_on\": [ ], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\": [ ], \"exec_type\": \"AGENTLESS_JOB\", \"sequence\": \"0\", \"identifier\": \"0\", \"pre\": [ { \"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\", \"post\": null, \"depends_on\": [ ], \"run_always\": false } ] } ] } }
```



## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.1.4 Updating a Pipeline Template

### Function

This API is used to update a pipeline template.

### Calling Method

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

### URI

PUT /v5/{tenant\_id}/api/pipeline-templates/{template\_id}

**Table 4-17** Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Tenant ID.
template_id	Yes	String	Template ID.

## Request Parameters

**Table 4-18** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-19** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Template name.
description	No	String	Template description.
language	Yes	String	Template language.
variables	No	CustomVariable object	Custom parameter.
definition	Yes	String	Template orchestration JSON file, including stages.
is_system	Yes	Boolean	System template or not.
domain_id	Yes	String	Tenant ID.
is_show_source	Yes	Boolean	Whether to display the pipeline source.

**Table 4-20** CustomVariable

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
name	No	String	Custom parameter name.
sequence	No	Integer	Custom parameter sequence.
type	No	String	Custom parameter type.
value	No	String	Default values of custom parameters.
is_secret	No	Boolean	Private parameter or not.

Parameter	Mandatory	Type	Description
description	No	String	Custom parameter description.
is_runtime	No	Boolean	Runtime setting or not.
limits	No	Array of objects	Limited enumerated value.
is_reset	No	Boolean	Reset or not.
latest_value	No	String	Latest parameter value.
runtime_value	No	String	Runtime input value.

## Response Parameters

**Status code: 200**

**Table 4-21** Response body parameters

Parameter	Type	Description
templateId	String	Template ID.

**Status code: 400**

**Table 4-22** Response body parameters

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

## Example Requests

```
PUT https://{endpoint}/v5/ce8df55870164338a72d7e828a966a2a/api/pipeline-templates/  
ad8a26f8b19a4b83a8d92eb733b65476
```

```
{  
  "name": "Creating a Pipeline Template-20231023212159",  
  "language": "none",  
  "description": "",  
  "is_system": false,  
  "domain_id": "ce8df55870164338a72d7e828a966a2a",  
  "variables": [ ],  
  "is_show_source": true,  
  "definition": "{\n    \"stages\": [\n      {\n        \"name\": \"Phase_1\",\n        \"sequence\": \"0\",\n        \"jobs\": [\n          {\n            \"stage_id\": \"1698067319814\",\n            \"identifier\": \"16980673371452673e2a4-b3e1-4389-a145-fc57a4473137\",\n            \"name\": \"CloudBuild Template\",\n            \"depends_on\": [ ],\n            \"timeout\": \"\",\n            \"timeout_unit\": \"\",\n            \"steps\": [\n              {\n                \"name\": \"CloudBuild Template \",\n                \"task\": \"official_devcloud_cloudBuild_template\",\n                \"sequence\": \"0\",\n                \"inputs\": [\n                  {\n                    \"key\": \"pipelineNumber\",\n                    \"value\": \"v1.0.0\"},\n                  {\n                    \"key\": \"artifactName\",\n                    \"value\": \"name\"},\n                  {\n                    \"key\": \"is_build_in\",\n                    \"value\": \"system\"},\n                  {\n                    \"key\": \"module_or_template_id\",\n                    \"value\": \"\"}\n                ]\n              }\n            ]\n          }\n        ]\n      }\n    ]\n  }"
```

```
\"00057\"}],\"business_type\":\"Build\", \"runtime_attribution\":{\"agent\",\"identifier  
\": \"1698067328741629de896-a67b-4c2a-be40-7f6531af2f19\", \"multi_step_editable  
\": 0, \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system\", \"arch\": \"x86\"}  
\", \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": 0}, {\"identifier  
\": \"1698067635354dba15971-5277-48fe-a219-8cd578aa8773\", \"name\": \"CodeCheck name  
\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\": [{\"name\": \"CodeCheck name \", \"task  
\": \"official_devcloud_codeCheck_template\", \"sequence\": 0, \"inputs\": {\"key\": \"language\", \"value\": \"C/C+  
+\"}, {\"key\": \"module_or_template_id\", \"value\": \"d7dffae6b6d94c63a09cf141668356c7\"}], \"business_type  
\": \"Gate\", \"runtime_attribution\":{\"agent\",\"identifier  
\": \"1698067631617e1847e52-06ff-429e-9bfa-492ae877f192\", \"multi_step_editable  
\": 0, \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system\", \"arch\": \"x86\"}  
\", \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": 1}, {\"identifier  
\": \"1698067319814bd28be5a-eb0c-4bdf-9ac5-4b441ef46ef9\", \"pre\": [\"task  
\": \"official_devcloud_autoTrigger\", \"sequence\": 0}], \"post\": null, \"depends_on\": [], \"run_always\": false}}]  
}
```

## Example Responses

**Status code: 200**

OK

```
{  
  \"templateId\" : \"ad8a26f8b19a4b83a8d92eb733b65476\"  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class UpdatePipelineTemplateSolution {  
  
    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);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf(\"<YOUR REGION>\"))  
            .build();  
        UpdatePipelineTemplateRequest request = new UpdatePipelineTemplateRequest();  
        PipelineTemplateDTO body = new PipelineTemplateDTO();  
        body.withIsShowSource(true);  
        body.withDomainId(\"ce8df55870164338a72d7e828a966a2a\");  
    }  
}
```

```
body.withIsSystem(false);
body.withDefinition("{\"stages\": [{\"name\": \"Phase_1\", \"sequence\": \"0\", \"jobs\":
[ {\"stage_id\": \"1698067319814\", \"identifier\": \"16980673371452673e2a4-b3e1-4389-a145-
fc57a4473137\", \"name\": \"CloudBuild Template\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[ {\"name\": \"CloudBuild Template \", \"task\": \"official_devcloud_cloudBuild_template\", \"sequence\": \"0\", \"inputs\":
[ {\"key\": \"pipelineNumber\", \"value\": \"v1.0.0\"}, {\"key\": \"artifactName\", \"value\": \"name\"},
{\"key\": \"is_build_in\", \"value\": \"system\"},
{\"key\": \"module_or_template_id\", \"value\": \"00057\"} ] , \"business_type\": \"Build\", \"runtime_attribution\": \"agent\", \"id
entifier\": \"1698067328741629de896-a67b-4c2a-
be40-7f6531af2f19\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system
\\\", \"arch\": \"x86\"}, \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\"},
{ \"identifier\": \"1698067635354dba15971-5277-48fe-a219-8cd578aa8773\", \"name\": \"CodeCheck name
\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\": [ {\"name\": \"CodeCheck name
\", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": \"0\", \"inputs\": [ {\"key\": \"language\", \"value\": \"C/C++\"},
{\"key\": \"module_or_template_id\", \"value\": \"d7dffaefb6d94c63a09cf141668356c7\"} ] , \"business_type\": \"Gate\", \"ru
ntime_attribution\": \"agent\", \"identifier\": \"1698067631617e1847e52-06ff-429e-9bfa-492ae877f192\", \"multi_step
_editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system\\\", \"arch
\\\": \"x86\"}, \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"1\"}, { \"identifier\": \"16980673198
14bd28be5a-eb0c-4bdf-9ac5-4b441ef46ef9\", \"pre\":
[ {\"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\"}, { \"post\": null, \"depends_on\": [], \"run_always\": false} ] } ] });
body.withVariables("{}");
body.withLanguage("none");
body.withDescription("");
body.withName("Creating a Pipeline Template-20231023212159");
request.withBody(body);
try {
    UpdatePipelineTemplateResponse response = client.updatePipelineTemplate(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.getErrMsg());
}
}
```

## Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
```

```
request = UpdatePipelineTemplateRequest()
request.body = PipelineTemplateDTO(
    is_show_source=True,
    domain_id="ce8df55870164338a72d7e828a966a2a",
    is_system=False,
    definition="{\"stages\": [{\"name\": \"Phase_1\", \"sequence\": \"0\", \"jobs\":
[ {\"stage_id\": \"1698067319814\", \"identifier\": \"16980673371452673e2a4-b3e1-4389-a145-
fc57a4473137\", \"name\": \"CloudBuild Template\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[ {\"name\": \"CloudBuild Template \", \"task\": \"official_devcloud_cloudBuild_template\", \"sequence\": \"0\", \"inputs\":
[ {\"key\": \"pipelineNumber\", \"value\": \"v1.0.0\"}, {\"key\": \"artifactName\", \"value\": \"name\"},
{ \"key\": \"is_build_in\", \"value\": \"system\"},
{ \"key\": \"module_or_template_id\", \"value\": \"00057\"} ], \"business_type\": \"Build\", \"runtime_attribution\": \"agent\", \"id
entifier\": \"1698067328741629de896-a67b-4c2a-
be40-7f6531af2f19\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system
\\\", \"arch\": \"x86\\\"}, \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\",
{ \"identifier\": \"1698067635354dba15971-5277-48fe-a219-8cd578aa8773\", \"name\": \"CodeCheck name
\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\": [ {\"name\": \"CodeCheck name
\", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": \"0\", \"inputs\": [ {\"key\": \"language\", \"value\": \"C/C++\"},
{ \"key\": \"module_or_template_id\", \"value\": \"d7ffaefb6d94c63a09cf141668356c7\"} ], \"business_type\": \"Gate\", \"ru
ntime_attribution\": \"agent\", \"identifier\": \"1698067631617e1847e52-06ff-429e-9bfa-492ae877f192\", \"multi_step
_editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": {\"type\": \"system\\\", \"arch
\\\": \"x86\\\"}, \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"1\", \"identifier\": \"16980673198
14bd28be5a-eb0c-4bdf-9ac5-4b441ef46ef9\", \"pre\":
[ {\"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\"}, {\"post\": null, \"depends_on\": [], \"run_always\": false} ]}],
    variables= \"[]\",
    language= \"none\",
    description= \"\",
    name= \"Creating a Pipeline Template-20231023212159\"
)
response = client.update_pipeline_template(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.UpdatePipelineTemplateRequest{}
var variablesVariables interface{} = ""
descriptionPipelineTemplateDto:= ""
request.Body = &model.PipelineTemplateDto{
    IsShowSource: true,
    DomainId: "ce8df55870164338a72d7e828a966a2a",
    IsSystem: false,
    Definition: "{\"stages\": [{\"name\": \"Phase_1\", \"sequence\": \"0\", \"jobs\":
[ {\"stage_id\": \"1698067319814\", \"identifier\": \"16980673371452673e2a4-b3e1-4389-a145-
fc57a4473137\", \"name\": \"CloudBuild Template\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[ {\"name\": \"CloudBuild Template \", \"task\": \"official_devcloud_cloudBuild_template\", \"sequence\": \"0\", \"inputs\":
[ {\"key\": \"pipelineNumber\", \"value\": \"v1.0.0\"}, {\"key\": \"artifactName\", \"value\": \"name\"},
{ \"key\": \"is_build_in\", \"value\": \"system\"},
{ \"key\": \"module_or_template_id\", \"value\": \"00057\"} ] , \"business_type\": \"Build\", \"runtime_attribution\": \"agent\", \"id
entifier\": \"1698067328741629de896-a67b-4c2a-
be40-7f6531af2f19\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": \"{\\\"type\\\": \\\"system
\\\", \\\"arch\\\": \\\"x86\\\"}\", \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\",
{ \"identifier\": \"1698067635354dba15971-5277-48fe-a219-8cd578aa8773\", \"name\": \"CodeCheck name
\", \"task\": \"official_devcloud_codeCheck_template\", \"sequence\": \"0\", \"inputs\": [ {\"key\": \"language\", \"value\": \"C/C++\"},
{ \"key\": \"module_or_template_id\", \"value\": \"d7dfaefb6d94c63a09cf141668356c7\"} ] , \"business_type\": \"Gate\", \"ru
ntime_attribution\": \"agent\", \"identifier\": \"1698067631617e1847e52-06ff-429e-9bfa-492ae877f192\", \"multi_step
_editable\": \"0\", \"official_task_version\": \"0.0.1\"}], \"resource\": \"{\\\"type\\\": \\\"system\\\", \\\"arch
\\\": \\\"x86\\\"}\", \"condition\": \"completed()\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"1\"}, { \"identifier\": \"16980673198
14bd28be5a-eb0c-4bdf-9ac5-4b441ef46ef9\", \"pre\":
[ { \"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\"}, { \"post\": null, \"depends_on\": [], \"run_always\": false} ]}],
    Variables: &variablesVariables,
    Language: \"none\",
    Description: &descriptionPipelineTemplateDto,
    Name: \"Creating a Pipeline Template-20231023212159\",
}
response, err := client.UpdatePipelineTemplate(request)
if err == nil {
    fmt.Printf(\"%+v\\n\", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.1.5 Deleting a Pipeline Template

### Function

This API is used to delete a pipeline template.

### Calling Method

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

### URI

DELETE /v5/{tenant\_id}/api/pipeline-templates/{template\_id}

**Table 4-23** Path Parameters

Parameter	Mandatory	Type	Description
tenant_id	Yes	String	Tenant ID.
template_id	Yes	String	Template ID.

### Request Parameters

**Table 4-24** 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 <b>X-Subject-Token</b> in the response header is the user token.

### Response Parameters

**Status code: 200**

**Table 4-25** Response body parameters

Parameter	Type	Description
templatedId	String	Template ID.

**Status code: 400**



**Table 4-26** Response body parameters

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

## Example Requests

```
DELETE https://{endpoint}/v5/ce8df55870164338a72d7e828a966a2a/pipeline-templates/  
8178e40e7525419596a2c02e0c12e690
```

## Example Responses

**Status code: 200**

OK

```
{  
  "templateId" : "8178e40e7525419596a2c02e0c12e690"  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class DeletePipelineTemplateSolution {  
    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);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        DeletePipelineTemplateRequest request = new DeletePipelineTemplateRequest();  
        try {  
            DeletePipelineTemplateResponse response = client.deletePipelineTemplate(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

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

## Go

```
package main

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

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

```
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

# 4.2 Pipeline Management

## 4.2.1 Starting a Pipeline

### Function

This API is used to start a pipeline.

## Calling Method

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

## URI

POST /v5/{project\_id}/api/pipelines/{pipeline\_id}/run

**Table 4-27** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.

## Request Parameters

**Table 4-28** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-29** Request body parameters

Parameter	Mandatory	Type	Description
sources	No	Array of <a href="#">sources</a> objects	Source used.
description	No	String	Running description.
variables	No	Array of <a href="#">variables</a> objects	Custom parameters used.
choose_jobs	No	Array of strings	Selected jobs.
choose_stages	No	Array of strings	Selected stages.

**Table 4-30** sources

Parameter	Mandatory	Type	Description
type	Yes	String	Source type.
params	No	<a href="#">params</a> object	Source parameters.

**Table 4-31** params

Parameter	Mandatory	Type	Description
git_type	Yes	String	Code repository type.
alias	No	String	Code repository alias.
codehub_id	No	String	Repo repository ID.
default_branch	No	String	Default branch.
git_url	Yes	String	HTTPS address of the Git repository.
endpoint_id	No	String	Endpoint ID.
build_params	No	<a href="#">build_params</a> object	Detailed build parameters.

**Table 4-32** build\_params

Parameter	Mandatory	Type	Description
build_type	Yes	String	Triggered by a branch or tag.
target_branch	No	String	Running branch.
tag	No	String	Running tag.
event_type	No	String	Triggering event type.

**Table 4-33** variables

Parameter	Mandatory	Type	Description
name	Yes	String	Parameter name.
value	Yes	String	Parameter value.

## Response Parameters

Status code: 200

Table 4-34 Response body parameters

Parameter	Type	Description
pipeline_run_id	String	Pipeline run ID.

## Example Requests

Start a pipeline. The specified branch is master, and the parameter is key:val.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/
e5460d1d403146a1935c2d4b68ef506c/run

{
  "sources": [ {
    "type": "code",
    "params": {
      "git_type": "codehub",
      "codehub_id": "2111699716",
      "default_branch": "test-lbdsb11",
      "git_url": "https://example.com/clsyz00001/111.git",
      "build_params": {
        "build_type": "branch",
        "event_type": "Manual",
        "target_branch": "test-lbdsb11"
      }
    }
  } ],
  "description": "Running description",
  "variables": [ {
    "name": "key",
    "value": "val"
  } ],
  "choose_jobs": [ "16772939480734f4abbc4-b3b9-4235-82c2-46559434cbd4" ]
}
```

## Example Responses

Status code: 200

OK

```
{
  "pipeline_run_id": "ad6b7f66283a45be9c1f82b06c831e59"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Start a pipeline. The specified branch is master, and the parameter is key:val.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

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

public class RunPipelineSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        RunPipelineRequest request = new RunPipelineRequest();
        RunPipelineDTO body = new RunPipelineDTO();
        List<String> listbodyChooseJobs = new ArrayList<>();
        listbodyChooseJobs.add("16772939480734f4abbc4-b3b9-4235-82c2-46559434cbd4");
        List<RunPipelineDTOVariables> listbodyVariables = new ArrayList<>();
        listbodyVariables.add(
            new RunPipelineDTOVariables()
                .withName("key")
                .withValue("val")
        );
        RunPipelineDTOParamsBuildParams buildParamsParams = new RunPipelineDTOParamsBuildParams();
        buildParamsParams.withBuildType("branch")
            .withTargetBranch("test-lbdsb11")
            .withEventType("Manual");
        RunPipelineDTOParams paramsSources = new RunPipelineDTOParams();
        paramsSources.withGitType("codehub")
            .withCodehubId("2111699716")
            .withDefaultBranch("test-lbdsb11")
            .withGitUrl("https://example.com/clsyz00001/111.git")
            .withBuildParams(buildParamsParams);
        List<RunPipelineDTOSources> listbodySources = new ArrayList<>();
        listbodySources.add(
            new RunPipelineDTOSources()
                .withType("code")
                .withParams(paramsSources)
        );
        body.withChooseJobs(listbodyChooseJobs);
        body.withVariables(listbodyVariables);
        body.withDescription("Running description");
        body.withSources(listbodySources);
        request.withBody(body);
        try {
            RunPipelineResponse response = client.runPipeline(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

Start a pipeline. The specified branch is master, and the parameter is key:val.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = RunPipelineRequest()
        listChooseJobsbody = [
            "16772939480734f4abbc4-b3b9-4235-82c2-46559434cbd4"
        ]
        listVariablesbody = [
            RunPipelineDTOVariables(
                name="key",
                value="val"
            )
        ]
        buildParamsParams = RunPipelineDTOParamsBuildParams(
            build_type="branch",
            target_branch="test-lbdsb11",
            event_type="Manual"
        )
        paramsSources = RunPipelineDTOParams(
            git_type="codehub",
            codehub_id="2111699716",
            default_branch="test-lbdsb11",
            git_url="https://example.com/clsyz00001/111.git",
            build_params=buildParamsParams
        )
        listSourcesbody = [
            RunPipelineDTOSources(
                type="code",
                params=paramsSources
            )
        ]
        request.body = RunPipelineDTO(
            choose_jobs=listChooseJobsbody,
```



```
        variables=listVariablesbody,
        description="Running description",
        sources=listSourcesbody
    )
    response = client.run_pipeline(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

Start a pipeline. The specified branch is master, and the parameter is key:val.

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.RunPipelineRequest{}
    var listChooseJobsbody = []string{
        "16772939480734f4abbc4-b3b9-4235-82c2-46559434cbd4",
    }
    var listVariablesbody = []model.RunPipelineDtoVariables{
        {
            Name: "key",
            Value: "val",
        },
    }
    targetBranchBuildParams:= "test-lbdsb11"
    eventTypeBuildParams:= "Manual"
    buildParamsParams := &model.RunPipelineDtoParamsBuildParams{
        BuildType: "branch",
        TargetBranch: &targetBranchBuildParams,
        EventType: &eventTypeBuildParams,
    }
    codehubIdParams:= "2111699716"
    defaultBranchParams:= "test-lbdsb11"
    paramsSources := &model.RunPipelineDtoParams{
        GitType: "codehub",
        CodehubId: &codehubIdParams,
        DefaultBranch: &defaultBranchParams,
```

```
    GitUrl: "https://example.com/clsyz00001/111.git",
    BuildParams: buildParamsParams,
  }
  var listSourcesbody = []model.RunPipelineDtoSources{
  {
    Type: "code",
    Params: paramsSources,
  },
  }
  descriptionRunPipelineDto:= "Running description"
  request.Body = &model.RunPipelineDto{
    ChooseJobs: &listChooseJobsbody,
    Variables: &listVariablesbody,
    Description: &descriptionRunPipelineDto,
    Sources: &listSourcesbody,
  }
  response, err := client.RunPipeline(request)
  if err == nil {
    fmt.Printf("%+v\n", response)
  } else {
    fmt.Println(err)
  }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.2 Obtaining Pipeline Statuses in Batches

### Function

This API is used to obtain pipeline status in batches. Only the data with execution records is returned.

### Calling Method

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

## URI

POST /v5/{project\_id}/api/pipelines/status

**Table 4-35** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

## Request Parameters

**Table 4-36** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-37** Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	Pipeline ID list.

## Response Parameters

Status code: 200

**Table 4-38** Response body parameters

Parameter	Type	Description
[items]	Array of <b>PipelineLatestRun</b> objects	OK

**Table 4-39** PipelineLatestRun

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_run_id	String	Pipeline run ID.
executor_id	String	Executor ID.
executor_name	String	Executor name.
stage_status_list	Array of <a href="#">stage_status_list</a> objects	Stage status information.
status	String	Pipeline status.
run_number	Integer	Running number.
trigger_type	String	Trigger type.
build_params	<a href="#">build_params</a> object	Parameters for running a build.
artifact_params	<a href="#">artifact_params</a> object	Parameters for running the Artifact source.
start_time	Long	Start time.
end_time	Long	End time.
modify_url	String	Address of the change page.
detail_url	String	Address of the details page.

**Table 4-40** stage\_status\_list

Parameter	Type	Description
name	String	Stage name.
sequence	Integer	Stage number.
status	String	Stage status.
start_time	String	Stage start time.
end_time	String	Stage end time.

**Table 4-41** build\_params

Parameter	Type	Description
action	String	Event type of the merge request.
build_type	String	Triggered by branch or tag.
commit_id	String	Code repository commit ID.
event_type	String	Event type of triggering.
merge_id	String	Merge request ID.
message	String	Code repository commit information.
source_branch	String	Source branch of the merge request.
tag	String	Tag.
target_branch	String	Target branch.
codehub_id	String	Repo repository ID.
git_url	String	HTTPS address of the code repository.
source_codehub_id	String	Source Repo repository ID.
source_codehub_url	String	Source Repo repository address.
source_codehub_http_url	String	HTTP address of the source Repo repository.

**Table 4-42** artifact\_params

Parameter	Type	Description
version	String	Package version.
branch_filter	String	Branch filter.
package_name	String	Package name.
organization	String	Docker organization information.

## Example Requests

Obtaining Pipeline Statuses in Batches The pipeline ID is d19799d619424b2bb2625ec2d93ea087.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/status  
[ "d19799d619424b2bb2625ec2d93ea087" ]
```

## Example Responses

Status code: 200

OK

```
[{
  "pipeline_id": "d19799d619424b2bb2625ec2d93ea087",
  "pipeline_run_id": "ad6b7f66283a45be9c1f82b06c831e59",
  "executor_id": "847a5317086c41798469d0868535943a",
  "executor_name": "Beta environment account",
  "stage_status_list": [ {
    "name": "Phase_1",
    "sequence": 0,
    "status": "FAILED",
    "start_time": "2023-03-04 16:48:09",
    "end_time": "2023-03-04 16:50:11"
  } ],
  "status": "FAILED",
  "run_number": 2,
  "trigger_type": "Manual",
  "build_params": {
    "action": null,
    "build_type": "branch",
    "commit_id": "fc93c34f906aeb1cc031e3f6f8b2baeac078ae4b",
    "event_type": "Manual",
    "merge_id": null,
    "message": "init",
    "source_branch": null,
    "tag": null,
    "target_branch": "test-lbdsb11",
    "codehub_id": "2111699716",
    "git_url": "https://example.com/clsyz00001/111.git"
  },
  "artifact_params": null,
  "start_time": 1677919688000,
  "end_time": 1677919811000
}]
```

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.3 Obtaining Pipeline Status/Obtaining Pipeline Execution Details

### Function

This API is used to obtain the pipeline status/pipeline execution details. Only the data with execution records is returned.

### Calling Method

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

### URI

GET /v5/{project\_id}/api/pipelines/{pipeline\_id}/pipeline-runs/detail

**Table 4-43** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.

**Table 4-44** Query Parameters

Parameter	Mandatory	Type	Description
pipeline_run_id	No	String	Pipeline run ID.

### Request Parameters

**Table 4-45** 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 <b>X-Subject-Token</b> in the response header is the user token.

### Response Parameters

Status code: 200

**Table 4-46** Response body parameters

Parameter	Type	Description
id	String	Pipeline run ID.
pipeline_id	String	Pipeline ID.
manifest_version	String	Pipeline version.
name	String	Pipeline name.
description	String	Running description.
is_publish	Boolean	Whether the pipeline is a change pipeline.
executor_id	String	Executor ID.
executor_name	String	Executor name.
status	String	Status.
trigger_type	String	Trigger type.
run_number	Integer	Running number.
start_time	Long	Start time.
end_time	Long	End time.
stages	Array of <a href="#">StageRun</a> objects	Stage information.
domain_id	String	Tenant ID.
project_id	String	Project ID.
region	String	Region.
component_id	String	Component ID.
language	String	Language.
sources	Array of <a href="#">RunPipelineSource</a> objects	Running source information.
artifacts	Array of <a href="#">PackageInfo</a> objects	Pipeline running product.
subject_id	String	Pipeline run ID.
group_id	String	Group ID.
group_name	String	Group name.



Parameter	Type	Description
detail_url	String	Address of the details page.
current_system_time	Long	Current system time.

**Table 4-47** StageRun

Parameter	Type	Description
id	String	Stage ID.
category	String	Stage type.
name	String	Stage name.
identifier	String	Unique ID.
run_always	Boolean	Always run or not.
parallel	String	Parallel or not.
is_select	Boolean	Selected or not.
sequence	Integer	Serial number.
depends_on	Array of strings	Dependency.
condition	String	Running conditions.
status	String	Status.
start_time	Long	Start time.
end_time	Long	End time.
pre	Array of <a href="#">StepRun</a> objects	Stage entry.
post	Array of <a href="#">StepRun</a> objects	Stage exit.
jobs	Array of <a href="#">JobRun</a> objects	Job.

**Table 4-48** JobRun

Parameter	Type	Description
id	String	Job ID.
category	String	Job type.
sequence	Integer	Serial number.
async	String	Asynchronous or not.
name	String	Job name.
identifier	String	Unique job ID.
depends_on	Array of strings	Dependency.
condition	String	Running conditions.
resource	String	Execution resource.
is_select	Boolean	Selected or not.
timeout	String	Job timeout settings.
last_dispatch_id	String	Last delivery ID.
status	String	Status.
message	String	Error message.
start_time	Long	Start time.
end_time	Long	End time.
steps	Array of <a href="#">StepRun</a> objects	Step.
exec_id	String	Job execution ID.

**Table 4-49** StepRun

Parameter	Type	Description
name	String	Step name.
task	String	Step extension.
business_type	String	Extension service type.
inputs	Array of <a href="#">inputs</a> objects	Enter a parameter.
sequence	Integer	Serial number.

Parameter	Type	Description
official_task_version	String	Official extension version.
identifier	String	Unique ID.
multi_step_editable	Integer	Whether it is editable.
id	String	Step ID.
endpoint_ids	Array of strings	Endpoint.
last_dispatch_id	String	ID of the last delivery task.
status	String	Status.
message	String	Error message.
start_time	Long	Start time.
end_time	Long	End time.

**Table 4-50** inputs

Parameter	Type	Description
key	String	Enter a parameter name.
value	Object	Enter a parameter value.

**Table 4-51** RunPipelineSource

Parameter	Type	Description
type	String	Source type.
params	<b>params</b> object	Source parameters.

**Table 4-52** params

Parameter	Type	Description
git_type	String	Code repository type.
git_url	String	HTTPS address of the code repository.
ssh_git_url	String	SSH address of the code repository.

Parameter	Type	Description
web_url	String	URL of the code repository.
repo_name	String	Code repository name.
default_branch	String	Default branch.
endpoint_id	String	Endpoint ID.
codehub_id	String	Repo repository ID.
alias	String	Code repository alias.
build_params	<a href="#">build_params</a> object	Build parameters.

**Table 4-53** build\_params

Parameter	Type	Description
action	String	Event type of merge requests.
build_type	String	By branch or by tag
commit_id	String	Code repository commit ID.
event_type	String	Event type for running.
merge_id	String	Merge request ID.
message	String	Code commit message.
source_branch	String	Source branch.
tag	String	Tag.
target_branch	String	Target branch.
codehub_id	String	Repo repository ID.
source_codehub_id	String	Source Repo repository ID.
source_codehub_url	String	Source Repo repository address.
source_codehub_http_url	String	HTTP address of the source Repo repository.

**Table 4-54** PackageInfo

Parameter	Type	Description
name	String	Product name.
packageType	String	Product type.
version	String	Product version.
downloadUrl	String	Product download address.

## Example Requests

```
GET https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/  
e5460d1d403146a1935c2d4b68ef506c/pipeline-runs/detail
```

## Example Responses

**Status code: 200**

OK

```
{  
  "id": "25adfa6784124cfc9b9274ceaecf9957",  
  "pipeline_id": "98b6ea1536374df883bcc3b129bca4e9",  
  "manifest_version": "3.0",  
  "name": "Sub-pipeline qq",  
  "description": null,  
  "is_publish": false,  
  "executor_id": "847a5317086c41798469d0868535943a",  
  "executor_name": "Beta environment account",  
  "status": "COMPLETED",  
  "trigger_type": "Manual",  
  "run_number": 1,  
  "start_time": 1674207197000,  
  "end_time": 1674207197000,  
  "stages": [  
    {  
      "id": "aac8063fbf084eec9722c77ece6dd283",  
      "category": null,  
      "name": "Phase_1",  
      "identifier": "0",  
      "run_always": false,  
      "parallel": null,  
      "is_select": true,  
      "sequence": 0,  
      "depends_on": [ ],  
      "condition": null,  
      "status": "COMPLETED",  
      "start_time": 1674207197000,  
      "end_time": 1674207197000,  
      "pre": [  
        {  
          "name": null,  
          "task": "official_devcloud_autoTrigger",  
          "business_type": null,  
          "inputs": null,  
          "sequence": 0,  
          "official_task_version": null,  
          "identifier": null,  
          "multi_step_editable": 0,  
          "id": "5a03bdb6ad2848ac972ba21744627a8c",  
          "endpoint_ids": null,  
          "last_dispatch_id": "6b3fa4c664844f33abc02053ddd76f62",  
          "status": "COMPLETED",
```

```
"message": null,
"start_time": 1674207197000,
"end_time": 1674207197000
}],
"post": [],
"jobs": [{
  "id": "1cde6a3815164cd18d0fa4038f876e46",
  "category": null,
  "sequence": 0,
  "async": null,
  "name": "Creating a Job",
  "identifier": "1674207161661b4a41d77-a478-4538-870b-ffb589c1af06",
  "depends_on": [],
  "condition": null,
  "resource": null,
  "is_select": true,
  "timeout": "",
  "last_dispatch_id": null,
  "status": "COMPLETED",
  "message": "not found steps",
  "start_time": 1674207197000,
  "end_time": 1674207197000,
  "steps": []
}]
}],
"domain_id": "ce8df55870164338a72d7e828a966a2a",
"project_id": "6428c2e2b4b64affa14ec80896695c49",
"region": "region01",
"component_id": "",
"language": "zh-cn",
"sources": [{
  "type": "code",
  "params": {
    "git_type": "codehub",
    "git_url": "https://example.com/clsyz00001/aaaaa.git",
    "ssh_git_url": "git@example.com:clsyz00001/aaaaa.git",
    "web_url": "",
    "repo_name": "aaaaa",
    "default_branch": "master",
    "endpoint_id": "",
    "codehub_id": "2111677704",
    "alias": "",
    "build_params": {
      "action": null,
      "build_type": "branch",
      "commit_id": "990ea057751d299f5575aac25bf97e88a60b461e",
      "event_type": "Manual",
      "merge_id": null,
      "message": "Creating a Dockerfile",
      "source_branch": null,
      "tag": null,
      "target_branch": "master",
      "codehub_id": "2111677704"
    }
  }
}
}],
"artifacts": null,
"subject_id": "25adfa6784124cfc9b9274ceaecf9957"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ShowPipelineRunDetailSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPipelineRunDetailRequest request = new ShowPipelineRunDetailRequest();
        request.withPipelineRunId("<pipeline_run_id>");
        try {
            ShowPipelineRunDetailResponse response = client.showPipelineRunDetail(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)
```

```
client = CodeArtsPipelineClient.new_builder() \  
  .with_credentials(credentials) \  
  .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
  .build()  
  
try:  
  request = ShowPipelineRunDetailRequest()  
  request.pipeline_run_id = "<pipeline_run_id>"  
  response = client.show_pipeline_run_detail(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"  
  codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
  "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
  region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
  // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
  risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
  variables and decrypted during use to ensure security.  
  // In this example, AK and SK are stored in environment variables for authentication. Before running this  
  example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
  ak := os.Getenv("CLOUD_SDK_AK")  
  sk := os.Getenv("CLOUD_SDK_SK")  
  
  auth := basic.NewCredentialsBuilder().  
    WithAk(ak).  
    WithSk(sk).  
    Build()  
  
  client := codeartspipeline.NewCodeArtsPipelineClient(  
    codeartspipeline.CodeArtsPipelineClientBuilder().  
      WithRegion(region.ValueOf("<YOUR REGION>")).  
      WithCredential(auth).  
      Build())  
  
  request := &model.ShowPipelineRunDetailRequest{  
    pipelineRunIdRequest:= "<pipeline_run_id>"  
  }  
  request.PipelineRunId = &pipelineRunIdRequest  
  response, err := client.ShowPipelineRunDetail(request)  
  if err == nil {  
    fmt.Printf("%+v\n", response)  
  } else {  
    fmt.Println(err)  
  }  
}
```

## More

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



## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.4 Obtaining Pipeline List/Pipeline Execution Status in a Project

### Function

This API is used to obtain pipeline list and pipeline execution status in a project.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipelines/list

**Table 4-55** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

## Request Parameters

**Table 4-56** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-57** Request body parameters

Parameter	Mandatory	Type	Description
project_ids	No	Array of strings	Project IDs.
component_id	No	String	Component ID.
name	No	String	Pipeline name. Fuzzy search is supported.
status	No	Array of strings	Status.
is_publish	No	Boolean	Whether the pipeline is a change pipeline.
creator_ids	No	Array of strings	Creator IDs.
executor_ids	No	Array of strings	Executor IDs.
start_time	No	String	Start time.
end_time	No	String	End time.
offset	No	Long	Initial offset.
limit	No	Long	Number of queried records.
sort_key	No	String	Sorting field name.
sort_dir	No	String	Sorting rule.
group_path_id	No	String	Pipeline group ID.
by_group	No	Boolean	Whether to query by group.
query_new	No	Boolean	Whether to query only the new-version pipelines.

## Response Parameters

Status code: 200

**Table 4-58** Response body parameters

Parameter	Type	Description
offset	Integer	Initial offset.
limit	Integer	Query size.
total	Integer	Total number.
pipelines	Array of <b>pipelines</b> objects	Pipeline.

**Table 4-59** pipelines

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
name	String	Pipeline name.
project_id	String	Project ID.
project_name	String	Project name.
component_id	String	Component ID.
is_publish	Boolean	Whether the pipeline is a change pipeline.
is_collect	Boolean	Whether to follow the pipeline.
manifest_version	String	Pipeline version.
create_time	Long	Creation time.
latest_run	<b>latest_run</b> object	Latest execution information.
convert_sign	Integer	Flag of switching from old version to new version.

**Table 4-60** latest\_run

Parameter	Type	Description
pipeline_id	String	Pipeline ID.

Parameter	Type	Description
pipeline_run_id	String	Pipeline run ID.
executor_id	String	Executor ID.
executor_name	String	Executor name.
stage_status_list	Array of <a href="#">stage_status_list</a> objects	Stage information list.
status	String	Status.
run_number	Integer	Running number.
trigger_type	String	Trigger type.
build_params	<a href="#">build_params</a> object	Build parameters.
artifact_params	<a href="#">artifact_params</a> object	Artifact source parameters.
start_time	Long	Start time.
end_time	Long	End time.
modify_url	String	Address of the change page.
detail_url	String	Address of the details page.

**Table 4-61** stage\_status\_list

Parameter	Type	Description
name	String	Stage name.
sequence	Integer	Serial number.
status	String	Status.
start_time	String	Start time.
end_time	String	End time.
id	String	Stage ID.

**Table 4-62** build\_params

Parameter	Type	Description
action	String	Event type of the merge request.
build_type	String	Run by branch or by tag.
commit_id	String	Code repository commit ID.
event_type	String	Event type for running.
merge_id	String	Merge request ID.
message	String	Code commit message.
source_branch	String	Source branch.
tag	String	Tag.
target_branch	String	Target branch.
codehub_id	String	Repo repository ID.
git_url	String	HTTPS address of the code repository.
source_codehub_id	String	Source Repo repository ID.
source_codehub_url	String	Source Repo repository address.
source_codehub_http_url	String	HTTP address of the source Repo repository.

**Table 4-63** artifact\_params

Parameter	Type	Description
version	String	Package version.
branch_filter	String	Branch filter.
package_name	String	Package name.
organization	String	Docker organization.

## Example Requests

This API is used to obtain the pipeline list. Set the start offset to 0 and the number to 10.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/list
{
  "offset" : 0,
```

```
"limit" : 10,  
"name" : ""  
}
```

## Example Responses

**Status code: 200**

OK

```
{  
  "offset" : 0,  
  "limit" : 10,  
  "total" : 1,  
  "pipelines" : [ {  
    "pipeline_id" : "cd65d6f2dc17493e97eb5175f872761a",  
    "name" : "New Pipeline - 20230222181032",  
    "project_id" : "6428c2e2b4b64affa14ec80896695c49",  
    "component_id" : "7bb171e9e9fc415dbd1666ceb68668da",  
    "is_publish" : true,  
    "is_collect" : false,  
    "manifest_version" : "3.0",  
    "create_time" : 1677060662000,  
    "latest_run" : {  
      "pipeline_id" : "cd65d6f2dc17493e97eb5175f872761a",  
      "pipeline_run_id" : "88a195482b8a48a1808e87ec21565c2f",  
      "executor_id" : "847a5317086c41798469d0868535943a",  
      "executor_name" : "Beta environment account",  
      "stage_status_list" : [ {  
        "name" : "Merge Integration Branch",  
        "sequence" : 0,  
        "status" : "FAILED",  
        "start_time" : "2023-02-22 18:12:25",  
        "end_time" : "2023-02-22 18:12:32"  
      } ],  
      "name" : "Phase_1",  
      "sequence" : 1,  
      "status" : "INIT",  
      "start_time" : null,  
      "end_time" : null  
    }, {  
      "name" : "Combining Trunks",  
      "sequence" : 1,  
      "status" : "INIT",  
      "start_time" : null,  
      "end_time" : null  
    } ],  
    "status" : "FAILED",  
    "run_number" : 1,  
    "trigger_type" : "Manual",  
    "build_params" : null,  
    "artifact_params" : null,  
    "start_time" : 1677060745000,  
    "end_time" : 1677060752000  
  }  
]
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

This API is used to obtain the pipeline list. Set the start offset to 0 and the number to 10.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPipelinesSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        ListPipelinesRequest request = new ListPipelinesRequest();
        ListPipelineQuery body = new ListPipelineQuery();
        body.withLimit(10L);
        body.withOffset(0L);
        body.withName("");
        request.withBody(body);
        try {
            ListPipelinesResponse response = client.listPipelines(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

This API is used to obtain the pipeline list. Set the start offset to 0 and the number to 10.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
# In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = ListPipelinesRequest()
    request.body = ListPipelineQuery(
        limit=10,
        offset=0,
        name=""
    )
    response = client.list_pipelines(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

This API is used to obtain the pipeline list. Set the start offset to 0 and the number to 10.

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPipelinesRequest{}
    limitListPipelineQuery:= int64(10)
    offsetListPipelineQuery:= int64(0)
    nameListPipelineQuery:= ""
    request.Body = &model.ListPipelineQuery{
```



```
Limit: &limitListPipelineQuery,  
Offset: &offsetListPipelineQuery,  
Name: &nameListPipelineQuery,  
}  
response, err := client.ListPipelines(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.5 Deleting a Pipeline

### Function

This API is used to delete a pipeline.

### Calling Method

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

### URI

DELETE /v5/{project\_id}/api/pipelines/{pipeline\_id}

**Table 4-64** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Pipeline ID.

## Request Parameters

**Table 4-65** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-66** Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.

## Example Requests

```
DELETE https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/  
e5460d1d403146a1935c2d4b68ef506c
```

## Example Responses

**Status code: 200**

OK

```
{  
  "pipeline_id" : "e5460d1d403146a1935c2d4b68ef506c"  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class DeletePipelineSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeletePipelineRequest request = new DeletePipelineRequest();
        try {
            DeletePipelineResponse response = client.deletePipeline(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
```

```
.with_credentials(credentials) \  
.with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
.build()  
  
try:  
    request = DeletePipelineRequest()  
    response = client.delete_pipeline(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.DeletePipelineRequest{}  
    response, err := client.DeletePipeline(request)  
    if err == nil {  
        fmt.Printf("%+v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.6 Querying Pipeline Details

### Function

Querying Pipeline Details

### Calling Method

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

### URI

GET /v5/{project\_id}/api/pipelines/{pipeline\_id}

**Table 4-67** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.

## Request Parameters

**Table 4-68** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200****Table 4-69** Response body parameters

Parameter	Type	Description
id	String	Pipeline ID
name	String	Pipeline name
description	String	Description
manifest_version	String	Pipeline version.
region	String	Site
domain_id	String	Tenant ID.
project_id	String	Project ID
component_id	String	Indicates the microservice ID.
is_publish	Boolean	Indicates whether the pipeline is a change pipeline.
creator_id	String	Creator ID.
creator_name	String	Creator name
updater_id	String	Updater ID
create_time	Long	Updated by
update_time	Long	Updated
is_collect	Boolean	Indicates whether the content is added to favorites by the current user.

Parameter	Type	Description
sources	Array of <a href="#">PipelineSource</a> objects	Pipeline Source
variables	Array of <a href="#">PipelineVariable</a> objects	Customized pipeline parameters
schedules	Array of <a href="#">PipelineSchedule</a> objects	Pipeline Scheduled Task Settings
triggers	Array of <a href="#">PipelineTrigger</a> objects	Pipeline Event Triggering Settings
group_id	String	ID of the group to which the pipeline belongs.
definition	String	Define a pipeline

**Table 4-70** PipelineSource

Parameter	Type	Description
type	String	Pipeline Source Type
params	<a href="#">PipelineSourceParam</a> object	Pipeline Source Parameters

**Table 4-71** PipelineSourceParam

Parameter	Type	Description
alias	String	Code/Artifact source parameter: alias of the code repository/artifact source. The alias can contain a maximum of 128 characters, including uppercase letters, lowercase letters, digits, and underscores (_).
git_type	String	Code source parameter - Git Type
codehub_id	String	Code source parameter - Repo code repository ID
endpoint_id	String	Code source parameter - Endpoint ID
default_branch	String	Code source parameters - Default Branch
git_url	String	Code source parameters - Git Link

Parameter	Type	Description
ssh_git_url	String	Code source parameters - ssh_git Link
web_url	String	Code source parameter - Web Page URL
repo_name	String	Code source parameter - Pipeline source name
artifact_type	String	Artifact source parameter - Artifact source type. The options are generic and docker.
artifact_type_name	String	Artifact source parameter - Artifact source type name
branch_filter	String	Artifact source parameter - Filter Branch
directory	String	Artifact source parameter - Directory
directory_id	String	Artifact source parameter - Directory ID
organization	String	Artifact source parameters - Docker Organization
package_name	String	Artifact source parameter - Package name
version	String	Artifact source parameter - Version
version_strategy	String	Artifact source parameter - Policy for obtaining the artifact source version. The value can be latest or specificVersion.
source_system	String	Artifact source parameter - Artifact source name

**Table 4-72** PipelineVariable

Parameter	Type	Description
name	String	Parameter
sequence	Integer	No.
type	String	Type
value	String	Default Value
is_secret	Boolean	Private or Not
description	String	Description
is_runtime	Boolean	Indicates whether to set during running.
limits	Array of strings	Enumerated Value
is_reset	Boolean	Whether the auto-increment parameter is reset



Parameter	Type	Description
latest_value	String	Latest value of the auto-increment parameter

**Table 4-73** PipelineSchedule

Parameter	Type	Description
uuid	String	Job ID.
type	String	Job type.
name	String	Job name.
enable	String	Available or not.
days_of_week	Array of integers	Specific time in one week.
time_zone	String	Time zone.

**Table 4-74** PipelineTrigger

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
git_url	String	Git URL.
git_type	String	Git type.
is_auto_commit	Boolean	Whether to automatically commit.
events	Array of <b>CodeEvent</b> objects	Event.
hook_id	String	Callback ID.
repo_id	String	Repository ID.
endpoint_id	String	Endpoint ID.
callback_url	String	Callback URL.
security_token	String	User token.



## 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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowPipelineDetailSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPipelineDetailRequest request = new ShowPipelineDetailRequest();
        try {
            ShowPipelineDetailResponse response = client.showPipelineDetail(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

```
credentials = BasicCredentials(ak, sk)

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

try:
    request = ShowPipelineDetailRequest()
    response = client.show_pipeline_detail(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.7 Editing a Pipeline

### Function

This API is used to edit a pipeline.

### Calling Method

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

### URI

PUT /v5/{project\_id}/api/pipelines/{pipeline\_id}

**Table 4-76** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.

**Table 4-77** Query Parameters

Parameter	Mandatory	Type	Description
componentId	No	String	Microservice ID.

## Request Parameters

**Table 4-78** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-79** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Pipeline name.
description	No	String	Pipeline description.
is_publish	Yes	Boolean	Whether the pipeline is a release pipeline.
sources	No	Array of <b>CodeSource</b> objects	Pipeline source.
variables	No	Array of <b>CustomVariable</b> objects	Pipeline custom global variables.
schedules	No	Array of <b>PipelineSchedule</b> objects	Pipeline scheduled execution configuration.
triggers	No	Array of <b>PipelineTrigger</b> objects	Pipeline code event triggering configuration.
manifest_version	No	String	Pipeline structure definition version. Default: 3.0. (New version)
definition	Yes	String	Pipeline structure definition.
project_name	No	String	Project name.
group_id	No	String	Pipeline group ID.
id	No	String	In the replication scenario, the value is the original pipeline ID.

Parameter	Mandatory	Type	Description
concurrency_control	No	<a href="#">PipelineConcurrencyMgmt</a> object	Pipeline parallel policy management

**Table 4-80** CodeSource

Parameter	Mandatory	Type	Description
type	No	String	Pipeline source type.
params	No	<a href="#">params</a> object	Pipeline source parameters.

**Table 4-81** params

Parameter	Mandatory	Type	Description
git_type	No	String	Git type.
codehub_id	No	String	Repo repository ID.
endpoint_id	No	String	Endpoint ID.
default_branch	No	String	Default branch.
git_url	No	String	Git URL.
ssh_git_url	No	String	SSH_Git URL.
web_url	No	String	Web URL.
repo_name	No	String	Pipeline source name.
alias	No	String	Code repository alias. The alias can contain a maximum of 128 characters, including letters, digits, and underscores (_).

**Table 4-82** CustomVariable

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
name	No	String	Custom parameter name.
sequence	No	Integer	Custom parameter sequence.

Parameter	Mandatory	Type	Description
type	No	String	Custom parameter type.
value	No	String	Default values of custom parameters.
is_secret	No	Boolean	Private parameter or not.
description	No	String	Custom parameter description.
is_runtime	No	Boolean	Runtime setting or not.
limits	No	Array of objects	Limited enumerated value.
is_reset	No	Boolean	Reset or not.
latest_value	No	String	Latest parameter value.
runtime_value	No	String	Runtime input value.

**Table 4-83** PipelineSchedule

Parameter	Mandatory	Type	Description
uuid	No	String	Job ID.
type	No	String	Job type.
name	No	String	Job name.
enable	No	String	Available or not.
days_of_week	No	Array of integers	Specific time in one week.
time_zone	No	String	Time zone.

**Table 4-84** PipelineTrigger

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
git_url	No	String	Git URL.
git_type	No	String	Git type.
is_auto_commit	No	Boolean	Whether to automatically commit.



Parameter	Mandatory	Type	Description
events	No	Array of <a href="#">CodeEvent</a> objects	Event.
hook_id	No	String	Callback ID.
repo_id	No	String	Repository ID.
endpoint_id	No	String	Endpoint ID.
callback_url	No	String	Callback URL.
security_token	No	String	User token.

**Table 4-85** CodeEvent

Parameter	Mandatory	Type	Description
type	No	String	Event type.
enable	No	Boolean	Available or not.

**Table 4-86** PipelineConcurrencyMgmt

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
concurrency_number	No	Integer	Parallel number.
exceed_action	No	String	Policy for exceeding the allowed parallel number.
create_time	No	Long	Creation time.
update_time	No	Long	Update time.
enable	No	Boolean	Whether it is valid.

## Response Parameters

**Status code: 200**

**Table 4-87** Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.

## Example Requests

PUT https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines/  
dab5232b7b354b6db37e695690218c9b?componentId=

```
{
  "id": "c0473f77481c4a12b254012876df71b6",
  "name": "NewPipeline-20240202101359",
  "description": null,
  "manifest_version": 3.0,
  "is_publish": false,
  "sources": [ ],
  "variables": [ ],
  "schedules": null,
  "triggers": [ ],
  "project_name": null,
  "group_id": null,
  "concurrency_control": {
    "pipeline_id": null,
    "concurrency_number": 5,
    "exceed_action": "ABORT",
    "create_time": null,
    "update_time": null,
    "enable": false
  },
  "definition": "{\n  \"stages\": [\n    {\n      \"name\": \"Stage_1\",\n      \"sequence\": \"0\",\n      \"jobs\": [\n        {\n          \"id\": \"\",\n          \"stage_id\": \"1706840051315\",\n          \"identifier\": \"JOB_HwdAJ\",\n          \"name\": \"Subpipeline\",\n          \"depends_on\": [],\n          \"timeout\": \"\",\n          \"timeout_unit\": \"\",\n          \"steps\": [\n            {\n              \"name\": \"Subpipeline\",\n              \"task\": \"official_devcloud_subPipeline\",\n              \"sequence\": \"0\",\n              \"inputs\": [\n                {\n                  \"key\": \"SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID\",\n                  \"value\": \"dab5232b7b354b6db37e695690218c9b\",\n                  \"key\": \"_OFFICIAL_DEVCLOUD_JOB_NAME_\",\n                  \"value\": \"NewPipeline-blank\",\n                  \"key\": \"_OFFICIAL_DEVCLOUD_JOB_VERSION_\",\n                  \"value\": \"3.0\"\n                }\n              ],\n              \"business_type\": \"Normal\",\n              \"runtime_attribution\": {\n                \"agent\": \"identifier\",\n                \"multi_step_editable\": \"1706840079615af0c7bda-8885-4c31-b9e8-1b393b5b0e97\",\n                \"official_task_version\": \"0.0.18\",\n                \"endpoint_ids\": []\n              },\n              \"resource\": {\n                \"type\": \"system\",\n                \"arch\": \"x86\",\n                \"condition\": \"${ default() }\",\n                \"exec_type\": \"OCTOPUS_JOB\",\n                \"sequence\": \"0\",\n                \"pipeline_id\": \"c0473f77481c4a12b254012876df71b6\",\n                \"identifier\": \"1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84\",\n                \"pre\": [\n                  {\n                    \"task\": \"official_devcloud_autoTrigger\",\n                    \"sequence\": \"0\",\n                    \"post\": null,\n                    \"depends_on\": [],\n                    \"run_always\": false,\n                    \"pipeline_id\": \"c0473f77481c4a12b254012876df71b6\"\n                  }\n                ]\n              }\n            }\n          ]\n        }\n      ]\n    }\n  ]\n}"
```

## Example Responses

**Status code: 200**

OK

```
{
  "pipeline_id": "8bfd69eac154a0da341705a36294aca"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
```

```
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

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

public class UpdatePipelineInfoSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        UpdatePipelineInfoRequest request = new UpdatePipelineInfoRequest();
        request.withComponentId("<componentId>");
        PipelineDTO body = new PipelineDTO();
        PipelineConcurrencyMgmt concurrencyControlbody = new PipelineConcurrencyMgmt();
        concurrencyControlbody.withConcurrencyNumber(5)
            .withExceedAction("ABORT")
            .withEnable(false);
        body.withConcurrencyControl(concurrencyControlbody);
        body.withId("c0473f77481c4a12b254012876df71b6");
        body.withDefinition("{\"stages\": [{\"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\":
[[{\"id\": \"\", \"stage_id\": \"1706840051315\", \"identifier\": \"JOB_HwdAJ\", \"name\": \"Subpipeline\", \"depends_on\":
[], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[{\"name\": \"Subpipeline\", \"task\": \"official_devcloud_subPipeline\", \"sequence\": 0, \"inputs\":
[{\"key\": \"SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID\", \"value\": \"dab5232b7b354b6db37e695690218c9b\"},
{\"key\": \"_OFFICIAL_DEVCLOUD_JOB_NAME_\", \"value\": \"NewPipeline-blank\"},
{\"key\": \"_OFFICIAL_DEVCLOUD_JOB_VERSION_\", \"value\": \"3.0\"}], \"business_type\": \"Normal\", \"runtime_attributio
n\": \"agent\", \"identifier\": \"1706840079615af0c7bda-8885-4c31-
b9e8-1b393b5b0e97\", \"multi_step_editable\": 0, \"official_task_version\": \"0.0.18\", \"endpoint_ids\":
[]}], \"resource\": \"{\\\"type\\\": \\\"system\\\", \\\"arch\\\": \\\"x86\\\"}\", \"condition\": \"$
{{ default() }}\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": 0, \"pipeline_id\": \"c0473f77481c4a12b254012876df71
b6\"}], \"identifier\": \"1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84\", \"pre\":
[{\"task\": \"official_devcloud_autoTrigger\", \"sequence\": 0}], \"post\": null, \"depends_on\":
[], \"run_always\": false, \"pipeline_id\": \"c0473f77481c4a12b254012876df71b6\"}]}");
        body.withManifestVersion("3.0");
        body.withIsPublish(false);
        body.withName("NewPipeline-20240202101359");
        request.withBody(body);
        try {
            UpdatePipelineInfoResponse response = client.updatePipelineInfo(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdatePipelineInfoRequest()
        request.component_id = "<componentId>"
        concurrencyControlbody = PipelineConcurrencyMgmt(
            concurrency_number=5,
            exceed_action="ABORT",
            enable=False
        )
        request.body = PipelineDTO(
            concurrency_control=concurrencyControlbody,
            id="c0473f77481c4a12b254012876df71b6",
            definition="{\"stages\":[{\"name\":\"Stage_1\",\"sequence\":\"0\",\"jobs\":
[\"id\":\"\",\"stage_id\":\"1706840051315\",\"identifier\":\"JOB_HwdAJ\",\"name\":\"Subpipeline\",\"depends_on\":
[],\"timeout\":\"\",\"timeout_unit\":\"\",\"steps\":
[\"name\":\"Subpipeline\",\"task\":\"official_devcloud_subPipeline\",\"sequence\":\"0\",\"inputs\":
[\"key\":\"SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID\",\"value\":\"dab5232b7b354b6db37e695690218c9b\"],
\"key\":\"_OFFICIAL_DEVCLOUD_JOB_NAME_\",\"value\":\"NewPipeline-blank\"],
\"key\":\"_OFFICIAL_DEVCLOUD_JOB_VERSION_\",\"value\":\"3.0\"}],\"business_type\":\"Normal\",\"runtime_attributio
n\":\"agent\",\"identifier\":\"1706840079615af0c7bda-8885-4c31-
b9e8-1b393b5b0e97\",\"multi_step_editable\":\"0\",\"official_task_version\":\"0.0.18\",\"endpoint_ids\":
[]},\"resource\":{\"type\":\"system\",\"arch\":\"x86\"},\"condition\":\"$
{{ default() }}\",\"exec_type\":\"OCTOPUS_JOB\",\"sequence\":\"0\",\"pipeline_id\":\"c0473f77481c4a12b254012876df71
b6\"}],\"identifier\":\"1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84\",\"pre\":
[\"task\":\"official_devcloud_autoTrigger\",\"sequence\":\"0\"],\"post\":null,\"depends_on\":
[],\"run_always\":false,\"pipeline_id\":\"c0473f77481c4a12b254012876df71b6\"}}\",
            manifest_version="3.0",
            is_publish=False,
            name="NewPipeline-20240202101359"
        )
        response = client.update_pipeline_info(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"
codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePipelineInfoRequest{
        componentIdRequest:= "<componentId>"
        request.ComponentId = &componentIdRequest
        concurrencyNumberConcurrencyControl:= int32(5)
        exceedActionConcurrencyControl:= "ABORT"
        enableConcurrencyControl:= false
        concurrencyControlbody := &model.PipelineConcurrencyMgmt{
            ConcurrencyNumber: &concurrencyNumberConcurrencyControl,
            ExceedAction: &exceedActionConcurrencyControl,
            Enable: &enableConcurrencyControl,
        }
    }
    idPipelineDto:= "c0473f77481c4a12b254012876df71b6"
    manifestVersionPipelineDto:= "3.0"
    request.Body = &model.PipelineDto{
        ConcurrencyControl: concurrencyControlbody,
        Id: &idPipelineDto,
        Definition: "{\"stages\": [{\"name\": \"Stage_1\", \"sequence\": \"0\", \"jobs\":
    [{\"id\": \"\", \"stage_id\": \"1706840051315\", \"identifier\": \"JOB_HwdAJ\", \"name\": \"Subpipeline\", \"depends_on\":
    [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
    [{\"name\": \"Subpipeline\", \"task\": \"official_devcloud_subPipeline\", \"sequence\": \"0\", \"inputs\":
    [{\"key\": \"SYSTEM_DEVCLOUD_SUBPIPELINE_TRIGGER_ID\", \"value\": \"dab5232b7b354b6db37e695690218c9b\"},
    {\"key\": \"_OFFICIAL_DEVCLOUD_JOB_NAME_\", \"value\": \"NewPipeline-blank\"},
    {\"key\": \"_OFFICIAL_DEVCLOUD_JOB_VERSION_\", \"value\": \"3.0\"}], \"business_type\": \"Normal\", \"runtime_attributio
    n\": \"agent\", \"identifier\": \"1706840079615af0c7bda-8885-4c31-
    b9e8-1b393b5b0e97\", \"multi_step_editable\": \"0\", \"official_task_version\": \"0.0.18\", \"endpoint_ids\":
    []}], \"resource\": {\"type\": \"system\", \"arch\": \"x86\"}, \"condition\": \"$
    {{ default() }}\", \"exec_type\": \"OCTOPUS_JOB\", \"sequence\": \"0\", \"pipeline_id\": \"c0473f77481c4a12b254012876df71
    b6\"}], \"identifier\": \"1706840051315bca51592-c211-49fe-ab76-bcf86f5efa84\", \"pre\":
    [{\"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\"}], \"post\": null, \"depends_on\":
    [], \"run_always\": false, \"pipeline_id\": \"c0473f77481c4a12b254012876df71b6\"}]\"},
        ManifestVersion: &manifestVersionPipelineDto,
        IsPublish: false,
        Name: "NewPipeline-20240202101359",
    }
    response, err := client.UpdatePipelineInfo(request)
    if err == nil {
        fmt.Printf("%+v\\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.8 Stopping a Pipeline

### Function

This API is used to stop a pipeline.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipelines/{pipeline\_id}/pipeline-runs/{pipeline\_run\_id}/stop

**Table 4-88** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.
pipeline_run_id	Yes	String	Pipeline run ID.

## Request Parameters

**Table 4-89** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-90** Response body parameters

Parameter	Type	Description
success	Boolean	Whether the operation is successful.

## Example Requests

```
POST https://{endpoint}/v5/93d8e0553c20411fba06bb112b5b59af/api/pipelines/  
794514e0a3184e5db0a4740112deee0f/pipeline-runs/de6c9098f45a4ac58a6efc9c1b81df82/stop
```

## Example Responses

**Status code: 200**

OK

```
{  
  "success" : true  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;
```

```
public class StopPipelineRunSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        StopPipelineRunRequest request = new StopPipelineRunRequest();
        try {
            StopPipelineRunResponse response = client.stopPipelineRun(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = StopPipelineRunRequest()
        response = client.stop_pipeline_run(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.9 Obtaining Pipeline Execution Records

### Function

This API is used to obtain pipeline execution records.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipelines/{pipeline\_id}/pipeline-runs/list

**Table 4-91** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.

### Request Parameters

**Table 4-92** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-93** Request body parameters

Parameter	Mandatory	Type	Description
status	No	Array of strings	Status.

Parameter	Mandatory	Type	Description
start_time	No	String	Start time.
end_time	No	String	End time.
offset	No	Long	Initial offset.
limit	No	Long	Query size.
sort_key	No	String	Sorting field name.
sort_dir	No	String	Sorting rule.

## Response Parameters

Status code: 200

**Table 4-94** Response body parameters

Parameter	Type	Description
offset	Integer	Initial offset.
limit	Integer	Query size.
total	Integer	Total number.
pipeline_runs	Array of <a href="#">pipeline_runs</a> objects	Pipeline running information.

**Table 4-95** pipeline\_runs

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_run_id	String	Pipeline run ID.
executor_id	String	Executor ID.
executor_name	String	Executor name.
stage_status_list	Array of <a href="#">stage_status_list</a> objects	Stage information.
status	String	Status.
run_number	Integer	Running number.

Parameter	Type	Description
trigger_type	String	Trigger type.
build_params	<a href="#">build_params</a> object	Build parameters.
artifact_params	<a href="#">artifact_params</a> object	Artifact source parameters.
start_time	Long	Start time.
end_time	Long	End time.
detail_url	String	Address of the details page.
modify_url	String	Address of the change page.

**Table 4-96** stage\_status\_list

Parameter	Type	Description
name	String	Stage name.
sequence	Integer	Serial number.
status	String	Status.
start_time	String	Start time.
end_time	String	End time.
id	String	Stage ID.

**Table 4-97** build\_params

Parameter	Type	Description
action	String	Event type of merge requests.
build_type	String	Triggered by branch or by tag.
commit_id	String	Code repository commit ID.
event_type	String	Event type for running.
merge_id	String	Merge request ID.
message	String	Code commit message.
source_branch	String	Source branch.
tag	String	Tag.
target_branch	String	Target branch.

Parameter	Type	Description
codehub_id	String	Repo repository ID.
git_url	String	HTTPS address of the code repository.
source_codehub_id	String	Source Repo repository ID.
source_codehub_url	String	Source Repo repository address.
source_codehub_http_url	String	HTTP address of the source Repo repository.

**Table 4-98** artifact\_params

Parameter	Type	Description
version	String	Package version.
branch_filter	String	Branch filter.
package_name	String	Package name.
organization	String	Docker organization.

## Example Requests

This API is used to obtain pipeline execution records. Set the start offset to 0, quantity to 10, start timestamp to 1677513600000, and end timestamp to 1678118399000, and sort the query results in descending order of the start time.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipelines/e5460d1d403146a1935c2d4b68ef506c/pipeline-runs/list
```

```
{
  "offset" : 0,
  "limit" : 10,
  "status" : [ "COMPLETED", "RUNNING", "FAILED", "CANCELED", "PAUSED", "SUSPEND", "QUEUED" ],
  "sort_key" : "start_time",
  "sort_dir" : "DESC",
  "start_time" : 1677513600000,
  "end_time" : 1678118399000
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 1,
}
```

```
"pipeline_runs": [ {
  "pipeline_id": "24949d4f4453495f8e5a76f993af7f43",
  "pipeline_run_id": "ddb7532cb0e948f2af7bb4397fc19864",
  "executor_id": "847a5317086c41798469d0868535943a",
  "executor_name": "Beta environment account",
  "stage_status_list": [ {
    "name": "Phase_1",
    "sequence": 0,
    "status": "COMPLETED",
    "start_time": "2023-03-06 10:04:46",
    "end_time": "2023-03-06 10:04:46"
  } ],
  "status": "COMPLETED",
  "run_number": 11,
  "trigger_type": "Manual",
  "build_params": {
    "action": null,
    "build_type": "branch",
    "commit_id": "990ea057751d299f5575aac25bf97e88a60b461e",
    "event_type": "Manual",
    "merge_id": null,
    "message": "Creating a Dockerfile",
    "source_branch": null,
    "tag": null,
    "target_branch": "cloud_pipeline_release_1674026917209",
    "codehub_id": "2111677704",
    "git_url": "https://example.com/clsyz00001/aaaaa.git"
  },
  "artifact_params": null,
  "start_time": 1678066487000,
  "end_time": 1678066488000
} ]
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

This API is used to obtain pipeline execution records. Set the start offset to 0, quantity to 10, start timestamp to 1677513600000, and end timestamp to 1678118399000, and sort the query results in descending order of the start time.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

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

public class ListPipelineRunsSolution {

    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);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ListPipelineRunsRequest request = new ListPipelineRunsRequest();
ListPipelineRunsQuery body = new ListPipelineRunsQuery();
List<String> listbodyStatus = new ArrayList<>();
listbodyStatus.add("COMPLETED");
listbodyStatus.add("RUNNING");
listbodyStatus.add("FAILED");
listbodyStatus.add("CANCELED");
listbodyStatus.add("PAUSED");
listbodyStatus.add("SUSPEND");
listbodyStatus.add("QUEUED");
body.withSortDir("DESC");
body.withSortKey("start_time");
body.withLimit(10L);
body.withOffset(0L);
body.withEndTime("1678118399000");
body.withStartTime("1677513600000");
body.withStatus(listbodyStatus);
request.withBody(body);
try {
    ListPipelineRunsResponse response = client.listPipelineRuns(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

This API is used to obtain pipeline execution records. Set the start offset to 0, quantity to 10, start timestamp to 1677513600000, and end timestamp to 1678118399000, and sort the query results in descending order of the start time.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

```
credentials = BasicCredentials(ak, sk)

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

try:
    request = ListPipelineRunsRequest()
    listStatusbody = [
        "COMPLETED",
        "RUNNING",
        "FAILED",
        "CANCELED",
        "PAUSED",
        "SUSPEND",
        "QUEUED"
    ]
    request.body = ListPipelineRunsQuery(
        sort_dir="DESC",
        sort_key="start_time",
        limit=10,
        offset=0,
        end_time="1678118399000",
        start_time="1677513600000",
        status=listStatusbody
    )
    response = client.list_pipeline_runs(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

This API is used to obtain pipeline execution records. Set the start offset to 0, quantity to 10, start timestamp to 1677513600000, and end timestamp to 1678118399000, and sort the query results in descending order of the start time.

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
```



```
WithCredential(auth).
Build()

request := &model.ListPipelineRunsRequest{}
var listStatusbody = []string{
    "COMPLETED",
    "RUNNING",
    "FAILED",
    "CANCELED",
    "PAUSED",
    "SUSPEND",
    "QUEUED",
}
sortDirListPipelineRunsQuery:= "DESC"
sortKeyListPipelineRunsQuery:= "start_time"
limitListPipelineRunsQuery:= int64(10)
offsetListPipelineRunsQuery:= int64(0)
endTimeListPipelineRunsQuery:= "1678118399000"
startTimeListPipelineRunsQuery:= "1677513600000"
request.Body = &model.ListPipelineRunsQuery{
    SortDir: &sortDirListPipelineRunsQuery,
    SortKey: &sortKeyListPipelineRunsQuery,
    Limit: &limitListPipelineRunsQuery,
    Offset: &offsetListPipelineRunsQuery,
    EndTime: &endTimeListPipelineRunsQuery,
    StartTime: &startTimeListPipelineRunsQuery,
    Status: &listStatusbody,
}
response, err := client.ListPipelineRuns(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.10 Creating a Pipeline With a Template

### Function

This API is used to create a pipeline using a template.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipeline-templates/{template\_id}/create-pipeline

**Table 4-99** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
template_id	Yes	String	Template ID.

**Table 4-100** Query Parameters

Parameter	Mandatory	Type	Description
component_id	No	String	Microservice ID.

### Request Parameters

**Table 4-101** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-102** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Pipeline name.

Parameter	Mandatory	Type	Description
description	No	String	Pipeline description.
is_publish	Yes	Boolean	Whether the pipeline is a change pipeline.
sources	Yes	Array of <b>CodeSource</b> objects	Pipeline source.
variables	No	Array of <b>variables</b> objects	Pipeline parameters.

**Table 4-103** CodeSource

Parameter	Mandatory	Type	Description
type	No	String	Pipeline source type.
params	No	<b>params</b> object	Pipeline source parameters.

**Table 4-104** params

Parameter	Mandatory	Type	Description
git_type	No	String	Git type.
codehub_id	No	String	Repo repository ID.
endpoint_id	No	String	Endpoint ID.
default_branch	No	String	Default branch.
git_url	No	String	Git URL.
ssh_git_url	No	String	SSH_Git URL.
web_url	No	String	Web URL.
repo_name	No	String	Pipeline source name.
alias	No	String	Code repository alias. The alias can contain a maximum of 128 characters, including letters, digits, and underscores (_).

**Table 4-105** variables

Parameter	Mandatory	Type	Description
name	No	String	Parameter name.
sequence	No	Integer	Parameter number.
type	No	String	Parameter type.
value	No	String	Parameter value.
is_secret	No	Boolean	Private parameter or not.
description	No	String	Description.
is_runtime	No	Boolean	Runtime setting or not.
is_reset	No	Boolean	Reset or not.
latest_value	No	String	Last used parameter value.
limits	No	Array of strings	Enumerated value.

## Response Parameters

Status code: 200

**Table 4-106** Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.

## Example Requests

Create a pipeline based on a template. Set the pipeline name to New pipeline-2023041516464511, code repository to test001.git, and default branch to master.

```
POST https://{endpoint}/v5/54f90b75fc1447b1b65e8d3a9f77923d/api/pipeline-templates/434d660a96de423a935a0571c2223bca/create-pipeline
```

```
{
  "name" : "New Pipeline - 2023041516464511",
  "description" : "",
  "is_publish" : false,
  "sources" : [ {
    "type" : "code",
    "params" : {
      "git_type" : "codehub",
      "codehub_id" : "2111717853",
      "endpoint_id" : "",
      "default_branch" : "master",
      "git_url" : "https://example.com/cjrTest00002/test001.git",
      "ssh_git_url" : "git@example.com:cjrTest00002/test001.git",
```

```
"web_url" : "",
"repo_name" : "test001",
"alias" : ""
}
}]
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "pipeline_id" : "ad6b7f66283a45be9c1f82b06c831e59"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Create a pipeline based on a template. Set the pipeline name to New pipeline-2023041516464511, code repository to test001.git, and default branch to master.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

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

public class CreatePipelineByTemplateIdSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        CreatePipelineByTemplateIdRequest request = new CreatePipelineByTemplateIdRequest();
        request.withComponentId("<component_id>");
        PipelineByTemplateDTO body = new PipelineByTemplateDTO();
        CodeSourceParams paramsSources = new CodeSourceParams();
        paramsSources.withGitType("codehub")
            .withCodehubId("2111717853")
    }
}
```

```
.withEndpointId("")
.withDefaultBranch("master")
.withGitUrl("https://example.com/cjrTest00002/test001.git")
.withSshGitUrl("git@example.com:cjrTest00002/test001.git")
.withWebUrl("")
.withRepoName("test001")
.withAlias("");
List<CodeSource> listbodySources = new ArrayList<>();
listbodySources.add(
    new CodeSource()
        .withType("code")
        .withParams(paramsSources)
);
body.withSources(listbodySources);
body.withIsPublish(false);
body.withDescription("");
body.withName("New Pipeline - 2023041516464511");
request.withBody(body);
try {
    CreatePipelineByTemplateIdResponse response = client.createPipelineByTemplateId(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

Create a pipeline based on a template. Set the pipeline name to New pipeline-2023041516464511, code repository to test001.git, and default branch to master.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreatePipelineByTemplateIdRequest()
        request.component_id = "<component_id>"
```

```
paramsSources = CodeSourceParams(  
    git_type="codehub",  
    codehub_id="2111717853",  
    endpoint_id="",  
    default_branch="master",  
    git_url="https://example.com/cjrTest00002/test001.git",  
    ssh_git_url="git@example.com:cjrTest00002/test001.git",  
    web_url="",  
    repo_name="test001",  
    alias=""  
)  
listSourcesbody = [  
    CodeSource(  
        type="code",  
        params=paramsSources  
    )  
]  
request.body = PipelineByTemplateDTO(  
    sources=listSourcesbody,  
    is_publish=False,  
    description="",  
    name="New Pipeline - 2023041516464511"  
)  
response = client.create_pipeline_by_template_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

Create a pipeline based on a template. Set the pipeline name to New pipeline-2023041516464511, code repository to test001.git, and default branch to master.

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

```
componentIdRequest:= "<component_id>"
request.ComponentId = &componentIdRequest
gitTypeParams:= "codehub"
codehubIdParams:= "2111717853"
endpointIdParams:= ""
defaultBranchParams:= "master"
gitUrlParams:= "https://example.com/cjrTest00002/test001.git"
sshGitUrlParams:= "git@example.com:cjrTest00002/test001.git"
webUrlParams:= ""
repoNameParams:= "test001"
aliasParams:= ""
paramsSources := &model.CodeSourceParams{
    GitType: &gitTypeParams,
    CodehubId: &codehubIdParams,
    EndpointId: &endpointIdParams,
    DefaultBranch: &defaultBranchParams,
    GitUrl: &gitUrlParams,
    SshGitUrl: &sshGitUrlParams,
    WebUrl: &webUrlParams,
    RepoName: &repoNameParams,
    Alias: &aliasParams,
}
typeSources:= "code"
var listSourcesbody = []model.CodeSource{
    {
        Type: &typeSources,
        Params: paramsSources,
    },
}
descriptionPipelineByTemplateDto:= ""
request.Body = &model.PipelineByTemplateDto{
    Sources: listSourcesbody,
    IsPublish: false,
    Description: &descriptionPipelineByTemplateDto,
    Name: "New Pipeline - 2023041516464511",
}
response, err := client.CreatePipelineByTemplateId(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found



## Error Codes

See [Error Codes](#).

## 4.2.11 Creating a Pipeline

### Function

This API is used to create a pipeline.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipelines

**Table 4-107** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

**Table 4-108** Query Parameters

Parameter	Mandatory	Type	Description
component_id	No	String	Component ID.

### Request Parameters

**Table 4-109** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-110** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Pipeline name.
description	No	String	Pipeline description.
is_publish	Yes	Boolean	Whether the pipeline is a release pipeline.
sources	No	Array of <b>CodeSource</b> objects	Pipeline source.
variables	No	Array of <b>CustomVariable</b> objects	Pipeline custom global variables.
schedules	No	Array of <b>PipelineSchedule</b> objects	Pipeline scheduled execution configuration.
triggers	No	Array of <b>PipelineTrigger</b> objects	Pipeline code event triggering configuration.
manifest_version	No	String	Pipeline structure definition version. Default: 3.0. (New version)
definition	Yes	String	Pipeline structure definition.
project_name	No	String	Project name.
group_id	No	String	Pipeline group ID.
id	No	String	In the replication scenario, the value is the original pipeline ID.
concurrency_control	No	<b>PipelineConcurrencyMgmt</b> object	Pipeline parallel policy management

**Table 4-111** CodeSource

Parameter	Mandatory	Type	Description
type	No	String	Pipeline source type.
params	No	<b>params</b> object	Pipeline source parameters.

**Table 4-112** params

Parameter	Mandatory	Type	Description
git_type	No	String	Git type.
codehub_id	No	String	Repo repository ID.
endpoint_id	No	String	Endpoint ID.
default_branch	No	String	Default branch.
git_url	No	String	Git URL.
ssh_git_url	No	String	SSH_Git URL.
web_url	No	String	Web URL.
repo_name	No	String	Pipeline source name.
alias	No	String	Code repository alias. The alias can contain a maximum of 128 characters, including letters, digits, and underscores (_).

**Table 4-113** CustomVariable

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
name	No	String	Custom parameter name.
sequence	No	Integer	Custom parameter sequence.
type	No	String	Custom parameter type.
value	No	String	Default values of custom parameters.
is_secret	No	Boolean	Private parameter or not.
description	No	String	Custom parameter description.
is_runtime	No	Boolean	Runtime setting or not.
limits	No	Array of objects	Limited enumerated value.
is_reset	No	Boolean	Reset or not.
latest_value	No	String	Latest parameter value.
runtime_value	No	String	Runtime input value.

**Table 4-114** PipelineSchedule

Parameter	Mandatory	Type	Description
uuid	No	String	Job ID.
type	No	String	Job type.
name	No	String	Job name.
enable	No	String	Available or not.
days_of_week	No	Array of integers	Specific time in one week.
time_zone	No	String	Time zone.

**Table 4-115** PipelineTrigger

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
git_url	No	String	Git URL.
git_type	No	String	Git type.
is_auto_commit	No	Boolean	Whether to automatically commit.
events	No	Array of <a href="#">CodeEvent</a> objects	Event.
hook_id	No	String	Callback ID.
repo_id	No	String	Repository ID.
endpoint_id	No	String	Endpoint ID.
callback_url	No	String	Callback URL.
security_token	No	String	User token.

**Table 4-116** CodeEvent

Parameter	Mandatory	Type	Description
type	No	String	Event type.
enable	No	Boolean	Available or not.

**Table 4-117** PipelineConcurrencyMgmt

Parameter	Mandatory	Type	Description
pipeline_id	No	String	Pipeline ID.
concurrency_number	No	Integer	Parallel number.
exceed_action	No	String	Policy for exceeding the allowed parallel number.
create_time	No	Long	Creation time.
update_time	No	Long	Update time.
enable	No	Boolean	Whether it is valid.

## Response Parameters

Status code: 200

**Table 4-118** Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.

## Example Requests

POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines

```
{
  "name" : "New Pipeline-20231024204112",
  "description" : "",
  "is_publish" : false,
  "sources" : [ {
    "type" : "code",
    "params" : {
      "git_type" : "codehub",
      "codehub_id" : "2111699317",
      "endpoint_id" : "",
      "default_branch" : "master",
      "git_url" : "https://example.com/0213yjw100001/0213yjw1-android.git",
      "ssh_git_url" : "git@example.com:0213yjw100001/0213yjw1-android.git",
      "web_url" : "",
      "repo_name" : "0213yjw1-android",
      "alias" : ""
    }
  }
],
  "definition" : "{ \"stages\": [ 1 \\, \"sequence\": \"0 \\, \"jobs\": [ { \"id\": \" \\, \"stage_id\": \"1698151278179 \\, \"identifier\": \"1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b \\, \"name\": \"Create Task in the { \"id\": \"1698151278179 \\, \"identifier\": \"169815127817987dd9f1d-7821-46e4-89be-2a95b01b0533 \\, \"run_always\": false, \"name\": \"Phase \\, \"depends_on\": [ ] \\, \"timeout\": \" \\, \"timeout_unit\": \" \\, \"steps\": [ ] \\, \"exec_type\": \"AGENTLESS_JOB \\, \"sequence\": 0 } \\, \"rule_templates\": [ ] \\, \"pre\": [ { \"task\": \"official_devcloud_autoTrigger \\, \"sequence\": 0 } \\, \"post\": [ ] \\, \"depends_on\": [ ] } ] } }
```

## Example Responses

Status code: 200

OK

```
{
  "pipeline_id" : "8bfd69eac154a0da341705a36294aca"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class CreatePipelineNewSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePipelineNewRequest request = new CreatePipelineNewRequest();
        request.withComponentId("<component_id>");
        PipelineDTO body = new PipelineDTO();
        CodeSourceParams paramsSources = new CodeSourceParams();
        paramsSources.withGitType("codehub")
            .withCodehubId("2111699317")
            .withEndpointId("")
            .withDefaultBranch("master")
            .withGitUrl("https://example.com/0213yjwt00001/0213yjwt1-android.git")
            .withSshGitUrl("git@example.com:0213yjwt00001/0213yjwt1-android.git")
            .withWebUrl("")
            .withRepoName("0213yjwt1-android")
            .withAlias("");
        List<CodeSource> listbodySources = new ArrayList<>();
        listbodySources.add(
            new CodeSource()
                .withType("code")
                .withParams(paramsSources)
        );
    }
}
```

```
);
    body.withDefinition("{\"stages\": [_1,\"sequence\":\"0\",\"jobs\":
[{"id\":\"\",\"stage_id\":\"1698151278179\",\"identifier\":\"1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b\",
name\": \"Create Task in the
{\"id\":\"1698151278179\",\"identifier\":\"169815127817987dd9f1d-7821-46e4-89be-2a95b01b0533\", \"run_always\":f
alse,\"name\": \"Phase\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[], \"exec_type\": \"AGENTLESS_JOB\", \"sequence\": \"0\"}, {\"rule_templates\": [], \"pre\":
[{"task\": \"official_devcloud_autoTrigger\", \"sequence\": \"0\"}, {\"post\": [], \"depends_on\": []}]}]);
    body.withSources(listbodySources);
    body.withIsPublish(false);
    body.withDescription("");
    body.withName("New Pipeline-20231024204112");
    request.withBody(body);
    try {
        CreatePipelineNewResponse response = client.createPipelineNew(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreatePipelineNewRequest()
        request.component_id = "<component_id>"
        paramsSources = CodeSourceParams(
            git_type="codehub",
            codehub_id="2111699317",
            endpoint_id="",
            default_branch="master",
            git_url="https://example.com/0213yjw100001/0213yjw1-android.git",
            ssh_git_url="git@example.com:0213yjw100001/0213yjw1-android.git",
            web_url="",
            repo_name="0213yjw1-android",
            alias=""
```

```
)
listSourcesbody = [
    CodeSource(
        type="code",
        params=paramsSources
    )
]
request.body = PipelineDTO(
    definition="{\"stages\": [_1,\"sequence\":\"0\",\"jobs\":
[\"id\":\"\",\"stage_id\":\"1698151278179\",\"identifier\":\"1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b\",
name\": \"Create Task in the
{\"id\":\"1698151278179\",\"identifier\":\"169815127817987dd9f1d-7821-46e4-89be-2a95b01b0533\", \"run_always\":f
alse,\"name\": \"Phase\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[], \"exec_type\": \"AGENTLESS_JOB\", \"sequence\": 0}], \"rule_templates\": [], \"pre\":
[\"task\": \"official_devcloud_autoTrigger\", \"sequence\": 0], \"post\": [], \"depends_on\": []]}",
    sources=listSourcesbody,
    is_publish=False,
    description="",
    name="New Pipeline-20231024204112"
)
response = client.create_pipeline_new(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineNewRequest{}
    componentIdRequest:= "<component_id>"
    request.ComponentId = &componentIdRequest
    gitTypeParams:= "codehub"
    codehubIdParams:= "2111699317"
    endpointIdParams:= ""
    defaultBranchParams:= "master"
    gitUrlParams:= "https://example.com/0213yjwt00001/0213yjwt1-android.git"
    sshGitUrlParams:= "git@example.com:0213yjwt00001/0213yjwt1-android.git"
```



```
webUrlParams:= ""
repoNameParams:= "0213yjwt-android"
aliasParams:= ""
paramsSources := &model.CodeSourceParams{
    GitType: &gitTypeParams,
    CodehubId: &codehubIdParams,
    EndpointId: &endpointIdParams,
    DefaultBranch: &defaultBranchParams,
    GitUrl: &gitUrlParams,
    SshGitUrl: &sshGitUrlParams,
    WebUrl: &webUrlParams,
    RepoName: &repoNameParams,
    Alias: &aliasParams,
}
typeSources:= "code"
var listSourcesbody = []model.CodeSource{
    {
        Type: &typeSources,
        Params: paramsSources,
    },
}
descriptionPipelineDto:= ""
request.Body = &model.PipelineDto{
    Definition: "{\"stages\": [1],\"sequence\":\"0\",\"jobs\":
[\"id\":\"\",\"stage_id\":1698151278179,\"identifier\":\"1698151278179f6548479-2eaf-420a-92a4-92d9a711c51b\",
name\": \"Create Task in the
{id\":1698151278179,\"identifier\":\"169815127817987dd9f1d-7821-46e4-89be-2a95b01b0533\", \"run_always\":f
alse,\"name\": \"Phase\", \"depends_on\": [], \"timeout\": \"\", \"timeout_unit\": \"\", \"steps\":
[], \"exec_type\": \"AGENTLESS_JOB\", \"sequence\": 0}, \"rule_templates\": [], \"pre\":
[\"task\": \"official_devcloud_autoTrigger\", \"sequence\": 0}, \"post\": [], \"depends_on\": []]\",
Sources: &listSourcesbody,
IsPublish: false,
Description: &descriptionPipelineDto,
Name: \"New Pipeline-20231024204112\",
}
response, err := client.CreatePipelineNew(request)
if err == nil {
    fmt.Printf(\"%v\\n\", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.12 Retrying a Pipeline

### Function

This API is used to retry a pipeline.

### Calling Method

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

### URI

PUT /v5/{project\_id}/api/pipelines/{pipeline\_id}/pipeline-runs/{pipeline\_run\_id}/retry

**Table 4-119** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.
pipeline_run_id	Yes	String	Pipeline run ID.

### Request Parameters

**Table 4-120** 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 <b>X-Subject-Token</b> in the response header is the user token.

### Response Parameters

**Status code: 200**

**Table 4-121** Response body parameters

Parameter	Type	Description
success	Boolean	Whether the operation is successful.

## Example Requests

```
PUT https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines/  
8bfbd69eac154a0da341705a36294aca/pipeline-runs/94511c7207474053ab5f6e2dd5624cd5/retry
```

## Example Responses

Status code: 200

OK

```
{  
  "success" : true  
}
```

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.13 Passing Manual Review

### Function

This API is used to pass a manual review.

### Calling Method

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

### URI

```
POST /v5/{project_id}/api/pipelines/{pipeline_id}/pipeline-runs/{pipeline_run_id}/  
jobs/{job_run_id}/steps/{step_run_id}/pass
```

**Table 4-122** Path Parameters

Parameter	Mandatory	Type	Description
job_run_id	Yes	String	Pipeline job ID.
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.
pipeline_run_id	Yes	String	Pipeline run ID.
step_run_id	Yes	String	Pipeline step ID.

## Request Parameters

**Table 4-123** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-124** Response body parameters

Parameter	Type	Description
success	Boolean	Whether the operation is successful.

## Example Requests

```
POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines/  
8bfbd69eac154a0da341705a36294aca/pipeline-runs/94511c7207474053ab5f6e2dd5624cd5/jobs/  
d2ce3825a5e147dd98793ef6e76d038e/steps/f2f0441226444c1199ca0cce8d24074f/pass
```

## Example Responses

Status code: 200

OK

```
{
  "success" : true
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class AcceptManualReviewSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        AcceptManualReviewRequest request = new AcceptManualReviewRequest();
        try {
            AcceptManualReviewResponse response = client.acceptManualReview(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = AcceptManualReviewRequest()
        response = client.accept_manual_review(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.14 Rejecting Manual Review

### Function

This API is used to reject a manual review.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipelines/{pipeline\_id}/pipeline-runs/{pipeline\_run\_id}/jobs/{job\_run\_id}/steps/{step\_run\_id}/refuse

**Table 4-125** Path Parameters

Parameter	Mandatory	Type	Description
job_run_id	Yes	String	Pipeline job ID.
step_run_id	Yes	String	Pipeline step ID.
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.
pipeline_run_id	Yes	String	Pipeline run ID.

## Request Parameters

**Table 4-126** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-127** Response body parameters

Parameter	Type	Description
success	Boolean	Whether the operation is successful.

## Example Requests

```
POST https://v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipelines/8bfbfd69eac154a0da341705a36294aca/pipeline-runs/12abeb9da0964cf3bd3ffd6813153e12/jobs/97b4991cf3374d8d96e08b38f79c8827/steps/6ff8e898026447a9a3eaa592e94b9384/refuse
```

## Example Responses

Status code: 200

OK

```
{  
  "success" : true  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;
```



```
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class RejectManualReviewSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        RejectManualReviewRequest request = new RejectManualReviewRequest();
        try {
            RejectManualReviewResponse response = client.rejectManualReview(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = RejectManualReviewRequest()
        response = client.reject_manual_review(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden

Status Code	Description
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.2.15 Querying Pipeline Logs

### Function

This API is used to query pipeline logs.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipelines/{pipeline\_id}/pipeline-runs/{pipeline\_run\_id}/jobs/{job\_run\_id}/steps/{step\_run\_id}/logs

**Table 4-128** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.
pipeline_run_id	Yes	String	Pipeline run ID.
job_run_id	Yes	String	Pipeline job ID.
step_run_id	Yes	String	Pipeline step ID.

## Request Parameters

**Table 4-129** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-130** Request body parameters

Parameter	Mandatory	Type	Description
start_offset	No	Long	Log initial offset.
end_offset	No	Long	Log end offset.
limit	Yes	Long	Maximum number of log lines.
sort	Yes	String	Sorting option can be <b>asc</b> or <b>desc</b> .

## Response Parameters

Status code: 200

**Table 4-131** Response body parameters

Parameter	Type	Description
has_more	Boolean	Whether there are more logs.
end_offset	String	End offset for querying logs. Enter <b>end_offset</b> in the request body to query logs on the next page.
start_offset	String	Start offset for querying logs. Enter <b>start_offset</b> in the request body to query logs on the next page.
log	String	Log content.
location	String	Log storage location.
step_run_id	String	Step ID.

## Example Requests

```
https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/pipelines/e2bcbd561fbc4fd89577fb27c80b09a6/
pipeline-runs/9e91b1fd7ce743b7a1b7a2458bcf76c7/jobs/6ce8600f396c4d5ba5290201ba9fd762/steps/
7a1a7bb1b5e74d1c944d8b8971621033/logs

{
  "start_offset" : 0,
  "end_offset" : 0,
  "limit" : 500,
  "sort" : "asc"
}
```

## Example Responses

**Status code: 200**

Response body for querying logs.

```
{
  "has_more" : false,
  "end_offset" : "25705",
  "start_offset" : "6132",
  "log" : "[2023/11/24 21:49:32.198 GMT+08:00] [INFO] [real_stage: Shell]: This step starts.\n[2023/11/24
21:49:32.201 GMT+08:00] [INFO] [real_stage: Shell]: ===== start to do VmExecutionStep
===== \n[2023/11/24 21:49:32.207 GMT+08:00] [INFO] [real_stage: Shell]: [frame] start to
send status data to service.\n[2023/11/24 21:49:32.225 GMT+08:00] [INFO] [real_stage: Shell]: [frame]
finish to save status data to service.\n[2023/11/24 21:49:32.777 GMT+08:00] [INFO] [real_stage: Shell]:
slave arch: amd64\n[2023/11/24 21:49:33.330 GMT+08:00] [INFO] [real_stage: Shell]: download file result:
SUCCESS\n[2023/11/24 21:49:36.547 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== flow agent
launched in [octopus_container] ===== \n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24
21:49:36] [INFO] ===== use env job loader ===== \n[2023/11/24 21:49:36.548 GMT+08:00]
[2023-11-24 21:49:36] [INFO] start to do status callback\n[2023/11/24 21:49:36.548 GMT+08:00]
[2023-11-24 21:49:36] [INFO] successfully callback to flow service\n[2023/11/24 21:49:36.548 GMT+08:00]
[2023-11-24 21:49:36] [INFO] step begin: [1/1]- [Execute Shell]\n[2023/11/24 21:49:36.548 GMT+08:00]
[2023-11-24 21:49:36] [INFO] start to use official executor [official_shell_plugin]\n[2023/11/24
21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] #####@@@
[step start] @@@#####\n[2023/11/24 21:49:36.548 GMT+08:00]
[2023-11-24 21:49:36] [INFO] ===== start to use script executor ===== \n[2023/11/24
21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== start to execute shell pre function
[make temp dir] ===== \n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO]
===== shell pre function [make temp dir] current temp dir: [/data/workspace/
6ce8600f396c4d5ba5290201ba9fd762/7a1a7bb1b5e74d1c944d8b8971621033] ===== \n[2023/11/24
21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== end to execute shell pre function
[make temp dir] successfully ===== \n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36]
[INFO] ===== start to execute custom shell ===== \n[2023/11/24 21:49:36.548 GMT+08:00]
[2023-11-24 21:49:36] [INFO] 1\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO]
===== finish to use script executor with status success ===== \n[2023/11/24 21:49:36.548
GMT+08:00] [2023-11-24 21:49:36] [INFO] #####@@@ [step end]
@@@#####\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24
21:49:36] [INFO] finish to use official executor\nThe [2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24
21:49:36] [INFO] step executes Shell succeed.\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24
21:49:36] [INFO] start to do data callback with context: [{1eaa92ecae2a42cab78e5269963a48c1
6ce8600f396c4d5ba5290201ba9fd762 7a1a7bb1b5e74d1c944d8b8971621033 0}]\n[2023/11/24
21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] successfully callback to flow service\n[2023/11/24
21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] current step, duration time:
[0.030766842]\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] start to do status
callback\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] successfully callback to
flow service\n[2023/11/24 21:49:36.548 GMT+08:00] [2023-11-24 21:49:36] [INFO] ===== flow
agent end ===== \n[2023/11/24 21:49:36.563 GMT+08:00] [INFO] [real_stage: Shell]: [frame] start
to send status data to service.\n[2023/11/24 21:49:36.563 GMT+08:00] [INFO] [real_stage: Shell]: This step
is complete.",
  "location" : "jenkins",
  "step_run_id" : "7a1a7bb1b5e74d1c944d8b8971621033"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ShowPipelineLogSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPipelineLogRequest request = new ShowPipelineLogRequest();
        LogQuery body = new LogQuery();
        body.withSort("asc");
        body.withLimit(500L);
        body.withEndOffset(0L);
        body.withStartOffset(0L);
        request.withBody(body);
        try {
            ShowPipelineLogResponse response = client.showPipelineLog(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
```

```
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowPipelineLogRequest()
        request.body = LogQuery(
            sort="asc",
            limit=500,
            end_offset=0,
            start_offset=0
        )
        response = client.show_pipeline_log(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPipelineLogRequest{
        endOffsetLogQuery:= int64(0)
```

```
startOffsetLogQuery:= int64(0)
request.Body = &model.LogQuery{
    Sort: "asc",
    Limit: int64(500),
    EndOffset: &endOffsetLogQuery,
    StartOffset: &startOffsetLogQuery,
}
response, err := client.ShowPipelineLog(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	Response body for querying logs.

## Error Codes

See [Error Codes](#).

## 4.2.16 Obtaining the Pipeline Step Execution Output

### Function

Obtaining the Pipeline Step Execution Output

### Calling Method

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

### URI

GET /v5/{project\_id}/api/pipelines/{pipeline\_id}/pipeline-runs/{pipeline\_run\_id}/steps/outputs

**Table 4-132** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.



Parameter	Mandatory	Type	Description
pipeline_run_id	Yes	String	Pipeline run ID.

**Table 4-133** Query Parameters

Parameter	Mandatory	Type	Description
step_run_ids	Yes	String	Step ID

## Request Parameters

**Table 4-134** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-135** Response body parameters

Parameter	Type	Description
step_outputs	Array of <a href="#">step_outputs</a> objects	Step Output
current_system_time	Long	Specifies the current system time.

**Table 4-136** step\_outputs

Parameter	Type	Description
step_run_id	String	Step ID

Parameter	Type	Description
output_result	Array of <a href="#">output_result</a> objects	Step Output

**Table 4-137** output\_result

Parameter	Type	Description
key	String	Parameter
value	String	Value

## Example Requests

```
https://{endpoint}/v5/26726a24b3f247b4b49300b6f84fee61/pipelines/5f58d4f7b0a9450a889c3ccb58813f1c/  
pipeline-runs/9018898842af45b3a0546f9caa44e4d5/steps/outputs?  
step_run_ids=eafeade4aade49b2bc1cac8405c2f44c
```

## Example Responses

**Status code: 200**

OK

```
{  
  "step_outputs": [ {  
    "step_run_id": "eafeade4aade49b2bc1cac8405c2f44c",  
    "output_result": [ {  
      "key": "new_issue_count",  
      "value": "0"  
    }, {  
      "key": "codecheck.deadly",  
      "value": "0"  
    }, {  
      "key": "codecheck.important",  
      "value": "0"  
    }, {  
      "key": "codecheck.common",  
      "value": "0"  
    }, {  
      "key": "codecheck.prompt",  
      "value": "0"  
    }  
  ]  
}, {  
  "current_system_time": 1710153194163  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

```
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowStepOutputsSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowStepOutputsRequest request = new ShowStepOutputsRequest();
        request.withStepRunIds("<step_run_ids>");
        try {
            ShowStepOutputsResponse response = client.showStepOutputs(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
```

```
.with_credentials(credentials) \  
.with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
.build()  
  
try:  
    request = ShowStepOutputsRequest()  
    request.step_run_ids = "<step_run_ids>"  
    response = client.show_step_outputs(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.ShowStepOutputsRequest{}  
    stepRunIdsRequest := "<step_run_ids>"  
    request.StepRunIds = &stepRunIdsRequest  
    response, err := client.ShowStepOutputs(request)  
    if err == nil {  
        fmt.Printf("%v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```

## More

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

## Status Codes

Status Code	Description
200	OK

## Error Codes

See [Error Codes](#).

## 4.2.17 Querying Build Products on a Pipeline

### Function

Querying Build Products on a Pipeline

### Calling Method

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

### URI

GET /v5/{project\_id}/api/pipelines/{pipeline\_id}/pipeline-runs/{pipeline\_run\_id}/artifacts

**Table 4-138** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
pipeline_id	Yes	String	Pipeline ID.
pipeline_run_id	Yes	String	Pipeline run ID.

### Request Parameters

**Table 4-139** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

Table 4-140 Response body parameters

Parameter	Type	Description
artifacts	Array of <a href="#">Artifact</a> objects	Product List

Table 4-141 Artifact

Parameter	Type	Description
project_id	String	Project ID.
name	String	Name
artifact_version	String	Version
upload_target	String	Storage Platform Type
artifact_package_type	String	Product Package Type
artifact_uri	String	Artifact Repository Path
artifact_download_url_with_id	String	Artifact Repository Download Link
artifact_type	String	Product type.
hash_code	Array of <a href="#">hash_code</a> objects	Hash code
job_id	String	Build task ID.
build_no	Integer	build task No.
daily_build_number	String	build task No.
file_size	String	Product Size

**Table 4-142** hash\_code

Parameter	Type	Description
hash_type	String	Hash Algorithm
hash_value	String	Hash

## Example Requests

```
https://{endpoint}/v5/26726a24b3f247b4b49300b6f84fee61/api/pipelines/  
5f58d4f7b0a9450a889c3ccb58813f1c/pipeline-runs/9018898842af45b3a0546f9caa44e4d5/artifacts
```

## Example Responses

**Status code: 200**

OK

```
{  
  "artifacts": [ {  
    "project_id": "26726a24b3f247b4b49300b6f84fee61",  
    "job_id": "545da7fc36a7492a841e1018a21d2f22",  
    "build_no": "1",  
    "name": "javaMavenDemo-1.0.jar",  
    "file_size": "2.18KB",  
    "hash_code": [ {  
      "hash_type": "SHA256",  
      "hash_value": "0fce55424a0514443f0bd612dcb25abb8de9f06572a2050ba8c6483352d5c5bd"  
    } ],  
    "daily_build_number": "20240311.1",  
    "upload_target": "artifact",  
    "artifact_version": "20240311.1",  
    "artifact_package_type": "jar",  
    "artifact_uri": "/Build-TestBuildCheck-749/20240311.1/",  
    "artifact_download_url_with_id": "https://example.com/DevRepoServer/v1/files/download?  
file_id=d7c3c7b5f511483b8485cc58fc32f2ea&type=archive",  
    "artifact_type": "package"  
  } ]  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class ShowPipelineArtifactsSolution {  
  
    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);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ShowPipelineArtifactsRequest request = new ShowPipelineArtifactsRequest();
try {
    ShowPipelineArtifactsResponse response = client.showPipelineArtifacts(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowPipelineArtifactsRequest()
        response = client.show_pipeline_artifacts(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK

## Error Codes

See [Error Codes](#).

## 4.3 Group Management

## 4.3.1 Creating a Pipeline Group

### Function

This API is used to create pipeline group.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipeline-group/create

**Table 4-143** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

### Request Parameters

**Table 4-144** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-145** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Pipeline group name.
project_id	Yes	String	Project name.
parent_id	No	String	Parent group ID.

### Response Parameters

**Status code: 200**

**Table 4-146** Response body parameters

Parameter	Type	Description
id	String	Group ID.
domain_id	String	Tenant ID.
project_id	String	Project ID.
name	String	Group name.
parent_id	String	Parent group ID.
path_id	String	Group path ID.
ordinal	Integer	No.
creator	String	Creator ID.
updater	String	Updater ID.
create_time	Long	Creation time.
update_time	Long	Update time.
children	Array of PipelineGroupVo objects	Subgroup list.

**Status code: 400****Table 4-147** Response body parameters

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

## Example Requests

Create group G1.

POST https://{endpoint}/v5/{project\_id}/api/pipeline-group/create

```
{
  "name": "G1",
  "project_id": "d80a8a6530324b7bac972cbb8a9f28ec",
  "parent_id": ""
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "id": "58d55f8a646443a984e7399632b3963e",
  "domain_id": "ce8df55870164338a72d7e828a966a2a",
  "project_id": "d80a8a6530324b7bac972cbb8a9f28ec",
  "name": "G1",
  "parent_id": "",
  "path_id": "58d55f8a646443a984e7399632b3963e",
  "ordinal": 0,
  "creator": "847a5317086c41798469d0868535943a",
  "updater": null,
  "create_time": null,
  "update_time": null,
  "children": null
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Create group G1.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class CreatePipelineGroupSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        CreatePipelineGroupRequest request = new CreatePipelineGroupRequest();
        PipelineGroupCreateDTO body = new PipelineGroupCreateDTO();
        body.setParentId("");
        body.withProjectId("d80a8a6530324b7bac972cbb8a9f28ec");
        body.withName("G1");
        request.withBody(body);
        try {
            CreatePipelineGroupResponse response = client.createPipelineGroup(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        }
    }
}
```

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

## Python

### Create group G1.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreatePipelineGroupRequest()
        request.body = PipelineGroupCreateDTO(
            parent_id="",
            project_id="d80a8a6530324b7bac972cbb8a9f28ec",
            name="G1"
        )
        response = client.create_pipeline_group(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 group G1.

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineGroupRequest{
        parentIdPipelineGroupCreateDto:= ""
        request.Body = &model.PipelineGroupCreateDto{
            ParentId: &parentIdPipelineGroupCreateDto,
            ProjectId: "d80a8a6530324b7bac972cbb8a9f28ec",
            Name: "G1",
        }
    }
    response, err := client.CreatePipelineGroup(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.3.2 Updating a Pipeline Group

### Function

This API is used to update a pipeline group.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipeline-group/update

**Table 4-148** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

### Request Parameters

**Table 4-149** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-150** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Pipeline group name.
id	Yes	String	Pipeline group ID.

### Response Parameters

**Status code: 200**

**Table 4-151** Response body parameters

Parameter	Type	Description
success	Boolean	Whether the operation is successful.

**Status code: 400****Table 4-152** Response body parameters

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

## Example Requests

Change the group name to New Group 2.

```
POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipeline-group/update
{
  "name" : "Creating group 2",
  "id" : "1d0ae9894c8549a88931539d1959c571"
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "success" : true
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Change the group name to New Group 2.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;
```



```
public class UpdatePipelineGroupSolution {
    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdatePipelineGroupRequest request = new UpdatePipelineGroupRequest();
        PipelineGroupUpdateDTO body = new PipelineGroupUpdateDTO();
        body.withId("1d0ae9894c8549a88931539d1959c571");
        body.withName("Creating group 2");
        request.withBody(body);
        try {
            UpdatePipelineGroupResponse response = client.updatePipelineGroup(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

Change the group name to New Group 2.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = UpdatePipelineGroupRequest()
    request.body = PipelineGroupUpdateDTO(
        id="1d0ae9894c8549a88931539d1959c571",
        name="Creating group 2"
    )
    response = client.update_pipeline_group(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

Change the group name to New Group 2.

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePipelineGroupRequest{}
    request.Body = &model.PipelineGroupUpdateDto{
        Id: "1d0ae9894c8549a88931539d1959c571",
        Name: "Creating group 2",
    }
    response, err := client.UpdatePipelineGroup(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

### 4.3.3 Deleting a Pipeline Group

#### Function

This API is used to delete a pipeline group.

#### Calling Method

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

#### URI

DELETE /v5/{project\_id}/api/pipeline-group/delete

**Table 4-153** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

**Table 4-154** Query Parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Group ID.

## Request Parameters

**Table 4-155** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-156** Response body parameters

Parameter	Type	Description
success	Boolean	Whether the operation is successful.

**Status code: 400**

**Table 4-157** Response body parameters

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

## Example Requests

```
DELETE https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipeline-group/delete?
id=1d0ae9894c8549a88931539d1959c571
```

## Example Responses

**Status code: 200**

OK

```
{
  "success" : true
}
```

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

### 4.3.4 Querying the Pipeline Group Tree

#### Function

This API is used to query the pipeline group tree.

#### Calling Method

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

#### URI

GET /v5/{project\_id}/api/pipeline-group/tree

**Table 4-158** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

## Request Parameters

**Table 4-159** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200****Table 4-160** Response body parameters

Parameter	Type	Description
[items]	Array of <a href="#">PipelineGroupVo</a> objects	OK

**Table 4-161** PipelineGroupVo

Parameter	Type	Description
id	String	Group ID.
domain_id	String	Tenant ID.
project_id	String	Project ID.
name	String	Group name.
parent_id	String	Parent group ID.
path_id	String	Group path ID.
ordinal	Integer	No.
creator	String	Creator ID.
updater	String	Updater ID.
create_time	Long	Creation time.
update_time	Long	Update time.

Parameter	Type	Description
children	Array of <a href="#">PipelineGroupVo</a> objects	Subgroup list.

**Status code: 400**

**Table 4-162** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipeline-group/tree
```

## Example Responses

**Status code: 200**

OK

```
[ {
  "id" : "894daf0db79c4ccb839490770fa06596",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "Creating a Group 22",
  "parent_id" : "",
  "path_id" : "894daf0db79c4ccb839490770fa06596",
  "ordinal" : 2,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : null,
  "create_time" : 1698487536000,
  "update_time" : null,
  "children" : null
}, {
  "id" : "2ca78947b25847a9ab68a07d8ef1347b",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "Creating group 11",
  "parent_id" : "",
  "path_id" : "2ca78947b25847a9ab68a07d8ef1347b",
  "ordinal" : 1,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : null,
  "create_time" : 1698487008000,
  "update_time" : null,
  "children" : null
}, {
  "id" : "58d55f8a646443a984e7399632b3963e",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "G2",
  "parent_id" : "",
  "path_id" : "58d55f8a646443a984e7399632b3963e",
```

```
"ordinal" : 0,
"creator" : "847a5317086c41798469d0868535943a",
"updater" : "847a5317086c41798469d0868535943a",
"create_time" : 1698484566000,
"update_time" : 1698485674000,
"children" : [ {
  "id" : "d805c90bf99049d3a49e83d2024df6b8",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "Creating group 3",
  "parent_id" : "58d55f8a646443a984e7399632b3963e",
  "path_id" : "58d55f8a646443a984e7399632b3963e.d805c90bf99049d3a49e83d2024df6b8",
  "ordinal" : 1,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : "847a5317086c41798469d0868535943a",
  "create_time" : 1698487527000,
  "update_time" : 1698487868000,
  "children" : null
}, {
  "id" : "ebb779b3b9f742e181b1f6829fa1aca0",
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",
  "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
  "name" : "Creating a Group",
  "parent_id" : "58d55f8a646443a984e7399632b3963e",
  "path_id" : "58d55f8a646443a984e7399632b3963e.ebb779b3b9f742e181b1f6829fa1aca0",
  "ordinal" : 0,
  "creator" : "847a5317086c41798469d0868535943a",
  "updater" : null,
  "create_time" : 1698485344000,
  "update_time" : null,
  "children" : [ {
    "id" : "1b80aa3df0984e9caffefdc4e557524e",
    "domain_id" : "ce8df55870164338a72d7e828a966a2a",
    "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
    "name" : "Creating group 4",
    "parent_id" : "ebb779b3b9f742e181b1f6829fa1aca0",
    "path_id" :
      "58d55f8a646443a984e7399632b3963e.ebb779b3b9f742e181b1f6829fa1aca0.1b80aa3df0984e9caffefdc4e557524e",
    "ordinal" : 2,
    "creator" : "847a5317086c41798469d0868535943a",
    "updater" : null,
    "create_time" : 1698487502000,
    "update_time" : null,
    "children" : null
  }, {
    "id" : "6bc8a3cda52c41fe84d71c9ff86161ea",
    "domain_id" : "ce8df55870164338a72d7e828a966a2a",
    "project_id" : "d80a8a6530324b7bac972cbb8a9f28ec",
    "name" : "Creating group 3",
    "parent_id" : "ebb779b3b9f742e181b1f6829fa1aca0",
    "path_id" :
      "58d55f8a646443a984e7399632b3963e.ebb779b3b9f742e181b1f6829fa1aca0.6bc8a3cda52c41fe84d71c9ff86161ea",
    "ordinal" : 1,
    "creator" : "847a5317086c41798469d0868535943a",
    "updater" : null,
    "create_time" : 1698486710000,
    "update_time" : null,
    "children" : null
  }
  ]
}
]
}]
```

## SDK Sample Code

The SDK sample code is as follows.



## Java

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

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

public class ShowPipelineGroupTreeSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPipelineGroupTreeRequest request = new ShowPipelineGroupTreeRequest();
        try {
            ShowPipelineGroupTreeResponse response = client.showPipelineGroupTree(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

```
credentials = BasicCredentials(ak, sk)

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

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

## Go

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.3.5 Moving Multiple Pipelines To a Group

### Function

This API is used to move multiple pipelines to a group.

### Calling Method

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

### URI

POST /v5/{project\_id}/api/pipeline-group/pipeline/move

**Table 4-163** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

## Request Parameters

**Table 4-164** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-165** Request body parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Group ID.
pipelines	Yes	Array of <b>pipelines</b> objects	Pipeline set.

**Table 4-166** pipelines

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Pipeline ID.
pipeline_name	Yes	String	Pipeline name.

## Response Parameters

Status code: 200

**Table 4-167** Response body parameters

Parameter	Type	Description
[items]	Array of <b>PipelineMoveToGroupResponseVo</b> objects	OK

**Table 4-168** PipelineMoveToGroupResponseVo

Parameter	Type	Description
code	String	Response code ["failed", "success"]
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.

**Status code: 400**

**Table 4-169** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v5/d80a8a6530324b7bac972cbb8a9f28ec/api/pipeline-group/pipeline/move
{
  "group_id": "2ca78947b25847a9ab68a07d8ef1347b",
  "pipelines": [ {
    "pipeline_id": "1ae88404911a4513bcdf8158ab6a0416",
    "pipeline_name": "sdfgsdfgdfsg345345"
  }, {
    "pipeline_id": "b99de7c698264251ac1fc3c053dc2b34",
    "pipeline_name": "32131233131025122241"
  } ]
}
```

## Example Responses

**Status code: 200**

OK

```
[ {
  "code": "success",
  "pipeline_id": "1ae88404911a4513bcdf8158ab6a0416",
  "pipeline_name": "sdfgsdfgdfsg345345"
}, {
  "code": "success",
  "pipeline_id": "b99de7c698264251ac1fc3c053dc2b34",
  "pipeline_name": "32131233131025122241"
} ]
```

## SDK Sample Code

The SDK sample code is as follows.

## Java

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

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

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

public class BatchMovePipelineToGroupSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        BatchMovePipelineToGroupRequest request = new BatchMovePipelineToGroupRequest();
        PipelineGroupBindDTO body = new PipelineGroupBindDTO();
        List<PipelineGroupBindDTOPipelines> listbodyPipelines = new ArrayList<>();
        listbodyPipelines.add(
            new PipelineGroupBindDTOPipelines()
                .withPipelineId("1ae88404911a4513bcdf8158ab6a0416")
                .withPipelineName("sdfgsdfgdfsg345345")
        );
        listbodyPipelines.add(
            new PipelineGroupBindDTOPipelines()
                .withPipelineId("b99de7c698264251ac1fc3c053dc2b34")
                .withPipelineName("32131233131025122241")
        );
        body.withPipelines(listbodyPipelines);
        body.withGroupId("2ca78947b25847a9ab68a07d8ef1347b");
        request.withBody(body);
        try {
            BatchMovePipelineToGroupResponse response = client.batchMovePipelineToGroup(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = BatchMovePipelineToGroupRequest()
        listPipelinesbody = [
            PipelineGroupBindDTOPipelines(
                pipeline_id="1ae88404911a4513bcdf8158ab6a0416",
                pipeline_name="sdfgsdfgdfsg345345"
            ),
            PipelineGroupBindDTOPipelines(
                pipeline_id="b99de7c698264251ac1fc3c053dc2b34",
                pipeline_name="32131233131025122241"
            )
        ]
        request.body = PipelineGroupBindDTO(
            pipelines=listPipelinesbody,
            group_id="2ca78947b25847a9ab68a07d8ef1347b"
        )
        response = client.batch_move_pipeline_to_group(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

```
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.BatchMovePipelineToGroupRequest{}
var listPipelinesbody = []model.PipelineGroupBindDtoPipelines{
    {
        PipelineId: "1ae88404911a4513bcdf8158ab6a0416",
        PipelineName: "sdfgsdfgdfsg345345",
    },
    {
        PipelineId: "b99de7c698264251ac1fc3c053dc2b34",
        PipelineName: "32131233131025122241",
    },
}
request.Body = &model.PipelineGroupBindDto{
    Pipelines: listPipelinesbody,
    GroupId: "2ca78947b25847a9ab68a07d8ef1347b",
}
response, err := client.BatchMovePipelineToGroup(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).



## 4.4 Rule Management

### 4.4.1 Obtaining Details About a Single Rule

#### Function

This API is used to query details about a single rule.

#### Calling Method

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

#### URI

GET /v2/{domain\_id}/rules/{rule\_id}/detail

**Table 4-170** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.
rule_id	Yes	String	Rule ID.

#### Request Parameters

**Table 4-171** 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 <b>X-Subject-Token</b> in the response header is the user token.

#### Response Parameters

Status code: 200

**Table 4-172** Response body parameters

Parameter	Type	Description
id	String	Rule ID.

Parameter	Type	Description
type	String	Rule type.
name	String	Rule name.
version	String	Rule version.
layout_content	String	Layout content.
plugin_id	String	Extension ID.
plugin_name	String	Extension name.
plugin_version	String	Extension version.
creator	String	Creator.
create_time	String	Creation time.
updater	String	Updater.
update_time	String	Update time.
content	Array of <a href="#">RuleContent</a> objects	Rule attribute list.

**Table 4-173** RuleContent

Parameter	Type	Description
group_name	String	Group name.
can_modify_when_inherit	Boolean	Whether thresholds of an inherited policy can be modified.
properties	Array of <a href="#">RuleProperty</a> objects	Rule attribute list.

**Table 4-174** RuleProperty

Parameter	Type	Description
key	String	Attribute key.
type	String	Type.
name	String	Display name.
operator	String	Comparison operators.

Parameter	Type	Description
value	String	Attribute value.
value_type	String	Data type.

**Status code: 400****Table 4-175** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 401****Table 4-176** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 403****Table 4-177** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 404****Table 4-178** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

## Example Requests

```
GET https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/865b4c2d616b46ab890fff056a6f7e05/detail
```

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "id" : "865b4c2d616b46ab890fff056a6f7e05",
  "type" : "Build",
  "name" : "New Rule-20231020103003",
  "version" : "e2db2a63b3064252874b1b5a8571e2be",
  "plugin_id" : "official_devcloud_cloudBuild",
  "plugin_name" : "official_devcloud_cloudBuild",
  "plugin_version" : "0.0.15",
  "content" : [ {
    "group_name" : "MavenUnitTest",
    "can_modify_when_inherit" : true,
    "properties" : [ {
      "key" : "build.PassRatio",
      "type" : "judge",
      "name" : "PassRatio",
      "value_type" : "float",
      "value" : "0.1",
      "operator" : "="
    }, {
      "key" : "build.TotalCases",
      "type" : "judge",
      "name" : "TotalCases",
      "value_type" : "float",
      "value" : "0.1",
      "operator" : "="
    }, {
      "key" : "build.CoverageRatio",
      "type" : "judge",
      "name" : "CoverageRatio",
      "value_type" : "float",
      "value" : "0.1",
      "operator" : "="
    }
  ]
}, {
  "creator" : "847a5317086c41798469d0868535943a",
  "create_time" : "2023-10-20T10:30:20",
  "updater" : "847a5317086c41798469d0868535943a",
  "update_time" : "2023-10-20T10:30:20"
}
```

## Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	Authentication failed.
403	No permission.
404	Resource not found.

## Error Codes

See [Error Codes](#).

## 4.4.2 Obtaining the Rule List by Page

### Function

This API is used to obtain the rule list by page.

### Calling Method

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

### URI

GET /v2/{domain\_id}/rules/query

**Table 4-179** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-180** Query Parameters

Parameter	Mandatory	Type	Description
cloud_project_id	No	String	Project ID.
offset	Yes	Integer	Offset, which is the position where the query starts. The value must be no less than 0.
limit	Yes	Integer	Number of records displayed on each page.
type	No	String	Type
name	No	String	Rule name, which can be used for fuzzy search.

## Request Parameters

**Table 4-181** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200****Table 4-182** Response body parameters

Parameter	Type	Description
data	Array of <b>Rule</b> objects	Static rule list.
total	Integer	Total number.

**Table 4-183** Rule

Parameter	Type	Description
id	String	Rule ID.
type	String	Rule type.
name	String	Rule name.
version	String	Rule version.
operator	String	Latest operator.
operate_time	Long	Latest operation time.

**Status code: 400****Table 4-184** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error description.

**Status code: 401****Table 4-185** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 403****Table 4-186** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 404****Table 4-187** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

## Example Requests

```
GET https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/query?
cloud_project_id=&type=&name=&limit=10&offset=20
```

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "data": [ {
    "id": "425eba0deaf04596a74cf7967d7fc04d",
    "type": "Test",
```

```
"name" : "New Rule-20230919104204",
"version" : "07ef68721822485dba6c326829567095",
"operator" : "SectestB",
"operate_time" : 1695091381000
}, {
  "id" : "35a14c7a215745999cd579cfd862982e",
  "type" : "Gate",
  "name" : "0919-0919",
  "version" : "318e271a3fb24a888d5f484244ee994d",
  "operator" : "SectestB",
  "operate_time" : 1695091297000
}, {
  "id" : "fddb790b7b024c6aa8d53e50577b1464",
  "type" : "Gate",
  "name" : "New Rule 0919",
  "version" : "185537e4a10e418ba5f8ad424fabbb7e",
  "operator" : "SectestB",
  "operate_time" : 1695091251000
}, {
  "id" : "062f3ca8f9b14eb79af09069a227fc8c",
  "type" : "Gate",
  "name" : "Creating a Rule iam",
  "version" : "c12fb9341230457890993533e03ab374",
  "operator" : "testqxy",
  "operate_time" : 1695072045000
}, {
  "id" : "b3def7ae86d844718de5eb248c1271d3",
  "type" : "Gate",
  "name" : "Creating rule iam0023",
  "version" : "58a0ee7673924a1dadcf6ec28d23864c",
  "operator" : "SectestB",
  "operate_time" : 1694682961000
}, {
  "id" : "ce74e818321d4d40b5235c0309fd8cda",
  "type" : "Gate",
  "name" : "apitest-create-1694588962601-QsaY",
  "version" : "d65df316e067454db9467736412db418",
  "operator" : "xxx",
  "operate_time" : 1694588963000
}, {
  "id" : "22973b3a02fe439ea8b642b3a6e23e02",
  "type" : "Gate",
  "name" : "Check",
  "version" : "14cb09a530c744418013cf254e7dd262",
  "operator" : "testjyw",
  "operate_time" : 1694500871000
}, {
  "id" : "a440107f12ea40439abf7203c0b3c264",
  "type" : "Build",
  "name" : "New Rule-20230912144025",
  "version" : "1e99dbd87183453e9c719ded49cd3f9d",
  "operator" : "testjyw",
  "operate_time" : 1694500845000
}, {
  "id" : "590700d339d44fb9beee87366332509b",
  "type" : "Gate",
  "name" : "New rule-20230912140536",
  "version" : "a35c74fc13ea4cdfa32ca541b3b92b2d",
  "operator" : "xxx",
  "operate_time" : 1694498754000
}, {
  "id" : "defe9a17d6ae468cb7224b080fe418a3",
  "type" : "Gate",
  "name" : "New Rule-20230911100734-chq",
  "version" : "dbd00db8d87747fda87eb0b9a0a4d3ac",
  "operator" : "xxx",
  "operate_time" : 1694398087000
}
}]
```



```
"total" : 379  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class ListRuleSolution {  
    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);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ListRuleRequest request = new ListRuleRequest();  
        request.withCloudProjectId("<cloud_project_id>");  
        request.withOffset("<offset>");  
        request.withLimit("<limit>");  
        request.withType("<type>");  
        request.withName("<name>");  
        try {  
            ListRuleResponse response = client.listRule(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListRuleRequest()
        request.cloud_project_id = "<cloud_project_id>"
        request.offset = <offset>
        request.limit = <limit>
        request.type = "<type>"
        request.name = "<name>"
        response = client.list_rule(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.ListRuleRequest{}
cloudProjectIdRequest:= "<cloud_project_id>"
request.CloudProjectId = &cloudProjectIdRequest
request.Offset = int32(<offset>)
request.Limit = int32(<limit>)
typeRequest:= "<type>"
request.Type = &typeRequest
nameRequest:= "<name>"
request.Name = &nameRequest
response, err := client.ListRule(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	Authentication failed.
403	No permission.
404	Resource not found.

## Error Codes

See [Error Codes](#).

## 4.4.3 Updating a Rule

### Function

This API is used to update a rule.

### Calling Method

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

### URI

PUT /v2/{domain\_id}/rules/{rule\_id}/update

**Table 4-188** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.
rule_id	Yes	String	Rule ID.

## Request Parameters

**Table 4-189** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-190** Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Rule type.
name	Yes	String	Rule name.
layout_content	Yes	String	Layout content.
plugin_id	No	String	Extension ID.
plugin_name	No	String	Extension name.
plugin_version	No	String	Extension version.
content	Yes	Array of <b>RuleContent</b> objects	Rule attribute set.

**Table 4-191** RuleContent

Parameter	Mandatory	Type	Description
group_name	Yes	String	Group name.

Parameter	Mandatory	Type	Description
can_modify_when_inherit	No	Boolean	Whether thresholds of an inherited policy can be modified.
properties	Yes	Array of <a href="#">RuleProperty</a> objects	Rule attribute list.

**Table 4-192** RuleProperty

Parameter	Mandatory	Type	Description
key	Yes	String	Attribute key.
type	Yes	String	Type.
name	Yes	String	Display name.
operator	No	String	Comparison operators.
value	Yes	String	Attribute value.
value_type	Yes	String	Data type.

## Response Parameters

**Status code: 200**

**Table 4-193** Response body parameters

Parameter	Type	Description
status	Boolean	Creation status.
rule_id	String	Rule ID.

**Status code: 400**

**Table 4-194** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 401**

**Table 4-195** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 403****Table 4-196** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 404****Table 4-197** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

## Example Requests

```
PUT https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/425eba0deaf04596a74cf7967d7fc04d/update
```

```
{
  "name": "New Rule-20230919104204",
  "type": "Test",
  "plugin_id": "official_devcloud_apiTest",
  "plugin_name": "official_devcloud_apiTest",
  "plugin_version": "0.0.12",
  "layout_content": "layout_content",
  "content": [ {
    "group_name": "API test pass rate access control",
    "properties": [ {
      "key": "pass_ratio",
      "name": "API test pass rate",
      "type": "judge",
      "operator": "=",
      "value_type": "float",
      "value": "0.5"
    } ]
  } ]
}
```

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "status" : true,
  "rule_id" : "425eba0deaf04596a74cf7967d7fc04d"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class UpdateRuleSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateRuleRequest request = new UpdateRuleRequest();
        UpdateRuleReq body = new UpdateRuleReq();
        List<RuleProperty> listContentProperties = new ArrayList<>();
        listContentProperties.add(
            new RuleProperty()
                .withKey("pass_ratio")
                .withType("judge")
                .withName("API test pass rate")
                .withOperator("=")
                .withValue("0.5")
                .withValueType("float")
        );
        List<RuleContent> listbodyContent = new ArrayList<>();
        listbodyContent.add(
            new RuleContent()
                .withGroupName("API test pass rate access control")
                .withProperties(listContentProperties)
        );
    }
}
```

```
);
body.withContent(listbodyContent);
body.withPluginVersion("0.0.12");
body.withPluginName("official_devcloud_apiTest");
body.withPluginId("official_devcloud_apiTest");
body.withLayoutContent("layout_content");
body.withName("New Rule-20230919104204");
body.withType("Test");
request.withBody(body);
try {
    UpdateRuleResponse response = client.updateRule(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateRuleRequest()
        listPropertiesContent = [
            RuleProperty(
                key="pass_ratio",
                type="judge",
                name="API test pass rate",
                operator "=",
                value="0.5",
                value_type="float"
            )
        ]
        listContentbody = [
            RuleContent(
                group_name="API test pass rate access control",
                properties=listPropertiesContent
            )
        ]
```



```
]
request.body = UpdateRuleReq(
    content=listContentbody,
    plugin_version="0.0.12",
    plugin_name="official_devcloud_apiTest",
    plugin_id="official_devcloud_apiTest",
    layout_content="layout_content",
    name="New Rule-20230919104204",
    type="Test"
)
response = client.update_rule(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateRuleRequest{
        operatorProperties:= ""
    }
    var listPropertiesContent = []model.RuleProperty{
        {
            Key: "pass_ratio",
            Type: "judge",
            Name: "API test pass rate",
            Operator: &operatorProperties,
            Value: "0.5",
            ValueType: "float",
        },
    }
    var listContentbody = []model.RuleContent{
        {
            GroupName: "API test pass rate access control",
            Properties: listPropertiesContent,
        },
    }
    pluginVersionUpdateRuleReq:= "0.0.12"
```

```
pluginNameUpdateRuleReq:= "official_devcloud_apiTest"  
pluginIdUpdateRuleReq:= "official_devcloud_apiTest"  
request.Body = &model.UpdateRuleReq{  
    Content: listContentbody,  
    PluginVersion: &pluginVersionUpdateRuleReq,  
    PluginName: &pluginNameUpdateRuleReq,  
    PluginId: &pluginIdUpdateRuleReq,  
    LayoutContent: "layout_content",  
    Name: "New Rule-20230919104204",  
    Type: "Test",  
}  
response, err := client.UpdateRule(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## More

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

## Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.
401	Authentication failed.
403	No permission.
404	Resource not found.

## Error Codes

See [Error Codes](#).

## 4.4.4 Deleting a Rule

### Function

This API is used to delete a rule.

### Calling Method

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

### URI

DELETE /v2/{domain\_id}/rules/{rule\_id}/delete

**Table 4-198** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.
rule_id	Yes	String	Rule ID.

## Request Parameters

**Table 4-199** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-200** Response body parameters

Parameter	Type	Description
status	Boolean	Status.

**Status code: 400**

**Table 4-201** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 401**

**Table 4-202** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 403****Table 4-203** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 404****Table 4-204** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

## Example Requests

```
DELETE https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/  
2965ed53fe804115816b781ab20fef3c/delete
```

## Example Responses

**Status code: 200**

Request succeeded.

```
{  
  "status" : true  
}
```

## Status Codes

Status Code	Description
200	Request succeeded.
400	Request failed.

Status Code	Description
401	Authentication failed.
403	No permission.
404	Resource not found.

## Error Codes

See [Error Codes](#).

## 4.4.5 Creating a Rule

### Function

This API is used to create a rule.

### Calling Method

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

### URI

POST /v2/{domain\_id}/rules/create

**Table 4-205** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

### Request Parameters

**Table 4-206** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-207** Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Type: Build, Gate, Deploy, Test, and Normal
name	Yes	String	Rule name.
layout_content	Yes	String	Layout content.
plugin_id	No	String	Extension ID.
plugin_name	No	String	Extension name.
plugin_version	No	String	Extension version.
content	Yes	Array of <a href="#">RuleContent</a> objects	Rule attribute group list.

**Table 4-208** RuleContent

Parameter	Mandatory	Type	Description
group_name	Yes	String	Group name.
can_modify_when_inherit	No	Boolean	Whether thresholds of an inherited policy can be modified.
properties	Yes	Array of <a href="#">RuleProperty</a> objects	Rule attribute list.

**Table 4-209** RuleProperty

Parameter	Mandatory	Type	Description
key	Yes	String	Attribute key.
type	Yes	String	Type.
name	Yes	String	Display name.
operator	No	String	Comparison operators.
value	Yes	String	Attribute value.
value_type	Yes	String	Data type.

## Response Parameters

**Status code: 200**

**Table 4-210** Response body parameters

Parameter	Type	Description
status	Boolean	Creation status.
rule_id	String	Rule ID.

**Status code: 400**

**Table 4-211** Response body parameters

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

## Example Requests

POST https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/rules/create

```
{
  "name" : "Creating a Rule - 20231020170337",
  "type" : "Build",
  "plugin_id" : "official_devcloud_cloudBuild",
  "plugin_name" : "official_devcloud_cloudBuild",
  "plugin_version" : "0.0.15",
  "layout_content" : "layout_content",
  "content" : [ {
    "group_name" : "MavenUnitTest",
    "properties" : [ {
      "key" : "build.PassRatio",
      "name" : "PassRatio",
      "type" : "judge",
      "operator" : "=",
      "value_type" : "float",
      "value" : "0.1"
    }, {
      "key" : "build.TotalCases",
      "name" : "TotalCases",
      "type" : "judge",
      "operator" : "=",
      "value_type" : "float",
      "value" : "0.1"
    }, {
      "key" : "build.CoverageRatio",
      "name" : "CoverageRatio",
      "type" : "judge",
      "operator" : "=",
      "value_type" : "float",
      "value" : "0.1"
    }
  ]
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "status" : true,
  "rule_id" : "2965ed53fe804115816b781ab20fef3c"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class CreateRuleSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        CreateRuleRequest request = new CreateRuleRequest();
        CreateRuleReq body = new CreateRuleReq();
        List<RuleProperty> listContentProperties = new ArrayList<>();
        listContentProperties.add(
            new RuleProperty()
                .withKey("build.PassRatio")
                .withType("judge")
                .withName("PassRatio")
                .withOperator("=")
                .withValue("0.1")
                .withValueType("float")
        );
        listContentProperties.add(
            new RuleProperty()
                .withKey("build.TotalCases")
                .withType("judge")
                .withName("TotalCases")
        );
    }
}
```



```
        .withOperator("=")
        .withValue("0.1")
        .withValueType("float")
    );
    listContentProperties.add(
        new RuleProperty()
            .withKey("build.CoverageRatio")
            .withType("judge")
            .withName("CoverageRatio")
            .withOperator("=")
            .withValue("0.1")
            .withValueType("float")
    );
    List<RuleContent> listbodyContent = new ArrayList<>();
    listbodyContent.add(
        new RuleContent()
            .withGroupName("MavenUnitTest")
            .withProperties(listContentProperties)
    );
    body.withContent(listbodyContent);
    body.withPluginVersion("0.0.15");
    body.withPluginName("official_devcloud_cloudBuild");
    body.withPluginId("official_devcloud_cloudBuild");
    body.withLayoutContent("layout_content");
    body.withName("Creating a Rule - 20231020170337");
    body.withType("Build");
    request.withBody(body);
    try {
        CreateRuleResponse response = client.createRule(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = CreateRuleRequest()
    listPropertiesContent = [
        RuleProperty(
            key="build.PassRatio",
            type="judge",
            name="PassRatio",
            operator="=",
            value="0.1",
            value_type="float"
        ),
        RuleProperty(
            key="build.TotalCases",
            type="judge",
            name="TotalCases",
            operator="=",
            value="0.1",
            value_type="float"
        ),
        RuleProperty(
            key="build.CoverageRatio",
            type="judge",
            name="CoverageRatio",
            operator="=",
            value="0.1",
            value_type="float"
        )
    ]
    listContentbody = [
        RuleContent(
            group_name="MavenUnitTest",
            properties=listPropertiesContent
        )
    ]
    request.body = CreateRuleReq(
        content=listContentbody,
        plugin_version="0.0.15",
        plugin_name="official_devcloud_cloudBuild",
        plugin_id="official_devcloud_cloudBuild",
        layout_content="layout_content",
        name="Creating a Rule - 20231020170337",
        type="Build"
    )
    response = client.create_rule(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

example, set environment variables CLOUD\_SDK\_AK and CLOUD\_SDK\_SK in the local environment

```
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreateRuleRequest{
    operatorProperties:= ""
    operatorProperties1:= ""
    operatorProperties2:= ""
    var listPropertiesContent = []model.RuleProperty{
        {
            Key: "build.PassRatio",
            Type: "judge",
            Name: "PassRatio",
            Operator: &operatorProperties,
            Value: "0.1",
            ValueType: "float",
        },
        {
            Key: "build.TotalCases",
            Type: "judge",
            Name: "TotalCases",
            Operator: &operatorProperties1,
            Value: "0.1",
            ValueType: "float",
        },
        {
            Key: "build.CoverageRatio",
            Type: "judge",
            Name: "CoverageRatio",
            Operator: &operatorProperties2,
            Value: "0.1",
            ValueType: "float",
        },
    },
}
var listContentbody = []model.RuleContent{
    {
        GroupName: "MavenUnitTest",
        Properties: listPropertiesContent,
    },
}
pluginVersionCreateRuleReq:= "0.0.15"
pluginNameCreateRuleReq:= "official_devcloud_cloudBuild"
pluginIdCreateRuleReq:= "official_devcloud_cloudBuild"
request.Body = &model.CreateRuleReq{
    Content: listContentbody,
    PluginVersion: &pluginVersionCreateRuleReq,
    PluginName: &pluginNameCreateRuleReq,
    PluginId: &pluginIdCreateRuleReq,
    LayoutContent: "layout_content",
    Name: "Creating a Rule - 20231020170337",
    Type: "Build",
}
response, err := client.CreateRule(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
```

```
}  
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

# 4.5 Tenant-level Policy Management

## 4.5.1 Creating a Policy

### Function

This API is used to create a policy.

### Calling Method

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

### URI

POST /v2/{domain\_id}/tenant/rule-sets/create

**Table 4-212** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-213** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-214** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Policy name.
rules	Yes	Array of <b>RequestRuleInstance</b> objects	Rule list.

**Table 4-215** RequestRuleInstance

Parameter	Mandatory	Type	Description
id	No	String	Rule instance ID.
is_valid	No	Boolean	Rule instance status.

## Response Parameters

**Status code: 200**

**Table 4-216** Response body parameters

Parameter	Type	Description
status	Boolean	Status.
rule_set_id	String	Policy ID.

**Status code: 400**

**Table 4-217** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/create
```

```
{
  "name": "Creating a Policy - 20231020171008",
  "rules": [ {
    "id": "425eba0deaf04596a74cf7967d7fc04d",
    "is_valid": true
  } ]
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "status": true,
  "rule_set_id": "9e0145159fdd49238aa1fcd5b8239f9"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class CreateStrategySolution {

    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);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
CreateStrategyRequest request = new CreateStrategyRequest();
CreateRuleSetReq body = new CreateRuleSetReq();
List<RequestRuleInstance> listbodyRules = new ArrayList<>();
listbodyRules.add(
    new RequestRuleInstance()
        .withId("425eba0deaf04596a74cf7967d7fc04d")
        .withIsValid(true)
);
body.withRules(listbodyRules);
body.withName("Creating a Policy - 20231020171008");
request.withBody(body);
try {
    CreateStrategyResponse response = client.createStrategy(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreateStrategyRequest()
        listRulesbody = [
            RequestRuleInstance(
                id="425eba0deaf04596a74cf7967d7fc04d",
                is_valid=True
            )
        ]
```

```
request.body = CreateRuleSetReq(  
    rules=listRulesbody,  
    name="Creating a Policy - 20231020171008"  
)  
response = client.create_strategy(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.CreateStrategyRequest{  
        idRules:= "425eba0deaf04596a74cf7967d7fc04d"  
        isValidRules:= true  
        var listRulesbody = []model.RequestRuleInstance{  
            {  
                Id: &idRules,  
                IsValid: &isValidRules,  
            },  
        }  
    }  
    request.Body = &model.CreateRuleSetReq{  
        Rules: listRulesbody,  
        Name: "Creating a Policy - 20231020171008",  
    }  
    response, err := client.CreateStrategy(request)  
    if err == nil {  
        fmt.Printf("%v\n", response)  
    } else {  
        fmt.Println(err)  
    }  
}
```



## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.5.2 Modifying a Policy

### Function

This API is used to modify a policy.

### Calling Method

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

### URI

PUT /v2/{domain\_id}/tenant/rule-sets/{rule\_set\_id}/update

**Table 4-218** Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Policy ID.
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-219** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-220** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Rule template instance name.
rules	No	Array of <b>UpdateRuleInstance</b> objects	Rule instance list.

**Table 4-221** UpdateRuleInstance

Parameter	Mandatory	Type	Description
id	No	String	Rule instance ID.
is_valid	No	Boolean	Rule instance status.

## Response Parameters

**Status code: 200**

**Table 4-222** Response body parameters

Parameter	Type	Description
status	Boolean	Status.
rule_set_id	String	Policy ID.

**Status code: 400**

**Table 4-223** Response body parameters

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

## Example Requests

```
PUT https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/  
6cb18ee5ca1c48caa335706e0e5ee288/update
```

```
{  
  "name": "Create a tenant-level policy.",  
  "rules": [ {  
    "id": "097f315044244c9193f1e3f1fba7979d",  
    "is_valid": true  
  }, {  
    "id": "80cfcff078074b8aa7951d7b67b3137b",  
    "is_valid": true  
  } ]  
}
```

## Example Responses

**Status code: 200**

OK

```
{  
  "status": true,  
  "rule_set_id": "6cb18ee5ca1c48caa335706e0e5ee288"  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class UpdateStrategySolution {  
    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);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();

UpdateStrategyRequest request = new UpdateStrategyRequest();
UpdateRuleSetReq body = new UpdateRuleSetReq();
List<UpdateRuleInstance> listbodyRules = new ArrayList<>();
listbodyRules.add(
    new UpdateRuleInstance()
        .withId("097f315044244c9193f1e3f1fba7979d")
        .withIsValid(true)
);
listbodyRules.add(
    new UpdateRuleInstance()
        .withId("80cfcff078074b8aa7951d7b67b3137b")
        .withIsValid(true)
);
body.withRules(listbodyRules);
body.withName("Create a tenant-level policy.");
request.withBody(body);
try {
    UpdateStrategyResponse response = client.updateStrategy(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
        .build()
```

```
try:
    request = UpdateStrategyRequest()
    listRulesbody = [
        UpdateRuleInstance(
            id="097f315044244c9193f1e3f1fba7979d",
            is_valid=True
        ),
        UpdateRuleInstance(
            id="80cfcff078074b8aa7951d7b67b3137b",
            is_valid=True
        )
    ]
    request.body = UpdateRuleSetReq(
        rules=listRulesbody,
        name="Create a tenant-level policy."
    )
    response = client.update_strategy(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateStrategyRequest{
        idRules:= "097f315044244c9193f1e3f1fba7979d"
        isValidRules:= true
        idRules1:= "80cfcff078074b8aa7951d7b67b3137b"
        isValidRules1:= true
        var listRulesbody = []model.UpdateRuleInstance{
            {
                Id: &idRules,
                IsValid: &isValidRules,
            },
            {
                Id: &idRules1,
```

```
        IsValid: &isValidRules1,
    },
}
request.Body = &model.UpdateRuleSetReq{
    Rules: &listRulesbody,
    Name: "Create a tenant-level policy.",
}
response, err := client.UpdateStrategy(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.5.3 Obtaining Policy Details

### Function

This API is used to obtain policy details.

### Calling Method

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

### URI

GET /v2/{domain\_id}/tenant/rule-sets/{rule\_set\_id}/detail

**Table 4-224** Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Policy ID.
domain_id	Yes	String	Tenant ID.

**Table 4-225** Query Parameters

Parameter	Mandatory	Type	Description
cloud_project_id	No	String	Project ID.

## Request Parameters

**Table 4-226** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-227** Response body parameters

Parameter	Type	Description
id	String	Rule template instance ID.
name	String	Rule template instance name.
type	String	Type.
version	String	Version.
creator	String	Creator.
create_time	String	Creation time.
updater	String	Last updater.

Parameter	Type	Description
update_time	String	Last update time.
is_valid	Boolean	Whether it is effective.
rule_instances	Array of <a href="#">RuleInstance</a> objects	Rule instance set.

**Table 4-228** RuleInstance

Parameter	Type	Description
id	String	Rule instance ID.
type	String	Rule type ID.
name	String	Rule name.
version	String	Rule version.
plugin_id	String	Extension ID.
plugin_name	String	Extension name.
plugin_version	String	Extension version.
is_valid	Boolean	Whether it is effective.
editable	Boolean	Editable or not.
content	Array of <a href="#">RuleInstanceContent</a> objects	Rule attribute list.
parent	<a href="#">RuleSet</a> object	Basic information of parent rule template.

**Table 4-229** RuleInstanceContent

Parameter	Type	Description
group_name	String	Group name.
type	String	Group type.
can_modify_when_inherit	Boolean	Whether thresholds of an inherited policy can be modified.



Parameter	Type	Description
properties	Array of <a href="#">RuleInstanceProperty</a> objects	Rule attribute list.

**Table 4-230** RuleInstanceProperty

Parameter	Type	Description
key	String	Attribute key.
type	String	Type.
name	String	Display name.
operator	String	Comparison operators.
value	String	Attribute value.
value_type	String	Data type.

**Table 4-231** RuleSet

Parameter	Type	Description
id	String	Rule template instance ID.
name	String	Rule template instance name.
type	String	Type.
version	String	Version.
operator	String	Latest operator.
operate_time	Long	Latest operation time.
is_valid	Boolean	Whether it is effective.
level	String	Tenant-level, project-level
is_public	Boolean	System level or not.

**Status code: 400**

**Table 4-232** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/  
6cb18ee5ca1c48caa335706e0e5ee288/detail?cloud_project_id=
```

## Example Responses

**Status code: 200**

OK

```
{  
  "id": "6cb18ee5ca1c48caa335706e0e5ee288",  
  "name": "Create a tenant-level policy.",  
  "version": "c0ca09cfd8a426bbdb8df4c34c4831e",  
  "is_valid": true,  
  "creator": "847a5317086c41798469d0868535943a",  
  "create_time": "2023-09-25T19:32:14",  
  "updater": "847a5317086c41798469d0868535943a",  
  "update_time": "2023-10-20T17:12:41",  
  "rule_instances": [ {  
    "id": "80cfcff078074b8aa7951d7b67b3137b",  
    "type": "Gate",  
    "name": "API automatic creation rule dyEnd",  
    "is_valid": true,  
    "version": "8128ca663cdc4cea9a6dc05e53ae0a55",  
    "plugin_id": "official_devcloud_apiTest",  
    "plugin_name": "official_devcloud_apiTest",  
    "plugin_version": "0.0.6",  
    "content": [ {  
      "group_name": "API test pass rate access control",  
      "can_modify_when_inherit": false,  
      "properties": [ {  
        "key": "apitest",  
        "type": "judge",  
        "name": "API test pass rate",  
        "value_type": "float",  
        "value": "0.5",  
        "operator": ">="  
      } ]  
    } ]  
  } ]  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ShowStrategySolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();

        ShowStrategyRequest request = new ShowStrategyRequest();
        request.withCloudProjectId("<cloud_project_id>");
        try {
            ShowStrategyResponse response = client.showStrategy(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
```

```
.build()

try:
    request = ShowStrategyRequest()
    request.cloud_project_id = "<cloud_project_id>"
    response = client.show_strategy(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowStrategyRequest{}
    cloudProjectIdRequest := "<cloud_project_id>"
    request.CloudProjectId = &cloudProjectIdRequest
    response, err := client.ShowStrategy(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.5.4 Obtaining the Policy List

### Function

This API is used to obtain the policy list.

### Calling Method

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

### URI

GET /v2/{domain\_id}/tenant/rule-sets/query

**Table 4-233** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-234** Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Offset, which is the position where the query starts. The value must be no less than 0.
limit	Yes	Integer	Number of records displayed on each page.

Parameter	Mandatory	Type	Description
include_tenant_rule_set	Yes	Boolean	Whether tenant-level rules are included.
name	No	String	Policy name, which can be used for fuzzy query.
is_valid	No	Boolean	Whether it is valid.
type	No	String	Policy type.
cloud_project_id	No	String	Project ID.

## Request Parameters

**Table 4-235** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-236** Response body parameters

Parameter	Type	Description
data	Array of <b>RuleSet</b> objects	Rule instance list.
total	Long	Total number.

**Table 4-237** RuleSet

Parameter	Type	Description
id	String	Rule template instance ID.

Parameter	Type	Description
name	String	Rule template instance name.
type	String	Type.
version	String	Version.
operator	String	Latest operator.
operate_time	Long	Latest operation time.
is_valid	Boolean	Whether it is effective.
level	String	Tenant-level, project-level
is_public	Boolean	System level or not.

**Status code: 400**

**Table 4-238** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/query?
name=&limit=2&offset=30&cloud_project_id=
```

## Example Responses

**Status code: 200**

OK

```
{
  "data": [ {
    "id": "30782f30c92e4c1dbc3c596075970d67",
    "name": "Creating a Tenant-Level Policy -apitest-rKaG on DJtest",
    "level": "tenant",
    "is_valid": true,
    "version": "67e915e472554f719abe513c28728d9f",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1692695390000
  }, {
    "id": "4f5fb96022974a2781174584f799d8c2",
    "name": "Creating a Tenant-Level Policy on DJtest-apitest-S190",
    "level": "tenant",
    "is_valid": true,
    "version": "61ebfef577c34406b5647ac1d83e7bb8",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1692695390000
  } ]
}
```

```
    } ],  
    "total" : 333  
  }  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class ListStrategySolution {  
  
    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);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ListStrategyRequest request = new ListStrategyRequest();  
        request.withOffset(<offset>);  
        request.withLimit(<limit>);  
        request.withIncludeTenantRuleSet(<include_tenant_rule_set>);  
        request.withName("<name>");  
        request.withIsValid(<is_valid>);  
        request.withType("<type>");  
        request.withCloudProjectId("<cloud_project_id>");  
        try {  
            ListStrategyResponse response = client.listStrategy(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListStrategyRequest()
        request.offset = <offset>
        request.limit = <limit>
        request.include_tenant_rule_set = <IncludeTenantRuleSet>
        request.name = "<name>"
        request.is_valid = <IsValid>
        request.type = "<type>"
        request.cloud_project_id = "<cloud_project_id>"
        response = client.list_strategy(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

```
client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListStrategyRequest{}
request.Offset = int32(<offset>)
request.Limit = int32(<limit>)
request.IncludeTenantRuleSet = <include_tenant_rule_set>
nameRequest:= "<name>"
request.Name = &nameRequest
isValidRequest:= <is_valid>
request.IsValid = &isValidRequest
typeRequest:= "<type>"
request.Type = &typeRequest
cloudProjectIdRequest:= "<cloud_project_id>"
request.CloudProjectId = &cloudProjectIdRequest
response, err := client.ListStrategy(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.5.5 Deleting a Policy

### Function

This API is used to delete a policy.

### Calling Method

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

## URI

DELETE /v2/{domain\_id}/tenant/rule-sets/{rule\_set\_id}/delete

**Table 4-239** Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Policy ID.
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-240** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-241** Response body parameters

Parameter	Type	Description
status	Boolean	Status.

**Status code: 400**

**Table 4-242** Response body parameters

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

## Example Requests

```
DELETE https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/  
7b69942175014a5ba40830c8f90b210a/delete
```

## Example Responses

**Status code: 200**

OK

```
{  
  "status" : true  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class DeleteStrategySolution {  
  
    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);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        DeleteStrategyRequest request = new DeleteStrategyRequest();  
        try {  
            DeleteStrategyResponse response = client.deleteStrategy(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = DeleteStrategyRequest()  
        response = client.delete_strategy(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).
```

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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.5.6 Enabling a Policy

### Function

This API is used to modify the policy status.

### Calling Method

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

### URI

PUT /v2/{domain\_id}/tenant/rule-sets/{rule\_set\_id}/switch

**Table 4-243** Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Policy ID.

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-244** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-245** Request body parameters

Parameter	Mandatory	Type	Description
is_valid	Yes	Boolean	Rule template instance status.

## Response Parameters

**Status code: 200**

**Table 4-246** Response body parameters

Parameter	Type	Description
status	Boolean	Status.
rule_set_id	String	Policy ID.

**Status code: 400**

**Table 4-247** Response body parameters

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

## Example Requests

```
PUT https://{endpoint}/v2/ce8df55870164338a72d7e828a966a2a/tenant/rule-sets/  
6cb18ee5ca1c48caa335706e0e5ee288/switch  
  
{  
  "is_valid" : false  
}
```

## Example Responses

**Status code: 200**

OK

```
{  
  "status" : true,  
  "rule_set_id" : "6cb18ee5ca1c48caa335706e0e5ee288"  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class SwitchStrategySolution {  
  
    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);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        SwitchStrategyRequest request = new SwitchStrategyRequest();  
        UpdateRuleSetStatusReq body = new UpdateRuleSetStatusReq();  
        body.withIsValid(false);  
        request.withBody(body);  
        try {  
            SwitchStrategyResponse response = client.switchStrategy(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = SwitchStrategyRequest()
        request.body = UpdateRuleSetStatusReq(
            is_valid=False
        )
        response = client.switch_strategy(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

```
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.SwitchStrategyRequest{}
request.Body = &model.UpdateRuleSetStatusReq{
    IsValid: false,
}
response, err := client.SwitchStrategy(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

# 4.6 Project-level Policy Management

## 4.6.1 Obtaining the Project-Level Policy List

### Function

This API is used to obtain the project-level policy list.

## Calling Method

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

## URI

GET /v2/{project\_id}/rule-sets/query

**Table 4-248** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

**Table 4-249** Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Offset, which is the position where the query starts. The value must be no less than 0.
limit	Yes	Integer	Number of records displayed on each page.
include_tenant_rule_set	Yes	Boolean	Whether tenant-level rules are included.
name	No	String	Policy name, which can be used for fuzzy query.
is_valid	No	Boolean	Whether it is valid.
type	No	String	Policy type.

## Request Parameters

**Table 4-250** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

Table 4-251 Response body parameters

Parameter	Type	Description
data	Array of <a href="#">RuleSet</a> objects	Rule instance list.
total	Long	Total number.

Table 4-252 RuleSet

Parameter	Type	Description
id	String	Rule template instance ID.
name	String	Rule template instance name.
type	String	Type.
version	String	Version.
operator	String	Latest operator.
operate_time	Long	Latest operation time.
is_valid	Boolean	Whether it is effective.
level	String	Tenant-level, project-level
is_public	Boolean	System level or not.

Status code: 400

Table 4-253 Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v2/d80a8a6530324b7bac972cbb8a9f28ec/rule-sets/query?
name=&limit=10&offset=0&include_tenant_rule_set=false
```

## Example Responses

Status code: 200

OK

```
{
  "data": [ {
    "id": "98183e0e70634f4d99da7dc549496652",
    "name": "Creating a Policy - 20230915203425",
    "level": "project",
    "is_valid": true,
    "version": "82ed35e3ecd041ebace8d62347042368",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1694781278000
  }, {
    "id": "becbd00aa13147c6a226283a4bad57e0",
    "name": "Creating a Policy - 20230817183223",
    "level": "project",
    "is_valid": true,
    "version": "e3cc0a3df511486ea36bdcb46df724f8",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1693900336000
  }, {
    "id": "52b24f9add844832a2af11f2e760c730",
    "name": "codecheck-copy",
    "level": "project",
    "is_valid": true,
    "version": "a2e50e1972f348e0838679eabe0b4467",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1693900325000
  }, {
    "id": "d899845c2eff4fa18860fa4b31c5ee31",
    "name": "codecheck",
    "level": "project",
    "is_valid": true,
    "version": "20f79c6ff8844f5391882d7b3497761b",
    "operator": "xxx",
    "is_public": false,
    "operate_time": 1693300726000
  } ],
  "total": 4
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ListProjectStrategySolution {
```

```
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);

    CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
        .withCredential(auth)
        .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
        .build();
    ListProjectStrategyRequest request = new ListProjectStrategyRequest();
    request.withOffset(<offset>);
    request.withLimit(<limit>);
    request.withIncludeTenantRuleSet(<include_tenant_rule_set>);
    request.withName("<name>");
    request.withIsValid(<is_valid>);
    request.withType("<type>");
    try {
        ListProjectStrategyResponse response = client.listProjectStrategy(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListProjectStrategyRequest()
```

```
request.offset = <offset>
request.limit = <limit>
request.include_tenant_rule_set = <IncludeTenantRuleSet>
request.name = "<name>"
request.is_valid = <IsValid>
request.type = "<type>"
response = client.list_project_strategy(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListProjectStrategyRequest{}
    request.Offset = int32(<offset>)
    request.Limit = int32(<limit>)
    request.IncludeTenantRuleSet = <include_tenant_rule_set>
    nameRequest := "<name>"
    request.Name = &nameRequest
    isValidRequest := <is_valid>
    request.IsValid = &isValidRequest
    typeRequest := "<type>"
    request.Type = &typeRequest
    response, err := client.ListProjectStrategy(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.6.2 Querying Project-level Policy Details

### Function

This API is used to query the project-level policy details.

### Calling Method

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

### URI

GET /v2/{project\_id}/rule-sets/{rule\_set\_id}/gray/detail

**Table 4-254** Path Parameters

Parameter	Mandatory	Type	Description
rule_set_id	Yes	String	Policy ID.
project_id	Yes	String	Project ID.

### Request Parameters

None

### Response Parameters

**Status code: 200**



**Table 4-255** Response body parameters

Parameter	Type	Description
id	String	Rule template instance ID.
name	String	Rule template instance name.
type	String	Type.
version	String	Version.
creator	String	Creator.
create_time	String	Creation time.
updater	String	Last updater.
update_time	String	Last update time.
is_valid	Boolean	Whether it is effective.
rule_instances	Array of <a href="#">RuleInstance</a> objects	Rule instance set.

**Table 4-256** RuleInstance

Parameter	Type	Description
id	String	Rule instance ID.
type	String	Rule type ID.
name	String	Rule name.
version	String	Rule version.
plugin_id	String	Extension ID.
plugin_name	String	Extension name.
plugin_version	String	Extension version.
is_valid	Boolean	Whether it is effective.
editable	Boolean	Editable or not.
content	Array of <a href="#">RuleInstanceContent</a> objects	Rule attribute list.
parent	<a href="#">RuleSet</a> object	Basic information of parent rule template.

**Table 4-257** RuleInstanceContent

Parameter	Type	Description
group_name	String	Group name.
type	String	Group type.
can_modify_when_inherit	Boolean	Whether thresholds of an inherited policy can be modified.
properties	Array of <a href="#">RuleInstanceProperty</a> objects	Rule attribute list.

**Table 4-258** RuleInstanceProperty

Parameter	Type	Description
key	String	Attribute key.
type	String	Type.
name	String	Display name.
operator	String	Comparison operators.
value	String	Attribute value.
value_type	String	Data type.

**Table 4-259** RuleSet

Parameter	Type	Description
id	String	Rule template instance ID.
name	String	Rule template instance name.
type	String	Type.
version	String	Version.
operator	String	Latest operator.
operate_time	Long	Latest operation time.
is_valid	Boolean	Whether it is effective.
level	String	Tenant-level, project-level
is_public	Boolean	System level or not.

**Status code: 400****Table 4-260** Response body parameters

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

**Status code: 401****Table 4-261** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 403****Table 4-262** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Status code: 404****Table 4-263** Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error description.

**Example Requests**

```
https://{endpoint}/v2/d80a8a6530324b7bac972cbb8a9f28ec/rule-sets/f9228e23118c4fa5a9c86493ea0cffc2/gray/detail
```

**Example Responses****Status code: 200**

OK

```
{
  "id": "f9228e23118c4fa5a9c86493ea0cffc2",
  "name": "System-defined policies",
  "version": "ace33a17a73442e398fedc123d047da2",
  "is_valid": true,
  "creator": "system",
  "create_time": "2022-11-14T16:12:12",
  "updater": "system",
  "update_time": "2023-03-13T20:40:56",
  "rule_instances": [ {
    "id": "ee207826d1773f9122857474af314e48",
    "type": "Gate",
    "name": "API test pass rate access control",
    "is_valid": false,
    "version": "90cd646fa8cd7f91d38e592dbb76a62e",
    "plugin_id": "official_devcloud_apiTest",
    "plugin_name": "official_devcloud_apiTest",
    "plugin_version": "0.0.1",
    "content": [ {
      "group_name": "API test pass rate access control",
      "can_modify_when_inherit": true,
      "properties": [ {
        "key": "apitest",
        "type": "judge",
        "name": "API test pass rate",
        "value_type": "float",
        "value": "1.0",
        "operator": ">="
      } ]
    } ]
  } ]
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ShowProjectStrategySolution {

    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);
    }
}
```

```
CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ShowProjectStrategyRequest request = new ShowProjectStrategyRequest();
try {
    ShowProjectStrategyResponse response = client.showProjectStrategy(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowProjectStrategyRequest()
        response = client.show_project_strategy(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)
```

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7 Extension Management

## 4.7.1 Creating an Extension Version

### Function

This API is used to create an extension version.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/create

**Table 4-264** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

### Request Parameters

**Table 4-265** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-266** Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Unique ID.
icon_url	No	String	Icon URL.
runtime_attri bution	Yes	String	Runtime attributes.
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
business_type	Yes	String	Service type.

Parameter	Mandatory	Type	Description
business_type_display_name	Yes	String	Display name of service type.
description	Yes	String	Description.
is_private	No	Integer	Private or not.
region	No	String	Region.
maintainers	No	String	Maintenance engineer.
version	Yes	String	Version number.
version_description	No	String	Version number description.
execution_info	Yes	<a href="#">execution_info</a> object	Execution information.
input_info	No	Array of <a href="#">input_info</a> objects	Input information.

**Table 4-267** execution\_info

Parameter	Mandatory	Type	Description
inner_execution_info	No	Object	Execution information.

**Table 4-268** input\_info

Parameter	Mandatory	Type	Description
name	No	String	Name.
default_value	No	String	Default value.
type	No	String	Input types.
validation	No	String	Verification.
layout_content	No	String	Style information.

## Response Parameters

**Status code: 400**



**Table 4-269** Response body parameters

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

## Example Requests

POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/create

```
{
  "plugin_name": "apie_test",
  "display_name": "apie_test",
  "version": "0.0.2",
  "version_description": "",
  "description": "",
  "unique_id": "ab43c83c2ae0400afd039ad894e953b",
  "business_type": "Normal",
  "business_type_display_name": "General",
  "icon_url": "",
  "runtime_attribution": "agent",
  "input_info": [ ],
  "execution_info": {
    "inner_execution_info": {
      "execution_type": "COMPOSITE",
      "steps": [ {
        "task": "official_shell_plugin",
        "name": "Executing the Shell",
        "identifier": "16993543666638cda5035-4854-4bc8-a88a-e1465b1bcc7a",
        "variables": {
          "OFFICIAL_SHELL_SCRIPT_INPUT": "env"
        }
      }
    ]
  }
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class CreatePluginVersionSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePluginVersionRequest request = new CreatePluginVersionRequest();
        PluginDTO body = new PluginDTO();
        PluginDTOExecutionInfo executionInfoBody = new PluginDTOExecutionInfo();
        executionInfoBody.withInnerExecutionInfo("{\"execution_type\":\"COMPOSITE\",\"steps\":[{\"identifier
\": \"1699354366638cda5035-4854-4bc8-a88a-e1465b1bcc7a\",\"variables\":
{\"OFFICIAL_SHELL_SCRIPT_INPUT\": \"env\"},\"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
\"}]}");
        body.withExecutionInfo(executionInfoBody);
        body.withVersionDescription("");
        body.withVersion("0.0.2");
        body.withDescription("");
        body.withBusinessTypeDisplayName("General");
        body.withBusinessType("Normal");
        body.withDisplayName("apie_test");
        body.withPluginName("apie_test");
        body.withRuntimeAttribution("agent");
        body.withIconUrl("");
        body.withUniqueId("ab43c83c2ae0400afd039ad894e953b");
        request.withBody(body);
        try {
            CreatePluginVersionResponse response = client.createPluginVersion(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *
```

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreatePluginVersionRequest()
        executionInfobody = PluginDTOExecutionInfo(
            inner_execution_info="{\"execution_type\": \"COMPOSITE\", \"steps\": [{\"identifier
            \": \"16993543666638cda5035-4854-4bc8-a88a-e1465b1bcc7a\", \"variables\":
            {\"OFFICIAL_SHELL_SCRIPT_INPUT\": {\"env\": {\"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
            \"}}}}"
        )
        request.body = PluginDTO(
            execution_info=executionInfobody,
            version_description="",
            version="0.0.2",
            description="",
            business_type_display_name="General",
            business_type="Normal",
            display_name="apie_test",
            plugin_name="apie_test",
            runtime_attribution="agent",
            icon_url="",
            unique_id="ab43c83c2ae04000afd039ad894e953b"
        )
        response = client.create_plugin_version(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

```
Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreatePluginVersionRequest{
    var innerExecutionInfoExecutionInfo interface{} = "{\"execution_type\": \"COMPOSITE\", \"steps\":
[{\": \"16993543666638cda5035-4854-4bc8-a88a-e1465b1bcc7a\", \"variables\":
{\": \"OFFICIAL_SHELL_SCRIPT_INPUT\": \"env\", \"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
\"}}}]\"
    executionInfobody := &model.PluginDtoExecutionInfo{
        InnerExecutionInfo: &innerExecutionInfoExecutionInfo,
    }
    versionDescriptionPluginDto:= \"\"
    iconUrlPluginDto:= \"\"
    uniqueIdPluginDto:= \"ab43c83c2ae04000afd039ad894e953b\"
    request.Body = &model.PluginDto{
        ExecutionInfo: executionInfobody,
        VersionDescription: &versionDescriptionPluginDto,
        Version: \"0.0.2\",
        Description: \"\",
        BusinessTypeDisplayName: \"General\",
        BusinessType: \"Normal\",
        DisplayName: \"apie_test\",
        PluginName: \"apie_test\",
        RuntimeAttribution: \"agent\",
        IconUrl: &iconUrlPluginDto,
        UniqueId: &uniqueIdPluginDto,
    }
    response, err := client.CreatePluginVersion(request)
    if err == nil {
        fmt.Printf(\"%+v\\n\", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.2 Creating an Extension Draft Version

### Function

This API is used to create an extension draft version.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/create-draft

**Table 4-270** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

### Request Parameters

**Table 4-271** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-272** Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Unique ID.
icon_url	No	String	Icon URL.
runtime_attri bution	Yes	String	Runtime attributes.
plugin_name	Yes	String	Extension name.

Parameter	Mandatory	Type	Description
display_name	Yes	String	Display name.
business_type	Yes	String	Service type.
business_type_display_name	Yes	String	Display name of service type.
description	Yes	String	Description.
is_private	No	Integer	Private or not.
region	No	String	Region.
maintainers	No	String	Maintenance engineer.
version	Yes	String	Version number.
version_description	No	String	Version number description.
execution_info	Yes	<a href="#">execution_info</a> object	Execution information.
input_info	No	Array of <a href="#">input_info</a> objects	Input information.

**Table 4-273** execution\_info

Parameter	Mandatory	Type	Description
inner_execution_info	No	Object	Execution information.

**Table 4-274** input\_info

Parameter	Mandatory	Type	Description
name	No	String	Name.
default_value	No	String	Default value.
type	No	String	Input types.
validation	No	String	Verification.
layout_content	No	String	Style information.

## Response Parameters

**Status code: 400**

**Table 4-275** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/create-draft
{
  "plugin_name": "apie_test",
  "display_name": "apie_test",
  "business_type": "Normal",
  "description": "",
  "maintainers": "",
  "business_type_display_name": "General",
  "icon_url": "",
  "version": "0.0.1",
  "version_description": "",
  "input_info": [],
  "execution_info": {
    "inner_execution_info": {
      "execution_type": "COMPOSITE",
      "steps": [ {
        "task": "official_shell_plugin",
        "name": "Executing the Shell",
        "identifier": "16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb",
        "variables": {
          "OFFICIAL_SHELL_SCRIPT_INPUT": "env"
        }
      }
    ]
  }
},
  "runtime_attribution": "agent"
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

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

public class CreatePluginDraftSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePluginDraftRequest request = new CreatePluginDraftRequest();
        PluginDTO body = new PluginDTO();
        PluginDTOExecutionInfo executionInfobody = new PluginDTOExecutionInfo();
        executionInfobody.withInnerExecutionInfo("{\"execution_type\":\"COMPOSITE\",\"steps\":[{\"identifier
\": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecdadb\", \"variables\":
{ \"OFFICIAL_SHELL_SCRIPT_INPUT\": \"env\", \"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
\" } } ] }");
        body.withExecutionInfo(executionInfobody);
        body.withVersionDescription("");
        body.withVersion("0.0.1");
        body.withMaintainers("");
        body.withDescription("");
        body.withBusinessTypeDisplayName("General");
        body.withBusinessType("Normal");
        body.withDisplayName("apie_test");
        body.withPluginName("apie_test");
        body.withRuntimeAttribution("agent");
        body.withIconUrl("");
        request.withBody(body);
        try {
            CreatePluginDraftResponse response = client.createPluginDraft(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreatePluginDraftRequest()
        executionInfobody = PluginDTOExecutionInfo(
            inner_execution_info="{\"execution_type\": \"COMPOSITE\", \"steps\": [{\"identifier
\\\": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecdcb\", \"variables\":
{\\\"OFFICIAL_SHELL_SCRIPT_INPUT\\\": {\\\"env\\\": {\\\"task\\\": {\\\"official_shell_plugin\\\", \\\"name\\\": \\\"Executing the Shell
\\\"}}}}\"
        )
        request.body = PluginDTO(
            execution_info=executionInfobody,
            version_description="",
            version="0.0.1",
            maintainers="",
            description="",
            business_type_display_name="General",
            business_type="Normal",
            display_name="apie_test",
            plugin_name="apie_test",
            runtime_attribution="agent",
            icon_url=""
        )
        response = client.create_plugin_draft(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

```
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreatePluginDraftRequest{
    var innerExecutionInfoExecutionInfo interface{} = "{\"execution_type\": \"COMPOSITE\", \"steps\":
[{\n\"identifier\": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb\", \"variables\":
{\n\"OFFICIAL_SHELL_SCRIPT_INPUT\": \"env\", \"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
\n\"}}]\"
    executionInfobody := &model.PluginDtoExecutionInfo{
        InnerExecutionInfo: &innerExecutionInfoExecutionInfo,
    }
    versionDescriptionPluginDto:= ""
    maintainersPluginDto:= ""
    iconUrlPluginDto:= ""
    request.Body = &model.PluginDto{
        ExecutionInfo: executionInfobody,
        VersionDescription: &versionDescriptionPluginDto,
        Version: "0.0.1",
        Maintainers: &maintainersPluginDto,
        Description: "",
        BusinessTypeDisplayName: "General",
        BusinessType: "Normal",
        DisplayName: "apie_test",
        PluginName: "apie_test",
        RuntimeAttribution: "agent",
        IconUrl: &iconUrlPluginDto,
    }
    response, err := client.CreatePluginDraft(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.3 Creating a Publisher

### Function

This API is used to create a publisher.

### Calling Method

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

### URI

POST /v1/{domain\_id}/publisher/create

**Table 4-276** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

### Request Parameters

**Table 4-277** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-278** Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name.
user_id	No	String	User ID.
description	No	String	Description.

Parameter	Mandatory	Type	Description
logo_url	No	String	Icon URL.
website	No	String	Web URL.
support_url	Yes	String	Address.
source_url	No	String	Address.
en_name	Yes	String	Name.
publisher_unique_id	No	String	Unique ID.

## Response Parameters

**Status code: 400**

**Table 4-279** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/create
{
  "name" : "aaa",
  "en_name" : "aaa",
  "website" : "",
  "support_url" : "aaa@aa.com",
  "source_url" : "",
  "description" : "",
  "logo_url" : ""
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class CreatePublisherSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePublisherRequest request = new CreatePublisherRequest();
        PublisherRequest body = new PublisherRequest();
        body.withEnName("aaa");
        body.withSourceUrl("");
        body.withSupportUrl("aaa@aa.com");
        body.withWebsite("");
        body.withLogoUrl("");
        body.withDescription("");
        body.withName("aaa");
        request.withBody(body);
        try {
            CreatePublisherResponse response = client.createPublisher(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

```
variables and decrypted during use to ensure security.
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = CreatePublisherRequest()
    request.body = PublisherRequest(
        en_name="aaa",
        source_url="",
        support_url="aaa@aa.com",
        website="",
        logo_url="",
        description="",
        name="aaa"
    )
    response = client.create_publisher(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePublisherRequest{}
    sourceUrlPublisherRequest:= ""
    websitePublisherRequest:= ""
    logoUrlPublisherRequest:= ""
    descriptionPublisherRequest:= ""
```

```
request.Body = &model.PublisherRequest{
    EnName: "aaa",
    SourceUrl: &sourceUrlPublisherRequest,
    SupportUrl: "aaa@aa.com",
    Website: &websitePublisherRequest,
    LogoUrl: &logoUrlPublisherRequest,
    Description: &descriptionPublisherRequest,
    Name: "aaa",
}
response, err := client.CreatePublisher(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.4 Updating an Extension Draft

### Function

This API is used to update an extension draft.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/edit-draft

**Table 4-280** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-281** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-282** Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Unique ID.
icon_url	No	String	Icon URL.
runtime_attri bution	Yes	String	Runtime attributes.
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
business_type	Yes	String	Service type.
business_type _display_nam e	Yes	String	Display name of service type.
description	Yes	String	Description.
is_private	No	Integer	Private or not.
region	No	String	Region.
maintainers	No	String	Maintenance engineer.
version	Yes	String	Version number.
version_descri ption	No	String	Version number description.



Parameter	Mandatory	Type	Description
execution_info	Yes	<a href="#">execution_info</a> object	Execution information.
input_info	No	Array of <a href="#">input_info</a> objects	Input information.

**Table 4-283** execution\_info

Parameter	Mandatory	Type	Description
inner_execution_info	No	Object	Execution information.

**Table 4-284** input\_info

Parameter	Mandatory	Type	Description
name	No	String	Name.
default_value	No	String	Default value.
type	No	String	Input types.
validation	No	String	Verification.
layout_content	No	String	Style information.

## Response Parameters

Status code: 400

**Table 4-285** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/edit-draft
```

```
{  
  "plugin_name": "apie_test",  
  "display_name": "apie_test",  
}
```

```
"business_type" : "Normal",
"description" : "",
"maintainers" : "",
"business_type_display_name" : "General",
"icon_url" : "",
"version" : "0.0.1",
"version_description" : "",
"input_info" : [ ],
"execution_info" : {
  "inner_execution_info" : {
    "execution_type" : "COMPOSITE",
    "steps" : [ {
      "task" : "official_shell_plugin",
      "name" : "Executing the Shell",
      "identifier" : "16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb",
      "variables" : {
        "OFFICIAL_SHELL_SCRIPT_INPUT" : "env"
      }
    }
  ]
}
},
"runtime_attribution" : "agent"
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class UpdatePluginDraftSolution {

    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);
    }
}
```

```
CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
UpdatePluginDraftRequest request = new UpdatePluginDraftRequest();
PluginDTO body = new PluginDTO();
PluginDTOExecutionInfo executionInfobody = new PluginDTOExecutionInfo();
executionInfobody.withInnerExecutionInfo("{\"execution_type\":\"COMPOSITE\",\"steps\":[{\n\"identifier\n\n\":\n\"16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb\", \"variables\":\n{\n\"OFFICIAL_SHELL_SCRIPT_INPUT\":\n\"env\", \"task\":\n\"official_shell_plugin\", \"name\":\n\"Executing the Shell\n\n\"}}]");
body.withExecutionInfo(executionInfobody);
body.withVersionDescription("");
body.withVersion("0.0.1");
body.withMaintainers("");
body.withDescription("");
body.withBusinessTypeDisplayName("General");
body.withBusinessType("Normal");
body.withDisplayName("apie_test");
body.withPluginName("apie_test");
body.withRuntimeAttribution("agent");
body.withIconUrl("");
request.withBody(body);
try {
    UpdatePluginDraftResponse response = client.updatePluginDraft(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdatePluginDraftRequest()
        executionInfobody = PluginDTOExecutionInfo(
```

```
        inner_execution_info="{\"execution_type\": \"COMPOSITE\", \"steps\": [{\"identifier
\": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb\", \"variables\":
 {\"OFFICIAL_SHELL_SCRIPT_INPUT\": \"env\"}, \"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
 \"}]}"
    )
    request.body = PluginDTO(
        execution_info=executionInfobody,
        version_description="",
        version="0.0.1",
        maintainers="",
        description="",
        business_type_display_name="General",
        business_type="Normal",
        display_name="apie_test",
        plugin_name="apie_test",
        runtime_attribution="agent",
        icon_url=""
    )
    response = client.update_plugin_draft(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePluginDraftRequest{
        var innerExecutionInfoExecutionInfo interface{} = "{\"execution_type\": \"COMPOSITE\", \"steps\":
 [{\"identifier\": \"16993543005962cb6e5e8-458a-4382-adfe-9702345ecddb\", \"variables\":
 {\"OFFICIAL_SHELL_SCRIPT_INPUT\": \"env\"}, \"task\": \"official_shell_plugin\", \"name\": \"Executing the Shell
 \"}]}"
        executionInfobody := &model.PluginDtoExecutionInfo{
            InnerExecutionInfo: &innerExecutionInfoExecutionInfo,
        }
        versionDescriptionPluginDto:= ""
        maintainersPluginDto:= ""
        iconUrlPluginDto:= ""
    }
```

```
request.Body = &model.PluginDto{
    ExecutionInfo: executionInfobody,
    VersionDescription: &versionDescriptionPluginDto,
    Version: "0.0.1",
    Maintainers: &maintainersPluginDto,
    Description: "",
    BusinessTypeDisplayName: "General",
    BusinessType: "Normal",
    DisplayName: "apie_test",
    PluginName: "apie_test",
    RuntimeAttribution: "agent",
    IconUrl: &iconUrlPluginDto,
}
response, err := client.UpdatePluginDraft(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.5 Publishing an Extension Draft

### Function

This API is used to publish an extension draft.

### Calling Method

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

## URI

POST /v1/{domain\_id}/agent-plugin/publish-draft

**Table 4-286** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-287** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-288** Request body parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
version	Yes	String	Version number.
plugin_attri- bution	Yes	String	Extension attribute: custom or official.
version_attri- bution	No	String	Version attribute: draft or formal.

## Response Parameters

**Status code: 400**

**Table 4-289** Response body parameters

Parameter	Type	Description
error_msg	String	Error message.

Parameter	Type	Description
error_code	String	Error code.

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/publish-draft
{
  "plugin_name": "testteset",
  "display_name": "testteset",
  "version": "0.0.1",
  "plugin_attribution": "custom"
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.6 Updating Basic Information of an Extension

### Function

This API is used to update basic information of an extension.

### Calling Method

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

## URI

POST /v1/{domain\_id}/agent-plugin/update-info

**Table 4-290** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-291** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-292** Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Unique ID.
icon_url	No	String	Icon URL.
runtime_attri bution	No	String	Runtime attributes.
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
business_type	Yes	String	Service type.
business_type _display_nam e	Yes	String	Display name of service type.
description	No	String	Description.
is_private	No	Integer	Private or not.
region	No	String	Region.
maintainers	No	String	Maintenance engineer.



Parameter	Mandatory	Type	Description
plugin_composition_type	No	String	Combination extension type.

## Response Parameters

**Status code: 400**

**Table 4-293** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/update-info

{
  "plugin_name" : "apie_test",
  "display_name" : "apie_test",
  "business_type" : "Normal",
  "description" : "1111",
  "maintainers" : "",
  "business_type_display_name" : "General",
  "icon_url" : ""
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

```
public class UpdatePluginBaseInfoSolution {
    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdatePluginBaseInfoRequest request = new UpdatePluginBaseInfoRequest();
        PluginBasicDTO body = new PluginBasicDTO();
        body.withMaintainers("");
        body.withDescription("1111");
        body.withBusinessTypeDisplayName("General");
        body.withBusinessType("Normal");
        body.withDisplayName("apie_test");
        body.withPluginName("apie_test");
        body.withIconUrl("");
        request.withBody(body);
        try {
            UpdatePluginBaseInfoResponse response = client.updatePluginBaseInfo(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

```
.with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
.build()

try:
    request = UpdatePluginBaseInfoRequest()
    request.body = PluginBasicDTO(
        maintainers="",
        description="1111",
        business_type_display_name="General",
        business_type="Normal",
        display_name="apie_test",
        plugin_name="apie_test",
        icon_url=""
    )
    response = client.update_plugin_base_info(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdatePluginBaseInfoRequest{
        maintainersPluginBasicDto:= ""
        descriptionPluginBasicDto:= "1111"
        iconUrlPluginBasicDto:= ""
    }
    request.Body = &model.PluginBasicDto{
        Maintainers: &maintainersPluginBasicDto,
        Description: &descriptionPluginBasicDto,
        BusinessTypeDisplayName: "General",
        BusinessType: "Normal",
        DisplayName: "apie_test",
        PluginName: "apie_test",
        IconUrl: &iconUrlPluginBasicDto,
    }
    response, err := client.UpdatePluginBaseInfo(request)
    if err == nil {
```

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

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.7 Publishing an Extension

### Function

This API is used to publish an extension.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/publish-plugin

**Table 4-294** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-295** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-296** Request body parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
version	Yes	String	Version.
publisher_unique_id	Yes	String	Publisher ID.

## Response Parameters

**Status code: 400**

**Table 4-297** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/publish-plugin
{
  "plugin_name": "basic_plugin",
  "version": "0.0.1",
  "publisher_unique_id": "b9fc8fb6d9194536ac66dd74c2212126"
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class PublishPluginSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        PublishPluginRequest request = new PublishPluginRequest();
        PublishPluginDTO body = new PublishPluginDTO();
        body.withPublisherUniqueId("b9fc8fb6d9194536ac66dd74c2212126");
        body.withVersion("0.0.1");
        body.withPluginName("basic_plugin");
        request.withBody(body);
        try {
            PublishPluginResponse response = client.publishPlugin(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = PublishPluginRequest()
        request.body = PublishPluginDTO(
            publisher_unique_id="b9fc8fb6d9194536ac66dd74c2212126",
            version="0.0.1",
            plugin_name="basic_plugin"
        )
        response = client.publish_plugin(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.PublishPluginRequest{}
```

```
request.Body = &model.PublishPluginDto{
    PublisherUniqueId: "b9fc8fb6d9194536ac66dd74c2212126",
    Version: "0.0.1",
    PluginName: "basic_plugin",
}
response, err := client.PublishPlugin(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.8 Binding an Extension to a Publisher

### Function

This API is used to bind an extension to a publisher.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/publish-plugin-bind



**Table 4-298** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-299** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-300** Request body parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
version	Yes	String	Version.
publisher_unique_id	Yes	String	Publisher ID.

## Response Parameters

**Status code: 400**

**Table 4-301** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/publish-plugin-bind
{
  "plugin_name": "basic_plugin",
  "version": "",
}
```

```
"publisher_unique_id" : "b9fc8fb6d9194536ac66dd74c2212126"  
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

```
package com.huaweicloud.sdk.test;  
  
import com.huaweicloud.sdk.core.auth.ICredential;  
import com.huaweicloud.sdk.core.auth.BasicCredentials;  
import com.huaweicloud.sdk.core.exception.ConnectionException;  
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;  
import com.huaweicloud.sdk.core.exception.ServiceResponseException;  
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;  
import com.huaweicloud.sdk.codeartspipeline.v2.*;  
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;  
  
public class PublishPluginBindSolution {  
  
    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);  
  
        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))  
            .build();  
        PublishPluginBindRequest request = new PublishPluginBindRequest();  
        PublishPluginDTO body = new PublishPluginDTO();  
        body.withPublisherUniqueId("b9fc8fb6d9194536ac66dd74c2212126");  
        body.withVersion("");  
        body.withPluginName("basic_plugin");  
        request.withBody(body);  
        try {  
            PublishPluginBindResponse response = client.publishPluginBind(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = PublishPluginBindRequest()  
        request.body = PublishPluginDTO(  
            publisher_unique_id="b9fc8fb6d9194536ac66dd74c2212126",  
            version="",  
            plugin_name="basic_plugin"  
        )  
        response = client.publish_plugin_bind(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).
```

```
Build()

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.PublishPluginBindRequest{}
request.Body = &model.PublishPluginDto{
    PublisherUniqueId: "b9fc8fb6d9194536ac66dd74c2212126",
    Version: "",
    PluginName: "basic_plugin",
}
response, err := client.PublishPluginBind(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.9 Updating the Extension Icon

### Function

This API is used to update the extension icon.

### Calling Method

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

## URI

POST /v1/{domain\_id}/common/upload-plugin-icon

**Table 4-302** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-303** Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.

## Request Parameters

**Table 4-304** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-305** FormData parameters

Parameter	Mandatory	Type	Description
upload_file	Yes	File	Icon file.

## Response Parameters

**Status code: 400**

**Table 4-306** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/common/upload-plugin-icon?
plugin_name=apie_test
```

## Example Responses

**Status code: 200**

Icon path.

```
/api/v1/ce8df55870164338a72d7e828a966a2a/common/get-plugin-icon?object_key=apie_test-3
a9aa612ab8747898c8b2832561d6751-2023-08-03141751.png-
ce8df55870164338a72d7e828a966a2a&icon_type=plugin
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class UploadPluginIconSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UploadPluginIconRequest request = new UploadPluginIconRequest();
        request.withPluginName("<plugin_name>");
        try {
            UploadPluginIconResponse response = client.uploadPluginIcon(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = UploadPluginIconRequest()  
        request.plugin_name = "<plugin_name>"  
        response = client.upload_plugin_icon(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().
```

```
WithRegion(region.ValueOf("<YOUR REGION>")).
WithCredential(auth).
Build()

request := &model.UploadPluginIconRequest{}
request.PluginName = "<plugin_name>"
response, err := client.UploadPluginIcon(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	Icon path.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.10 Updating the Publisher Icon

### Function

This API is used to update the publisher icon.

### Calling Method

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

### URI

POST /v1/{domain\_id}/common/upload-publisher-icon



**Table 4-307** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-308** Query Parameters

Parameter	Mandatory	Type	Description
publisher_en_name	Yes	String	Publisher name.

## Request Parameters

**Table 4-309** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-310** FormData parameters

Parameter	Mandatory	Type	Description
upload_file	Yes	File	Icon file.

## Response Parameters

**Status code: 400**

**Table 4-311** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/common/upload-publisher-icon
```

## Example Responses

**Status code: 200**

Icon access path.

```
/api/v1/ce8df55870164338a72d7e828a966a2a/common/get-plugin-icon?object_key=default-82960e8ecd194e07bcb5e4e660b7439f-2023-08-03141751.png-ce8df55870164338a72d7e828a966a2a&icon_type=publish
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class UploadPublisherIconSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UploadPublisherIconRequest request = new UploadPublisherIconRequest();
        request.withPublisherEnName("<publisher_en_name>");
        try {
            UploadPublisherIconResponse response = client.uploadPublisherIcon(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = UploadPublisherIconRequest()  
        request.publisher_en_name = "<publisher_en_name>"  
        response = client.upload_publisher_icon(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
WithCredential(auth).  
Build())  
  
request := &model.UploadPublisherIconRequest{}  
request.PublisherEnName = "<publisher_en_name>"  
response, err := client.UploadPublisherIcon(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

## More

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

## Status Codes

Status Code	Description
200	Icon access path.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.11 Deleting an Extension Draft

### Function

This API is used to delete an extension draft.

### Calling Method

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

### URI

DELETE /v1/{domain\_id}/agent-plugin/delete-draft

**Table 4-312** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-313** Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
version	Yes	String	Version.

## Request Parameters

**Table 4-314** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 400

**Table 4-315** Response body parameters

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

## Example Requests

```
DELETE https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/delete-draft?
plugin_name=apie_test&version=0.0.3
```

## Example Responses

Status code: 200

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class DeletePluginDraftSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeletePluginDraftRequest request = new DeletePluginDraftRequest();
        request.withPluginName("<plugin_name>");
        request.withVersion("<version>");
        try {
            DeletePluginDraftResponse response = client.deletePluginDraft(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeletePluginDraftRequest()
        request.plugin_name = "<plugin_name>"
        request.version = "<version>"
        response = client.delete_plugin_draft(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeletePluginDraftRequest{}
    request.PluginName = "<plugin_name>"
    request.Version = "<version>"
    response, err := client.DeletePluginDraft(request)
    if err == nil {
```

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

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.12 Querying the Publisher List

### Function

This API is used to query the publisher list.

### Calling Method

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

### URI

GET /v1/{domain\_id}/publisher/query-all

**Table 4-316** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.



**Table 4-317** Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	String	Offset.
limit	Yes	String	Size.
name	No	String	Publisher name.

## Request Parameters

**Table 4-318** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-319** Response body parameters

Parameter	Type	Description
offset	Integer	Query offset.
limit	Integer	Number of records of each query.
total	Long	Total number of queries.
data	Array of <b>PublisherVO</b> objects	Data list.

**Table 4-320** PublisherVO

Parameter	Type	Description
publisher_unique_id	String	Publisher ID.
user_id	String	User ID.

Parameter	Type	Description
tenant_id	String	Tenant ID.
description	String	Description.
logo_url	String	Icon URL.
website	String	Web URL.
support_url	String	Address.
source_url	String	Address.
en_name	String	Name.
name	String	Name.
auth_status	String	Authorization status.
is_delete	Integer	Whether to delete.
last_update_u ser_name	String	Last updater.
last_update_u ser_id	String	Last updater ID.
last_update_ti me	String	Last update time.

**Status code: 400**

**Table 4-321** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/query-all?
name=&limit=10&offset=0&_=1699357492733
```

## Example Responses

**Status code: 200**

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 3,
```



```
import com.huaweicloud.sdk.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPublisherSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPublisherRequest request = new ListPublisherRequest();
        request.withOffset("<offset>");
        request.withLimit("<limit>");
        request.withName("<name>");
        try {
            ListPublisherResponse response = client.listPublisher(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \
```

```
.build()

try:
    request = ListPublisherRequest()
    request.offset = "<offset>"
    request.limit = "<limit>"
    request.name = "<name>"
    response = client.list_publisher(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPublisherRequest{}
    request.Offset = "<offset>"
    request.Limit = "<limit>"
    nameRequest := "<name>"
    request.Name = &nameRequest
    response, err := client.ListPublisher(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

### 4.7.13 Querying the Available Publisher

#### Function

This API is used to query the available publisher.

#### Calling Method

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

#### URI

GET /v1/{domain\_id}/publisher/optional-publisher

**Table 4-322** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-323** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200****Table 4-324** Response body parameters

Parameter	Type	Description
[items]	Array of <b>PublisherVO</b> objects	OK

**Table 4-325** PublisherVO

Parameter	Type	Description
publisher_unique_id	String	Publisher ID.
user_id	String	User ID.
tenant_id	String	Tenant ID.
description	String	Description.
logo_url	String	Icon URL.
website	String	Web URL.
support_url	String	Address.
source_url	String	Address.
en_name	String	Name.
name	String	Name.
auth_status	String	Authorization status.





## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ListAvailablePublisherSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListAvailablePublisherRequest request = new ListAvailablePublisherRequest();
        try {
            ListAvailablePublisherResponse response = client.listAvailablePublisher(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

```
variables and decrypted during use to ensure security.
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = ListAvailablePublisherRequest()
    response = client.list_available_publisher(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.14 Querying the Available Extension List

### Function

This API is used to query available extensions.

### Calling Method

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

### URI

POST /v1/{domain\_id}/relation/stage-plugins

**Table 4-327** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-328** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-329** Request body parameters

Parameter	Mandatory	Type	Description
use_condition	No	String	Whether an extension can be used by a pipeline or a template.
comp_id	No	String	Microservice ID.
comp_name	No	String	Microservice name.
cloud_id	No	String	Region ID.
strategy_id	No	String	Policy ID.
category	No	String	Pipeline type.
publish_tab	No	String	Whether to release the pipeline.
platform	No	String	Deployment platform.
comp_extend_type	No	String	Component type.
deploy_type	No	String	Deployment type.

## Response Parameters

Status code: 200

**Table 4-330** Response body parameters

Parameter	Type	Description
full_stage_plugins_item_list	Array of <a href="#">full_stage_plugins_item_list</a> objects	Result set.

**Table 4-331** full\_stage\_plugins\_item\_list

Parameter	Type	Description
plugins_list	Array of <a href="#">plugins_list</a> objects	Extension list.
display_name	String	Display name.
business_type	String	Service type.
unique_id	String	Unique ID.
conditions	Array of strings	Conditions.
addables	Array of <a href="#">addables</a> objects	Additional attribute.
editable	Boolean	Editable or not.
removable	Boolean	Removable or not.
cloneable	Boolean	Replicable or not.
disabled	Boolean	Disabled.

**Table 4-332** plugins\_list

Parameter	Type	Description
unique_id	String	Unique ID.
display_name	String	Display name.
plugin_name	String	Extension name.
disabled	Boolean	Disabled.
group_name	String	Group name.
group_type	String	Group type.

Parameter	Type	Description
plugin_attri bution	String	Extension attribute.
plugin_compo sition_type	String	Combination extension.
runtime_attri bution	String	Runtime attributes.
all_steps	Array of <a href="#">all_steps</a> objects	Basic extension list.
description	String	Description.
version_attri bution	String	Version attribute.
icon_url	String	Icon URL.
multi_step_ed itable	Integer	Editable or not.
standard	Boolean	Standard.

**Table 4-333** all\_steps

Parameter	Type	Description
plugin_name	String	Extension name.
display_name	String	Display name.
version	String	Version.

**Table 4-334** addables

Parameter	Type	Description
additionalPro p1	Boolean	Additional attribute 1
additionalPro p2	Boolean	Additional attribute 2
additionalPro p3	Boolean	Additional attribute 3

**Status code: 400**

**Table 4-335** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/relation/stage-plugins
{
  "use_condition": "pipeline"
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "full_stage_plugins_item_list": [ {
    "plugins_list": [ {
      "unique_id": "47d48e84-8a98-4ad1-8bc0-59c112a05c5b",
      "display_name": "CloudBuild",
      "plugin_name": "official_devcloud_cloudBuild",
      "disabled": false,
      "group_name": null,
      "group_type": null,
      "plugin_attribution": "official",
      "plugin_composition_type": "single",
      "runtime_attribution": "agent",
      "all_steps": null,
      "description": "CloudBuild capabilities can be called on the pipeline for building.CloudBuild provides an
easy-to-use, cloud-based build platform that supports multiple programming languages, helping you
achieve continuous delivery, with shorter delivery period and higher delivery efficiency. With CloudBuild, you
can create, configure, and run build tasks with a few clicks. CloudBuild also supports automation of code
retrieval, building, and packaging, as well as real-time status monitoring.",
      "version_attribution": "formal",
      "icon_url": "/api/v1/*/common/get-plugin-icon?object_key=official_devcloud_cloudBuild-
d81c87f9977d4923a546d067a0001914-Build.png-ce8df55870164338a72d7e828a966a2a",
      "multi_step_editable": 0,
      "standard": true
    } ],
    "display_name": "Build",
    "business_type": "Build",
    "unique_id": "f44ca008-ae9b-45ee-905d-711429382c71",
    "conditions": null,
    "addables": null,
    "editable": false,
    "removable": false,
    "cloneable": false,
    "disabled": false
  } ]
}
```

## SDK Sample Code

The SDK sample code is as follows.

## Java

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

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

public class ListStagePluginsSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListStagePluginsRequest request = new ListStagePluginsRequest();
        StagePluginsQueryDTO body = new StagePluginsQueryDTO();
        body.withUseCondition("pipeline");
        request.withBody(body);
        try {
            ListStagePluginsResponse response = client.listStagePlugins(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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



```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = ListStagePluginsRequest()
    request.body = StagePluginsQueryDTO(
        use_condition="pipeline"
    )
    response = client.list_stage_plugins(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListStagePluginsRequest{
        useConditionStagePluginsQueryDto:= "pipeline"
    }
    request.Body = &model.StagePluginsQueryDto{
        UseCondition: &useConditionStagePluginsQueryDto,
    }
    response, err := client.ListStagePlugins(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.15 Querying the Basic Extension List

### Function

This API is used to query the basic extension list.

### Calling Method

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

### URI

GET /v1/{domain\_id}/relation/plugin/single

**Table 4-336** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-337** Query Parameters

Parameter	Mandatory	Type	Description
attribution	Yes	String	Extension attribute: official or published.

Parameter	Mandatory	Type	Description
offset	Yes	String	Offset.
limit	Yes	String	Size.

## Request Parameters

**Table 4-338** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-339** Response body parameters

Parameter	Type	Description
offset	Integer	Offset.
limit	Integer	Size.
total	Integer	Total number.
data	Array of <b>data</b> objects	Result set.

**Table 4-340** data

Parameter	Type	Description
name	String	Name.
display_name	String	Display name.
plugin_attribution	String	Attribute.
icon_url	String	Icon URL.

Parameter	Type	Description
description	String	Description.
publisher_id	String	Publisher ID.
manifest_version	String	Version.

**Status code: 400**

**Table 4-341** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/relation/plugin/single?
limit=10&offset=0&attribution=official&_=1699356895028
```

## Example Responses

**Status code: 200**

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 3,
  "data" : [ {
    "name" : "official_shell_plugin",
    "display_name" : "Executing the Shell",
    "plugin_attribution" : "official",
    "icon_url" : "",
    "description" : "Used to run user shell commands.",
    "publisher_id" : null,
    "manifest_version" : "3"
  }, {
    "name" : "test_plugin_230725",
    "display_name" : "Testing the New Plug-in Process 2307251",
    "plugin_attribution" : "official",
    "icon_url" : "/api/v1/*/common/get-plugin-icon?object_key=test_plugin_230725-
b7b10ddbbae14356ab16d649a43d7776-20210811-153521(WeLinkPC).png-
ce8df55870164338a72d7e828a966a2a&icon_type=plugin",
    "description" : "Here is the description.",
    "publisher_id" : null,
    "manifest_version" : "3"
  }, {
    "name" : "official_git_clone",
    "display_name" : "official_git_clone",
    "plugin_attribution" : "official",
    "icon_url" : "",
    "description" : "Download the code library configured in the pipeline source.",
    "publisher_id" : null,
  }
]
```

```
"manifest_version" : null
} ]
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ListBasePluginsSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListBasePluginsRequest request = new ListBasePluginsRequest();
        request.withAttribution("<attribution>");
        request.withOffset("<offset>");
        request.withLimit("<limit>");
        try {
            ListBasePluginsResponse response = client.listBasePlugins(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListBasePluginsRequest()
        request.attribution = "<attribution>"
        request.offset = "<offset>"
        request.limit = "<limit>"
        response = client.list_base_plugins(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListBasePluginsRequest{}
    request.Attribution = "<attribution>"
    request.Offset = "<offset>"
```

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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.16 Querying the Available Extensions by Page

### Function

This API is used to query the available extensions by page.

### Calling Method

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

### URI

POST /v1/{domain\_id}/relation/plugins

**Table 4-342** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-343** Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Offset.
limit	Yes	Integer	Size.

## Request Parameters

**Table 4-344** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-345** Request body parameters

Parameter	Mandatory	Type	Description
use_condition	No	String	Whether the extension can be used by a pipeline or template. Options: pipeline or template.
input_repo_type	No	String	This parameter is used to distinguish the source code repository type: CodeArts Repo, GitLab, or GitHub.
input_source_type	No	String	This parameter is used to distinguish whether a pipeline has one source or multiple sources.
business_type	No	String	Service type.
regex_name	No	String	Name.

## Response Parameters

**Status code: 200**



**Table 4-346** Response body parameters

Parameter	Type	Description
offset	Integer	Offset.
limit	Integer	Size.
total	Integer	Total number.
data	Array of <b>data</b> objects	Result set.

**Table 4-347** data

Parameter	Type	Description
business_type	String	Service type.
display_name	String	Display name.
unique_id	String	Unique ID.
editable	Boolean	Editable.
removable	Boolean	Removable.
cloneable	Boolean	Replicable.
disabled	Boolean	Disabled.
conditions	Array of strings	Conditions.
plugins_list	Array of <b>plugins_list</b> objects	Extension list.

**Table 4-348** plugins\_list

Parameter	Type	Description
unique_id	String	Unique ID.
display_name	String	Display name.
plugin_name	String	Extension name.
disabled	Boolean	Disabled.
group_name	String	Group name.
group_type	String	Group type.

Parameter	Type	Description
plugin_attribution	String	Attribute.
plugin_composition_type	String	Combination extension.
runtime_attribution	String	Runtime attributes.
all_steps	Array of <a href="#">all_steps</a> objects	Basic extension list.
description	String	Description.
version_attribution	String	Version attribute.
icon_url	String	Icon URL.
multi_step_editable	Integer	Editable.
location	String	Address.
publisher_unique_id	String	Publisher ID.
manifest_version	String	Version.

**Table 4-349** all\_steps

Parameter	Type	Description
plugin_name	String	Extension name.
display_name	String	Display name.
version	String	Version.

**Status code: 400****Table 4-350** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/relation/plugins?limit=4&offset=0
{
  "input_repo_type": "codehub",
  "input_source_type": "single",
  "use_condition": "pipeline",
  "business_type": "",
  "regex_name": ""
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "offset": 0,
  "limit": 4,
  "total": 246,
  "data": {
    "plugins_list": [ {
      "unique_id": "1bfe2cd6b6f44fe3a918768e0391144f",
      "display_name": "1030 test",
      "plugin_name": "132132132231",
      "disabled": false,
      "group_name": null,
      "group_type": null,
      "plugin_attribution": "custom",
      "plugin_composition_type": "single",
      "runtime_attribution": "agent",
      "all_steps": null,
      "description": "",
      "version_attribution": "formal",
      "icon_url": "",
      "multi_step_editable": 1,
      "location": "pipeline.service",
      "publisher_unique_id": null,
      "manifest_version": "3"
    }, {
      "unique_id": "84b6d96b240644b8a9c529981759a6d2",
      "display_name": "Release",
      "plugin_name": "create_test_2",
      "disabled": false,
      "group_name": null,
      "group_type": null,
      "plugin_attribution": "custom",
      "plugin_composition_type": "multi",
      "runtime_attribution": "agent",
      "all_steps": null,
      "description": "test",
      "version_attribution": "formal",
      "icon_url": "",
      "multi_step_editable": 1,
      "location": "pipeline.service",
      "publisher_unique_id": null,
      "manifest_version": "3"
    }, {
      "unique_id": "816c527f9ba34904b84823718633ecdf",
      "display_name": "Plug-in Creation Test",
      "plugin_name": "create_test.plugin_draft",
      "disabled": false,
      "group_name": null,
      "group_type": null,
      "plugin_attribution": "custom",
      "plugin_composition_type": "multi",
      "runtime_attribution": "agent",

```

```
"all_steps" : null,
"description" : "test",
"version_attribution" : "draft",
"icon_url" : "",
"multi_step_editable" : 1,
"location" : "pipeline,service",
"publisher_unique_id" : null,
"manifest_version" : "3"
}, {
  "unique_id" : "6e7a5fe5e7214ce6858087357a4bf79b",
  "display_name" : "Plug-in Version Description Test",
  "plugin_name" : "plugin_version_test",
  "disabled" : false,
  "group_name" : null,
  "group_type" : null,
  "plugin_attribution" : "custom",
  "plugin_composition_type" : "single",
  "runtime_attribution" : "agent",
  "all_steps" : null,
  "description" : "Plug-in Version Description Test",
  "version_attribution" : "formal",
  "icon_url" : "",
  "multi_step_editable" : 1,
  "location" : "pipeline,service",
  "publisher_unique_id" : null,
  "manifest_version" : "3"
}],
"display_name" : "Check",
"business_type" : "Gate",
"unique_id" : "032ad7e2-5e19-4e90-8517-0958deb89e12",
"conditions" : null,
"editable" : false,
"removable" : false,
"cloneable" : false,
"disabled" : false
}
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ListBasePluginsNewPostSolution {

    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);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ListBasePluginsNewPostRequest request = new ListBasePluginsNewPostRequest();
request.withOffset(<offset>);
request.withLimit(<limit>);
BusinessTypePluginsQueryDTO body = new BusinessTypePluginsQueryDTO();
body.withRegexName("");
body.withBusinessType("");
body.withInputSourceType("single");
body.withInputRepoType("codehub");
body.withUseCondition("pipeline");
request.withBody(body);
try {
    ListBasePluginsNewPostResponse response = client.listBasePluginsNewPost(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListBasePluginsNewPostRequest()
        request.offset = <offset>
        request.limit = <limit>
        request.body = BusinessTypePluginsQueryDTO(
            regex_name="",
            business_type="",
            input_source_type="single",
            input_repo_type="codehub",
```

```
        use_condition="pipeline"
    )
    response = client.list_base_plugins_new_post(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListBasePluginsNewPostRequest{}
    request.Offset = int32(<offset>)
    request.Limit = int32(<limit>)
    regexNameBusinessTypePluginsQueryDto := ""
    businessTypeBusinessTypePluginsQueryDto := ""
    inputSourceTypeBusinessTypePluginsQueryDto := "single"
    inputRepoTypeBusinessTypePluginsQueryDto := "codehub"
    useConditionBusinessTypePluginsQueryDto := "pipeline"
    request.Body = &model.BusinessTypePluginsQueryDto{
        RegexName: &regexNameBusinessTypePluginsQueryDto,
        BusinessType: &businessTypeBusinessTypePluginsQueryDto,
        InputSourceType: &inputSourceTypeBusinessTypePluginsQueryDto,
        InputRepoType: &inputRepoTypeBusinessTypePluginsQueryDto,
        UseCondition: &useConditionBusinessTypePluginsQueryDto,
    }
    response, err := client.ListBasePluginsNewPost(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.17 Querying the Extension List

### Function

This API is used to query the extension list.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/query-all

**Table 4-351** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-352** Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	String	Offset.

Parameter	Mandatory	Type	Description
limit	Yes	String	Size.

## Request Parameters

**Table 4-353** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-354** Request body parameters

Parameter	Mandatory	Type	Description
plugin_name	No	String	Query condition: extension name.
regex_name	No	String	Query condition: match name.
maintainer	No	String	Maintenance engineer.
business_type	No	Array of strings	Service type: Build, Gate, Deploy, Test, or Normal.
plugin_attri- bution	No	String	Extension attribute: official or custom.

## Response Parameters

**Status code: 200**

**Table 4-355** Response body parameters

Parameter	Type	Description
offset	Integer	Offset.
limit	Integer	Size.
total	Integer	Total number.



Parameter	Type	Description
data	Array of <a href="#">PluginBasicVO</a> objects	Result set.

**Table 4-356** PluginBasicVO

Parameter	Type	Description
plugin_name	String	Extension name.
display_name	String	Display name.
version	String	Version.
version_description	String	Version description.
description	String	Description.
version_attri- bution	String	Version attribute.
unique_id	String	Unique ID.
op_user	String	Operator.
op_time	String	Operation time.
plugin_compo- sition_type	String	Combination type.
plugin_attri- bution	String	Attribute.
workspace_id	String	Tenant ID.
business_type	String	Service type.
business_type_ _display_name	String	Display name of service type.
maintainers	String	Maintenance engineer.
icon_url	String	Icon URL.
refer_count	Integer	Number of references.
usage_count	Integer	Number of usages.
runtime_attri- bution	String	Runtime attributes.
active	Integer	Activated or not.

**Status code: 400****Table 4-357** Response body parameters

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

**Example Requests**

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/query-all?offset=0&limit=3
{
  "plugin_name": "",
  "maintainer": "",
  "business_type": [ "Build", "Gate", "Deploy", "Test", "Normal" ],
  "plugin_attribution": "custom"
}
```

**Example Responses****Status code: 200**

OK

```
{
  "offset" : 0,
  "limit" : 3,
  "total" : 32,
  "data" : [ {
    "plugin_name" : "basic_plugin",
    "display_name" : "basic_plugin",
    "version" : "",
    "version_description" : null,
    "description" : "",
    "version_attribution" : "init",
    "unique_id" : "83edd75a8be5406496d9fc63ce6c984e",
    "op_user" : "devcloud_devcloud_h00485561_01",
    "op_time" : "1699355741000",
    "plugin_composition_type" : "single",
    "plugin_attribution" : "custom",
    "workspace_id" : "ce8df55870164338a72d7e828a966a2a",
    "business_type" : "Normal",
    "business_type_display_name" : "General",
    "maintainers" : "",
    "icon_url" : "",
    "refer_count" : null,
    "usage_count" : null,
    "runtime_attribution" : "agent",
    "active" : 1
  }, {
    "plugin_name" : "apie_test",
    "display_name" : "apie_test",
    "version" : "0.0.2",
    "version_description" : "",
    "description" : "",
    "version_attribution" : "formal",
    "unique_id" : "8287cdb4908741f889ed307d265677d1",
    "op_user" : "devcloud_devcloud_h00485561_01",
    "op_time" : "1699354371000",
    "plugin_composition_type" : "multi",
    "plugin_attribution" : "custom",
  }
}
```

```
"workspace_id" : "ce8df55870164338a72d7e828a966a2a",
"business_type" : "Normal",
"business_type_display_name" : "General",
"maintainers" : "",
"icon_url" : "",
"refer_count" : 0,
"usage_count" : null,
"runtime_attribution" : "agent",
"active" : 0
}, {
"plugin_name" : "asdasadas",
"display_name" : "dasddasas",
"version" : "",
"version_description" : null,
"description" : "",
"version_attribution" : "init",
"unique_id" : "4fccd9e61c424d1298cc9e5f71e7c9e7",
"op_user" : "devcloud_devcloud_h00485561_01",
"op_time" : "1699325617000",
"plugin_composition_type" : "single",
"plugin_attribution" : "custom",
"workspace_id" : "ce8df55870164338a72d7e828a966a2a",
"business_type" : "Gate",
"business_type_display_name" : "Check",
"maintainers" : "",
"icon_url" : "",
"refer_count" : null,
"usage_count" : null,
"runtime_attribution" : "agent",
"active" : 1
}
}]
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class ListPluginsSolution {

    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);
```

```
CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ListPluginsRequest request = new ListPluginsRequest();
request.withOffset("<offset>");
request.withLimit("<limit>");
AgentPluginInfoQueryDTO body = new AgentPluginInfoQueryDTO();
List<String> listbodyBusinessType = new ArrayList<>();
listbodyBusinessType.add("Build");
listbodyBusinessType.add("Gate");
listbodyBusinessType.add("Deploy");
listbodyBusinessType.add("Test");
listbodyBusinessType.add("Normal");
body.withPluginAttribution("custom");
body.withBusinessType(listbodyBusinessType);
body.withMaintainer("");
body.withPluginName("");
request.withBody(body);
try {
    ListPluginsResponse response = client.listPlugins(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListPluginsRequest()
        request.offset = "<offset>"
        request.limit = "<limit>"
        listBusinessTypebody = [
            "Build",
            "Gate",
```

```
        "Deploy",
        "Test",
        "Normal"
    ]
    request.body = AgentPluginInfoQueryDTO(
        plugin_attribution="custom",
        business_type=listBusinessTypebody,
        maintainer="",
        plugin_name=""
    )
    response = client.list_plugins(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPluginsRequest{}
    request.Offset = "<offset>"
    request.Limit = "<limit>"
    var listBusinessTypebody = []string{
        "Build",
        "Gate",
        "Deploy",
        "Test",
        "Normal",
    }
    pluginAttributionAgentPluginInfoQueryDto:= "custom"
    maintainerAgentPluginInfoQueryDto:= ""
    pluginNameAgentPluginInfoQueryDto:= ""
    request.Body = &model.AgentPluginInfoQueryDto{
        PluginAttribution: &pluginAttributionAgentPluginInfoQueryDto,
        BusinessType: &listBusinessTypebody,
        Maintainer: &maintainerAgentPluginInfoQueryDto,
        PluginName: &pluginNameAgentPluginInfoQueryDto,
    }
}
```

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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.18 Querying Extension Indicator Configuration

### Function

This API is used to query extension indicator configuration.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/plugin-metrics

**Table 4-358** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-359** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-360** Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of <b>PluginPartQueryDTO</b> objects	Query request body.

**Table 4-361** PluginPartQueryDTO

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
version	Yes	String	Version number.
plugin_attribute	Yes	String	Extension attribute: custom or official.
version_attribute	No	String	Version attribute: draft or formal.

## Response Parameters

Status code: 200

**Table 4-362** Response body parameters

Parameter	Type	Description
[items]	Array of <a href="#">PluginPartQueryVOListAgentPluginOutputVO</a> objects	OK

**Table 4-363** PluginPartQueryVOListAgentPluginOutputVO

Parameter	Type	Description
plugin_name	String	Extension name.
display_name	String	Display name.
data	Array of <a href="#">data</a> objects	Result set.

**Table 4-364** data

Parameter	Type	Description
unique_id	String	Unique ID.
plugin_name	String	Extension name.
version	String	Version.
workspace_id	String	Tenant ID.
output_key	String	Name.
output_value	String	Value.

**Status code: 400****Table 4-365** Response body parameters

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



## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/plugin-metrics

[ {
  "plugin_name" : "test_multi_language",
  "version" : "0.0.11",
  "plugin_attribution" : "official"
} ]
```

## Example Responses

**Status code: 200**

OK

```
[ {
  "plugin_name" : "test_multi_language",
  "display_name" : "",
  "data" : [ {
    "unique_id" : "2df0e830196247f8a10cd598b045fa8a",
    "plugin_name" : "test_multi_language",
    "version" : "0.0.11",
    "workspace_id" : "",
    "output_key" : "SYSTEM_METRICS_UNIQUE_KEY",
    "output_value" : "[{"group_name":"Chinese ","properties":{"key":"test","value":"111"},"desc": "Chinese "}]"]
  } ]
} ]
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class ShowPluginMetricsSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
```

```
        .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
        .build();
ShowPluginMetricsRequest request = new ShowPluginMetricsRequest();
List<PluginPartQueryDTO> listbodyBody = new ArrayList<>();
listbodyBody.add(
    new PluginPartQueryDTO()
        .withPluginName("test_multi_language")
        .withVersion("0.0.11")
        .withPluginAttribution("official")
);
request.withBody(listbodyBody);
try {
    ShowPluginMetricsResponse response = client.showPluginMetrics(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowPluginMetricsRequest()
        listBodybody = [
            PluginPartQueryDTO(
                plugin_name="test_multi_language",
                version="0.0.11",
                plugin_attribution="official"
            )
        ]
        request.body = listBodybody
        response = client.show_plugin_metrics(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPluginMetricsRequest{}
    var listBodybody = []model.PluginPartQueryDto{
        {
            PluginName: "test_multi_language",
            Version: "0.0.11",
            PluginAttribution: "official",
        },
    }
    request.Body = &listBodybody
    response, err := client.ShowPluginMetrics(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request

Status Code	Description
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.19 Query Extension Input Configuration

### Function

This API is used to query extension input configuration.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/plugin-input

**Table 4-366** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

### Request Parameters

**Table 4-367** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-368** Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of <a href="#">PluginPartQueryDTO</a> objects	Query request body.

**Table 4-369** PluginPartQueryDTO

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
version	Yes	String	Version number.
plugin_attri bution	Yes	String	Extension attribute: custom or official.
version_attri bution	No	String	Version attribute: draft or formal.

## Response Parameters

Status code: 200

**Table 4-370** Response body parameters

Parameter	Type	Description
[items]	Array of <a href="#">PluginPartQueryVOListAgentPluginInputVO</a> objects	OK

**Table 4-371** PluginPartQueryVOListAgentPluginInputVO

Parameter	Type	Description
plugin_name	String	Extension name.
display_name	String	Display name.
data	Array of <a href="#">data</a> objects	Result set.

**Table 4-372** data

Parameter	Type	Description
unique_id	String	Unique ID.
name	String	Name.
default_value	String	Default value.
plugin_name	String	Extension name.
version	String	Version.
type	String	Type.
workspace_id	String	Tenant ID.
validation	<b>ExtensionValidation</b> object	Verification.
layout_content	String	Style information.

**Table 4-373** ExtensionValidation

Parameter	Type	Description
required_message	String	Message.
regex	String	Regex.
regex_message	String	Regular expression message.
max_length	Integer	Maximum length.
min_length	Integer	Minimum length.

**Status code: 400****Table 4-374** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/plugin-input
```

```
[ {
  "plugin_name": "official_shell_plugin",
  "display_name": "Executing the Shell",
  "version": "0.0.2",
  "plugin_attribution": "official",
  "version_attribution": "format"
} ]
```

## Example Responses

**Status code: 200**

OK

```
[ {
  "plugin_name": "official_shell_plugin",
  "display_name": "Executing the Shell",
  "data": [ {
    "unique_id": "aac7e571b0d4462ba7962ce1735c4ec3",
    "name": "OFFICIAL_SHELL_SCRIPT_INPUT",
    "default_value": "",
    "plugin_name": "official_shell_plugin",
    "version": "0.0.2",
    "type": "shell",
    "workspace_id": "*",
    "layout_content": null,
    "front_data_prop": null,
    "label": "Shell Commands",
    "description": "The user enters the shell command here.",
    "required": "true",
    "extend_prop": {
      "api_options": null,
      "api_type": null,
      "options": null,
      "disabled_conditions": null,
      "visible_conditions": null
    },
    "validation": {
      "required_message": null,
      "regex": null,
      "regex_message": null,
      "max_length": null,
      "min_length": null
    }
  }
} ]
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

```
public class ShowPluginInputsSolution {
    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPluginInputsRequest request = new ShowPluginInputsRequest();
        List<PluginPartQueryDTO> listbodyBody = new ArrayList<>();
        listbodyBody.add(
            new PluginPartQueryDTO()
                .withPluginName("official_shell_plugin")
                .withDisplayName("Executing the Shell")
                .withVersion("0.0.2")
                .withPluginAttribution("official")
                .withVersionAttribution("formal")
        );
        request.withBody(listbodyBody);
        try {
            ShowPluginInputsResponse response = client.showPluginInputs(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsPipelineClient.new_builder() \
```



```
.with_credentials(credentials) \  
.with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
.build()  
  
try:  
  request = ShowPluginInputsRequest()  
  listBodybody = [  
    PluginPartQueryDTO(  
      plugin_name="official_shell_plugin",  
      display_name="Executing the Shell",  
      version="0.0.2",  
      plugin_attribution="official",  
      version_attribution="formal"  
    )  
  ]  
  request.body = listBodybody  
  response = client.show_plugin_inputs(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"  
  codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
  "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
  region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
  // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
  // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
  // variables and decrypted during use to ensure security.  
  // In this example, AK and SK are stored in environment variables for authentication. Before running this  
  // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
  ak := os.Getenv("CLOUD_SDK_AK")  
  sk := os.Getenv("CLOUD_SDK_SK")  
  
  auth := basic.NewCredentialsBuilder().  
    WithAk(ak).  
    WithSk(sk).  
    Build()  
  
  client := codeartspipeline.NewCodeArtsPipelineClient(  
    codeartspipeline.CodeArtsPipelineClientBuilder().  
      WithRegion(region.ValueOf("<YOUR REGION>")).  
      WithCredential(auth).  
      Build())  
  
  request := &model.ShowPluginInputsRequest{  
    versionAttributionBody:= "formal"  
  }  
  var listBodybody = []model.PluginPartQueryDto{  
    {  
      PluginName: "official_shell_plugin",  
      DisplayName: "Executing the Shell",  
      Version: "0.0.2",  
      PluginAttribution: "official",  
      VersionAttribution: &versionAttributionBody,  
    },  
  }  
  request.Body = &listBodybody  
  response, err := client.ShowPluginInputs(request)
```

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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.20 Query Extension Output Configuration

### Function

This API is used to query extension output configuration.

### Calling Method

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

### URI

POST /v1/{domain\_id}/agent-plugin/plugin-output

**Table 4-375** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-376** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-377** Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of <b>PluginPartQueryDTO</b> objects	Query request body.

**Table 4-378** PluginPartQueryDTO

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
version	Yes	String	Version number.
plugin_attribute	Yes	String	Extension attribute: custom or official.
version_attribute	No	String	Version attribute: draft or formal.

## Response Parameters

Status code: 200

**Table 4-379** Response body parameters

Parameter	Type	Description
[items]	Array of <a href="#">PluginPartQueryVOListAgentPluginOutputVO</a> objects	OK

**Table 4-380** PluginPartQueryVOListAgentPluginOutputVO

Parameter	Type	Description
plugin_name	String	Extension name.
display_name	String	Display name.
data	Array of <a href="#">data</a> objects	Result set.

**Table 4-381** data

Parameter	Type	Description
unique_id	String	Unique ID.
plugin_name	String	Extension name.
version	String	Version.
workspace_id	String	Tenant ID.
output_key	String	Name.
output_value	String	Value.

**Status code: 400****Table 4-382** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/plugin-output

[ {
  "plugin_name" : "official_shell_plugin",
  "display_name" : "",
  "plugin_attribution" : "official",
  "version_attribution" : "formal"
} ]
```

## Example Responses

**Status code: 200**

OK

```
[ {
  "plugin_name" : "official_shell_plugin",
  "display_name" : "",
  "data" : [ ]
} ]
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

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

public class ShowPluginOutputsSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPluginOutputsRequest request = new ShowPluginOutputsRequest();
        List<PluginPartQueryDTO> listbodyBody = new ArrayList<>();
        listbodyBody.add(
            new PluginPartQueryDTO()
                .withPluginName("official_shell_plugin")
        );
    }
}
```

```
        .withDisplayName("")
        .withPluginAttribution("official")
        .withVersionAttribution("formal")
    );
    request.withBody(listbodyBody);
    try {
        ShowPluginOutputsResponse response = client.showPluginOutputs(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowPluginOutputsRequest()
        listBodybody = [
            PluginPartQueryDTO(
                plugin_name="official_shell_plugin",
                display_name="",
                plugin_attribution="official",
                version_attribution="formal"
            )
        ]
        request.body = listBodybody
        response = client.show_plugin_outputs(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowPluginOutputsRequest{}
    versionAttributionBody := "formal"
    var listBodybody = []model.PluginPartQueryDto{
        {
            PluginName: "official_shell_plugin",
            DisplayName: "",
            PluginAttribution: "official",
            VersionAttribution: &versionAttributionBody,
        },
    }
    request.Body = &listBodybody
    response, err := client.ShowPluginOutputs(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request

Status Code	Description
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.21 Querying All Versions of an Extension

### Function

This API is used to query all versions of an extension.

### Calling Method

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

### URI

GET /v1/{domain\_id}/agent-plugin/query

**Table 4-383** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-384** Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
offset	Yes	String	Offset.
limit	Yes	String	Size.



## Request Parameters

**Table 4-385** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200****Table 4-386** Response body parameters

Parameter	Type	Description
offset	Integer	Offset.
limit	Integer	Size.
total	Integer	Total number.
data	Array of <b>PluginBasicVO</b> objects	Result set.

**Table 4-387** PluginBasicVO

Parameter	Type	Description
plugin_name	String	Extension name.
display_name	String	Display name.
version	String	Version.
version_description	String	Version description.
description	String	Description.
version_attribution	String	Version attribute.
unique_id	String	Unique ID.
op_user	String	Operator.

Parameter	Type	Description
op_time	String	Operation time.
plugin_composition_type	String	Combination type.
plugin_attri_bution	String	Attribute.
workspace_id	String	Tenant ID.
business_type	String	Service type.
business_type_display_name	String	Display name of service type.
maintainers	String	Maintenance engineer.
icon_url	String	Icon URL.
refer_count	Integer	Number of references.
usage_count	Integer	Number of usages.
runtime_attri_bution	String	Runtime attributes.
active	Integer	Activated or not.

**Status code: 400**

**Table 4-388** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/query?
plugin_name=fff&offset=0&limit=1
```

## Example Responses

**Status code: 200**

OK

```
{
  "offset" : 0,
  "limit" : 1,
```

```
"total" : 1,
"data" : [ {
  "plugin_name" : "fff",
  "display_name" : "hhjk",
  "version" : "0.0.1",
  "version_description" : "",
  "description" : "",
  "version_attribution" : "formal",
  "unique_id" : "d4d18039ac4248b68d38aca463a0c35a",
  "op_user" : "devcloud_devcloud_h00485561_01",
  "op_time" : "1699931374000",
  "plugin_composition_type" : "multi",
  "plugin_attribution" : "custom",
  "workspace_id" : "ce8df55870164338a72d7e828a966a2a",
  "business_type" : "Normal",
  "business_type_display_name" : "General",
  "maintainers" : "[\"847a5317086c41798469d0868535943a\"]",
  "icon_url" : "",
  "refer_count" : null,
  "usage_count" : null,
  "runtime_attribution" : "agent",
  "active" : 1
} ]
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ListPluginVersionSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPluginVersionRequest request = new ListPluginVersionRequest();
        request.withPluginName("<plugin_name>");
        request.withOffset("<offset>");
        request.withLimit("<limit>");
        try {
            ListPluginVersionResponse response = client.listPluginVersion(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListPluginVersionRequest()
        request.plugin_name = "<plugin_name>"
        request.offset = "<offset>"
        request.limit = "<limit>"
        response = client.list_plugin_version(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

```
variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListPLuginVersionRequest{}
request.PluginName = "<plugin_name>"
request.Offset = "<offset>"
request.Limit = "<limit>"
response, err := client.ListPLuginVersion(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.22 Querying Extension Version Details

### Function

This API is used to query extension version details.

## Calling Method

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

## URI

GET /v1/{domain\_id}/agent-plugin/detail

**Table 4-389** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-390** Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
version	No	String	Version.

## Request Parameters

**Table 4-391** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-392** Response body parameters

Parameter	Type	Description
plugin_name	String	Extension name.
display_name	String	Display name.
op_user	String	Operator.

Parameter	Type	Description
op_time	String	Operation time.
version	String	Version.
unique_id	String	Unique ID.
version_description	String	Version description.
version_attribute	String	Version attribute.
plugin_composition_type	String	Combination extension type.
plugin_attribute	String	Extension attribute.
input_info	Array of <a href="#">input_info</a> objects	Input information.
plugin_execution	Object	Execution information.
runtime_attribute	String	Runtime attributes.

**Table 4-393** input\_info

Parameter	Type	Description
unique_id	String	Unique ID.
name	String	Name.
default_value	String	Default value.
plugin_name	String	Extension name.
version	String	Version.
type	String	Type.
workspace_id	String	Tenant ID.
validation	<a href="#">ExtensionValidation</a> object	Verification.
layout_content	String	Style information.

**Table 4-394** ExtensionValidation

Parameter	Type	Description
required_message	String	Message.
regex	String	Regex.
regex_message	String	Regular expression message.
max_length	Integer	Maximum length.
min_length	Integer	Minimum length.

**Status code: 400****Table 4-395** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/detail?
plugin_name=apie_test&version=0.0.4
```

## Example Responses

**Status code: 200**

OK

```
{
  "plugin_name": "apie_test",
  "display_name": "apie_test222",
  "op_user": "devcloud_devcloud_h00485561_01",
  "op_time": "1699358542000",
  "version": "0.0.4",
  "unique_id": "036d51108a0b48eeb876fb6341ee7615",
  "version_description": "",
  "version_attribution": "formal",
  "plugin_composition_type": "multi",
  "plugin_attribution": "custom",
  "input_info": [ ],
  "plugin_execution": {
    "logic_id": "",
    "plugin_name": "apie_test",
    "version": "0.0.4",
    "basic_instance_id": "036d51108a0b48eeb876fb6341ee7615",
    "workspace_id": "ce8df55870164338a72d7e828a966a2a",
    "execution_type": "COMPOSITE",
    "steps": [ {
      "name": "Executing the Shell",
```



```
"task" : "official_shell_plugin",
"variables" : {
  "OFFICIAL_SHELL_SCRIPT_INPUT" : "env"
}
}]
},
"runtime_attribution" : "agent"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ShowPluginVersionSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowPluginVersionRequest request = new ShowPluginVersionRequest();
        request.withPluginName("<plugin_name>");
        request.withVersion("<version>");
        try {
            ShowPluginVersionResponse response = client.showPluginVersion(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowPluginVersionRequest()
        request.plugin_name = "<plugin_name>"
        request.version = "<version>"
        response = client.show_plugin_version(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.ShowPluginVersionRequest{}
request.PluginName = "<plugin_name>"
versionRequest:= "<version>"
request.Version = &versionRequest
response, err := client.ShowPluginVersion(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.23 Querying the Extension Version

### Function

This API is used to query the extension version.

### Calling Method

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

### URI

GET /v1/{domain\_id}/agent-plugin/all-version

**Table 4-396** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-397** Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
offset	Yes	String	Offset.
limit	Yes	String	Size.

## Request Parameters

**Table 4-398** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-399** Response body parameters

Parameter	Type	Description
offset	Integer	Offset.
limit	Integer	Size.
total	Integer	Total number.
data	Array of strings	Result set.

**Status code: 400**

**Table 4-400** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/agent-plugin/all-version?
plugin_name=apie_test&offset=0&limit=999
```

## Example Responses

**Status code: 200**

OK

```
[ "0.0.2", "0.0.1" ]
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ListPluginVersionNumberSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListPluginVersionNumberRequest request = new ListPluginVersionNumberRequest();
        request.withPluginName("<plugin_name>");
        request.withOffset("<offset>");
        request.withLimit("<limit>");
        try {
```

```
        ListPluginVersionNumberResponse response = client.listPluginVersionNumber(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListPluginVersionNumberRequest()
        request.plugin_name = "<plugin_name>"
        request.offset = "<offset>"
        request.limit = "<limit>"
        response = client.list_plugin_version_number(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

```
risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListPluginVersionNumberRequest{}
request.PluginName = "<plugin_name>"
request.Offset = "<offset>"
request.Limit = "<limit>"
response, err := client.ListPluginVersionNumber(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

### 4.7.24 Deleting a Publisher

#### Function

This API is used to delete a publisher.

## Calling Method

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

## URI

DELETE /v1/{domain\_id}/publisher/delete

**Table 4-401** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-402** Query Parameters

Parameter	Mandatory	Type	Description
publisher_unique_id	Yes	String	Publisher ID.

## Request Parameters

**Table 4-403** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 400**

**Table 4-404** Response body parameters

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



## Example Requests

```
DELETE https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/delete?
publisher_unique_id=3082805e42604ce8a10f0cbd7ca55462
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class DeletePublisherSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeletePublisherRequest request = new DeletePublisherRequest();
        request.withPublisherUniqueld("<publisher_unique_id>");
        try {
            DeletePublisherResponse response = client.deletePublisher(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = DeletePublisherRequest()  
        request.publisher_unique_id = "<publisher_unique_id>"  
        response = client.delete_publisher(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
WithCredential(auth).
Build()

request := &model.DeletePublisherRequest{}
request.PublisherUniqueId = "<publisher_unique_id>"
response, err := client.DeletePublisher(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.25 Querying Publisher Details

### Function

This API is used to query publisher details.

### Calling Method

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

### URI

POST /v1/{domain\_id}/publisher/detail

**Table 4-405** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-406** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-407** Request body parameters

Parameter	Mandatory	Type	Description
[items]	No	Array of strings	Publisher ID set.

## Response Parameters

Status code: 200

**Table 4-408** Response body parameters

Parameter	Type	Description
publisher_detail_map	Map<String, PublisherVO>	Publisher details.

**Table 4-409** PublisherVO

Parameter	Type	Description
publisher_unique_id	String	Publisher ID.
user_id	String	User ID.

Parameter	Type	Description
tenant_id	String	Tenant ID.
description	String	Description.
logo_url	String	Icon URL.
website	String	Web URL.
support_url	String	Address.
source_url	String	Address.
en_name	String	Name.
name	String	Name.
auth_status	String	Authorization status.
is_delete	Integer	Whether to delete.
last_update_u ser_name	String	Last updater.
last_update_u ser_id	String	Last updater ID.
last_update_ti me	String	Last update time.

**Status code: 400****Table 4-410** Response body parameters

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

**Example Requests**

```
POST https://{endpoint}/v1/ce8df55870164338a72d7e828a966a2a/publisher/detail  
[ "b9fc8fb6d9194536ac66dd74c2212126" ]
```

**Example Responses****Status code: 200**

OK

```
{  
  "b9fc8fb6d9194536ac66dd74c2212126" : {  
    "publisher_unique_id" : "b9fc8fb6d9194536ac66dd74c2212126",
```



**Table 4-411** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-412** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-413** Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Unique ID.
icon_url	No	String	Icon URL.
runtime_attri bution	No	String	Runtime attributes.
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
business_type	Yes	String	Service type.
business_type _display_nam e	Yes	String	Display name of service type.
description	No	String	Description.
is_private	No	Integer	Private or not.
region	No	String	Region.
maintainers	No	String	Maintenance engineer.
plugin_compo sition_type	No	String	Combination extension type.

## Response Parameters

**Status code: 400**

**Table 4-414** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/info/add
{
  "plugin_name" : "basic_plugin",
  "display_name" : "basic_plugin",
  "business_type" : "Normal",
  "description" : "",
  "maintainers" : "",
  "business_type_display_name" : "General",
  "icon_url" : "",
  "plugin_composition_type" : "single"
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class CreateBasicPluginSolution {

    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);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();

CreateBasicPluginRequest request = new CreateBasicPluginRequest();
PluginBasicDTO body = new PluginBasicDTO();
body.withPluginCompositionType("single");
body.withMaintainers("");
body.withDescription("");
body.withBusinessTypeDisplayName("General");
body.withBusinessType("Normal");
body.withDisplayName("basic_plugin");
body.withPluginName("basic_plugin");
body.withIconUrl("");
request.withBody(body);
try {
    CreateBasicPluginResponse response = client.createBasicPlugin(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreateBasicPluginRequest()
        request.body = PluginBasicDTO(
            plugin_composition_type="single",
```

```
        maintainers="",
        description="",
        business_type_display_name="General",
        business_type="Normal",
        display_name="basic_plugin",
        plugin_name="basic_plugin",
        icon_url=""
    )
    response = client.create_basic_plugin(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateBasicPluginRequest{
        pluginCompositionTypePluginBasicDto:= "single"
        maintainersPluginBasicDto:= ""
        descriptionPluginBasicDto:= ""
        iconUrlPluginBasicDto:= ""
        request.Body = &model.PluginBasicDto{
            PluginCompositionType: &pluginCompositionTypePluginBasicDto,
            Maintainers: &maintainersPluginBasicDto,
            Description: &descriptionPluginBasicDto,
            BusinessTypeDisplayName: "General",
            BusinessType: "Normal",
            DisplayName: "basic_plugin",
            PluginName: "basic_plugin",
            IconUrl: &iconUrlPluginBasicDto,
        }
    }
    response, err := client.CreateBasicPlugin(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

```
}  
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.27 Updating a Basic Extension

### Function

This API is used to update a basic extension.

### Calling Method

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

### URI

POST /v3/{domain\_id}/extension/info/update

**Table 4-415** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

## Request Parameters

**Table 4-416** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-417** Request body parameters

Parameter	Mandatory	Type	Description
unique_id	No	String	Unique ID.
icon_url	No	String	Icon URL.
runtime_attri bution	No	String	Runtime attributes.
plugin_name	Yes	String	Extension name.
display_name	Yes	String	Display name.
business_type	Yes	String	Service type.
business_type _display_nam e	Yes	String	Display name of service type.
description	No	String	Description.
is_private	No	Integer	Private or not.
region	No	String	Region.
maintainers	No	String	Maintenance engineer.
plugin_compo sition_type	No	String	Combination extension type.

## Response Parameters

**Status code: 400**

**Table 4-418** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/info/update
```

```
{
  "plugin_name" : "basic_plugin",
  "display_name" : "basic_plugin",
  "business_type" : "Normal",
  "description" : "",
  "maintainers" : "",
  "business_type_display_name" : "General",
  "icon_url" : ""
}
```

## Example Responses

**Status code: 200**

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class UpdateBasicPluginSolution {

    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);
```

```
CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
UpdateBasicPluginRequest request = new UpdateBasicPluginRequest();
PluginBasicDTO body = new PluginBasicDTO();
body.withMaintainers("");
body.withDescription("");
body.withBusinessTypeDisplayName("General");
body.withBusinessType("Normal");
body.withDisplayName("basic_plugin");
body.withPluginName("basic_plugin");
body.withIconUrl("");
request.withBody(body);
try {
    UpdateBasicPluginResponse response = client.updateBasicPlugin(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateBasicPluginRequest()
        request.body = PluginBasicDTO(
            maintainers="",
            description="",
            business_type_display_name="General",
            business_type="Normal",
            display_name="basic_plugin",
            plugin_name="basic_plugin",
            icon_url=""
        )
        response = client.update_basic_plugin(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateBasicPluginRequest{
        maintainersPluginBasicDto:= ""
        descriptionPluginBasicDto:= ""
        iconUrlPluginBasicDto:= ""
        request.Body = &model.PluginBasicDto{
            Maintainers: &maintainersPluginBasicDto,
            Description: &descriptionPluginBasicDto,
            BusinessTypeDisplayName: "General",
            BusinessType: "Normal",
            DisplayName: "basic_plugin",
            PluginName: "basic_plugin",
            IconUrl: &iconUrlPluginBasicDto,
        }
    }
    response, err := client.UpdateBasicPlugin(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.28 Deleting a Basic Extension

### Function

This API is used to delete a basic extension.

### Calling Method

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

### URI

DELETE /v3/{domain\_id}/extension/info/delete

**Table 4-419** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-420** Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Name of the extension to be deleted.



Parameter	Mandatory	Type	Description
type	Yes	String	Deletion type. <b>all</b> indicates that the entire extension will be deleted, and <b>single</b> indicates that a single extension version will be deleted.
version	No	String	Version of the extension to be deleted.

## Request Parameters

Table 4-421 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 400

Table 4-422 Response body parameters

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

## Example Requests

```
DELETE https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/info/delete?
plugin_name=qwer&type=all
```

## Example Responses

Status code: 200

OK

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class DeleteBasicPluginSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteBasicPluginRequest request = new DeleteBasicPluginRequest();
        request.withPluginName("<plugin_name>");
        request.withType("<type>");
        request.withVersion("<version>");
        try {
            DeleteBasicPluginResponse response = client.deleteBasicPlugin(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *
```

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteBasicPluginRequest()
        request.plugin_name = "<plugin_name>"
        request.type = "<type>"
        request.version = "<version>"
        response = client.delete_basic_plugin(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteBasicPluginRequest{}
    request.PluginName = "<plugin_name>"
    request.Type = "<type>"
    versionRequest := "<version>"
    request.Version = &versionRequest
    response, err := client.DeleteBasicPlugin(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    }
}
```

```
} else {  
    fmt.Println(err)  
}  
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.29 Uploading a Basic Extension

### Function

This API is used to upload a basic extension.

### Calling Method

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

### URI

POST /v3/{domain\_id}/extension/upload

**Table 4-423** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.

**Table 4-424** Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
business_type	Yes	String	Service type.

## Request Parameters

**Table 4-425** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-426** FormData parameters

Parameter	Mandatory	Type	Description
upload_file	Yes	File	Extension file.

## Response Parameters

Status code: 400

**Table 4-427** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/upload?
plugin_name=test_basic&business_type=Normal
```

## Example Responses

Status code: 200

Whether the calling is successful.

```
true
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class UploadBasicPluginSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        UploadBasicPluginRequest request = new UploadBasicPluginRequest();
        request.withPluginName("<plugin_name>");
        request.withBusinessType("<business_type>");
        try {
            UploadBasicPluginResponse response = client.uploadBasicPlugin(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UploadBasicPluginRequest()
        request.plugin_name = "<plugin_name>"
        request.business_type = "<business_type>"
        response = client.upload_basic_plugin(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UploadBasicPluginRequest{}
    request.PluginName = "<plugin_name>"
    request.BusinessType = "<business_type>"
    response, err := client.UploadBasicPlugin(request)
    if err == nil {
```

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

## More

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

## Status Codes

Status Code	Description
200	Whether the calling is successful.
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.7.30 Querying the Basic Extension Details

### Function

This API is used to query the basic extension details.

### Calling Method

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

### URI

GET /v3/{domain\_id}/extension/detail

**Table 4-428** Path Parameters

Parameter	Mandatory	Type	Description
domain_id	Yes	String	Tenant ID.



**Table 4-429** Query Parameters

Parameter	Mandatory	Type	Description
plugin_name	Yes	String	Extension name.
version	Yes	String	Version.

## Request Parameters

**Table 4-430** 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 <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-431** Response body parameters

Parameter	Type	Description
type	String	Type.
name	String	Name.
friendly_name	String	Display name.
category	String	Service type.
description	String	Description.
version	String	Version.
version_description	String	Version description.
inputs	Array of <b>inputs</b> objects	Input information.
outputs	Array of <b>outputs</b> objects	Output information.

Parameter	Type	Description
execution	<a href="#">execution</a> object	Execution information.

**Table 4-432** inputs

Parameter	Type	Description
name	String	Name.
type	String	Type.
label	String	Label.
description	String	Description.
default_value	String	Default value.
required	Boolean	This parameter is mandatory.
extend_prop	<a href="#">ExtensionExtendProp</a> object	Extended attribute.
validation	<a href="#">ExtensionValidation</a> object	Verification.

**Table 4-433** ExtensionExtendProp

Parameter	Type	Description
api_options	String	API option.
api_type	String	API type.
options	String	Option.
disabled_conditions	String	Disabling condition.
visible_conditions	String	Visibility condition.

**Table 4-434** ExtensionValidation

Parameter	Type	Description
required_message	String	Message.

Parameter	Type	Description
regex	String	Regex.
regex_message	String	Regular expression message.
max_length	Integer	Maximum length.
min_length	Integer	Minimum length.

**Table 4-435** outputs

Parameter	Type	Description
name	String	Name.
type	String	Type.
description	String	Description.

**Table 4-436** execution

Parameter	Type	Description
target	String	Entry.
type	String	Type.
sha256	String	sha256

**Status code: 400****Table 4-437** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/ce8df55870164338a72d7e828a966a2a/extension/detail?plugin_name=basic-CTS&version=2.3.5
```

## Example Responses

**Status code: 200**

OK

```
{
  "type": "Task",
  "name": "basic-CTS",
  "category": "Test",
  "description": "",
  "version": "2.3.5",
  "inputs": [ {
    "name": "SHELL_PLUGIN",
    "type": "input",
    "label": "Single-line Text Box",
    "description": "Sample String",
    "required": true,
    "validation": {
      "required_message": null,
      "regex": null,
      "regex_message": null,
      "max_length": null,
      "min_length": null
    },
    "default_value": "",
    "extend_prop": {
      "api_options": null,
      "api_type": null,
      "options": null,
      "disabled_conditions": null,
      "visible_conditions": null
    }
  } ],
  "outputs": [ {
    "name": "problem",
    "type": "output",
    "description": "Number of recorded problems"
  } ],
  "execution": {
    "type": "scripts/test.sh",
    "target": "Shell",
    "sha256": "4fa52dab3fb72847e4da5f00295a96fce8892f301d384efe9b776aa1731ba8f0"
  },
  "friendly_name": "Basic plug-in - CTS2",
  "version_description": "Running Shell Commands"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ShowBasicPluginSolution {

    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);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ShowBasicPluginRequest request = new ShowBasicPluginRequest();
request.withPluginName("<plugin_name>");
request.withVersion("<version>");
try {
    ShowBasicPluginResponse response = client.showBasicPlugin(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowBasicPluginRequest()
        request.plugin_name = "<plugin_name>"
        request.version = "<version>"
        response = client.show_basic_plugin(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowBasicPluginRequest{}
    request.PluginName = "<plugin_name>"
    request.Version = "<version>"
    response, err := client.ShowBasicPlugin(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

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

Status Code	Description
404	Not Found

## Error Codes

See [Error Codes](#).

# 4.8 Template Management (Old Version, Unavailable Soon)

## 4.8.1 Querying Template List

### Function

This API is used to query the template list. Pagination query is supported. Fuzzy query by template name is supported.

### Calling Method

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

### URI

GET /v3/templates

**Table 4-438** Query Parameters

Parameter	Mandatory	Type	Description
template_type	Yes	String	Template type.
is_build_in	Yes	String	Whether the template is a built-in template or not.
offset	No	Integer	Offset, which is the position where the query starts. The value must be no less than 0.
limit	No	Integer	Number of records displayed on each page.
name	No	String	Template name, which is fuzzily matched.
sort	No	String	Sorting field.

Parameter	Mandatory	Type	Description
asc	No	String	Whether the sequence is in ascending order.

## Request Parameters

**Table 4-439** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-440** Response body parameters

Parameter	Type	Description
total	Integer	Total number.
page_number	Integer	Page number.
page_size	Integer	Number of records displayed on each page.
content	Array of <a href="#">TemplateView</a> objects	Template data, which is a value of list type.

**Table 4-441** TemplateView

Parameter	Type	Description
template_id	String	Template ID.
template_name	String	Template name.
template_type	String	Template type.
template_url	String	Template editing URL.



Parameter	Type	Description
user_id	String	User ID.
user_name	String	User name.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
is_build_in	Boolean	Whether the template is a built-in template or not.
region	String	The region of the system template is Cloud Pipeline. The region of the custom template is the actual region.
project_id	String	Project ID.
project_name	String	Project name.
create_time	String	Creation time.
last_modify_time	String	Modification time.
is_watch	Boolean	Whether to follow.
description	String	Template description.
parameter	Array of <a href="#">TemplateParam</a> objects	Template parameter.
flow	Map<String,Map<String,String>>	Flow orchestration details, which describe the serial and parallel relationships of jobs in each stage of a pipeline. A <b>Map</b> type value, key indicates the stage name. By default, the first stage is <b>initial</b> , the last stage is <b>final</b> , and other stages are identified by <b>state_digit</b> . The value is the ID of the task (identified by <b>Task_digit</b> ) in the stage and the ID of the subsequent stage. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.
states	Map<String,TemplateState>	State orchestration details. It is a <b>Map</b> type value. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.
can_update	Boolean	Whether it can be modified.
can_delete	Boolean	Whether it can be deleted.
need_hub	Boolean	Whether a code repository is required.

**Table 4-442** TemplateParam

Parameter	Type	Description
required	String	Whether the parameter is mandatory.
visible	String	Whether the parameter is visible.
name	String	Pipeline parameter name.
value	String	Pipeline parameter value.
description	String	Pipeline parameter description.
paramtype	String	Pipeline parameter type.
display_type	String	Pipeline parameter display type.
display_name	String	Pipeline parameter display name.
is_static	Boolean	Whether it is a static parameter.
is_default	Boolean	Whether it is a default parameter.
limits	Array of <a href="#">ParamTypeLimits</a> objects	Data of the <b>Array</b> type.
constraints	Array of <a href="#">Constraint</a> objects	Data of the <b>Array</b> type.

**Table 4-443** ParamTypeLimits

Parameter	Type	Description
disable	String	Whether it is discarded.
name	String	Language name.
displayname	String	Language display name.
id	String	Policy ID.
language	String	Scanning language.

**Table 4-444** Constraint

Parameter	Type	Description
type	String	Verification rule type.

Parameter	Type	Description
value	String	Verification rule.
errmsg	String	Verification failure description.

**Table 4-445** TemplateState

Parameter	Type	Description
type	String	Job type.
name	String	Job name.
module_or_template_id	String	Template job ID.
module_or_template_name	String	Template job name.
display_name	String	Job name displayed on the pipeline page.
dsl_method	String	Types of jobs that can be mounted to a pipeline.
parameters	Map<String,Object>	Job parameter, which is a value of map type.
is_manual_execution	Boolean	Whether to manually execute the job.
job_parameter_validate	Boolean	Whether to verify job parameters.
is_show_codehub_url	Boolean	Whether to display the code repository URL.
is_execute	Boolean	Whether to execute
job_id	String	ID of the executed job.
job_name	String	Name of the executed job.
project_id	String	ID of the project to which the job belongs.
execution_mode	String	This parameter controls the execution mode of jobs in a stage. If <b>type</b> is <b>task</b> , the value of <b>execution_mode</b> is null. If <b>type</b> is <b>stage</b> , the value of <b>execution_mode</b> can be <b>parallel</b> or <b>serial</b> .

**Status code: 400**

**Table 4-446** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/templates?template_type=pipeline&is_build_in=false&offset=0&limit=10
```

## Example Responses

None

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ListTemplatesSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ListTemplatesRequest request = new ListTemplatesRequest();
        request.withTemplateType("<template_type>");
        request.withIsBuildIn("<is_build_in>");
        request.withOffset("<offset>");
        request.withLimit("<limit>");
        request.withName("<name>");
        request.withSort("<sort>");
        request.withAsc("<asc>");
        try {
            ListTemplatesResponse response = client.listTemplates(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListTemplatesRequest()
        request.template_type = "<template_type>"
        request.is_build_in = "<is_build_in>"
        request.offset = <offset>
        request.limit = <limit>
        request.name = "<name>"
        request.sort = "<sort>"
        request.asc = "<asc>"
        response = client.list_templates(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)
```

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListTemplatesRequest{}
    request.TemplateType = "<template_type>"
    request.IsBuildIn = "<is_build_in>"
    offsetRequest := int32(<offset>)
    request.Offset = &offsetRequest
    limitRequest := int32(<limit>)
    request.Limit = &limitRequest
    nameRequest := "<name>"
    request.Name = &nameRequest
    sortRequest := "<sort>"
    request.Sort = &sortRequest
    ascRequest := "<asc>"
    request.Asc = &ascRequest
    response, err := client.ListTemplates(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.8.2 Querying Template Details

### Function

This API is used to query template details.

### Calling Method

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

### URI

GET /v3/templates/{template\_id}

**Table 4-447** Path Parameters

Parameter	Mandatory	Type	Description
template_id	Yes	String	Template ID.

**Table 4-448** Query Parameters

Parameter	Mandatory	Type	Description
template_type	Yes	String	Template type.
source	No	String	API callers.

### Request Parameters

**Table 4-449** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token.

### Response Parameters

**Status code: 200**

**Table 4-450** Response body parameters

Parameter	Type	Description
template_id	String	Template ID.
template_name	String	Template name.
template_type	String	Template type.
user_id	String	User ID.
user_name	String	User name.
domain_id	String	Tenant ID.
domain_name	String	Tenant name.
is_build_in	Boolean	Whether the template is a built-in template or not.
region	String	region
project_id	String	Project ID.
project_name	String	Project name.
create_time	String	Creation time.
last_modify_time	String	Modification time.
is_watch	Boolean	Whether it is followed.
description	String	Template description.
parameter	Array of <a href="#">TemplateParameter</a> objects	Template parameter.
flow	Map<String,Map<String,String>>	Flow orchestration details, which describe the serial and parallel relationships of jobs in each stage of a pipeline. A <b>Map</b> type value, key indicates the stage name. By default, the first stage is <b>initial</b> , the last stage is <b>final</b> , and other stages are identified by <b>state_digit</b> . The value is the ID of the task (identified by <b>Task_digit</b> ) in the stage and the ID of the subsequent stage. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.



Parameter	Type	Description
states	Map<String, <a href="#">TemplateState</a> >	State orchestration details. It is a <b>Map</b> type value. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.

**Table 4-451** TemplateParam

Parameter	Type	Description
required	String	Whether the parameter is mandatory.
visible	String	Whether the parameter is visible.
name	String	Pipeline parameter name.
value	String	Pipeline parameter value.
description	String	Pipeline parameter description.
paramtype	String	Pipeline parameter type.
display_type	String	Pipeline parameter display type.
display_name	String	Pipeline parameter display name.
is_static	Boolean	Whether it is a static parameter.
is_default	Boolean	Whether it is a default parameter.
limits	Array of <a href="#">ParamTypeLimits</a> objects	Data of the <b>Array</b> type.
constraints	Array of <a href="#">Constraint</a> objects	Data of the <b>Array</b> type.

**Table 4-452** ParamTypeLimits

Parameter	Type	Description
disable	String	Whether it is discarded.
name	String	Language name.
displayname	String	Language display name.
id	String	Policy ID.
language	String	Scanning language.

**Table 4-453** Constraint

Parameter	Type	Description
type	String	Verification rule type.
value	String	Verification rule.
errormsg	String	Verification failure description.

**Table 4-454** TemplateState

Parameter	Type	Description
type	String	Job type.
name	String	Job name.
module_or_template_id	String	Template job ID.
module_or_template_name	String	Template job name.
display_name	String	Job name displayed on the pipeline page.
dsl_method	String	Types of jobs that can be mounted to a pipeline.
parameters	Map<String,Object>	Job parameter, which is a value of map type.
is_manual_execution	Boolean	Whether to manually execute the job.
job_parameter_validate	Boolean	Whether to verify job parameters.
is_show_codehub_url	Boolean	Whether to display the code repository URL.
is_execute	Boolean	Whether to execute
job_id	String	ID of the executed job.
job_name	String	Name of the executed job.
project_id	String	ID of the project to which the job belongs.
execution_mode	String	This parameter controls the execution mode of jobs in a stage. If <b>type</b> is <b>task</b> , the value of <b>execution_mode</b> is null. If <b>type</b> is <b>stage</b> , the value of <b>execution_mode</b> can be <b>parallel</b> or <b>serial</b> .

**Status code: 400**

**Table 4-455** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/templates/6efb0b24e2e9489eb0e53ee12904a19e?template_type=deployMan
```

## Example Responses

None

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class ShowTemplateDetailSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowTemplateDetailRequest request = new ShowTemplateDetailRequest();
        request.withTemplateType("<template_type>");
        request.withSource("<source>");
        try {
            ShowTemplateDetailResponse response = client.showTemplateDetail(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowTemplateDetailRequest()
        request.template_type = "<template_type>"
        request.source = "<source>"
        response = client.show_template_detail(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

```
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowTemplateDetailRequest{}
request.TemplateType = "<template_type>"
sourceRequest := "<source>"
request.Source = &sourceRequest
response, err := client.ShowTemplateDetail(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.9 Pipeline Management (Old Version, Unavailable Soon)

## 4.9.1 Quickly Creating a Pipeline and Jobs with a Template

### Function

This API is used to quickly create a pipeline and jobs with a template.

### Calling Method

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

### URI

POST /v3/templates/task

### Request Parameters

Table 4-456 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token.

Table 4-457 Request body parameters

Parameter	Mandatory	Type	Description
flow	Yes	Map<String,Map<String,String>>	Flow orchestration details, which describe the serial and parallel relationships of jobs in each stage of a pipeline. A <b>Map</b> type value, key indicates the stage name. By default, the first stage is <b>initial</b> , the last stage is <b>final</b> , and other stages are identified by <b>state_digit</b> . The value is the ID of the task (identified by <b>Task_digit</b> ) in the stage and the ID of the subsequent stage. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.

Parameter	Mandatory	Type	Description
states	Yes	Map<String,TemplateState>	State orchestration details. It is a <b>Map</b> type value. This field is one of the basic orchestration data of a pipeline. It is advised to obtain the value from the template-based creation API on the pipeline web UI.
workflow	Yes	Workflow object	Parameter details.

**Table 4-458** TemplateState

Parameter	Mandatory	Type	Description
type	Yes	String	Job type.
name	Yes	String	Job name.
module_or_template_id	Yes	String	Template job ID.
module_or_template_name	Yes	String	Template job name.
display_name	Yes	String	Job name displayed on the pipeline page.
dsl_method	Yes	String	Types of jobs that can be mounted to a pipeline.
parameters	Yes	Map<String,Object>	Job parameter, which is a value of map type.
is_manual_execution	Yes	Boolean	Whether to manually execute the job.
job_parameter_validate	Yes	Boolean	Whether to verify job parameters.
is_show_codehub_url	Yes	Boolean	Whether to display the code repository URL.
is_execute	Yes	Boolean	Whether to execute
job_id	Yes	String	ID of the executed job.
job_name	Yes	String	Name of the executed job.
project_id	Yes	String	ID of the project to which the job belongs.

Parameter	Mandatory	Type	Description
execution_mode	Yes	String	This parameter controls the execution mode of jobs in a stage. If <b>type</b> is <b>task</b> , the value of <b>execution_mode</b> is null. If <b>type</b> is <b>stage</b> , the value of <b>execution_mode</b> can be <b>parallel</b> or <b>serial</b> .

**Table 4-459** Workflow

Parameter	Mandatory	Type	Description
parameter	Yes	Array of <b>PipelineParam</b> objects	Job type, which is a value of list type.
source	Yes	Array of <b>Source</b> objects	Source code repository, which is a value of list type.
name	Yes	String	Pipeline name.
project_id	Yes	String	Project ID.
project_name	Yes	String	Project name.

**Table 4-460** PipelineParam

Parameter	Mandatory	Type	Description
name	Yes	String	Pipeline parameter name.
value	Yes	String	Pipeline parameter value.
description	Yes	String	Pipeline parameter description.
param_type	Yes	String	Pipeline parameter type.
is_static	Yes	Boolean	Whether it is a static parameter.
is_default	Yes	Boolean	Whether it is a default parameter.



**Table 4-461** Source

Parameter	Mandatory	Type	Description
codehub_name	Yes	String	Source code repository name.
branches	Yes	Array of strings	Triggered branch
scm_type	Yes	String	Source code repository type.
hook_flag	Yes	Boolean	Whether to enable the function of triggering pipeline execution.
branch	Yes	String	Triggered branch.
git_url	Yes	String	SSH address of the source code repository.
codehub_id	Yes	String	Source code repository ID.
web_url	Yes	String	URL of the source code repository homepage.
branch_list	Yes	Array of strings	Branch list.
init_id	Yes	String	Initialization ID.
disable	Yes	Boolean	Whether to discard

## Response Parameters

**Status code: 200**

**Table 4-462** Response body parameters

Parameter	Type	Description
task_id	String	Instance ID.

**Status code: 400**

**Table 4-463** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/templates/task
{
  "flow" : {
    "initial" : {
      "state_3" : "always"
    },
    "state_3" : {
      "state_4" : "always"
    },
    "state_4" : {
      "state_5" : "always",
      "Task_1" : "always",
      "Task_2" : "always"
    },
    "state_5" : {
      "final" : "always"
    }
  },
  "states" : {
    "initial" : {
      "type" : "stage",
      "name" : "initial",
      "module_or_template_id" : null,
      "module_or_template_name" : null,
      "display_name" : "Initial",
      "dsl_method" : "initial",
      "parameters" : {
        "display" : "hidden"
      },
      "params" : null,
      "is_manual_mexecution" : false,
      "execution_mode" : "parallel"
    },
    "state_3" : {
      "type" : "stage",
      "name" : "state_3",
      "module_or_template_id" : null,
      "module_or_template_name" : null,
      "display_name" : "Source",
      "dsl_method" : "source",
      "parameters" : null,
      "params" : null,
      "is_manual_execution" : false,
      "execution_mode" : "parallel"
    },
    "Task_1" : {
      "type" : "task",
      "name" : "Task_1",
      "module_or_template_id" : "00012",
      "module_or_template_name" : "Maven",
      "display_name" : "Build_Task",
      "dsl_method" : "buildJob",
      "parameters" : {
        "__repository__" : {
          "repo_name" : "fdfd",
          "url" : "git@example.com:CloudPipelineTest-Copy00001/fdfdfdf.git"
        }
      },
      "params" : null,
      "is_manual_execution" : false,
      "execution_mode" : null,
      "job_parameter_validate" : true,
      "is_show_code_hub_url" : false,
      "is_execute" : true,
      "job_id" : "00012",
      "job_name" : "Maven",
      "project_id" : "4719b59466624abfbae0f83c3ce3a0dc"
    }
  }
}
```

```
},
"Task_2" : {
  "type" : "task",
  "name" : "Task_2",
  "module_or_template_id" : "d7dffaefb6d94c63a09cf141668356c7",
  "module_or_template_name" : "codecheck_template",
  "display_name" : "Code_Check_Task",
  "dsl_method" : "codeCheck",
  "parameters" : {
    "language" : {
      "disable" : null,
      "name" : "Java",
      "display_name" : "Java",
      "id" : "782aade71ffb4ab780303555eb2e4825",
      "language" : "java"
    },
    "codeBranch" : "master",
    "_repository_" : {
      "repo_name" : "fdfdfd",
      "url" : "git@example.com:CloudPipelineTest-Copy00001/fdfdfd.git"
    }
  },
  "params" : null,
  "is_manual_execution" : false,
  "execution_mode" : null,
  "job_parameter_validate" : true,
  "is_show_code_hub_url" : false,
  "is_execute" : true,
  "job_id" : "d7dffaefb6d94c63a09cf141668356c7",
  "job_name" : "codecheck_template",
  "project_id" : "4719b59466624abfbae0f83c3ce3a0dc"
},
"state_4" : {
  "type" : "stage",
  "name" : "state_4",
  "module_or_template_id" : null,
  "module_or_template_name" : null,
  "display_name" : "Build_and_Check",
  "dsl_method" : "build",
  "parameters" : null,
  "params" : null,
  "is_manual_execution" : false,
  "execution_mode" : "parallel"
},
"state_5" : {
  "type" : "stage",
  "name" : "state_5",
  "module_or_template_id" : null,
  "module_or_template_name" : null,
  "display_name" : "Release",
  "dsl_method" : "release",
  "parameters" : null,
  "params" : null,
  "is_manual_execution" : false,
  "execution_mode" : "parallel"
},
"final" : {
  "type" : "stage",
  "name" : "final",
  "module_or_template_id" : null,
  "module_or_template_name" : null,
  "display_name" : "Final",
  "dsl_method" : "final",
  "parameters" : null,
  "params" : null,
  "is_manual_execution" : false,
  "execution_mode" : "parallel"
}
}
```

```
"workflow" : {
  "parameter" : [ {
    "name" : "serviceName",
    "value" : "pipeline-20201229165622",
    "description" : "this is a text type param",
    "paramtype" : "normalparam",
    "display_name" : null,
    "isStatic" : true,
    "isDefault" : true,
    "constraints" : null
  }, {
    "name" : "releaseVersion",
    "value" : "1.0.0",
    "description" : "this is a growth type param",
    "paramtype" : "growthparam",
    "display_name" : null,
    "isStatic" : false,
    "isDefault" : true,
    "constraints" : null
  } ],
  "source" : [ {
    "scmType" : "codehub",
    "codeHubName" : "fdfd",
    "hookFlag" : false,
    "branches" : [ ],
    "defaultBranch" : "master",
    "branch" : "",
    "codeHubId" : "5224040",
    "gitUrl" : "git@example.com:CloudPipelineTest-Copy00001/fdfdf.git",
    "webUrl" : "https://example.com/codehub/project/bc97c4d99c7d4f98bb6cd104a77fddd6/codehub/140000127/home",
    "branchList" : [ "master" ]
  } ],
  "name" : "pipeline-123123",
  "description" : "",
  "project_id" : "bc97c4d99c7d4f98bb6cd104a77fddd6",
  "project_name" : "CloudPipelineTest-Copy"
},
"changeInfo" : null
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "task_id" : "eafaff0bf9094d3d8456d13ddf67b40"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

```
import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;

public class CreatePipelineByTemplateSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        CreatePipelineByTemplateRequest request = new CreatePipelineByTemplateRequest();
        TemplateCddl body = new TemplateCddl();
        List<Source> listWorkflowSource = new ArrayList<>();
        listWorkflowSource.add(
            new Source()
                .withBranches()
                .withBranch("")
        );
        List<PipelineParam> listWorkflowParameter = new ArrayList<>();
        listWorkflowParameter.add(
            new PipelineParam()
                .withName("serviceName")
                .withValue("pipeline-20201229165622")
                .withDescription("this is a text type param")
        );
        listWorkflowParameter.add(
            new PipelineParam()
                .withName("releaseVersion")
                .withValue("1.0.0")
                .withDescription("this is a growth type param")
        );
        Workflow workflowbody = new Workflow();
        workflowbody.withParameter(listWorkflowParameter)
            .withSource(listWorkflowSource)
            .withName("pipeline-123123")
            .withProjectId("bc97c4d99c7d4f98bb6cd104a77fddd6")
            .withProjectName("CloudPipelineTest-Copy");
        TemplateState statesStates = new TemplateState();
        statesStates.withType("stage")
            .withName("final")
            .withDisplayName("Final")
            .withDslMethod("final")
            .withExecutionMode("parallel");
        TemplateState statesStates1 = new TemplateState();
        statesStates1.withType("stage")
            .withName("state_5")
            .withDisplayName("Release")
            .withDslMethod("release")
            .withExecutionMode("parallel");
        TemplateState statesStates2 = new TemplateState();
        statesStates2.withType("stage")
            .withName("state_4")
            .withDisplayName("Build_and_Check")
            .withDslMethod("build")
    }
}
```

```
.withExecutionMode("parallel");
Map<String, Object> listStatesParameters = new HashMap<>();
listStatesParameters.put("language", "{\n  \"name\": \"Java\",\n  \"language\": \"java\",\n  \"id\n\n\": \"782aade71ffb4ab780303555eb2e4825\",\n  \"display_name\": \"Java\"}");
listStatesParameters.put("codeBranch", "master");
listStatesParameters.put("__repository__", "{\n  \"repo_name\": \"fdfd\fd\fd\", \"url\n\n\": \"git@example.com:CloudPipelineTest-Copy00001/fdfdfdf.git\"}");
TemplateState statesStates3 = new TemplateState();
statesStates3.withType("task")
  .withName("Task_2")
  .withModuleOrTemplateId("d7dffaefb6d94c63a09cf141668356c7")
  .withModuleOrTemplateName("codecheck_template")
  .withDisplayName("Code_Check_Task")
  .withDslMethod("codeCheck")
  .withParameters(listStatesParameters)
  .withIsManualExecution(false)
  .withIsExecute(true)
  .withJobId("d7dffaefb6d94c63a09cf141668356c7")
  .withJobName("codecheck_template")
  .withProjectId("4719b59466624abfbae0f83c3ce3a0dc");
Map<String, Object> listStatesParameters1 = new HashMap<>();
listStatesParameters1.put("__repository__", "{\n  \"repo_name\": \"fdfd\fd\fd\", \"url\n\n\": \"git@example.com:CloudPipelineTest-Copy00001/fdfdfdf.git\"}");
TemplateState statesStates4 = new TemplateState();
statesStates4.withType("task")
  .withName("Task_1")
  .withModuleOrTemplateId("00012")
  .withModuleOrTemplateName("Maven")
  .withDisplayName("Build_Task")
  .withDslMethod("buildJob")
  .withParameters(listStatesParameters1)
  .withIsManualExecution(false)
  .withIsExecute(true)
  .withJobId("00012")
  .withJobName("Maven")
  .withProjectId("4719b59466624abfbae0f83c3ce3a0dc");
TemplateState statesStates5 = new TemplateState();
statesStates5.withType("stage")
  .withName("state_3")
  .withDisplayName("Source")
  .withDslMethod("source")
  .withIsManualExecution(false)
  .withExecutionMode("parallel");
Map<String, Object> listStatesParameters2 = new HashMap<>();
listStatesParameters2.put("display", "hidden");
TemplateState statesStates6 = new TemplateState();
statesStates6.withType("stage")
  .withName("initial")
  .withDisplayName("Initial")
  .withDslMethod("initial")
  .withParameters(listStatesParameters2)
  .withExecutionMode("parallel");
Map<String, TemplateState> listbodyStates = new HashMap<>();
listbodyStates.put("initial", statesStates6);
listbodyStates.put("state_3", statesStates5);
listbodyStates.put("Task_1", statesStates4);
listbodyStates.put("Task_2", statesStates3);
listbodyStates.put("state_4", statesStates2);
listbodyStates.put("state_5", statesStates1);
listbodyStates.put("final", statesStates);
Map<String, String> listFlowFlow = new HashMap<>();
listFlowFlow.put("final", "always");
Map<String, String> listFlowFlow1 = new HashMap<>();
listFlowFlow1.put("state_5", "always");
listFlowFlow1.put("Task_1", "always");
listFlowFlow1.put("Task_2", "always");
Map<String, String> listFlowFlow2 = new HashMap<>();
listFlowFlow2.put("state_4", "always");
Map<String, String> listFlowFlow3 = new HashMap<>();
```

```
listFlowFlow3.put("state_3", "always");
Map<String, Map<String, String>> listbodyFlow = new HashMap<>();
listbodyFlow.put("initial", listFlowFlow3);
listbodyFlow.put("state_3", listFlowFlow2);
listbodyFlow.put("state_4", listFlowFlow1);
listbodyFlow.put("state_5", listFlowFlow);
body.withWorkflow(workflowbody);
body.withStates(listbodyStates);
body.withFlow(listbodyFlow);
request.withBody(body);
try {
    CreatePipelineByTemplateResponse response = client.createPipelineByTemplate(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreatePipelineByTemplateRequest()
        listSourceWorkflow = [
            Source(
                branch=""
            )
        ]
        listParameterWorkflow = [
            PipelineParam(
                name="serviceName",
                value="pipeline-20201229165622",
                description="this is a text type param"
            ),
            PipelineParam(
                name="releaseVersion",
                value="1.0.0",
```

```
        description="this is a growth type param"
    )
]
workflowbody = Workflow(
    parameter=listParameterWorkflow,
    source=listSourceWorkflow,
    name="pipeline-123123",
    project_id="bc97c4d99c7d4f98bb6cd104a77fddd6",
    project_name="CloudPipelineTest-Copy"
)
statesStates = TemplateState(
    type="stage",
    name="final",
    display_name="Final",
    dsl_method="final",
    execution_mode="parallel"
)
statesStates1 = TemplateState(
    type="stage",
    name="state_5",
    display_name="Release",
    dsl_method="release",
    execution_mode="parallel"
)
statesStates2 = TemplateState(
    type="stage",
    name="state_4",
    display_name="Build_and_Check",
    dsl_method="build",
    execution_mode="parallel"
)
listParametersStates = {
    "language": "{ \"name\": \"Java\", \"language\": \"java\", \"id
\\: \"782aade71ffb4ab780303555eb2e4825\", \"display_name\": \"Java\" }",
    "codeBranch": "master",
    "__repository__": "{ \"repo_name\": \"fdfdfdf\", \"url\": \"git@example.com:CloudPipelineTest-
Copy00001/fdfdfdf.git\" }"
}
statesStates3 = TemplateState(
    type="task",
    name="Task_2",
    module_or_template_id="d7dfaefb6d94c63a09cf141668356c7",
    module_or_template_name="codecheck_template",
    display_name="Code_Check_Task",
    dsl_method="codeCheck",
    parameters=listParametersStates,
    is_manual_execution=False,
    is_execute=True,
    job_id="d7dfaefb6d94c63a09cf141668356c7",
    job_name="codecheck_template",
    project_id="4719b59466624abfbae0f83c3ce3a0dc"
)
listParametersStates1 = {
    "__repository__": "{ \"repo_name\": \"fdfdfdf\", \"url\": \"git@example.com:CloudPipelineTest-
Copy00001/fdfdfdf.git\" }"
}
statesStates4 = TemplateState(
    type="task",
    name="Task_1",
    module_or_template_id="00012",
    module_or_template_name="Maven",
    display_name="Build_Task",
    dsl_method="buildJob",
    parameters=listParametersStates1,
    is_manual_execution=False,
    is_execute=True,
    job_id="00012",
    job_name="Maven",
    project_id="4719b59466624abfbae0f83c3ce3a0dc"
```



```
)
statesStates5 = TemplateState(
    type="stage",
    name="state_3",
    display_name="Source",
    dsl_method="source",
    is_manual_execution=False,
    execution_mode="parallel"
)
listParametersStates2 = {
    "display": "hidden"
}
statesStates6 = TemplateState(
    type="stage",
    name="initial",
    display_name="Initial",
    dsl_method="initial",
    parameters=listParametersStates2,
    execution_mode="parallel"
)
listStatesbody = {
    "initial": statesStates6,
    "state_3": statesStates5,
    "Task_1": statesStates4,
    "Task_2": statesStates3,
    "state_4": statesStates2,
    "state_5": statesStates1,
    "final": statesStates
}
listFlowFlow = {
    "final": "always"
}
listFlowFlow1 = {
    "state_5": "always",
    "Task_1": "always",
    "Task_2": "always"
}
listFlowFlow2 = {
    "state_4": "always"
}
listFlowFlow3 = {
    "state_3": "always"
}
listFlowbody = {
    "initial": listFlowFlow3,
    "state_3": listFlowFlow2,
    "state_4": listFlowFlow1,
    "state_5": listFlowFlow
}
request.body = TemplateCddl(
    workflow=workflowbody,
    states=listStatesbody,
    flow=listFlowbody
)
response = client.create_pipeline_by_template(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

## Go

```
package main

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

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreatePipelineByTemplateRequest{}
    var listSourceWorkflow = []model.Source{
        {
            Branch: "",
        },
    }
    var listParameterWorkflow = []model.PipelineParam{
        {
            Name: "serviceName",
            Value: "pipeline-20201229165622",
            Description: "this is a text type param",
        },
        {
            Name: "releaseVersion",
            Value: "1.0.0",
            Description: "this is a growth type param",
        },
    }
    workflowbody := &model.Workflow{
        Parameter: listParameterWorkflow,
        Source: listSourceWorkflow,
        Name: "pipeline-123123",
        ProjectId: "bc97c4d99c7d4f98bb6cd104a77fddd6",
        ProjectName: "CloudPipelineTest-Copy",
    }
    statesStates := model.TemplateState{
        Type: "stage",
        Name: "final",
        DisplayName: "Final",
        DslMethod: "final",
        ExecutionMode: "parallel",
    }
    statesStates1 := model.TemplateState{
        Type: "stage",
        Name: "state_5",
        DisplayName: "Release",
        DslMethod: "release",
        ExecutionMode: "parallel",
    }
    statesStates2 := model.TemplateState{
        Type: "stage",
        Name: "state_4",
        DisplayName: "Build_and_Check",
        DslMethod: "build",
    }
}
```

```
    ExecutionMode: "parallel",
  }
  var listParametersStates = map[string]interface{}{
    "language": "{ \"name\": \"Java\", \"language\": \"java\", \"id
    \": \"782aade71ffb4ab780303555eb2e4825\", \"display_name\": \"Java\" }",
    "codeBranch": "master",
    "__repository__": "{ \"repo_name\": \"fdfdfd\", \"url\": \"git@example.com:CloudPipelineTest-Copy00001/
    fdfdffd.git\" }",
  }
  statesStates3 := model.TemplateState{
    Type: "task",
    Name: "Task_2",
    ModuleOrTemplateId: "d7dffaefb6d94c63a09cf141668356c7",
    ModuleOrTemplateName: "codecheck_template",
    DisplayName: "Code_Check_Task",
    DslMethod: "codeCheck",
    Parameters: listParametersStates,
    IsManualExecution: false,
    IsExecute: true,
    JobId: "d7dffaefb6d94c63a09cf141668356c7",
    JobName: "codecheck_template",
    ProjectId: "4719b59466624abfbae0f83c3ce3a0dc",
  }
  var listParametersStates1 = map[string]interface{}{
    "__repository__": "{ \"repo_name\": \"fdfdfd\", \"url\": \"git@example.com:CloudPipelineTest-Copy00001/
    fdfdffd.git\" }",
  }
  statesStates4 := model.TemplateState{
    Type: "task",
    Name: "Task_1",
    ModuleOrTemplateId: "00012",
    ModuleOrTemplateName: "Maven",
    DisplayName: "Build_Task",
    DslMethod: "buildJob",
    Parameters: listParametersStates1,
    IsManualExecution: false,
    IsExecute: true,
    JobId: "00012",
    JobName: "Maven",
    ProjectId: "4719b59466624abfbae0f83c3ce3a0dc",
  }
  statesStates5 := model.TemplateState{
    Type: "stage",
    Name: "state_3",
    DisplayName: "Source",
    DslMethod: "source",
    IsManualExecution: false,
    ExecutionMode: "parallel",
  }
  var listParametersStates2 = map[string]interface{}{
    "display": "hidden",
  }
  statesStates6 := model.TemplateState{
    Type: "stage",
    Name: "initial",
    DisplayName: "Initial",
    DslMethod: "initial",
    Parameters: listParametersStates2,
    ExecutionMode: "parallel",
  }
  var listStatesbody = map[string](model.TemplateState){
    "initial": statesStates6,
    "state_3": statesStates5,
    "Task_1": statesStates4,
    "Task_2": statesStates3,
    "state_4": statesStates2,
    "state_5": statesStates1,
    "final": statesStates,
  }
}
```

```
var listFlowFlow = map[string]string{
    "final": "always",
}
var listFlowFlow2 = map[string]string{
    "state_5": "always",
    "Task_1": "always",
    "Task_2": "always",
}
var listFlowFlow6 = map[string]string{
    "state_4": "always",
}
var listFlowFlow8 = map[string]string{
    "state_3": "always",
}
var listFlowbody = map[string]map[string]string{
    "initial": listFlowFlow8,
    "state_3": listFlowFlow6,
    "state_4": listFlowFlow2,
    "state_5": listFlowFlow,
}
request.Body = &model.TemplateCddl{
    Workflow: workflowbody,
    States: listStatesbody,
    Flow: listFlowbody,
}
response, err := client.CreatePipelineByTemplate(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.9.2 Checking the Pipeline Creation Status

### Function

This API is used to check the pipeline creation status.

### Calling Method

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

### URI

GET /v3/templates/{task\_id}/status

**Table 4-464** Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Instance ID.

### Request Parameters

**Table 4-465** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token.

### Response Parameters

Status code: 200

**Table 4-466** Response body parameters

Parameter	Type	Description
task_id	String	ID of the pipeline creation instance.
task_status	String	Instance creation status. The value can be <b>initializing</b> , <b>processing</b> , <b>finished</b> , or <b>succeeded</b> .
pipeline_id	String	Pipeline ID.

Parameter	Type	Description
pipeline_name	String	Pipeline name.
pipeline_url	String	URL of the pipeline details page.

**Status code: 400**

**Table 4-467** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/templates/eafaff0bf9094d3d8456d13dddf67b40/status
```

```
GET https://{endpoint}/v3/templates/eafaff0bf9094d3d8456d13dddf67b40/status
```

## Example Responses

**Status code: 200**

OK

```
{
  "task_id" : "eafaff0bf9094d3d8456d13dddf67b40",
  "task_status" : "succeeded",
  "pipeline_id" : "4f73c81f5d98455eab7a2fda2f3d2434",
  "pipeline_name" : "pipeline-20200316144601",
  "pipeline_url" : "https://example.com/3560a08e3c5143c5bb0236e0ef910926/pipeline/detail/4f73c81f5d98455eab7a2fda2f3d2434"
}
```

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.9.3 Starting a Pipeline

### Function

This API is used to start a pipeline.

### Calling Method

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

### URI

POST /v3/pipelines/{pipeline\_id}/start

**Table 4-468** Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Pipeline ID.

### Request Parameters

**Table 4-469** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-470** Request body parameters

Parameter	Mandatory	Type	Description
build_params	No	Array of <a href="#">StartPipelineBuildParams</a> objects	Build parameters for starting a pipeline.

**Table 4-471** StartPipelineBuildParams

Parameter	Mandatory	Type	Description
name	Yes	String	Build parameter name.
value	Yes	String	Build parameter value, which contains a maximum of 8192 characters.

## Response Parameters

**Status code: 200**

**Table 4-472** Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
build_id	String	Pipeline execution ID.

**Status code: 400**

**Table 4-473** Response body parameters

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

## Example Requests

Start a pipeline. Set the startup parameters to ServiceName:pipeline-Test and version:1.0.0.

```
{
  "build_params": [ {
    "name": "ServiceName",
    "value": "pipeline-Test"
  }, {
    "name": "version",
    "value": "1.0.0"
  } ]
}
```

## Example Responses

**Status code: 200**

OK



```
{
  "pipeline_id" : "8025ba36a87a4dd5af496708c2961817",
  "build_id" : "23"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Start a pipeline. Set the startup parameters to ServiceName:pipeline-Test and version:1.0.0.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

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

public class StartNewPipelineSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        StartNewPipelineRequest request = new StartNewPipelineRequest();
        StartPipelineParameters body = new StartPipelineParameters();
        List<StartPipelineBuildParams> listbodyBuildParams = new ArrayList<>();
        listbodyBuildParams.add(
            new StartPipelineBuildParams()
                .withName("ServiceName")
                .withValue("pipeline-Test")
        );
        listbodyBuildParams.add(
            new StartPipelineBuildParams()
                .withName("version")
                .withValue("1.0.0")
        );
        body.withBuildParams(listbodyBuildParams);
        request.withBody(body);
        try {
            StartNewPipelineResponse response = client.startNewPipeline(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

Start a pipeline. Set the startup parameters to ServiceName:pipeline-Test and version:1.0.0.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = StartNewPipelineRequest()
        listBuildParamsbody = [
            StartPipelineBuildParams(
                name="ServiceName",
                value="pipeline-Test"
            ),
            StartPipelineBuildParams(
                name="version",
                value="1.0.0"
            )
        ]
        request.body = StartPipelineParameters(
            build_params=listBuildParamsbody
        )
        response = client.start_new_pipeline(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

Start a pipeline. Set the startup parameters to ServiceName:pipeline-Test and version:1.0.0.

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.StartNewPipelineRequest{}
    var listBuildParamsbody = []model.StartPipelineBuildParams{
        {
            Name: "ServiceName",
            Value: "pipeline-Test",
        },
        {
            Name: "version",
            Value: "1.0.0",
        },
    }
    request.Body = &model.StartPipelineParameters{
        BuildParams: &listBuildParamsbody,
    }
    response, err := client.StartNewPipeline(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request

Status Code	Description
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.9.4 Stopping a Pipeline

### Function

This API is used to stop a pipeline.

### Calling Method

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

### URI

POST /v3/pipelines/{pipeline\_id}/stop

**Table 4-474** Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	Pipeline ID.

**Table 4-475** Query Parameters

Parameter	Mandatory	Type	Description
build_id	Yes	String	Execution ID.

## Request Parameters

**Table 4-476** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-477** Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.

**Status code: 400**

**Table 4-478** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/pipelines/8025ba36a87a4dd5af496708c2961817/stop?build_id=1
```

## Example Responses

**Status code: 200**

OK

```
{  
  "pipeline_id" : "8025ba36a87a4dd5af496708c2961817",  
  "pipeline_name" : "pipeline-23"  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class StopPipelineNewSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        StopPipelineNewRequest request = new StopPipelineNewRequest();
        request.withBuildId("<build_id>");
        try {
            StopPipelineNewResponse response = client.stopPipelineNew(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
```

risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

# In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD\_SDK\_AK and CLOUD\_SDK\_SK in the local environment

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

credentials = BasicCredentials(ak, sk)

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

try:
    request = StopPipelineNewRequest()
    request.build_id = "<build_id>"
    response = client.stop_pipeline_new(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"
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"
)

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.StopPipelineNewRequest{}
    request.BuildId = "<build_id>"
    response, err := client.StopPipelineNew(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.9.5 Obtaining Pipeline Statuses in Batches

### Function

This API is used to obtain pipeline statuses and stage information.

### Calling Method

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

### URI

GET /v3/pipelines/status

**Table 4-479** Query Parameters

Parameter	Mandatory	Type	Description
pipeline_ids	Yes	String	ID of the pipeline whose status is to be obtained. IDs are separated by commas (,).



## Request Parameters

**Table 4-480** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-481** Response body parameters

Parameter	Type	Description
[items]	Array of <b>PipelineExecuteStates</b> objects	OK

**Table 4-482** PipelineExecuteStates

Parameter	Type	Description
result	String	Pipeline execution result. The value can be <b>success</b> , <b>error</b> , or <b>aborted</b> .
status	String	Pipeline execution status. The value can be waiting, running, verifying, suspending, or completed.
stages	Array of <b>Stages</b> objects	Stage execution status.
executor	String	Executor.
pipeline_name	String	Pipeline name.
pipeline_id	String	Pipeline ID.
build_id	String	Pipeline execution ID.
detail_url	String	URL of the pipeline details page.

Parameter	Type	Description
modify_url	String	URL of the pipeline editing page.
start_time	String	Execution start time.
end_time	String	Execution end time.

**Table 4-483** Stages

Parameter	Type	Description
result	String	Execution result of a stage. The value can be <b>success, error, or aborted</b> .
status	String	Stage execution status. The value can be <b>waiting, running, verifying, suspending, or completed</b> .
name	String	Stage name.
parameters	Object	Stage running parameters.
order	Integer	Stage sequence.
dsl_method	String	Stage type.
display_name	String	Stage display name.

**Status code: 400****Table 4-484** Response body parameters

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

**Example Requests**

```
GET https://{endpoint}/v3/pipelines/status?  
pipeline_ids=8025ba36a87a4dd5af496708c2961817,413937e669914f95bed293617886c6c1
```

**Example Responses****Status code: 200**

OK

```
[ {  
  "result" : "error",  
  "status" : "completed",
```

```
"stages" : [ {
  "result" : "success",
  "status" : "completed",
  "name" : "initial",
  "parameters" : null,
  "order" : 1,
  "dsl_method" : "initial",
  "display_name" : "Source code"
}, {
  "result" : "success",
  "status" : "completed",
  "name" : "state_3",
  "parameters" : null,
  "order" : 2,
  "dsl_method" : "build",
  "display_name" : "Build"
} ],
"executor" : "executor",
"pipeline_name" : "Do not delete the PipelineSvc test_Continue the test.",
"pipeline_id" : "92a65e2337174fabdbccda97ab7ffad",
"detail_url" : "https://example.com",
"modify_url" : "https://example.com",
"start_time" : "2022-09-09 00:00:00",
"end_time" : "2022-09-09 00:00:24",
"build_id" : "25"
} ]
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class BatchShowPipelinesStatusSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        BatchShowPipelinesStatusRequest request = new BatchShowPipelinesStatusRequest();
        request.withPipelineIds("<pipeline_ids>");
        try {
            BatchShowPipelinesStatusResponse response = client.batchShowPipelinesStatus(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = BatchShowPipelinesStatusRequest()
        request.pipeline_ids = "<pipeline_ids>"
        response = client.batch_show_pipelines_status(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

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

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

```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartspipeline.NewCodeArtsPipelineClient(
    codeartspipeline.CodeArtsPipelineClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.BatchShowPipelinesStatusRequest{}
request.PipelineIds = "<pipeline_ids>"
response, err := client.BatchShowPipelinesStatus(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.9.6 Deleting a Pipeline

### Function

This API is used to delete a pipeline based on the pipeline ID.

### Calling Method

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

## URI

DELETE /v3/pipelines/{pipeline\_id}

**Table 4-485** Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	ID of the pipeline to be deleted.

## Request Parameters

**Table 4-486** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

**Status code: 200**

**Table 4-487** Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.

**Status code: 400**

**Table 4-488** Response body parameters

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

## Example Requests

```
DELETE https://{endpoint}/v3/pipelines/8025ba36a87a4dd5af496708c2961817
```

## Example Responses

**Status code: 200**

OK

```
{
  "pipeline_id" : "eafaff0bf9094d3d8456d13dddf67b40",
  "pipeline_name" : "pipeline-test"
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

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

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

public class RemovePipelineSolution {

    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);

        CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
            .build();
        RemovePipelineRequest request = new RemovePipelineRequest();
        try {
            RemovePipelineResponse response = client.removePipeline(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 huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartspipeline.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsPipelineClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsPipelineRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = RemovePipelineRequest()  
        response = client.remove_pipeline(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"  
    codeartspipeline "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartspipeline/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartspipeline.NewCodeArtsPipelineClient(  
        codeartspipeline.CodeArtsPipelineClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).
```



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

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.9.7 Obtaining the Pipeline List

### Function

This API is used to obtain the pipeline list.

### Calling Method

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

### URI

POST /v3/pipelines/list

## Request Parameters

**Table 4-489** 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 <b>X-Subject-Token</b> in the response header is the user token.

**Table 4-490** Request body parameters

Parameter	Mandatory	Type	Description
pipeline_name	No	String	Pipeline name. Fuzzy match query.
project_ids	No	String	Project ID. Multiple IDs are separated by commas (,). A maximum of 10 IDs are supported. This parameter is optional. If this parameter has a value, the pipeline list of the corresponding project is obtained. If this parameter does not have a value, the pipeline list of all projects on which the user has permission is obtained.
creator_ids	No	String	Creator ID. Multiple IDs are separated by commas (,). A maximum of 10 IDs are supported. This parameter is optional.
executor_ids	No	String	Executor ID. Multiple IDs are separated by commas (,). A maximum of 10 IDs are supported. This parameter is optional.
status	No	String	Pipeline running status. The value can be <b>waiting</b> , <b>running</b> , <b>verifying</b> , <b>suspending</b> , or <b>completed</b> .
outcome	No	String	Pipeline execution result. The value can be <b>success</b> , <b>error</b> , or <b>aborted</b> .

Parameter	Mandatory	Type	Description
sort_key	No	String	Field used for sorting. The value can be pipeline_name, create_time, or start_time.
sort_dir	No	String	Sorting order. asc: ascending; desc: descending.
git_url	No	String	Code repository address. Only CodeHub is supported, for example, git@codehub.XXX.git.
offset	No	Integer	Offset, which is the position where the query starts. Min.: 0 (default value).
limit	No	Integer	Number of records of each query. The value ranges from 10 to 50. The default value is 10.

## Response Parameters

Status code: 200

Table 4-491 Response body parameters

Parameter	Type	Description
offset	Integer	Offset, which is the position where the query starts. The value must be no less than 0.
limit	Integer	Number of records of each query.
total	Integer	Total number of records.
result	Array of PipelineBasicInfo objects	Pipeline list.

Table 4-492 PipelineBasicInfo

Parameter	Type	Description
project_id	String	Project ID.
project_name	String	Project name.
pipeline_id	String	Pipeline ID.

Parameter	Type	Description
pipeline_name	String	Pipeline name.
creator_id	String	Pipeline creator ID
creator_name	String	Pipeline creator name.
executor_id	String	Pipeline executor ID.
executor_name	String	Pipeline executor name.
start_time	String	Start time.
create_time	String	Creation time.
watched	String	Whether the user follows a pipeline. The value can be true (follow) or false (not follow).

**Status code: 400**

**Table 4-493** Response body parameters

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

## Example Requests

This API is used to obtain the pipeline list. Example: The project ID is e12ed176898d4841aa9881fe9b933c87 and the creator ID is 847a5317086c41798469d0868535943a. Pipelines are sorted by pipeline name in descending order.

```
POST https://{endpoint}/v3/pipelines/list
```

```
{
  "pipeline_name": "",
  "project_ids": "e12ed176898d4841aa9881fe9b933c87",
  "creator_ids": "847a5317086c41798469d0868535943a",
  "executor_ids": "847a5317086c41798469d0868535943a",
  "status": "waiting,running,verifying,handling,suspending,completed",
  "outcome": "error,success,aborted",
  "sort_key": "pipeline_name",
  "sort_dir": "desc",
  "git_url": "",
  "offset": 4,
  "limit": 10
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 88,
  "result" : [ {
    "project_id" : "e12ed176898d4841aa9881fe9b933c87",
    "project_name" : "Pipeline_Beta_Automatic Test",
    "pipeline_id" : "d33f98177c3e44f8841b005e1badcaed",
    "pipeline_name" : "Ma Yunduo Cang",
    "creator_id" : "847a5317086c41798469d0868535943a",
    "creator_name" : "Big beta test account",
    "executor_id" : "847a5317086c41798469d0868535943a",
    "executor_name" : "Big beta test account",
    "start_time" : "2022-09-08 17:08:02",
    "create_time" : "2022-07-28 17:02:11",
    "watched" : "true"
  }, {
    "project_id" : "e12ed176898d4841aa9881fe9b933c87",
    "project_name" : "Pipeline_Beta_Automatic Test",
    "pipeline_id" : "2ec08a45031c4d2896292a48b7fb1a30",
    "pipeline_name" : "Dedicated Test for Access Control_Do Not Delete",
    "creator_id" : "847a5317086c41798469d0868535943a",
    "creator_name" : "Big beta test account",
    "executor_id" : "847a5317086c41798469d0868535943a",
    "executor_name" : "Big beta test account",
    "start_time" : "2022-09-08 16:52:03",
    "create_time" : "2020-10-29 17:05:02",
    "watched" : "true"
  } ]
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

This API is used to obtain the pipeline list. Example: The project ID is e12ed176898d4841aa9881fe9b933c87 and the creator ID is 847a5317086c41798469d0868535943a. Pipelines are sorted by pipeline name in descending order.

```
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.codeartspipeline.v2.region.CodeArtsPipelineRegion;
import com.huaweicloud.sdk.codeartspipeline.v2.*;
import com.huaweicloud.sdk.codeartspipeline.v2.model.*;

public class ListPipelineSimpleInfoSolution {

    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);

CodeArtsPipelineClient client = CodeArtsPipelineClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsPipelineRegion.valueOf("<YOUR REGION>"))
    .build();
ListPipelineSimpleInfoRequest request = new ListPipelineSimpleInfoRequest();
ListPipelineSimpleInfoRequestBody body = new ListPipelineSimpleInfoRequestBody();
body.withLimit(10);
body.withOffset(4);
body.withGitUrl("");
body.withSortDir("desc");
body.withSortKey("pipeline_name");
body.withOutcome("error,success,aborted");
body.withStatus("waiting,running,verifying,handling,suspending,completed");
body.withExecutorIds("847a5317086c41798469d0868535943a");
body.withCreatorIds("847a5317086c41798469d0868535943a");
body.withProjectIds("e12ed176898d4841aa9881fe9b933c87");
body.withPipelineName("");
request.withBody(body);
try {
    ListPipelineSimpleInfoResponse response = client.listPipelineSimpleInfo(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

This API is used to obtain the pipeline list. Example: The project ID is e12ed176898d4841aa9881fe9b933c87 and the creator ID is 847a5317086c41798469d0868535943a. Pipelines are sorted by pipeline name in descending order.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartspipeline.v2.region.codeartspipeline_region import CodeArtsPipelineRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartspipeline.v2 import *

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

```
credentials = BasicCredentials(ak, sk)

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

try:
    request = ListPipelineSimpleInfoRequest()
    request.body = ListPipelineSimpleInfoRequestBody(
        limit=10,
        offset=4,
        git_url="",
        sort_dir="desc",
        sort_key="pipeline_name",
        outcome="error,success,aborted",
        status="waiting,running,verifying,handling,suspending,completed",
        executor_ids="847a5317086c41798469d0868535943a",
        creator_ids="847a5317086c41798469d0868535943a",
        project_ids="e12ed176898d4841aa9881fe9b933c87",
        pipeline_name=""
    )
    response = client.list_pipeline_simple_info(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

This API is used to obtain the pipeline list. Example: The project ID is e12ed176898d4841aa9881fe9b933c87 and the creator ID is 847a5317086c41798469d0868535943a. Pipelines are sorted by pipeline name in descending order.

```
package main

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

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

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

    client := codeartspipeline.NewCodeArtsPipelineClient(
        codeartspipeline.CodeArtsPipelineClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListPipelineSimpleInfoRequest{}
```

```
limitListPipelineSimpleInfoRequestBody:= int32(10)
offsetListPipelineSimpleInfoRequestBody:= int32(4)
gitUrlListPipelineSimpleInfoRequestBody:= ""
sortDirListPipelineSimpleInfoRequestBody:= "desc"
sortKeyListPipelineSimpleInfoRequestBody:= "pipeline_name"
outcomeListPipelineSimpleInfoRequestBody:= "error,success,aborted"
statusListPipelineSimpleInfoRequestBody:= "waiting,running,verifying,handling,suspending,completed"
executorIdsListPipelineSimpleInfoRequestBody:= "847a5317086c41798469d0868535943a"
creatorIdsListPipelineSimpleInfoRequestBody:= "847a5317086c41798469d0868535943a"
projectIdsListPipelineSimpleInfoRequestBody:= "e12ed176898d4841aa9881fe9b933c87"
pipelineNameListPipelineSimpleInfoRequestBody:= ""
request.Body = &model.ListPipelineSimpleInfoRequestBody{
    Limit: &limitListPipelineSimpleInfoRequestBody,
    Offset: &offsetListPipelineSimpleInfoRequestBody,
    GitUrl: &gitUrlListPipelineSimpleInfoRequestBody,
    SortDir: &sortDirListPipelineSimpleInfoRequestBody,
    SortKey: &sortKeyListPipelineSimpleInfoRequestBody,
    Outcome: &outcomeListPipelineSimpleInfoRequestBody,
    Status: &statusListPipelineSimpleInfoRequestBody,
    ExecutorIds: &executorIdsListPipelineSimpleInfoRequestBody,
    CreatorIds: &creatorIdsListPipelineSimpleInfoRequestBody,
    ProjectIds: &projectIdsListPipelineSimpleInfoRequestBody,
    PipelineName: &pipelineNameListPipelineSimpleInfoRequestBody,
}
response, err := client.ListPipelineSimpleInfo(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

## More

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

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).



## 4.9.8 Obtaining the Pipeline Status

### Function

This API is used to obtain the pipeline status, stage, and job information.

### Calling Method

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

### URI

GET /v3/pipelines/{pipeline\_id}/status

**Table 4-494** Path Parameters

Parameter	Mandatory	Type	Description
pipeline_id	Yes	String	ID of the pipeline whose status is to be obtained.

**Table 4-495** Query Parameters

Parameter	Mandatory	Type	Description
build_id	No	String	Execution ID of the pipeline whose status is to be obtained.

### Request Parameters

**Table 4-496** 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 <b>X-Subject-Token</b> in the response header is the user token.

### Response Parameters

**Status code: 200**

**Table 4-497** Response body parameters

Parameter	Type	Description
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.
executor	String	Executor.
build_id	String	Pipeline execution ID.
start_time	String	Execution start time.
end_time	String	Execution end time.
parameters	Array of <a href="#">PipelineParameter</a> objects	Pipeline parameters.
states	Array of <a href="#">PipelineStateStatus</a> objects	Pipeline execution status.
elapsed_time	String	Execution duration.
status	String	Pipeline running status. The value can be <b>waiting</b> , <b>running</b> , <b>verifying</b> , <b>suspending</b> , or <b>completed</b> .
outcome	String	Pipeline execution result. The value can be <b>success</b> , <b>error</b> , or <b>aborted</b> .
detail_url	String	URL of the pipeline details page.

**Table 4-498** PipelineParameter

Parameter	Type	Description
name	String	Parameter name.
value	String	Parameter value.

**Table 4-499** PipelineStateStatus

Parameter	Type	Description
id	String	Stage or job ID.
name	String	Stage or job name.
type	String	Type (stage/job)

Parameter	Type	Description
start_time	String	Execution start time.
end_time	String	Execution end time.
elapsed_time	String	Running duration.
status	String	Running status. The value can be <b>waiting</b> , <b>running</b> , <b>verifying</b> , <b>suspending</b> , or <b>completed</b> .
outcome	String	Running result. The value can be <b>success</b> , <b>error</b> , or <b>aborted</b> .
error_code	String	Error code.
error_msg	String	Error message.
children	Array of <a href="#">PipelineState Status</a> objects	Subtask running information (empty for a task)
detail_url	String	URL of job running records.

**Status code: 400**

**Table 4-500** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/pipelines/8025ba36a87a4dd5af496708c2961817/status?build_id=2
```

## Example Responses

**Status code: 200**

OK

```
{
  "executor" : null,
  "status" : null,
  "outcome" : null,
  "pipeline_id" : "75c562a081574ff28224fb2c123a0643",
  "pipeline_name" : "pipeline-1185523_Cx2Ur",
  "build_id" : null,
  "start_time" : "2022-04-01 19:44:16",
  "end_time" : null,
  "elapsed_time" : null,
  "detail_url" : "https://example.com",
```

```
"parameters": [ {
  "name": "seviceName",
  "value": "pipeline-23"
}, {
  "name": "codeBranch",
  "value": "master"
} ],
"states": [ {
  "id": "state_4",
  "name": "Build",
  "type": "stage",
  "status": null,
  "outcome": null,
  "children": [ {
    "id": "Task_1",
    "name": "Manual review",
    "type": "task",
    "status": null,
    "outcome": null,
    "start_time": null,
    "end_time": null,
    "elapsed_time": null,
    "error_code": null,
    "error_msg": null,
    "detail_url": null
  } ],
  "start_time": null,
  "end_time": null,
  "elapsed_time": null
} ]
}
```

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

## 4.9.9 Obtaining the Pipeline Execution Status in a Project

### Function

This API is used to obtain the pipeline execution status in a project.

### Calling Method

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

## URI

GET /v3/pipelines/build-result

**Table 4-501** Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
start_date	Yes	String	Start date. The interval between the start date and end date cannot exceed one month. The query includes the start date.
end_date	Yes	String	End date. The interval between the start date and end date cannot exceed one month. The query includes the end date.
offset	Yes	Integer	Offset, which is the position where the query starts. The value must be no less than 0.
limit	Yes	Integer	Number of records of each query.

## Request Parameters

**Table 4-502** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of <b>X-Subject-Token</b> in the response header is the user token.

## Response Parameters

Status code: 200

**Table 4-503** Response body parameters

Parameter	Type	Description
offset	Integer	Offset, which is the position where the query starts. The value must be no less than 0.
limit	Integer	Number of records of each query.
total	Integer	Total number of items.
build_results	Array of <a href="#">PipelineBuildResult</a> objects	Execution status data list.

**Table 4-504** PipelineBuildResult

Parameter	Type	Description
build_id	String	Pipeline execution ID.
elapse_time	String	Running duration, in milliseconds.
end_time	String	Execution end time.
outcome	String	Running result. The value can be <b>success</b> , <b>error</b> , or <b>aborted</b> .
pipeline_id	String	Pipeline ID.
pipeline_name	String	Pipeline name.
start_time	String	Execution start time.
status	String	Running status. The value can be <b>waiting</b> , <b>running</b> , <b>verifying</b> , <b>suspending</b> , or <b>completed</b> .

**Status code: 400****Table 4-505** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/pipelines/build-result?
project_id=8025ba36a87a4885af496708c2961817&start_date=2020-07-01&end_date=2020-07-31&offset=0&
limit=10
```

## Example Responses

**Status code: 200**

OK

```
{
  "offset" : 0,
  "limit" : 10,
  "total" : 29,
  "build_results" : [ {
    "status" : "completed",
    "outcome" : "success",
    "pipeline_id" : "fbc06e5655764f049f4d988bd2941279",
    "pipeline_name" : "API test pipeline_YN96I241",
    "build_id" : "12",
    "start_time" : "2021-08-10 00:00:01",
    "end_time" : "2021-08-10 00:00:02",
    "elapsed_time" : "917"
  } ]
}
```

## Status Codes

Status Code	Description
200	OK
400	Bad request
401	Unauthorized
403	Forbidden
404	Not Found

## Error Codes

See [Error Codes](#).

# 5 Application Examples

---

## 5.1 Example 1: Executing a Pipeline

### Scenario

This section shows how to execute pipeline tasks by using APIs.

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

### Constraints

A pipeline task to be executed has been created in CodeArts Pipeline.

### Involved APIs

Use request parameters such as the user token and pipeline ID to [start a pipeline](#).

### Procedure

**Step 1** Execute a pipeline task.

- API information

URI: POST /v3/pipelines/{pipeline\_id}/start

For details about this API, visit [Starting a Pipeline](#).

- Example request

```
POST https://cloudpipeline-ext.ap-southeast-3.myhuaweicloud.com/v3/pipelines/{pipeline_id}/start
```

- Example request body

```
{}
```

- Example response

```
{  
  "build_id": "xxx",  
  "pipeline_id": "824e784b3f43492e99152a....."  
}
```

----End



## 5.2 Example 2: Stopping a Pipeline

### Scenario

This section shows how to stop a pipeline task by pipeline ID by using APIs.

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

### Constraints

A pipeline exists and is being executed.

### Involved APIs

Use the user token and pipeline ID to [stop a pipeline](#).

### Procedure

**Step 1** Query the build tasks in a specified project.

- API information

URI: POST /v3/pipelines/stop

For details about this API, visit [Stopping a Pipeline](#).

- Example request

```
https://cloudpipeline-ext.ap-southeast-3.myhuaweicloud.com/v3/pipelines/stop?  
pipeline_id=824e784b3f43492e99152a.....
```

- Example request body

```
{}
```

- Example response

```
{  
  "result": {  
    "name": "pipeline-test",  
    "pipelineId": "e9bdc806955e48368e3ecbcdf2...."  
  },  
  "error": null,  
  "status": "success"  
}
```

----End

## 5.3 Example 3: Obtain the Pipeline Status

### Scenario

This section shows how to obtain a pipeline status by using APIs.

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

### Constraints

A pipeline task has been created in CodeArts Pipeline.

## Involved APIs

Use request parameters such as the user token and pipeline ID to [obtain the pipeline status](#).

## Procedure

**Step 1** Query the pipeline task execution status.

- API information

URI: POST v3/pipelines/{pipeline\_id}/status

For details about this API, visit [Obtaining the Pipeline Status](#).

- Example request

GET [https://cloudpipeline-ext.ap-southeast-3.myhuaweicloud.com/v3/pipelines/{pipeline\\_id}/status](https://cloudpipeline-ext.ap-southeast-3.myhuaweicloud.com/v3/pipelines/{pipeline_id}/status)

- Example response

```
{
  "executor": "xxx",
  "status": "completed",
  "outcome": "success",
  "parameters": [
    {
      "name": "serviceName",
      "value": "Test"
    },
    {
      "name": "codeBranch",
      "value": "master"
    },
    {
      "name": "releaseVersion",
      "value": "1.0.0"
    }
  ],
  "states": [
    {
      "id": "state_3",
      "name": "Source code",
      "type": "stage",
      "status": "completed",
      "outcome": "success",
      "children": [],
      "start_time": "2020-09-01 17:13:18",
      "end_time": "2020-09-01 17:13:18",
      "elapsed_time": "0"
    },
    {
      "id": "state_4",
      "name": "Build",
      "type": "stage",
      "status": "completed",
      "outcome": "success",
      "children": [
        {
          "id": "Task_1",
          "name": "Default task",
          "type": "task",
          "status": "completed",
          "outcome": "success",
          "start_time": "2020-09-01 17:13:18",
          "end_time": "2020-09-01 17:16:22",
          "elapsed_time": "183",
          "error_code": null,
          "error_msg": null,
          "detail_url": null
        }
      ]
    }
  ]
}
```

```
    ],  
    "start_time": "2020-09-01 17:13:18",  
    "end_time": "2020-09-01 17:16:22",  
    "elapsed_time": "183"  
  },  
  {  
    "id": "state_5",  
    "name": "Release repo",  
    "type": "stage",  
    "status": "completed",  
    "outcome": "success",  
    "children": [],  
    "start_time": "2020-09-01 17:16:22",  
    "end_time": "2020-09-01 17:16:22",  
    "elapsed_time": "0"  
  }  
],  
"pipeline_id": "824e784b3f43492e99152a4....",  
"pipeline_name": "pipeline_test",  
"build_id": "xxxx",  
"start_time": "2020-09-01 17:13:18",  
"end_time": "2020-09-01 17:16:22",  
"elapsed_time": "184",  
"detail_url": "https://xxxxxx/pipeline/detail/824e784b3f43492e99152a...."  
}
```

----End

# 6 Appendixes

## 6.1 Status Code

Table 6-1 Status code

Status Code	Message	Description
100	Continue	The client should continue with its request. This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server.
101	Switching Protocols	Switch protocols. A protocol can only be switched to a advanced protocol. For example, the protocol in use is switched to a later version of HTTP.
201	Created	The request has been fulfilled and resulted in a new resource being created.
202	Accepted	The request has been accepted for processing, but the processing has not been completed.
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.
204	NoContent	The server has successfully processed the request, but does not return any response. The status code is returned in response to an HTTP OPTIONS request.
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.

Status Code	Message	Description
206	Partial Content	The server has fulfilled the partial GET request for the resource.
300	Multiple Choices	There are multiple choices for a requested resource. A list of resource characteristics and addresses is returned for the client such as a browser to choose from.
301	Moved Permanently	This and all future requests have been permanently moved to the given URI indicated in this response.
302	Found	The requested resource has been temporarily moved.
303	See Other	Retrieve another URL Use <b>GET</b> and <b>POST</b> requests to view the information.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, no resource is returned.
305	Use Proxy	The requested resource is available only through a proxy.
306	Unused	This HTTP status code is no longer used.
400	BadRequest	Invalid request. The client should modify the request instead of re-initiating it.
401	Unauthorized	The authentication information provided by the client is incorrect or invalid.
402	Payment Required	Reserved request.
403	Forbidden	Request rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.
404	NotFound	The requested resource cannot be found. The client should modify the request instead of re-initiating it.
405	MethodNotAllowed	The method specified in the request is not allowed for the requested resource. The client should modify the request instead of re-initiating it.

Status Code	Message	Description
406	Not Acceptable	The server cannot implement the request based on the content characteristics of the request.
407	Proxy Authentication Required	This code is similar to 401, but indicates that the client must first authenticate itself with the proxy.
408	Request Time-out	The server timed out waiting for the request. The client may re-initiate the request without modifications at any time later.
409	Conflict	The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request.
410	Gone	The requested resource cannot be found. This status code indicates that the requested resource has been deleted permanently.
411	Length Required	The server refused to process the request because the request does not specify the length of its content.
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The server refuses to process a request because the request is too large. The server may disable the connection to prevent the client from sending requests consecutively. If the server temporarily cannot process the request, the response will contain a <b>Retry-After</b> header field.
414	Request-URI Too Large	The request URI is too long for the server to process.
415	Unsupported Media Type	The server does not support the media type in the request.
416	Requested range not satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the <b>Expect</b> request header field.
422	UnprocessableEntity	The request is well-formed but is unable to respond due to semantic errors.

Status Code	Message	Description
429	TooManyRequests	The client sends too many requests to the server within a given time, exceeding the client's access frequency limit or beyond the server's processing capability. In this case, the client should repeat requests after the time specified in the <b>Retry-After</b> header of the response expires.
500	InternalServerError	The server is able to receive the request but it cannot understand the request.
501	Not Implemented	The server does not support the requested function, and therefore cannot implement the request.
502	Bad Gateway	The server acting as a gateway or proxy receives an invalid response from a remote server.
503	ServiceUnavailable	The requested service is invalid. The client should modify the request instead of re-initiating it.
504	ServerTimeout	The server could not return a timely response. The response will reach the client only if the request carries a timeout parameter.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

## 6.2 Error Code

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 are unable to identify the cause of an 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_msg": "Insufficient permission",  
  "error_code": "DEVCP.00014031"  
}
```

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](#).

Stat us Code	Error Code	Error Message	Description	Solution
200	DEVCP.00014031	Insufficient permissions.	Insufficient permissions to create a pipeline.	Check whether you have the permission to create a pipeline.
200	DEVCP.00012002	The related record does not exist in the database.	instanceld does not exist in the database.	Check whether the request parameter instanceld is correct.
500	DEVCP.00010000	Unknown service error.	System internal error.	Contact the administrator.
200	DEVCP.00014004	Invalid parameter.	Invalid request parameter or request body format.	Check the request parameters or request body.
400	DEVCP.00021400	Incorrect settings. Please check.	Incorrect settings. Please check.	Check whether the request parameter is correct or invalid.
400	DEVCP.00021008	The service template is not supported.	The service template is not supported.	Check whether the parameters are correctly specified.
400	DEVCP.00021006	Template not found.	The template does not exist in the database.	Check whether the template ID is correct.
401	DEVCP.00021018	The user was not authorized to perform the operation.	The user does not have the creation permissions.	Check whether the user has the creation permission.
500	DEVCP.00020500	Network busy. Try again later.	The system is abnormal.	Contact the administrator.
500	COCT.0070003	Frequent access. Please wait.	Frequent access. Please wait.	Frequent access. Please wait.
500	COCT.0070500	Network busy. Try again later.	Network busy. Try again later.	Network busy. Try again later.
400	COCT.0070026	This agent already exists. Check the status.	This agent already exists. Check the status.	This agent already exists. Check the status.



Stat us Code	Error Code	Error Message	Description	Solution
404	COCT.007 0010	The resource pool not found.	The resource pool selected for the registered agent does not exist.	The resource pool selected for the registered agent does not exist. Check whether the resource pool exists.
404	COCT.007 0040	The current agent version is not the latest.	The current agent version is not the latest.	The current agent version is not the latest.
401	COCT.007 0009	Insufficient permissions.	The selected resource pool does not have the operation permission. Contact the resource pool administrator to add the permission.	The selected resource pool does not have the operation permission. Contact the resource pool administrator to add the permission.
400	COCT.007 0037	Invalid label.	Invalid label.	The label parameter is invalid. Enter a valid value.
500	COCT.007 0006	Failed to register the agent. Try again later.	Failed to register the agent. Try again later.	Failed to register the agent. Try again later.
400	COCT.007 0026	This agent already exists. Check the status.	The registered agent already exists. Check it in the resource pool.	The registered agent already exists. Check it in the resource pool.
400	COCT.007 0038	The maximum number of pools of the account has been reached.	The maximum number of pools of the account has been reached.	The number of resource pools of the tenant exceeds the maximum number. Check the number of resource pools of the current tenant.
400	COCT.007 0039	The maximum number of agents in the pool has been reached.	The maximum number of agents in the pool has been reached.	Check the number of agents in the current resource pool.

Stat us Code	Error Code	Error Message	Description	Solution
500	COCT.007 0008	Failed to delete the agent.	Failed to delete the agent.	Check whether the agent does not exist.
500	COCT.007 0019	Failed to access the cluster control.	Failed to access the CC service. Try again later.	Failed to access the CC service. Try again later.
400	COCT.007 0400	The pool ID can contain 32 characters that consist of digits and letters.	The pool ID can contain 32 characters that consist of digits and letters.	The resource pool ID can contain only 32 characters that consist of digits and letters.
400	COCT.007 0400	The agent name can contain 1 to 50 characters that consist of digits, letters, dots (.), underscores (_), and hyphens (-).	The agent name can contain 1 to 50 characters that consist of digits, letters, dots (.), underscores (_), and hyphens (-).	The agent name can contain 1 to 50 characters that consist of digits, letters, dots (.), underscores (_), and hyphens (-). Enter a correct value.
404	COCT.007 0007	The agent has been deleted and does not exist.	The agent has been deleted and does not exist.	The agent has been deleted and does not exist. Please check.
400	COCT.007 0021	The agent is offline. Register it again.	The agent is offline. Register it again.	The agent is offline. Register it again.
200	DEVPIPE.0 0011104	The maximum number of concurrent executions in a single pipeline is {0}.	The maximum number of concurrent executions in a single pipeline is {0}.	The maximum number of concurrent executions in a single pipeline is {0}.
200	DEVPIPE.0 0011105	The maximum number of concurrent pipeline executions of a tenant is {0}.	The maximum number of concurrent pipeline executions of a tenant is {0}.	The maximum number of concurrent pipeline executions of a tenant is {0}.
200	DEVPIPE.0 0011127	The system is busy. Try again later.	The system is busy. Try again later.	Contact the administrator.

Stat us Code	Error Code	Error Message	Description	Solution
200	DEVPIPE.0011129	The selected task cannot be empty.	The selected task cannot be empty.	Check whether the task parameters are correct.
200	DEVPIPE.0011132	The selected task does not exist.	The selected task does not exist.	The selected task does not exist.
200	DEVPIPE.0011301	No permission.	No permission.	Check whether you have the permission required to perform this operation.
200	DEVPIPE.0011401	Pipeline does not exist.	Pipeline does not exist.	Pipeline does not exist.
200	DEVPIPE.0011408	Pipeline is running.	The pipeline is running and cannot be deleted.	Wait until the running is complete.

## 6.3 Obtaining a Project ID

### Obtaining a Project ID by Calling an API

A project ID can also be obtained by calling a specific API. For details, see [Querying Project Information](#).

The API for obtaining a project ID is **GET https://{Endpoint}/v3/projects/{Endpoint}**. **{Endpoint}** indicates the endpoint of IAM, which can be obtained from [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": "ap-southeast-3",

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

```
"links": {  
  "next": null,  
  "previous": null,  
  "self": "https://www.example.com/v3/projects"  
}
```

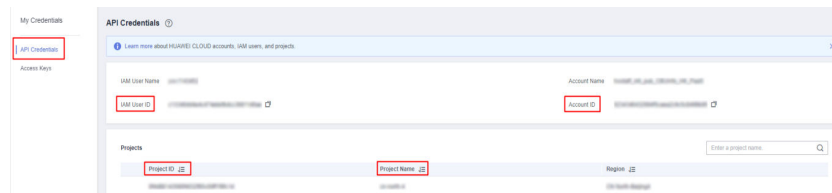
## Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and choose **My Credentials** from the drop-down list.

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

**Figure 6-1** Viewing project IDs



### NOTE

If there are multiple projects in one region, expand **Region** and obtain subproject IDs from the **Project ID** column.

## 6.4 Obtaining an Account ID

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

1. Log in to the management console.
2. Hover over the username in the upper right corner and choose **My Credentials** from the drop-down list.

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

# 7 Change History

---

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

Change History	Date
This issue is the first official release.	2022-09-30