

**CodeArts Build**

# API Reference

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# 1 Before You Start

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## 1.1 Overview

CodeArts Build 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 CodeArts Build, you can create, configure, and run build tasks with a few clicks. CodeArts Build also supports automated code retrieval, build, and packaging, as well as real-time status monitoring.

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

Before calling CodeArts Build APIs, ensure that you are familiar with CodeArts Build concepts. For details, see [CodeArts Build Overview](#).

## 1.2 API Calling

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

## 1.3 Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints of CodeArts Build, see [Table 1-1](#). Select a desired one based on the service requirements.

**Table 1-1** CodeArts Build endpoints

Region	Endpoint Region	Endpoint
LA-Mexico City2	la-north-2	devcloud.la-north-2.myhuaweicloud.com

Region	Endpoint Region	Endpoint
LA-Sao Paulo1	sa-brazil-1	devcloud.sa-brazil-1.myhuaweicloud.com
AP-Singapore	ap-southeast-3	devcloud.ap-southeast-3.myhuaweicloud.com

## 1.4 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 to use cloud services. Each IAM user has its own identity credentials (password and access keys).

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

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

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, network, and other 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.

- Build task

Build tasks are created during build and compilation.

- Enterprise project

Enterprise projects group and manage resources across regions. Resources in enterprise projects are logically isolated from each other and can be directly transferred between the projects.

For details about how to obtain enterprise project IDs and features, see the [Enterprise Management User Guide](#).



# 2 API Overview

**Table 2-1** CodeArts Build APIs

Type	API
Task APIs	<a href="#">Querying history of a build task in a specified period</a>
	<a href="#">Querying history of a build task</a>
	<a href="#">Downloading Keystore file</a>
	<a href="#">Querying task running status</a>
	<a href="#">Querying build tasks in a project</a>
	<a href="#">Executing a build task</a>
	<a href="#">Querying the latest successful build with a specified code repository</a>
	<a href="#">Querying details of a build record</a>
	<a href="#">Querying success rate of a build task in a specified period</a>
	<a href="#">Downloading build logs</a>
	<a href="#">Downloading logs of build actions</a>
	<a href="#">Obtaining information about build records</a>
	<a href="#">Obtaining details about build results</a>
	<a href="#">Stopping a build task</a>
	<a href="#">Deleting a build task</a>
	<a href="#">Disabling a build task</a>
	<a href="#">Creating a build task</a>
	<a href="#">Restoring a build task</a>
<a href="#">Updating a build task</a>	

Type	API
	<a href="#">Querying build templates</a>
	<a href="#">Creating a build template</a>
	<a href="#">Deleting a build template</a>
	<a href="#">Querying notifications</a>
	<a href="#">Updating notifications</a>
	<a href="#">Canceling notifications</a>
	<a href="#">Obtaining build task details</a>
	<a href="#">Downloading real-time build logs</a>
	<a href="#">Obtaining build records of a task</a>
Out-of-date APIs (unavailable soon)	<a href="#">Downloading build logs</a>
	<a href="#">Obtaining directed acyclic graphs of build records</a>
	<a href="#">Obtaining build records</a>
	<a href="#">Stopping a build task</a>

# 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 transmitted separately.

A request URI is in the following format: *{URI-scheme}://{Endpoint}]{resource-path}?{query-string}*

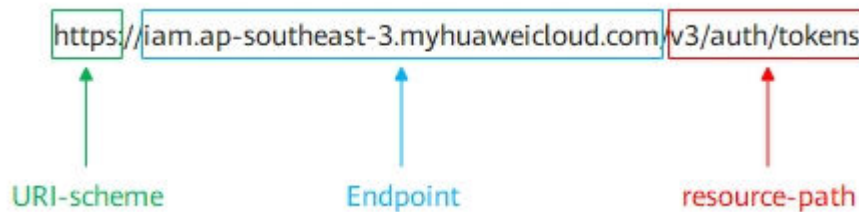
The following table describes the parameters.

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use <b>HTTPS</b> .
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from <b>Regions and Endpoints</b> .  For example, the endpoint of IAM in the <b>AP-Singapore</b> region is <b>iam.ap-southeast-3.myhuaweicloud.com</b> .
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the resource path of the API used to obtain a user token is <b>/v3/auth/tokens</b> .
query-string	Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of " <i>Parameter name=Parameter value</i> ". For example, <b>?limit=10</b> indicates that a maximum of 10 data records will be displayed.

For example, to obtain the IAM token in region **AP-Singapore**, obtain the endpoint of this region (`iam.ap-southeast-3.myhuaweicloud.com`) and find the **resource-path** (`/v3/auth/tokens`) in the URI 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

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

Common request header fields are as follows:

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

### NOTE

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

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

For example, 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.

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

## Request Body

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

The request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

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*, *\*\*\*\*\** (login password), and *xxxxxxxxx* (project name, for example, **ap-southeast-3**) with the actual values. Obtain a project name from [Regions and 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](#) to obtain request authentication.

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

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

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

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

## AK/SK-based Authentication

### NOTE

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

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

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

## 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](#).

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

## Response Header

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

**Figure 3-2** shows the response header fields for the API used to [obtain a user token](#). The **x-subject-token** header field is the desired user token. This token can then be used to authenticate 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
→ MIiYXQVJKoZlhvcNAQcCoIIYJCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6ijwMTktMDItMTNUMC
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgkklqO1wi4JlGzrpd18LGXK5bdfq4lqHCYb8P4NaY0NYejcAgzJVeFYtLWT1GSO0zxKZmlQHQj82HBqHdglZO9fuEbL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+
R
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.

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, the system returns an error code and message to you. The following shows the format of 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 Task APIs

## 4.1 Querying Build History in a Specified Period

### Function

This API is used to query the history of a build task in a specified period.

### Calling Method

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

### URI

GET /v3/jobs/{job\_id}/period-history

**Table 4-1** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

**Table 4-2** Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Page number, indicating that the query starts from this page. The value of <b>offset</b> is greater than or equal to 0.

Parameter	Mandatory	Type	Description
limit	Yes	Integer	Number of items displayed on each page. The value of <b>limit</b> is no more than 100.
start_time	Yes	String	Start time, which is in the YYYY-MM-DD format. The time range cannot exceed 30 days.
end_time	Yes	String	End time, which is in the YYYY-MM-DD format. The time range cannot exceed 30 days.

## Request Parameters

Table 4-3 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

Table 4-4 Response body parameters

Parameter	Type	Description
total	Integer	Total number of records.
history_records	Array of <b>history_records</b> objects	Build records.

**Table 4-5** history\_records

Parameter	Type	Description
record_id	String	Unique ID of a build record.
job_id	String	Task ID.
build_number	Integer	Build ID.
start_time	String	Build start time.
end_time	String	Build end time.
result	String	Build result.
branch	String	Branch.
commit_id	String	Code commit ID.
commit_message	String	Commit information from the user, available only when repositories are used in Repo.
executor	String	User who runs the build task.
trigger_type	String	Triggering mode, which may be a manual, scheduled, code commit, or pipeline trigger.

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

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

**Status code: 401****Table 4-7** Response body parameters

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

**Status code: 403**

**Table 4-8** Response body parameters

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

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

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

**Status code: 500****Table 4-10** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/jobs/{job_id}/period-history?  
start_time=2021-01-04&end_time=2021-01-14&offset=0&limit=10
```

## Example Responses

**Status code: 200**

OK

```
{  
  "total" : 1,  
  "history_records" : {  
    "record_id" : "20201230.1",  
    "job_id" : "f9d6c8466d614a9788e9a0acf6c15f46",  
    "build_number" : 55,  
    "start_time" : "2020-12-30T17:33:11+08:00",  
    "end_time" : "2020-12-30T17:33:27+08:00",  
    "result" : "FAILURE",  
    "branch" : "master",  
    "commit_id" : "2f37dd494927d2c6259417c58e5faeb72bfe7150",  
    "commit_message" : "test",  
    "executor" : "test",  
    "trigger_type" : "Manual triggering"  
  }  
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class ShowListPeriodHistorySolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowListPeriodHistoryRequest request = new ShowListPeriodHistoryRequest();
        request.withStartTime("<start_time>");
        request.withEndTime("<end_time>");
        request.withOffset("<offset>");
        request.withLimit("<limit>");
        try {
            ShowListPeriodHistoryResponse response = client.showListPeriodHistory(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

### Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *
```

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ShowListPeriodHistoryRequest()
        request.start_time = "<start_time>"
        request.end_time = "<end_time>"
        request.offset = <offset>
        request.limit = <limit>
        response = client.show_list_period_history(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowListPeriodHistoryRequest{}
    request.StartTime = "<start_time>"
    request.EndTime = "<end_time>"
    request.Offset = int32(<offset>)
    request.Limit = int32(<limit>)
    response, err := client.ShowListPeriodHistory(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.2 Querying Build History

## Function

This API is used to query the history of a build task.

## Calling Method

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

## URI

GET /v3/jobs/{job\_id}/history



**Table 4-11** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

**Table 4-12** Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Page number, indicating that the query starts from this page. The value of <b>offset</b> is greater than or equal to 0.
limit	Yes	Integer	Number of items displayed on each page. The value of <b>limit</b> is no more than 100.
interval	Yes	Integer	The time interval from the current date is less than or equal to 30 days.

## Request Parameters

**Table 4-13** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

**Table 4-14** Response body parameters

Parameter	Type	Description
history_records	Array of <a href="#">HistoryRecord</a> objects	Build records.
total	Integer	Total number of records.

**Table 4-15** HistoryRecord

Parameter	Type	Description
record_id	String	Unique ID of a build record.
job_id	String	Task ID.
build_number	Integer	Build ID.
start_time	String	Build start time.
end_time	String	Build end time.
result	String	Build result.

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

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

**Status code: 401****Table 4-17** Response body parameters

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

**Status code: 403**

**Table 4-18** Response body parameters

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

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

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

**Status code: 500****Table 4-20** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/jobs/{job_id}/history?interval=7&offset=0&limit=10
```

## Example Responses

**Status code: 200**

OK

```
{
  "total": 1,
  "history_records": {
    "record_id": "20201230.1",
    "job_id": "f9d6c8466d614a9788e9a0acf6c15f46",
    "build_number": 55,
    "start_time": "2020-12-30T17:33:11+08:00",
    "end_time": "2020-12-30T17:33:27+08:00",
    "result": "FAILURE"
  }
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class ShowListHistorySolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowListHistoryRequest request = new ShowListHistoryRequest();
        request.withInterval(<interval>);
        request.withOffset(<offset>);
        request.withLimit(<limit>);
        try {
            ShowListHistoryResponse response = client.showListHistory(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

```
ak = __import__('os').getenv("CLOUD_SDK_AK")
sk = __import__('os').getenv("CLOUD_SDK_SK")

credentials = BasicCredentials(ak, sk) \

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

try:
    request = ShowListHistoryRequest()
    request.interval = <interval>
    request.offset = <offset>
    request.limit = <limit>
    response = client.show_list_history(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowListHistoryRequest{}
    request.Interval = int32(<interval>)
    request.Offset = int32(<offset>)
    request.Limit = int32(<limit>)
    response, err := client.ShowListHistory(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.3 Downloading the Keystore File

## Function

This API is used to download the keystore file of a specified tenant.

## Calling Method

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

## URI

GET /v3/keystore

**Table 4-21** Query Parameters

Parameter	Mandatory	Type	Description
file_name	Yes	String	Name of the downloaded file.
domain_id	Yes	String	Tenant ID. It consists of 32 digits and lowercase letters.

## Request Parameters

**Table 4-22** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 400**

**Table 4-23** Response body parameters

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

**Status code: 401**

**Table 4-24** Response body parameters

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

**Status code: 403**

**Table 4-25** Response body parameters

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

**Status code: 404**

**Table 4-26** Response body parameters

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

**Status code: 500**

**Table 4-27** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/keystore?  
file_name=android.keystore&domain_id=60021bab32fd450aa2cb89226f425e06
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;  
import com.huaweicloud.sdk.codeartsbuild.v3.*;  
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;  
  
public class DownloadKeystoreSolution {  
  
    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);

CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
    .build();
DownloadKeystoreRequest request = new DownloadKeystoreRequest();
request.withFileName("<file_name>");
request.withDomainId("<domain_id>");
try {
    DownloadKeystoreResponse response = client.downloadKeystore(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = DownloadKeystoreRequest()
        request.file_name = "<file_name>"
        request.domain_id = "<domain_id>"
        response = client.download_keystore(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"
codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DownloadKeystoreRequest{}
    request.FileName = "<file_name>"
    request.DomainId = "<domain_id>"
    response, err := client.DownloadKeystore(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

## 4.4 Viewing Task Status

### Function

This API is used to query the running status of a task.

### Calling Method

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

### URI

GET /v3/jobs/{job\_id}/status

**Table 4-28** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

### Request Parameters

**Table 4-29** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

### Response Parameters

Status code: 200

**Table 4-30** Response body parameters

Parameter	Type	Description
result	Boolean	Task execution result.

**Status code: 400****Table 4-31** Response body parameters

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

**Status code: 401****Table 4-32** Response body parameters

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

**Status code: 403****Table 4-33** Response body parameters

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

**Status code: 404****Table 4-34** Response body parameters

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

**Status code: 500****Table 4-35** Response body parameters

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

**Example Requests**

```
GET https://{endpoint}/v3/jobs/901878212b1a49be9c1a1054c272762a/status
```

**Example Responses****Status code: 200**

OK

```
{  
  "result" : 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.codeartsbuild.v3.region.CodeArtsBuildRegion;  
import com.huaweicloud.sdk.codeartsbuild.v3.*;  
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;  
  
public class ShowJobStatusSolution {  
  
    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);  
  
        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ShowJobStatusRequest request = new ShowJobStatusRequest();
```

```
try {
    ShowJobStatusResponse response = client.showJobStatus(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ShowJobStatusRequest()
        response = client.show_job_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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
    codeartsbuild.CodeArtsBuildClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowJobStatusRequest{}
response, err := client.ShowJobStatus(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.5 Querying Build Tasks in a Project

## Function

This API is used to query build tasks in a project.

## Calling Method

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

## URI

GET /v3/{project\_id}/jobs

**Table 4-36** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	CodeArts project ID. It consists of 32 digits and lowercase letters.

**Table 4-37** Query Parameters

Parameter	Mandatory	Type	Description
page_index	Yes	Integer	Page number, indicating that the query starts from this page. The value of <b>page_index</b> is greater than or equal to 0.
page_size	Yes	Integer	Number of items displayed on each page. The value of <b>page_size</b> is less than or equal to 100.

## Request Parameters

**Table 4-38** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200



**Table 4-39** Response body parameters

Parameter	Type	Description
jobs	Array of <b>Job</b> objects	Task list.
total	Integer	Total number of tasks.

**Table 4-40** Job

Parameter	Type	Description
id	String	Task ID.
job_name	String	Task name.
job_creator	String	Job creator.
user_name	String	Username.
last_build_time	Number	Time of the last execution.
health_score	Integer	Health score.
source_code	String	Code source.
last_build_status	String	The latest build status.
is_finished	Boolean	Whether the task is complete.
disabled	Boolean	Whether the task is disabled.
favorite	Boolean	Whether the task is favorited.
is_modify	Boolean	Whether the role has permission for modifying the task.
is_delete	Boolean	Whether the role has permission for deleting the task.
is_execute	Boolean	Whether the role has permission for running the task.
is_copy	Boolean	Whether the role has permission for cloning the task.
is_forbidden	Boolean	Whether the role has permission for disabling the task.
is_view	Boolean	Whether the role has permission for viewing the task.

**Status code: 400**

**Table 4-41** Response body parameters

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

**Status code: 401****Table 4-42** Response body parameters

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

**Status code: 403****Table 4-43** Response body parameters

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

**Status code: 404****Table 4-44** Response body parameters

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

**Status code: 500****Table 4-45** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/6ecbc5bac7c8442fb3d2563d53c13582/jobs?page_index=1&page_size=10
```

## Example Responses

**Status code: 200**

OK

```
{
  "total" : 1,
  "jobs" : [ {
    "id" : "2a86c3c1ed18416399279fe6.....",
    "job_name" : "demo",
    "job_creator" : "ae22fd035f354cfa8d82a3f1.....",
    "user_name" : "test",
    "last_build_time" : 1608004535000,
    "health_score" : 75,
    "source_code" : "test",
    "last_build_status" : "blue",
    "is_finished" : true,
    "disabled" : true,
    "favorite" : true,
    "is_modify" : true,
    "is_delete" : true,
    "is_execute" : true,
    "is_copy" : true,
    "is_forbidden" : true,
    "is_view" : 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class ShowJobListByProjectIdSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
```

```
        .withCredential(auth)
        .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
        .build();
ShowJobListByProjectIdRequest request = new ShowJobListByProjectIdRequest();
request.withPageIndex(<page_index>);
request.withPageSize(<page_size>);
try {
    ShowJobListByProjectIdResponse response = client.showJobListByProjectId(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ShowJobListByProjectIdRequest()
        request.page_index = <page_index>
        request.page_size = <page_size>
        response = client.show_job_list_by_project_id(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

## Go

```
package main

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

```
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowJobListByProjectIdRequest{}
    request.PageIndex = int32(<page_index>)
    request.PageSize = int32(<page_size>)
    response, err := client.ShowJobListByProjectId(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

## 4.6 Running a Build Task

### Function

This API is used to run a build task, to which users can assign custom parameters.

### Calling Method

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

### URI

POST /v3/jobs/build

### Request Parameters

Table 4-46 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

Table 4-47 Request body parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID, which contains the 32 digits and letters at the end of the browser URL when the build task is edited.
parameter	No	Array of <a href="#">ParameterItem</a> objects	Custom parameter.
scm	No	<a href="#">Scm</a> object	Code information.

**Table 4-48** ParameterItem

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

**Table 4-49** Scm

Parameter	Mandatory	Type	Description
build_tag	No	String	Code tag.
build_commit_id	No	String	Code commit ID.

## Response Parameters

**Status code: 200**

**Table 4-50** Response body parameters

Parameter	Type	Description
octopus_job_name	String	Temporary task name.
actual_build_number	String	Number of actual builds.
daily_build_number	String	Daily build ID.

**Status code: 400**

**Table 4-51** Response body parameters

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

**Status code: 401**

**Table 4-52** Response body parameters

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

**Status code: 403****Table 4-53** Response body parameters

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

**Status code: 404****Table 4-54** Response body parameters

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

**Status code: 500****Table 4-55** Response body parameters

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

## Example Requests

Execute the build task whose task ID is **f9d6c8466d614a9788e9a0acf6c15f46**.  
The task uses the **codeBranch** code repository and the **master** branch.

```
POST https://{endpoint}/v3/jobs/build
{
  "job_id": "f9d6c8466d614a9788e9a0acf6c15f46",
  "parameter": [ {
    "name": "codeBranch",
    "value": "master"
  }
]
```



```
    }],  
    "scm" : {  
      "build_tag" : null,  
      "build_commit_id" : "build_commit_id"  
    }  
  }  
}
```

## Example Responses

**Status code: 200**

OK

```
{  
  "octopus_job_name" : "j_Oaqq...",  
  "actual_build_number" : "20",  
  "daily_build_number" : "20200612.20"  
}
```

## SDK Sample Code

The SDK sample code is as follows.

### Java

Execute the build task whose task ID is **f9d6c8466d614a9788e9a0acf6c15f46**. The task uses the **codeBranch** code repository and the **master** branch.

```
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.codeartsbuild.v3.region.CodeArtsBuildRegion;  
import com.huaweicloud.sdk.codeartsbuild.v3.*;  
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class RunJobSolution {  
    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);  
  
        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))  
            .build();  
        RunJobRequest request = new RunJobRequest();  
        RunJobRequestBody body = new RunJobRequestBody();  
        Scm scmbody = new Scm();  
        scmbody.withBuildCommitId("build_commit_id");  
        List<ParameterItem> listbodyParameter = new ArrayList<>();
```

```
listbodyParameter.add(
    new ParameterItem()
        .withName("codeBranch")
        .withValue("master")
);
body.withScm(scmbody);
body.withParameter(listbodyParameter);
body.withJobId("f9d6c8466d614a9788e9a0acf6c15f46");
request.withBody(body);
try {
    RunJobResponse response = client.runJob(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

Execute the build task whose task ID is **f9d6c8466d614a9788e9a0acf6c15f46**. The task uses the **codeBranch** code repository and the **master** branch.

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = RunJobRequest()
        scmbody = Scm(
            build_commit_id="build_commit_id"
        )
        listParameterbody = [
            ParameterItem(
                name="codeBranch",
                value="master"
            )
        ]
        request.body = RunJobRequestBody(
            scm=scmbody,
            parameter=listParameterbody,
            job_id="f9d6c8466d614a9788e9a0acf6c15f46"
```

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

## Go

Execute the build task whose task ID is **f9d6c8466d614a9788e9a0acf6c15f46**. The task uses the **codeBranch** code repository and the **master** branch.

```
package main

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

    request := &model.RunJobRequest{}
    buildCommitIdScm := "build_commit_id"
    scmbody := &model.Scm{
        BuildCommitId: &buildCommitIdScm,
    }
    var listParameterbody = []model.ParameterItem{
        {
            Name: "codeBranch",
            Value: "master",
        },
    },
    request.Body = &model.RunJobRequestBody{
        Scm: scmbody,
        Parameter: &listParameterbody,
        JobId: "f9d6c8466d614a9788e9a0acf6c15f46",
    }
    response, err := client.RunJob(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.7 Querying the Latest Successful Build with a Specified Code Repository

## Function

This API is used to query the latest successful build with a specified code repository.

## Calling Method

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

## URI

GET /v3/jobs/{project\_id}/last-history

**Table 4-56** Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	CodeArts project ID. It consists of 32 digits and lowercase letters.

**Table 4-57** Query Parameters

Parameter	Mandatory	Type	Description
repository_name	Yes	String	Name of the code repository.

## Request Parameters

**Table 4-58** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 200**

**Table 4-59** Response body parameters

Parameter	Type	Description
record_id	String	Unique ID of a build record.
job_id	String	Build task ID.
job_name	String	Build task name.
build_number	Integer	Build ID.
start_time	String	Build start time.
end_time	String	Build end time.
result	String	Build result.
commit_id	String	commitId

**Status code: 400**

**Table 4-60** Response body parameters

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

**Status code: 401****Table 4-61** Response body parameters

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

**Status code: 403****Table 4-62** Response body parameters

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

**Status code: 404****Table 4-63** Response body parameters

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

**Status code: 500****Table 4-64** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/jobs/6ecbc5bac7c8442fb3d2563d53c13582/last-history?repository_name=maven-demo
```

## Example Responses

**Status code: 200**

OK

```
{
  "record_id" : "20210722.16",
  "job_id" : "37be03edd1da430c8079504d546cc499",
  "job_name" : "Test task 01",
  "build_number" : 16,
  "start_time" : "2021-07-22T16:26:52+08:00",
  "end_time" : "2021-07-22T16:27:15+08:00",
  "result" : "SUCCESS",
  "commit_id" : "e311c54476e0e536f0ecdeeba8dc184216fa2057"
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class ShowLastHistorySolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowLastHistoryRequest request = new ShowLastHistoryRequest();
        request.withRepositoryName("<repository_name>");
        try {
            ShowLastHistoryResponse response = client.showLastHistory(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
```

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

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ShowLastHistoryRequest()
        request.repository_name = "<repository_name>"
        response = client.show_last_history(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
    codeartsbuild.CodeArtsBuildClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowLastHistoryRequest{}
request.RepositoryName = "<repository_name>"
response, err := client.ShowLastHistory(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.8 Querying Details of a Build Record

## Function

This API is used to query details of a build record.

## Calling Method

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

## URI

GET /v3/jobs/{job\_id}/{build\_number}/history-details

**Table 4-65** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.
build_number	Yes	Integer	Build number of the task, which automatically increases from 1 by 1 each time the build task is executed.

## Request Parameters

**Table 4-66** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 200**

**Table 4-67** Response body parameters

Parameter	Type	Description
job_name	String	Build task name.
build_number	Integer	Build ID.
project_id	String	ID of the project to which the build task belongs.
project_name	String	Name of the project to which the build task belongs.

Parameter	Type	Description
parameters	Map<String,String>	Map parameters in this build. As values of sensitive parameters are entered, asterisks (*) are returned in place of the input.
build_steps	Array of <a href="#">build_steps</a> objects	Details about the build actions of the task. Returned actions can be viewed on the build page.

**Table 4-68** build\_steps

Parameter	Type	Description
name	String	Action name.
status	String	Action status, which can be running, success, or error. The value is an empty string when the build action is not executed.
build_time	Integer	Duration of each action (ms).

**Status code: 400****Table 4-69** Response body parameters

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

**Status code: 401****Table 4-70** Response body parameters

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

**Status code: 403**

**Table 4-71** Response body parameters

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

**Status code: 404****Table 4-72** Response body parameters

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

**Status code: 500****Table 4-73** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/jobs/901878212b1a49be9c1a1054c272762a/1/history-details
```

## Example Responses

**Status code: 200**

OK

```
{
  "job_name": "Test task 01",
  "build_number": 5,
  "project_id": "6ecbc5bac7c8442fb3d2563d53c13582",
  "project_name": "test-project",
  "parameters": [ {
    "static_limit_param_name": "static_limit_param_value_1",
    "sentive_param_name": "*****",
    "no_static_param_name": "no_static_param_value",
    "static_param_name": "static_param_value",
    "no_static_limit_param_name": "no_static_limit_param_value_1"
  } ],
  "build_steps": [ {
    "name": "Code checkout",
    "status": "success",
    "build_time": 8366
  } ]
}
```

```
}, {  
  "name" : "Uploading Software Packages to Release Repos",  
  "status" : "",  
  "build_time" : 0  
}]  
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;  
import com.huaweicloud.sdk.codeartsbuild.v3.*;  
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;  
  
public class ShowHistoryDetailsSolution {  
    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);  
  
        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ShowHistoryDetailsRequest request = new ShowHistoryDetailsRequest();  
        try {  
            ShowHistoryDetailsResponse response = client.showHistoryDetails(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

### Python

```
# coding: utf-8  
  
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

```
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ShowHistoryDetailsRequest()
        response = client.show_history_details(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowHistoryDetailsRequest{}
    response, err := client.ShowHistoryDetails(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.9 Querying Success Rate of a Build Task in a Specified Period

## Function

This API is used to query success rate of a build task in a specified period.

## Calling Method

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

## URI

GET /v3/jobs/{job\_id}/success-ratio

**Table 4-74** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

**Table 4-75** Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time, which is in the YYYY-MM-DD format.
end_time	Yes	String	End time, which is in the YYYY-MM-DD format.

## Request Parameters

**Table 4-76** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

**Table 4-77** Response body parameters

Parameter	Type	Description
success_count	Integer	Number of successful builds.
total_count	Integer	Total number of builds.
success_ratio	Double	Task success rate, accurate to two decimal places.



**Status code: 400****Table 4-78** Response body parameters

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

**Status code: 401****Table 4-79** Response body parameters

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

**Status code: 403****Table 4-80** Response body parameters

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

**Status code: 404****Table 4-81** Response body parameters

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

**Status code: 500****Table 4-82** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error description.

## Example Requests

```
GET https://{endpoint}/v3/jobs/{job_id}/success-ratio?start_time=2021-12-01&end_time=2021-12-01
```

## Example Responses

**Status code: 200**

OK

```
{
  "success_count" : 2,
  "total_count" : 3,
  "success_ratio" : 0.67
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class ShowJobSuccessRatioSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowJobSuccessRatioRequest request = new ShowJobSuccessRatioRequest();
        request.withStartTime("<start_time>");
        request.withEndTime("<end_time>");
        try {
            ShowJobSuccessRatioResponse response = client.showJobSuccessRatio(request);
            System.out.println(response.toString());
        }
    }
}
```

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

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ShowJobSuccessRatioRequest()
        request.start_time = "<start_time>"
        request.end_time = "<end_time>"
        response = client.show_job_success_ratio(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
    codeartsbuild.CodeArtsBuildClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowJobSuccessRatioRequest{
    request.StartTime = "<start_time>"
    request.EndTime = "<end_time>"
}
response, err := client.ShowJobSuccessRatio(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.10 Downloading All Build Logs

## Function

This API is used to download all build logs.

## Calling Method

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

## URI

GET /v4/{record\_id}/download-log

**Table 4-83** Path Parameters

Parameter	Mandatory	Type	Description
record_id	Yes	String	Record ID. It consists of 36 digits, lowercase letters, and hyphens (-).

**Table 4-84** Query Parameters

Parameter	Mandatory	Type	Description
log_level	No	String	Log level. Its value can be <b>INFO</b> or <b>DEBUG</b> .

## Request Parameters

**Table 4-85** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 400

**Table 4-86** Response body parameters

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

**Status code: 401****Table 4-87** Response body parameters

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

**Status code: 403****Table 4-88** Response body parameters

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

**Status code: 404****Table 4-89** Response body parameters

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

**Status code: 500****Table 4-90** Response body parameters

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

**Example Requests**

```
GET https://{endpoint}/v4/2cc26382-b2cb-4234-8eb0-b37d362f4d4c/download-log
```

## Example Responses

None

## Status Codes

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

## Error Codes

See [Error Codes](#).

# 4.11 Downloading Logs of Build Actions

## Function

This API is used to download logs of build actions.

## Calling Method

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

## URI

GET /v4/{record\_id}/task-log

**Table 4-91** Path Parameters

Parameter	Mandatory	Type	Description
record_id	Yes	String	Record ID. It consists of 36 digits, lowercase letters, and hyphens (-).

**Table 4-92** Query Parameters

Parameter	Mandatory	Type	Description
task_name	Yes	String	Action name.
log_level	No	String	Log level. Its value can be <b>INFO</b> or <b>DEBUG</b> .

## Request Parameters

**Table 4-93** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 400**

**Table 4-94** Response body parameters

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

**Status code: 401**

**Table 4-95** Response body parameters

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

**Status code: 403**



**Table 4-96** Response body parameters

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

**Status code: 404****Table 4-97** Response body parameters

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

**Status code: 500****Table 4-98** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v4/2cc26382-b2cb-4234-8eb0-b37d362f4d4c/task-log
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;
```

```
public class DownloadTaskLogSolution {
    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        DownloadTaskLogRequest request = new DownloadTaskLogRequest();
        request.withTaskName("<task_name>");
        request.withLogLevel("<log_level>");
        try {
            DownloadTaskLogResponse response = client.downloadTaskLog(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = DownloadTaskLogRequest()
        request.task_name = "<task_name>"
```

```
request.log_level = "<log_level>"
response = client.download_task_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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DownloadTaskLogRequest{}
    request.TaskName = "<task_name>"
    logLevelRequest := "<log_level>"
    request.LogLevel = &logLevelRequest
    response, err := client.DownloadTaskLog(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.12 Obtaining Information About Build Records

## Function

This API is used to obtain build record information.

## Calling Method

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

## URI

GET /v4/jobs/{job\_id}/{build\_no}/record-info

**Table 4-99** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.
build_no	Yes	Integer	Build number of the task, which automatically increases from 1 by 1 each time the build task is executed.

## Request Parameters

**Table 4-100** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

**Table 4-101** Response body parameters

Parameter	Type	Description
status	String	Status.
error	Object	Error.
result	<b>result</b> object	Result.

**Table 4-102** result

Parameter	Type	Description
id	String	id
build_project_id	String	Build project ID, which uniquely corresponds to <b>codeci_job_id</b> .
build_record_id	String	Build record ID.
parent_record_id	String	Parent build record ID.
devcloud_project_id	String	Project ID.
codeci_job_id	String	Build task ID, which uniquely corresponds to <b>build_project_id</b> .
user_id	String	User ID.
build_no	Integer	Build ID.

Parameter	Type	Description
daily_build_num	String	Daily build ID, which starts from 1 every day.
execution_id	String	CloudOctopus task ID.
repo_name	String	Repository name.
repo_id	String	Repository ID.
branch	String	Repository branch.
tag	String	Repository tag.
commit	String	Repository commit ID.
commit_message	String	Information about the repository commit.
commit_create_time	String	Commit creation time.
trigger_type	String	Trigger type.
build_type	String	Build type.
status	String	Build status.
domain_id	String	Tenant ID.
create_time	String	Task creation time.
schedule_time	String	Time for delivering builds.
queued_time	String	Build queuing duration.
start_time	String	Build start time.
runnable_time	String	Time when CloudOctopus really starts building.
finish_time	String	Build end time.
duration	Integer	Build duration.
record_status	String	Record status.
use_private_slave	Integer	Whether to use a custom executor.
region	String	Region of the tenant.
err_msg	String	Error message.
build_config_type	String	Build configuration type, which can be <b>YAML</b> or <b>ACTION</b> .

**Status code: 400**

**Table 4-103** Response body parameters

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

**Status code: 401****Table 4-104** Response body parameters

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

**Status code: 403****Table 4-105** Response body parameters

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

**Status code: 404****Table 4-106** Response body parameters

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

**Status code: 500****Table 4-107** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v4/jobs/cb5fa20de5fd4cf8be681d4bd6fdd2f6/61/record-info
```

## Example Responses

**Status code: 200**

OK

```
{
  "status": "success",
  "result": {
    "id": "eb9d73c7-61b3-4823-b476-a7c00c493b8a",
    "build_project_id": "31581e9f-5772-4053-a50c-d5690578c8fd",
    "build_record_id": "9d6169b9-022d-458c-9dc8-48cc94cc4083",
    "parent_record_id": null,
    "devcloud_project_id": "b4d3971c3988463b865f6f920846149e",
    "codeci_job_id": "68491d9bc97b4774adb93e29b46d2dc6",
    "user_id": "ae22fd035f354cfa8d82a3f1c8940446",
    "build_no": 532,
    "daily_build_num": "20221011.29",
    "execution_id": "j_YE1bu9Z7",
    "repo_name": "maven",
    "repo_id": "2111616838",
    "branch": "buildflow_env",
    "tag": null,
    "commit": null,
    "commit_message": null,
    "commit_create_time": "2022-10-11T08:28:42.000+00:00",
    "trigger_type": "MANUAL",
    "build_type": "branch",
    "status": "SUCCESS",
    "domain_id": "60021bab32fd450aa2cb89226f425e06",
    "create_time": "2022-10-11T08:28:42.000+00:00",
    "schedule_time": "2022-10-11T08:28:45.000+00:00",
    "queued_time": "2022-10-11T08:28:45.000+00:00",
    "start_time": "2022-10-11T08:28:47.000+00:00",
    "runnable_time": "2022-10-11T08:16:04.000+00:00",
    "finish_time": "2022-10-11T08:30:27.000+00:00",
    "duration": 100068,
    "record_status": null,
    "use_private_slave": 0,
    "region": "cn-north-7",
    "err_msg": null,
    "build_config_type": "YAML"
  }
}
```

## Status Codes

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



## Error Codes

See [Error Codes](#).

# 4.13 Obtaining Details About Build Results

## Function

This API is used to obtain details about build results.

## Calling Method

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

## URI

GET /v3/jobs/{job\_id}/{build\_no}/output-info

**Table 4-108** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.
build_no	Yes	Integer	Build number of the task, which automatically increases from 1 by 1 each time the build task is executed.

## 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. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

Table 4-110 Response body parameters

Parameter	Type	Description
status	String	Status.
error	Object	Error.
result	<b>result</b> object	Result.

Table 4-111 result

Parameter	Type	Description
package_info	<b>OutPutResult</b> object	Build result information.
package_infos	Map<String, <b>OutPutResult</b> >	Second-party package information.
image_infos	Map<String, <b>OutPutResult</b> >	Image package information.

Table 4-112 OutPutResult

Parameter	Type	Description
project_id	String	ID of the project to which the build task belongs.
name	String	Package name.
version	String	Package version.
package_type	String	Package type.
uri	String	Package path.
type	String	Type.
daily_build_number	String	Build ID, which starts from 1 every day.

Status code: 400

**Table 4-113** Response body parameters

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

**Status code: 401****Table 4-114** Response body parameters

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

**Status code: 403****Table 4-115** Response body parameters

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

**Status code: 404****Table 4-116** Response body parameters

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

**Status code: 500****Table 4-117** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/jobs/cb5fa20de5fd4cf8be681d4bd6fdd2f6/61/output-info
```

## Example Responses

**Status code: 200**

OK

```
{
  "result" : {
    "package_info" : null,
    "package_infos" : {
      "additionalProp1" : {
        "project_id" : "a287e712be6c404ca26e5f69040fa12b",
        "name" : "a287e712be6c404ca26e5f69040fa12b",
        "version" : "a287e712be6c404ca26e5f69040fa12b",
        "package_type" : "a287e712be6c404ca26e5f69040fa12b",
        "uri" : "a287e712be6c404ca26e5f69040fa12b",
        "type" : "a287e712be6c404ca26e5f69040fa12b",
        "daily_build_number" : "a287e712be6c404ca26e5f69040fa12b"
      }
    },
    "image_infos" : null
  },
  "error" : null,
  "status" : "success"
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class ShowOutputInfoSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
    }
}
```

```
ShowOutputInfoRequest request = new ShowOutputInfoRequest();
try {
    ShowOutputInfoResponse response = client.showOutputInfo(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ShowOutputInfoRequest()
        response = client.show_output_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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
    codeartsbuild.CodeArtsBuildClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowOutputInfoRequest{}
response, err := client.ShowOutputInfo(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.14 Stopping a Build Task

## Function

This API is used to stop a build task.

## Calling Method

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

## URI

POST /v3/jobs/{job\_id}/{build\_no}/stop

**Table 4-118** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.
build_no	Yes	Integer	Build number of the task, which automatically increases from 1 by 1 each time the build task is executed.

## Request Parameters

**Table 4-119** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

**Table 4-120** Response body parameters

Parameter	Type	Description
success	Boolean	Whether the build is stopped successfully.
result	String	Returned result.

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

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

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

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

**Status code: 403****Table 4-123** Response body parameters

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

**Status code: 404****Table 4-124** Response body parameters

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

**Status code: 500****Table 4-125** Response body parameters

Parameter	Type	Description
error_code	String	Error code.



Parameter	Type	Description
error_msg	String	Error description.

## Example Requests

```
POST https://{endpoint}/v3/jobs/cb5fa20de5fd4cf8be681d4bd6fdd2f6/2/stop
```

## Example Responses

**Status code: 200**

OK

```
{
  "success" : true,
  "result" : ""
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class StopBuildJobSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        StopBuildJobRequest request = new StopBuildJobRequest();
        try {
            StopBuildJobResponse response = client.stopBuildJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
```

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

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = StopBuildJobRequest()
        response = client.stop_build_job(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
    codeartsbuild.CodeArtsBuildClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.StopBuildJobRequest{}
response, err := client.StopBuildJob(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.15 Deleting a Build Task

## Function

This API is used to delete a build task.

## Calling Method

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

## URI

POST /v3/jobs/{job\_id}/delete

**Table 4-126** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

## Request Parameters

**Table 4-127** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

**Table 4-128** Response body parameters

Parameter	Type	Description
result	<a href="#">result</a> object	Result.
status	String	Status information.

**Table 4-129** result

Parameter	Type	Description
job_id	String	Build task ID.
project_id	String	ID of the project to which the build task belongs.

**Status code: 400****Table 4-130** Response body parameters

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

**Status code: 401****Table 4-131** Response body parameters

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

**Status code: 403****Table 4-132** Response body parameters

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

**Status code: 404****Table 4-133** Response body parameters

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

**Status code: 500****Table 4-134** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error description.

## Example Requests

```
POST https://{endpoint}/v3/jobs/cb5fa20de5fd4cf8be681d4bd6fdd2f6/delete
```

## Example Responses

**Status code: 200**

OK

```
{
  "status" : "success",
  "result" : {
    "job_id" : "f9d6c8466d614a9788e9a0acf6c15f46",
    "project_id" : "b4d3971c3988463b865f6f920846149e"
  }
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class DeleteBuildJobSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteBuildJobRequest request = new DeleteBuildJobRequest();
        try {
            DeleteBuildJobResponse response = client.deleteBuildJob(request);
            System.out.println(response.toString());
        }
    }
}
```

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

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = DeleteBuildJobRequest()
        response = client.delete_build_job(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
    codeartsbuild.CodeArtsBuildClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.DeleteBuildJobRequest{}
response, err := client.DeleteBuildJob(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.16 Disabling a Build Task

## Function

This API is used to disable a build task.

## Calling Method

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



## URI

POST /v3/jobs/{job\_id}/disable

**Table 4-135** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

## Request Parameters

**Table 4-136** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 200**

**Table 4-137** Response body parameters

Parameter	Type	Description
status	String	Returned result status.

**Status code: 400**

**Table 4-138** Response body parameters

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

**Status code: 401****Table 4-139** Response body parameters

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

**Status code: 403****Table 4-140** Response body parameters

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

**Status code: 404****Table 4-141** Response body parameters

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

**Status code: 500****Table 4-142** Response body parameters

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

**Example Requests**

```
POST https://{endpoint}/v3/jobs/cb5fa20de5fd4cf8be681d4bd6fdd2f6/disable
```

**Example Responses****Status code: 200**

OK

```
{  
  "status": "success"  
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;  
import com.huaweicloud.sdk.codeartsbuild.v3.*;  
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;  
  
public class DisableBuildJobSolution {  
    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);  
  
        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))  
            .build();  
        DisableBuildJobRequest request = new DisableBuildJobRequest();  
        try {  
            DisableBuildJobResponse response = client.disableBuildJob(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

### Python

```
# coding: utf-8  
  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartsbuild.v3 import *
```

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = DisableBuildJobRequest()
        response = client.disable_build_job(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DisableBuildJobRequest{}
    response, err := client.DisableBuildJob(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.17 Restoring a Build Task

## Function

This API is used to restore a build task.

## Calling Method

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

## URI

POST /v3/jobs/{job\_id}/recover

**Table 4-143** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

## 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. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 200**

**Table 4-145** Response body parameters

Parameter	Type	Description
status	String	Returned result status.

**Status code: 400**

**Table 4-146** Response body parameters

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

**Status code: 401**

**Table 4-147** Response body parameters

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

**Status code: 403**

**Table 4-148** Response body parameters

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

**Status code: 404****Table 4-149** Response body parameters

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

**Status code: 500****Table 4-150** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/jobs/cb5fa20de5fd4cf8be681d4bd6fdd2f6/recover
```

## Example Responses

**Status code: 200**

OK

```
{  
  "status": "success"  
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class EnableBuildJobSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        EnableBuildJobRequest request = new EnableBuildJobRequest();
        try {
            EnableBuildJobResponse response = client.enableBuildJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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



```
try:
    request = EnableBuildJobRequest()
    response = client.enable_build_job(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.EnableBuildJobRequest{}
    response, err := client.EnableBuildJob(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.18 Creating a Build Task

## Function

This API is used to create a build task.

## Calling Method

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

## URI

POST /v3/jobs/create

## Request Parameters

**Table 4-151** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

**Table 4-152** Request body parameters

Parameter	Mandatory	Type	Description
arch	Yes	String	Architecture.

Parameter	Mandatory	Type	Description
project_id	Yes	String	ID of the project to which the build task belongs.
job_name	Yes	String	Task name.
auto_update_sub_module	No	String	Whether to automatically update submodules.
flavor	No	String	Executor flavors.
parameters	No	Array of <a href="#">CreateBuildJobParameter</a> objects	Parameters for build execution.
scms	No	Array of <a href="#">CreateBuildJobScm</a> objects	SCMs of build execution.
steps	Yes	Array of <a href="#">CreateBuildJobSteps</a> objects	Build actions.
host_type	No	String	Host type.
build_config_type	No	String	Build configuration type.

**Table 4-153** CreateBuildJobParameter

Parameter	Mandatory	Type	Description
name	No	String	Parameter definition name. The default value is <b>hudson.model.StringParameterDefinition</b> .
params	No	Array of <a href="#">CreateBuildJobParameterParam</a> objects	Subparameters of build execution parameters.

**Table 4-154** CreateBuildJobParameterParam

Parameter	Mandatory	Type	Description
name	No	String	Parameter field name.

Parameter	Mandatory	Type	Description
value	No	String	Parameter field value.
limits	No	Array of <a href="#">LimitsParam</a> objects	Restrictions on enumeration parameters.

**Table 4-155** LimitsParam

Parameter	Mandatory	Type	Description
disable	No	String	Whether the configuration takes effect. The default value is <b>0</b> , indicating that the configuration takes effect.
display_name	No	String	Parameter display name.
name	No	String	Parameter name.

**Table 4-156** CreateBuildJobScm

Parameter	Mandatory	Type	Description
branch	No	String	Branch.
url	Yes	String	Code repository address.
repo_id	No	String	Repo ID.
web_url	No	String	HTTP address of the code repository.
scm_type	Yes	String	Repository type, such as Repo and GitHub.
is_auto_build	No	Boolean	Whether to enable auto build.
build_type	No	String	Build type.
depth	No	String	Clone depth.
end_point_id	No	String	endpointId
source	No	String	source

**Table 4-157** CreateBuildJobSteps

Parameter	Mandatory	Type	Description
properties	No	Map<String,Object>	Build action.
module_id	Yes	String	Build module ID.
name	Yes	String	Build module name.
version	No	String	Build version.
enable	No	Boolean	Enable or not.

## Response Parameters

**Status code: 200**

**Table 4-158** Response body parameters

Parameter	Type	Description
result	<a href="#">result</a> object	Result.
status	String	Status information.
error	String	Error message.

**Table 4-159** result

Parameter	Type	Description
job_id	String	Build task ID.

**Status code: 400**

**Table 4-160** Response body parameters

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

**Status code: 401**

**Table 4-161** Response body parameters

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

**Status code: 403****Table 4-162** Response body parameters

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

**Status code: 404****Table 4-163** Response body parameters

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

**Status code: 500****Table 4-164** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/jobs/create
```

```
{
  "arch": "x86-64",
  "project_id": "a287e712be6c404ca26e5f69040fa12b",
  "job_name": "examplejob",
  "auto_update_sub_module": "false",
  "flavor": "2u8g",
  "parameters": [ {
    "name": "hudson.model.StringParameterDefinition",
```

```
"params" : [ {
  "name" : "name",
  "value" : "codeBranch"
}, {
  "name" : "type",
  "value" : "normalparam"
}, {
  "name" : "defaultValue",
  "value" : "master"
}, {
  "name" : "description",
  "value" : "description"
}, {
  "name" : "deletion",
  "value" : "false"
}, {
  "name" : "defaults",
  "value" : "true"
}, {
  "name" : "staticVar",
  "value" : "false"
}, {
  "name" : "sensitiveVar",
  "value" : "false"
}
]
}],
"scms" : [ {
  "branch" : "master",
  "url" : "git@codehub.devcloud.cn-north-7.ulanhqab.huawei.com:so-so-test00001/an.git",
  "repo_id" : "2111746211",
  "web_url" : "https://codehub.devcloud.cn-north-7.ulanhqab.huawei.com/codehub/2111746211/home",
  "scm_type" : "codehub",
  "is_auto_build" : false,
  "build_type" : "branch",
  "depth" : "1"
}
],
"steps" : [ {
  "properties" : null,
  "module_id" : "devcloud2018.codeci_action_20043.action",
  "name" : "Build with Maven",
  "version" : "20231001.6",
  "enable" : true
}
],
"host_type" : "devcloud"
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "result" : {
    "job_id" : "db8467d972cc47f7a1bd2a3a3e77596a"
  },
  "error" : null,
  "status" : "success"
}
```

## Status Codes

Status Code	Description
200	OK

Status Code	Description
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.19 Updating a Build Task

## Function

This API is used to update the running status of a build task.

## Calling Method

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

## URI

POST /v3/jobs/update

## Request Parameters

**Table 4-165** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .



**Table 4-166** Request body parameters

Parameter	Mandatory	Type	Description
arch	Yes	String	Architecture.
project_id	Yes	String	ID of the project to which the build task belongs.
job_name	Yes	String	Task name.
job_id	Yes	String	Build task ID.
auto_update_sub_module	No	String	Whether to automatically update submodules.
flavor	No	String	Executor flavors.
parameters	No	Array of <b>UpdateBuildJobParameter</b> objects	Parameters for build execution.
scms	No	Array of <b>UpdateBuildJobScm</b> objects	SCMs of build execution.
steps	Yes	Array of <b>UpdateBuildJobSteps</b> objects	Build actions.
host_type	No	String	Host type.
build_config_type	No	String	Build configuration type.

**Table 4-167** UpdateBuildJobParameter

Parameter	Mandatory	Type	Description
name	No	String	Parameter definition name. The default value is <b>hudson.model.StringParameterDefinition</b> .
params	No	Array of <b>UpdateBuildJobParameterParam</b> objects	Subparameters of build execution parameters.

**Table 4-168** UpdateBuildJobParameterParam

Parameter	Mandatory	Type	Description
name	No	String	Parameter field name.
value	No	String	Parameter field value.
limits	No	Array of <a href="#">LimitsParam</a> objects	Restrictions on enumeration parameters.

**Table 4-169** LimitsParam

Parameter	Mandatory	Type	Description
disable	No	String	Whether the configuration takes effect. The default value is <b>0</b> , indicating that the configuration takes effect.
display_name	No	String	Parameter display name.
name	No	String	Parameter name.

**Table 4-170** UpdateBuildJobScm

Parameter	Mandatory	Type	Description
branch	No	String	Branch.
url	Yes	String	Code repository address.
repo_id	No	String	Repo ID.
web_url	No	String	HTTP address of the code repository.
scm_type	Yes	String	Repository type, such as Repo and GitHub.
is_auto_build	No	Boolean	Whether to enable auto build.
build_type	No	String	Build type.
depth	No	String	Clone depth.
end_point_id	No	String	endpointId
source	No	String	source

**Table 4-171** UpdateBuildJobSteps

Parameter	Mandatory	Type	Description
properties	No	Map<String,Object>	Build action.
module_id	Yes	String	Build module ID.
name	Yes	String	Build module name.
version	No	String	Build version.
enable	No	Boolean	Enable or not.

## Response Parameters

**Status code: 200**

**Table 4-172** Response body parameters

Parameter	Type	Description
result	<a href="#">result</a> object	Result.
status	String	Status information.
error	String	Error message.

**Table 4-173** result

Parameter	Type	Description
job_id	String	Build task ID.

**Status code: 400**

**Table 4-174** Response body parameters

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

**Status code: 401**

**Table 4-175** Response body parameters

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

**Status code: 403****Table 4-176** Response body parameters

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

**Status code: 404****Table 4-177** Response body parameters

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

**Status code: 500****Table 4-178** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/jobs/update
{
  "job_id": "db8467d972cc47f7a1bd2a3a3e77596a",
  "arch": "x86-64",
  "project_id": "a287e712be6c404ca26e5f69040fa12b",
  "job_name": "examplejob",
  "auto_update_sub_module": "false",
  "flavor": "2u8g",
  "parameters": [ {
```

```
"name" : "hudson.model.StringParameterDefinition",
"params" : [ {
  "name" : "name",
  "value" : "codeBranch"
}, {
  "name" : "type",
  "value" : "normalparam"
}, {
  "name" : "defaultValue",
  "value" : "master"
}, {
  "name" : "description",
  "value" : "description"
}, {
  "name" : "deletion",
  "value" : "false"
}, {
  "name" : "defaults",
  "value" : "true"
}, {
  "name" : "staticVar",
  "value" : "false"
}, {
  "name" : "sensitiveVar",
  "value" : "false"
} ]
}],
"scms" : [ {
  "branch" : "master",
  "url" : "git@codehub.devcloud.cn-north-7.ulanqab.huawei.com:soso-test00001/an.git",
  "repo_id" : "2111746211",
  "web_url" : "https://codehub.devcloud.cn-north-7.ulanqab.huawei.com/codehub/2111746211/home",
  "scm_type" : "codehub",
  "is_auto_build" : false,
  "build_type" : "branch",
  "depth" : "1"
} ],
"steps" : [ {
  "properties" : null,
  "module_id" : "devcloud2018.codeci_action_20043.action",
  "name" : "Build with Maven",
  "version" : "20231001.6",
  "enable" : true
} ],
"host_type" : "devcloud"
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "result" : {
    "job_id" : "db8467d972cc47f7a1bd2a3a3e77596a"
  },
  "error" : null,
  "status" : "success"
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

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

public class UpdateBuildJobSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateBuildJobRequest request = new UpdateBuildJobRequest();
        UpdateBuildJobRequestBody body = new UpdateBuildJobRequestBody();
        List<UpdateBuildJobSteps> listbodySteps = new ArrayList<>();
        listbodySteps.add(
            new UpdateBuildJobSteps()
                .withModuleId("devcloud2018.codeci_action_20043.action")
                .withName("Build with Maven")
                .withVersion("20231001.6")
                .withEnable(true)
        );
        List<UpdateBuildJobScm> listbodyScms = new ArrayList<>();
        listbodyScms.add(
            new UpdateBuildJobScm()
                .withBranch("master")
                .withUrl("git@codehub.devcloud.cn-north-7.ulanhqab.huawei.com:soso-test00001/an.git")
                .withRepoId("2111746211")
                .withWebUrl("https://codehub.devcloud.cn-north-7.ulanhqab.huawei.com/codehub/2111746211/
home")
                .withScmType("codehub")
                .withIsAutoBuild(false)
                .withBuildType("branch")
                .withDepth("1")
        );
        List<UpdateBuildJobParameterParam> listParametersParams = new ArrayList<>();
        listParametersParams.add(
            new UpdateBuildJobParameterParam()
                .withName("name")
                .withValue("codeBranch")
        );
        listParametersParams.add(
            new UpdateBuildJobParameterParam()
                .withName("type")
                .withValue("normalparam")
        );
        listParametersParams.add(
```

```
        new UpdateBuildJobParameterParam()
            .withName("defaultValue")
            .withValue("master")
    );
    listParametersParams.add(
        new UpdateBuildJobParameterParam()
            .withName("description")
            .withValue("description")
    );
    listParametersParams.add(
        new UpdateBuildJobParameterParam()
            .withName("deletion")
            .withValue("false")
    );
    listParametersParams.add(
        new UpdateBuildJobParameterParam()
            .withName("defaults")
            .withValue("true")
    );
    listParametersParams.add(
        new UpdateBuildJobParameterParam()
            .withName("staticVar")
            .withValue("false")
    );
    listParametersParams.add(
        new UpdateBuildJobParameterParam()
            .withName("sensitiveVar")
            .withValue("false")
    );
    List<UpdateBuildJobParameter> listbodyParameters = new ArrayList<>();
    listbodyParameters.add(
        new UpdateBuildJobParameter()
            .withName("hudson.model.StringParameterDefinition")
            .withParams(listParametersParams)
    );
    body.withHostType("devcloud");
    body.withSteps(listbodySteps);
    body.withScms(listbodyScms);
    body.withParameters(listbodyParameters);
    body.withFlavor("2u8g");
    body.withAutoUpdateSubModule("false");
    body.withJobId("db8467d972cc47f7a1bd2a3a3e77596a");
    body.withJobName("examplejob");
    body.withProjectId("a287e712be6c404ca26e5f69040fa12b");
    body.withArch("x86-64");
    request.withBody(body);
    try {
        UpdateBuildJobResponse response = client.updateBuildJob(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
    }
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
```

```
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = UpdateBuildJobRequest()
        listStepsbody = [
            UpdateBuildJobSteps(
                module_id="devcloud2018.codeci_action_20043.action",
                name="Build with Maven",
                version="20231001.6",
                enable=True
            )
        ]
        listScmsbody = [
            UpdateBuildJobScm(
                branch="master",
                url="git@codehub.devcloud.cn-north-7.ulanzab.huawei.com:soso-test00001/an.git",
                repo_id="2111746211",
                web_url="https://codehub.devcloud.cn-north-7.ulanzab.huawei.com/codehub/2111746211/
home",
                scm_type="codehub",
                is_auto_build=False,
                build_type="branch",
                depth="1"
            )
        ]
        listParamsParameters = [
            UpdateBuildJobParameterParam(
                name="name",
                value="codeBranch"
            ),
            UpdateBuildJobParameterParam(
                name="type",
                value="normalparam"
            ),
            UpdateBuildJobParameterParam(
                name="defaultValue",
                value="master"
            ),
            UpdateBuildJobParameterParam(
                name="description",
                value="description"
            ),
            UpdateBuildJobParameterParam(
                name="deletion",
                value="false"
            ),
            UpdateBuildJobParameterParam(
                name="defaults",
                value="true"
            ),
            UpdateBuildJobParameterParam(
                name="staticVar",
```



```
        value="false"
    ),
    UpdateBuildJobParameterParam(
        name="sensitiveVar",
        value="false"
    )
]
listParametersbody = [
    UpdateBuildJobParameter(
        name="hudson.model.StringParameterDefinition",
        params=listParamsParameters
    )
]
request.body = UpdateBuildJobRequestBody(
    host_type="devcloud",
    steps=listStepsbody,
    scms=listScmsbody,
    parameters=listParametersbody,
    flavor="2u8g",
    auto_update_sub_module="false",
    job_id="db8467d972cc47f7a1bd2a3a3e77596a",
    job_name="examplejob",
    project_id="a287e712be6c404ca26e5f69040fa12b",
    arch="x86-64"
)
response = client.update_build_job(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateBuildJobRequest{
        versionSteps:= "20231001.6"
        enableSteps:= true
        var listStepsbody = []model.UpdateBuildJobSteps{
```

```
{
  ModuleId: "devcloud2018.codeci_action_20043.action",
  Name: "Build with Maven",
  Version: &versionSteps,
  Enable: &enableSteps,
},
}
branchScms:= "master"
repoldScms:= "2111746211"
webUrlScms:= "https://codehub.devcloud.cn-north-7.ulanhqab.huawei.com/codehub/2111746211/home"
isAutoBuildScms:= false
buildTypeScms:= "branch"
depthScms:= "1"
var listScmsbody = []model.UpdateBuildJobScm{
  {
    Branch: &branchScms,
    Url: "git@codehub.devcloud.cn-north-7.ulanhqab.huawei.com:so-so-test00001/an.git",
    Repold: &repoldScms,
    WebUrl: &webUrlScms,
    ScmType: "codehub",
    IsAutoBuild: &isAutoBuildScms,
    BuildType: &buildTypeScms,
    Depth: &depthScms,
  },
}
nameParams:= "name"
valueParams:= "codeBranch"
nameParams1:= "type"
valueParams1:= "normalparam"
nameParams2:= "defaultValue"
valueParams2:= "master"
nameParams3:= "description"
valueParams3:= "description"
nameParams4:= "deletion"
valueParams4:= "false"
nameParams5:= "defaults"
valueParams5:= "true"
nameParams6:= "staticVar"
valueParams6:= "false"
nameParams7:= "sensitiveVar"
valueParams7:= "false"
var listParamsParameters = []model.UpdateBuildJobParameterParam{
  {
    Name: &nameParams,
    Value: &valueParams,
  },
  {
    Name: &nameParams1,
    Value: &valueParams1,
  },
  {
    Name: &nameParams2,
    Value: &valueParams2,
  },
  {
    Name: &nameParams3,
    Value: &valueParams3,
  },
  {
    Name: &nameParams4,
    Value: &valueParams4,
  },
  {
    Name: &nameParams5,
    Value: &valueParams5,
  },
  {
    Name: &nameParams6,
    Value: &valueParams6,
  },
}
```

```
    },  
    {  
      Name: &nameParams7,  
      Value: &valueParams7,  
    },  
  }  
  nameParameters:= "hudson.model.StringParameterDefinition"  
  var listParametersbody = []model.UpdateBuildJobParameter{  
    {  
      Name: &nameParameters,  
      Params: &listParamsParameters,  
    },  
  }  
  hostTypeUpdateBuildJobRequestBody:= "devcloud"  
  flavorUpdateBuildJobRequestBody:= "2u8g"  
  autoUpdateSubModuleUpdateBuildJobRequestBody:= "false"  
  request.Body = &model.UpdateBuildJobRequestBody{  
    HostType: &hostTypeUpdateBuildJobRequestBody,  
    Steps: listStepsbody,  
    Scms: &listScmsbody,  
    Parameters: &listParametersbody,  
    Flavor: &flavorUpdateBuildJobRequestBody,  
    AutoUpdateSubModule: &autoUpdateSubModuleUpdateBuildJobRequestBody,  
    JobId: "db8467d972cc47f7a1bd2a3a3e77596a",  
    JobName: "examplejob",  
    ProjectId: "a287e712be6c404ca26e5f69040fa12b",  
    Arch: "x86-64",  
  }  
  response, err := client.UpdateBuildJob(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

## 4.20 Querying a Build Template

### Function

This API is used to query a build template.

### Calling Method

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

### URI

GET /v3/templates/query

**Table 4-179** Query Parameters

Parameter	Mandatory	Type	Description
name	No	String	Name of the template used for fuzzy query.
page	No	String	Page number, indicating that the query starts from this page.
page_size	No	String	Number of items displayed on each page. The value of <b>page_size</b> is less than or equal to 100.

### Request Parameters

**Table 4-180** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

### Response Parameters

Status code: 200

**Table 4-181** Response body parameters

Parameter	Type	Description
result	<a href="#">QueryTemplatesResult</a> object	Template query result.
error	String	Returned error message.
status	String	Returned status information.

**Table 4-182** QueryTemplatesResult

Parameter	Type	Description
total_size	Integer	Number of returned templates.
items	Array of <a href="#">QueryTemplatesItems</a> objects	Template information.

**Table 4-183** QueryTemplatesItems

Parameter	Type	Description
favourite	Boolean	Whether to favorite a template.
nick_name	String	Nickname.
id	String	ID in the database.
uuid	String	uuid
template	<a href="#">QueryTemplate</a> object	Build action template, which is encapsulated in camel case.
type	String	Template type.
public	Boolean	Whether the template is public.
name	String	Template name.
create_time	String	Creation time.
domain_id	String	domainId
weight	Double	Weight.
user_id	String	User ID.
user_name	String	Username.
domain_name	String	Domain name.

Parameter	Type	Description
scope	String	Template scope. For a user-defined template, the default value is <b>custom</b> .
description	String	Template description.
tool_type	String	Build tool type, which can be YAML build or action build.
intl_description	Object	intl description.
parameters	Array of <a href="#">CreateBuildJobParameter</a> objects	Parameters for build execution.
i18n	Object	i18n

**Table 4-184** QueryTemplate

Parameter	Type	Description
steps	Array of <a href="#">CreateBuildJobSteps</a> objects	Build actions.

**Table 4-185** CreateBuildJobSteps

Parameter	Type	Description
properties	Map<String, Object>	Build action.
module_id	String	Build module ID.
name	String	Build module name.
version	String	Build version.
enable	Boolean	Enable or not.

**Table 4-186** CreateBuildJobParameter

Parameter	Type	Description
name	String	Parameter definition name. The default value is <b>hudson.model.StringParameterDefinition</b> .

Parameter	Type	Description
params	Array of <a href="#">CreateBuildJobParameterParam</a> objects	Subparameters of build execution parameters.

**Table 4-187** CreateBuildJobParameterParam

Parameter	Type	Description
name	String	Parameter field name.
value	String	Parameter field value.
limits	Array of <a href="#">LimitsParam</a> objects	Restrictions on enumeration parameters.

**Table 4-188** LimitsParam

Parameter	Type	Description
disable	String	Whether the configuration takes effect. The default value is <b>0</b> , indicating that the configuration takes effect.
display_name	String	Parameter display name.
name	String	Parameter name.

**Status code: 400****Table 4-189** Response body parameters

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

**Status code: 401**

**Table 4-190** Response body parameters

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

**Status code: 403****Table 4-191** Response body parameters

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

**Status code: 404****Table 4-192** Response body parameters

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

**Status code: 500****Table 4-193** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/templates/query?name=123
```

## Example Responses

**Status code: 200**

OK

```
{  
  "result" : {
```



```
"total_size" : 172,
"items" : [ {
  "public" : true,
  "favourite" : false,
  "nick_name" : "021",
  "id" : "6561b2ced7a6751941fdc8cd",
  "uuid" : "2d9031c079624376824fe1e2731615dc",
  "template" : {
    "steps" : null
  },
  "type" : "codeci",
  "name" : "oych_test_temp_ladadad12122313",
  "create_time" : "2023-11-25T08:39:42.098+00:00",
  "domain_id" : "60021bab32fd450aa2cb89226f425e06",
  "weight" : 0,
  "user_id" : "ae22fd035f354cfa8d82a3f1c8940446",
  "user_name" : "devcloud_codeci_z00485259_02",
  "domain_name" : "devcloud_codeci_z00485259_02",
  "scope" : "custom",
  "description" : "123",
  "intl_description" : { },
  "parameters" : [ {
    "name" : "hudson.model.StringParameterDefinition",
    "params" : [ {
      "name" : "name",
      "value" : "codeBranch",
      "limits" : null
    }, {
      "name" : "type",
      "value" : "normalparam",
      "limits" : null
    }, {
      "name" : "defaultValue",
      "value" : "master",
      "limits" : null
    }, {
      "name" : "description",
      "value" : "Code branch, which is a predefined parameter",
      "limits" : null
    }, {
      "name" : "deletion",
      "value" : "false",
      "limits" : null
    }, {
      "name" : "defaults",
      "value" : "true",
      "limits" : null
    }, {
      "name" : "staticVar",
      "value" : "false",
      "limits" : null
    }, {
      "name" : "sensitiveVar",
      "value" : "false",
      "limits" : null
    }
  ]
}, {
  "i18n" : { }
}, {
  "public" : true,
  "favourite" : false,
  "nick_name" : "021",
  "id" : "655593217c95e62ccee22799",
  "uuid" : "e6e1ac0c94254534bd6c952f201d621d",
  "template" : {
    "steps" : null
  },
  "type" : "codeci",
  "name" : "oych_test_sdk_template",
```

```
"create_time" : "2023-11-16T03:57:21.333+00:00",
"domain_id" : "60021bab32fd450aa2cb89226f425e06",
"weight" : 0,
"user_id" : "ae22fd035f354cfa8d82a3f1c8940446",
"user_name" : "devcloud_codeci_z00485259_02",
"domain_name" : "devcloud_codeci_z00485259_02",
"scope" : "custom",
"description" : "oych_test_sdk_template",
"intl_description" : { },
"parameters" : [ {
  "name" : "hudson.model.StringParameterDefinition",
  "params" : [ {
    "name" : "name",
    "value" : "codeBranch",
    "limits" : null
  }, {
    "name" : "type",
    "value" : "normalparam",
    "limits" : null
  }, {
    "name" : "defaultValue",
    "value" : "master",
    "limits" : null
  }, {
    "name" : "description",
    "value" : "Code branch, which is a predefined parameter",
    "limits" : null
  }, {
    "name" : "deletion",
    "value" : "false",
    "limits" : null
  }, {
    "name" : "defaults",
    "value" : "true",
    "limits" : null
  }, {
    "name" : "staticVar",
    "value" : "false",
    "limits" : null
  }, {
    "name" : "sensitiveVar",
    "value" : "false",
    "limits" : null
  }
]
}, {
  "name" : "i18n",
  "value" : { }
}
],
"error" : null,
"status" : "success"
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        ListTemplatesRequest request = new ListTemplatesRequest();
        request.withName("<name>");
        request.withPage("<page>");
        request.withPageSize("<page_size>");
        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

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ListTemplatesRequest()
```

```
request.name = "<name>"
request.page = "<page>"
request.page_size = "<page_size>"
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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListTemplatesRequest{}
    nameRequest := "<name>"
    request.Name = &nameRequest
    pageRequest := "<page>"
    request.Page = &pageRequest
    pageSizeRequest := "<page_size>"
    request.PageSize = &pageSizeRequest
    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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.21 Creating a Build Template

## Function

This API is used to create a build template.

## Calling Method

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

## URI

POST /v3/templates/create

## Request Parameters

Table 4-194 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

**Table 4-195** Request body parameters

Parameter	Mandatory	Type	Description
template	Yes	<a href="#">CreateTemplate</a> object	Build action template, which is encapsulated in camel case.
name	Yes	String	Template name.
description	No	String	Template description.
tool_type	No	String	Tool type.
parameters	No	Array of <a href="#">CreateBuildJobParameter</a> objects	Parameters for build execution.

**Table 4-196** CreateTemplate

Parameter	Mandatory	Type	Description
steps	Yes	Array of <a href="#">CreateTemplateSteps</a> objects	Build actions.

**Table 4-197** CreateTemplateSteps

Parameter	Mandatory	Type	Description
properties	No	Map<String,Object>	Build action.
module_id	Yes	String	Build module ID.
name	No	String	Build module name.
version	No	String	Build version.
enable	No	Boolean	Enable or not.

**Table 4-198** CreateBuildJobParameter

Parameter	Mandatory	Type	Description
name	No	String	Parameter definition name. The default value is <b>hudson.model.StringParameterDefinition</b> .

Parameter	Mandatory	Type	Description
params	No	Array of <a href="#">CreateBuildJobParameterParam</a> objects	Subparameters of build execution parameters.

**Table 4-199** CreateBuildJobParameterParam

Parameter	Mandatory	Type	Description
name	No	String	Parameter field name.
value	No	String	Parameter field value.
limits	No	Array of <a href="#">LimitsParam</a> objects	Restrictions on enumeration parameters.

**Table 4-200** LimitsParam

Parameter	Mandatory	Type	Description
disable	No	String	Whether the configuration takes effect. The default value is <b>0</b> , indicating that the configuration takes effect.
display_name	No	String	Parameter display name.
name	No	String	Parameter name.

## Response Parameters

Status code: 200

**Table 4-201** Response body parameters

Parameter	Type	Description
result	<a href="#">CreateTemplatesItems</a> object	Template query result.
error	String	Returned error message.
status	String	Returned status information.

**Table 4-202** CreateTemplatesItems

Parameter	Type	Description
favourite	Boolean	Whether to favorite a template.
id	String	ID in the database.
uuid	String	uuid
template	<a href="#">QueryTemplate</a> object	Build action template, which is encapsulated in camel case.
type	String	Template type.
public	Boolean	Whether the template is public.
name	String	Template name.
create_time	String	Creation time.
domain_id	String	domainId
weight	Double	Weight.
user_id	String	User ID.
user_name	String	Username.
domain_name	String	Domain name.
scope	String	Template scope. For a user-defined template, the default value is <b>custom</b> .
description	String	Template description.
tool_type	String	Build tool type, which can be YAML build or action build.
intl_description	Object	intl description.
parameters	Array of <a href="#">CreateBuildJobParameter</a> objects	Parameters for build execution.
i18n	Object	i18n

**Table 4-203** QueryTemplate

Parameter	Type	Description
steps	Array of <a href="#">CreateBuildJobSteps</a> objects	Build actions.



**Table 4-204** CreateBuildJobSteps

Parameter	Type	Description
properties	Map<String, Object>	Build action.
module_id	String	Build module ID.
name	String	Build module name.
version	String	Build version.
enable	Boolean	Enable or not.

**Table 4-205** CreateBuildJobParameter

Parameter	Type	Description
name	String	Parameter definition name. The default value is <b>hudson.model.StringParameterDefinition</b> .
params	Array of <b>CreateBuildJobParameterParam</b> objects	Subparameters of build execution parameters.

**Table 4-206** CreateBuildJobParameterParam

Parameter	Type	Description
name	String	Parameter field name.
value	String	Parameter field value.
limits	Array of <b>LimitsParam</b> objects	Restrictions on enumeration parameters.

**Table 4-207** LimitsParam

Parameter	Type	Description
disable	String	Whether the configuration takes effect. The default value is <b>0</b> , indicating that the configuration takes effect.
display_name	String	Parameter display name.
name	String	Parameter name.

**Status code: 400****Table 4-208** Response body parameters

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

**Status code: 401****Table 4-209** Response body parameters

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

**Status code: 403****Table 4-210** Response body parameters

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

**Status code: 404****Table 4-211** Response body parameters

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

**Status code: 500****Table 4-212** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error description.

## Example Requests

```
POST https://{endpoint}/v3/templates/create

{
  "name" : "example",
  "description" : "123",
  "tool_type" : "123123",
  "template" : {
    "steps" : [ {
      "module_id" : "devcloud2018.codeci_action_20043.action",
      "name" : "Build with Maven",
      "enable" : true,
      "properties" : null
    } ]
  },
  "parameters" : [ {
    "name" : "hudson.model.StringParameterDefinition",
    "params" : [ {
      "name" : "name",
      "value" : "codeBranch"
    }, {
      "name" : "type",
      "value" : "normalparam"
    }, {
      "name" : "defaultValue",
      "value" : "master"
    }, {
      "name" : "description",
      "value" : "description"
    }, {
      "name" : "deletion",
      "value" : "false"
    }, {
      "name" : "defaults",
      "value" : "true"
    }, {
      "name" : "staticVar",
      "value" : "false"
    }, {
      "name" : "sensitiveVar",
      "value" : "false"
    } ]
  } ]
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "result" : {
    "public" : true,
    "favourite" : false,
    "id" : "6561b2ced7a6751941fdc8cd",
    "uuid" : "2d9031c079624376824fe1e2731615dc",
    "template" : {
      "steps" : null
    }
  },
}
```

```
"type" : "codeci",
"name" : "oych_test_temp_ladadad12122313",
"create_time" : "2023-11-25T08:39:42.098+00:00",
"domain_id" : "60021bab32fd450aa2cb89226f425e06",
"weight" : 0,
"user_id" : "ae22fd035f354cfa8d82a3f1c8940446",
"user_name" : "devcloud_codeci_z00485259_02",
"domain_name" : "devcloud_codeci_z00485259_02",
"scope" : "custom",
"description" : "123",
"intl_description" : { },
"parameters" : [ {
  "name" : "hudson.model.StringParameterDefinition",
  "params" : [ {
    "name" : "name",
    "value" : "codeBranch",
    "limits" : null
  }, {
    "name" : "type",
    "value" : "normalparam",
    "limits" : null
  }, {
    "name" : "defaultValue",
    "value" : "master",
    "limits" : null
  }, {
    "name" : "description",
    "value" : "Code branch, which is a predefined parameter",
    "limits" : null
  }, {
    "name" : "deletion",
    "value" : "false",
    "limits" : null
  }, {
    "name" : "defaults",
    "value" : "true",
    "limits" : null
  }, {
    "name" : "staticVar",
    "value" : "false",
    "limits" : null
  }, {
    "name" : "sensitiveVar",
    "value" : "false",
    "limits" : null
  }
]
},
"i18n" : { }
},
"error" : null,
"status" : "success"
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
```

```
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

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

public class CreateTemplatesSolution {

    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);

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

        CreateTemplatesRequest request = new CreateTemplatesRequest();
        CreateTemplatesRequestBody body = new CreateTemplatesRequestBody();
        List<CreateBuildJobParameterParam> listParametersParams = new ArrayList<>();
        listParametersParams.add(
            new CreateBuildJobParameterParam()
                .withName("name")
                .withValue("codeBranch")
        );
        listParametersParams.add(
            new CreateBuildJobParameterParam()
                .withName("type")
                .withValue("normalparam")
        );
        listParametersParams.add(
            new CreateBuildJobParameterParam()
                .withName("defaultValue")
                .withValue("master")
        );
        listParametersParams.add(
            new CreateBuildJobParameterParam()
                .withName("description")
                .withValue("description")
        );
        listParametersParams.add(
            new CreateBuildJobParameterParam()
                .withName("deletion")
                .withValue("false")
        );
        listParametersParams.add(
            new CreateBuildJobParameterParam()
                .withName("defaults")
                .withValue("true")
        );
        listParametersParams.add(
            new CreateBuildJobParameterParam()
                .withName("staticVar")
                .withValue("false")
        );
        listParametersParams.add(
            new CreateBuildJobParameterParam()
                .withName("sensitiveVar")
                .withValue("false")
        );
        List<CreateBuildJobParameter> listbodyParameters = new ArrayList<>();
        listbodyParameters.add(
```

```
        new CreateBuildJobParameter()
            .withName("hudson.model.StringParameterDefinition")
            .withParams(listParametersParams)
    );
    List<CreateTemplateSteps> listTemplateSteps = new ArrayList<>();
    listTemplateSteps.add(
        new CreateTemplateSteps()
            .withModuleId("devcloud2018.codeci_action_20043.action")
            .withName("Build with Maven")
            .withEnable(true)
    );
    CreateTemplate templatebody = new CreateTemplate();
    templatebody.withSteps(listTemplateSteps);
    body.withParameters(listbodyParameters);
    body.withToolType("123123");
    body.withDescription("123");
    body.withName("example");
    body.withTemplate(templatebody);
    request.withBody(body);
    try {
        CreateTemplatesResponse response = client.createTemplates(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = CreateTemplatesRequest()
        listParamsParameters = [
            CreateBuildJobParameterParam(
                name="name",
                value="codeBranch"
            ),
            CreateBuildJobParameterParam(
```

```
        name="type",
        value="normalparam"
    ),
    CreateBuildJobParameterParam(
        name="defaultValue",
        value="master"
    ),
    CreateBuildJobParameterParam(
        name="description",
        value="description"
    ),
    CreateBuildJobParameterParam(
        name="deletion",
        value="false"
    ),
    CreateBuildJobParameterParam(
        name="defaults",
        value="true"
    ),
    CreateBuildJobParameterParam(
        name="staticVar",
        value="false"
    ),
    CreateBuildJobParameterParam(
        name="sensitiveVar",
        value="false"
    )
]
listParametersbody = [
    CreateBuildJobParameter(
        name="hudson.model.StringParameterDefinition",
        params=listParamsParameters
    )
]
listStepsTemplate = [
    CreateTemplateSteps(
        module_id="devcloud2018.codeci_action_20043.action",
        name="Build with Maven",
        enable=True
    )
]
templatebody = CreateTemplate(
    steps=listStepsTemplate
)
request.body = CreateTemplatesRequestBody(
    parameters=listParametersbody,
    tool_type="123123",
    description="123",
    name="example",
    template=templatebody
)
response = client.create_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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(  
        codeartsbuild.CodeArtsBuildClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.CreateTemplatesRequest{  
        nameParams:= "name"  
        valueParams:= "codeBranch"  
        nameParams1:= "type"  
        valueParams1:= "normalparam"  
        nameParams2:= "defaultValue"  
        valueParams2:= "master"  
        nameParams3:= "description"  
        valueParams3:= "description"  
        nameParams4:= "deletion"  
        valueParams4:= "false"  
        nameParams5:= "defaults"  
        valueParams5:= "true"  
        nameParams6:= "staticVar"  
        valueParams6:= "false"  
        nameParams7:= "sensitiveVar"  
        valueParams7:= "false"  
        var listParamsParameters = []model.CreateBuildJobParameterParam{  
            {  
                Name: &nameParams,  
                Value: &valueParams,  
            },  
            {  
                Name: &nameParams1,  
                Value: &valueParams1,  
            },  
            {  
                Name: &nameParams2,  
                Value: &valueParams2,  
            },  
            {  
                Name: &nameParams3,  
                Value: &valueParams3,  
            },  
            {  
                Name: &nameParams4,  
                Value: &valueParams4,  
            },  
            {  
                Name: &nameParams5,  
                Value: &valueParams5,  
            },  
            {  
                Name: &nameParams6,  
                Value: &valueParams6,  
            },  
            {  
                Name: &nameParams7,  
                Value: &valueParams7,  
            },  
        }  
    }  
}
```



```
        Name: &nameParams7,
        Value: &valueParams7,
    },
}
nameParameters:= "hudson.model.StringParameterDefinition"
var listParametersbody = []model.CreateBuildJobParameter{
    {
        Name: &nameParameters,
        Params: &listParamsParameters,
    },
}
nameSteps:= "Build with Maven"
enableSteps:= true
var listStepsTemplate = []model.CreateTemplateSteps{
    {
        ModuleId: "devcloud2018.codeci_action_20043.action",
        Name: &nameSteps,
        Enable: &enableSteps,
    },
}
templatebody := &model.CreateTemplate{
    Steps: listStepsTemplate,
}
toolTypeCreateTemplatesRequestBody:= "123123"
descriptionCreateTemplatesRequestBody:= "123"
request.Body = &model.CreateTemplatesRequestBody{
    Parameters: &listParametersbody,
    ToolType: &toolTypeCreateTemplatesRequestBody,
    Description: &descriptionCreateTemplatesRequestBody,
    Name: "example",
    Template: templatebody,
}
response, err := client.CreateTemplates(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.22 Deleting a Build Template

## Function

This API is used to delete a build template.

## Calling Method

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

## URI

DELETE /v3/templates/{uuid}/delete

**Table 4-213** Path Parameters

Parameter	Mandatory	Type	Description
uuid	Yes	String	uuid

## Request Parameters

**Table 4-214** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

**Table 4-215** Response body parameters

Parameter	Type	Description
result	Array of <a href="#">CreateTemplateItems</a> objects	Template query result.
error	String	Returned error message.
status	String	Returned status information.

**Table 4-216** CreateTemplateItems

Parameter	Type	Description
favourite	Boolean	Whether to favorite a template.
id	String	ID in the database.
uuid	String	uuid
template	<a href="#">QueryTemplate</a> object	Build action template, which is encapsulated in camel case.
type	String	Template type.
public	Boolean	Whether the template is public.
name	String	Template name.
create_time	String	Creation time.
domain_id	String	domainId
weight	Double	Weight.
user_id	String	User ID.
user_name	String	Username.
domain_name	String	Domain name.
scope	String	Template scope. For a user-defined template, the default value is <b>custom</b> .
description	String	Template description.
tool_type	String	Build tool type, which can be YAML build or action build.
intl_description	Object	intl description.

Parameter	Type	Description
parameters	Array of <a href="#">CreateBuildJobParameter</a> objects	Parameters for build execution.
i18n	Object	i18n

**Table 4-217** QueryTemplate

Parameter	Type	Description
steps	Array of <a href="#">CreateBuildJobSteps</a> objects	Build actions.

**Table 4-218** CreateBuildJobSteps

Parameter	Type	Description
properties	Map<String, Object>	Build action.
module_id	String	Build module ID.
name	String	Build module name.
version	String	Build version.
enable	Boolean	Enable or not.

**Table 4-219** CreateBuildJobParameter

Parameter	Type	Description
name	String	Parameter definition name. The default value is <b>hudson.model.StringParameterDefinition</b> .
params	Array of <a href="#">CreateBuildJobParameterParam</a> objects	Subparameters of build execution parameters.

**Table 4-220** CreateBuildJobParameterParam

Parameter	Type	Description
name	String	Parameter field name.
value	String	Parameter field value.
limits	Array of <a href="#">LimitsParam</a> objects	Restrictions on enumeration parameters.

**Table 4-221** LimitsParam

Parameter	Type	Description
disable	String	Whether the configuration takes effect. The default value is <b>0</b> , indicating that the configuration takes effect.
display_name	String	Parameter display name.
name	String	Parameter name.

**Status code: 400****Table 4-222** Response body parameters

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

**Status code: 401****Table 4-223** Response body parameters

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

**Status code: 403**

**Table 4-224** Response body parameters

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

**Status code: 404****Table 4-225** Response body parameters

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

**Status code: 500****Table 4-226** Response body parameters

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

## Example Requests

```
DELETE https://{endpoint}/v3/templates/ca9c83214d6344b9bd26d14ba0b519d9/delete
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;
```

```
public class DeleteTemplatesSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteTemplatesRequest request = new DeleteTemplatesRequest();
        try {
            DeleteTemplatesResponse response = client.deleteTemplates(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = DeleteTemplatesRequest()
        response = client.delete_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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteTemplatesRequest{}
    response, err := client.DeleteTemplates(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.23 Querying Notifications

## Function

This API is used to querying notifications.

## Calling Method

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

## URI

GET /v3/jobs/notice/{job\_id}/query

**Table 4-227** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

## Request Parameters

**Table 4-228** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 200****Table 4-229** Response body parameters

Parameter	Type	Description
result	Array of <b>QueryJobNoticeltems</b> objects	Template query result.
error	String	Returned error message.
status	String	Returned status information.

**Table 4-230** QueryJobNoticeltems

Parameter	Type	Description
notice_type	String	Notification types.
enable_map	Map<String, Boolean>	Details about enabled notifications
param_config	String	Parameter configuration.

**Status code: 400****Table 4-231** Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error description.

**Status code: 401****Table 4-232** Response body parameters

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

**Status code: 403****Table 4-233** Response body parameters

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

**Status code: 404****Table 4-234** Response body parameters

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

**Status code: 500****Table 4-235** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/jobs/notice/48c66c6002964721be537cdc6ce0297b/query
```

## Example Responses

**Status code: 200**

OK

```
{
  "result" : [ {
    "notice_type" : "DING_TALK",
    "enable_map" : {
      "buildJobFail" : false,
      "updateConfigJob" : false,
      "buildJobSuccess" : false,
      "deleteJob" : false,
      "forbiddenJob" : false
    },
    "param_config" : null
  }, {
    "notice_type" : "MAIL",
    "enable_map" : {
      "buildJobFail" : true,
      "updateConfigJob" : false,
      "buildJobSuccess" : false,
      "deleteJob" : false,
      "forbiddenJob" : false
    },
    "param_config" : null
  }, {
    "notice_type" : "MESSAGE",
    "enable_map" : {
      "buildJobFail" : false,
      "updateConfigJob" : false,
      "buildJobSuccess" : false,
      "deleteJob" : false,
      "forbiddenJob" : false
    },
    "param_config" : null
  } ],
  "error" : null,
  "status" : "success"
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class ListNoticeSolution {

    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);

CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
    .build();
ListNoticeRequest request = new ListNoticeRequest();
try {
    ListNoticeResponse response = client.listNotice(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ListNoticeRequest()
        response = client.list_notice(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListNoticeRequest{}
    response, err := client.ListNotice(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.24 Updating Notifications

## Function

This API is used to updating notifications.

## Calling Method

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

## URI

POST /v3/jobs/notice/{job\_id}/update

**Table 4-236** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

## Request Parameters

**Table 4-237** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

**Table 4-238** Request body parameters

Parameter	Mandatory	Type	Description
notice_type	Yes	String	Notification types.

Parameter	Mandatory	Type	Description
enabled_event_type_names	Yes	Array of strings	Types of enabled notifications.
param_config	No	String	Notification parameter configuration.

## Response Parameters

### Status code: 200

**Table 4-239** Response body parameters

Parameter	Type	Description
result	String	Returned error message.
error	String	Returned error message.
status	String	Returned status information.

### Status code: 400

**Table 4-240** Response body parameters

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

### Status code: 401

**Table 4-241** Response body parameters

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

### Status code: 403



**Table 4-242** Response body parameters

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

**Status code: 404****Table 4-243** Response body parameters

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

**Status code: 500****Table 4-244** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/jobs/notice/48c66c6002964721be537cdc6ce0297b/update
{
  "notice_type": "MESSAGE",
  "enabled_event_type_names": [ "updateConfigJob", "deleteJob", "forbiddenJob" ]
}
```

## Example Responses

**Status code: 200**

OK

```
{
  "result": {
    "job_id": "db8467d972cc47f7a1bd2a3a3e77596a"
  },
  "error": null,
  "status": "success"
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

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

public class UpdateNoticeSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateNoticeRequest request = new UpdateNoticeRequest();
        UpdateNoticeRequestBody body = new UpdateNoticeRequestBody();
        List<String> listbodyEnabledEventNames = new ArrayList<>();
        listbodyEnabledEventNames.add("updateConfigJob");
        listbodyEnabledEventNames.add("deleteJob");
        listbodyEnabledEventNames.add("forbiddenJob");
        body.setEnabledEventNames(listbodyEnabledEventNames);
        body.withNoticeType("MESSAGE");
        request.withBody(body);
        try {
            UpdateNoticeResponse response = client.updateNotice(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *
```

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = UpdateNoticeRequest()
        listEnabledEventTypeNamesbody = [
            "updateConfigJob",
            "deleteJob",
            "forbiddenJob"
        ]
        request.body = UpdateNoticeRequestBody(
            enabled_event_type_names=listEnabledEventTypeNamesbody,
            notice_type="MESSAGE"
        )
        response = client.update_notice(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateNoticeRequest{}
```

```
var listEnabledEventNamesbody = []string{
    "updateConfigJob",
    "deleteJob",
    "forbiddenJob",
}
request.Body = &model.UpdateNoticeRequestBody{
    EnabledEventNames: listEnabledEventNamesbody,
    NoticeType: "MESSAGE",
}
response, err := client.UpdateNotice(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.25 Canceling Notifications

## Function

This API is used to cancel notifications.

## Calling Method

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

## URI

POST /v3/jobs/notice/{job\_id}/disable

**Table 4-245** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

**Table 4-246** Query Parameters

Parameter	Mandatory	Type	Description
notice_type	Yes	String	Notification type, which can be message, email, or DingTalk.

## Request Parameters

**Table 4-247** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 200**

**Table 4-248** Response body parameters

Parameter	Type	Description
result	String	Returned error message.
error	String	Returned error message.
status	String	Returned status information.

**Status code: 400**

**Table 4-249** Response body parameters

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

**Status code: 401****Table 4-250** Response body parameters

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

**Status code: 403****Table 4-251** Response body parameters

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

**Status code: 404****Table 4-252** Response body parameters

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

**Status code: 500****Table 4-253** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/jobs/notice/48c66c6002964721be537cdc6ce0297b/disable?notice_type=message
```

## Example Responses

**Status code: 200**

OK

```
{
  "result" : {
    "job_id" : "db8467d972cc47f7a1bd2a3a3e77596a"
  },
  "error" : null,
  "status" : "success"
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class DisableNoticeSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        DisableNoticeRequest request = new DisableNoticeRequest();
        request.withNoticeType("<notice_type>");
        try {
            DisableNoticeResponse response = client.disableNotice(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
        }
    }
}
```

```
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = DisableNoticeRequest()
        request.notice_type = "<notice_type>"
        response = client.disable_notice(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
    codeartsbuild.CodeArtsBuildClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.DisableNoticeRequest{}
request.NoticeType = "<notice_type>"
response, err := client.DisableNotice(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 4.26 Obtaining Build Task Details

## Function

This API is used to obtain build task details.

## Calling Method

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

## URI

GET /v3/jobs/{job\_id}/query

**Table 4-254** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

**Table 4-255** Query Parameters

Parameter	Mandatory	Type	Description
get_all_parameters	No	String	Enter <b>true</b> or <b>false</b> to specify whether returned parameters are complete.

## Request Parameters

**Table 4-256** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

**Table 4-257** Response body parameters

Parameter	Type	Description
result	CreateBuildJobRequestBody object	Template query result.
error	String	Returned error message.
status	String	Returned status information.

**Table 4-258** CreateBuildJobRequestBody

Parameter	Type	Description
arch	String	Architecture.
project_id	String	ID of the project to which the build task belongs.
job_name	String	Task name.
auto_update_sub_module	String	Whether to automatically update submodules.
flavor	String	Executor flavors.
parameters	Array of <a href="#">CreateBuildJobParameter</a> objects	Parameters for build execution.
scms	Array of <a href="#">CreateBuildJobScm</a> objects	SCMs of build execution.
steps	Array of <a href="#">CreateBuildJobSteps</a> objects	Build actions.
host_type	String	Host type.
build_config_type	String	Build configuration type.

**Table 4-259** CreateBuildJobParameter

Parameter	Type	Description
name	String	Parameter definition name. The default value is <b>hudson.model.StringParameterDefinition</b> .
params	Array of <a href="#">CreateBuildJobParameterParam</a> objects	Subparameters of build execution parameters.

**Table 4-260** CreateBuildJobParameterParam

Parameter	Type	Description
name	String	Parameter field name.
value	String	Parameter field value.
limits	Array of <a href="#">LimitsParam</a> objects	Restrictions on enumeration parameters.

**Table 4-261** LimitsParam

Parameter	Type	Description
disable	String	Whether the configuration takes effect. The default value is <b>0</b> , indicating that the configuration takes effect.
display_name	String	Parameter display name.
name	String	Parameter name.

**Table 4-262** CreateBuildJobScm

Parameter	Type	Description
branch	String	Branch.
url	String	Code repository address.
repo_id	String	Repo ID.
web_url	String	HTTP address of the code repository.
scm_type	String	Repository type, such as Repo and GitHub.
is_auto_build	Boolean	Whether to enable auto build.
build_type	String	Build type.
depth	String	Clone depth.
end_point_id	String	endpointId
source	String	source

**Table 4-263** CreateBuildJobSteps

Parameter	Type	Description
properties	Map<String,Object>	Build action.
module_id	String	Build module ID.
name	String	Build module name.
version	String	Build version.
enable	Boolean	Enable or not.

**Status code: 400****Table 4-264** Response body parameters

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

**Status code: 401****Table 4-265** Response body parameters

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

**Status code: 403****Table 4-266** Response body parameters

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

**Status code: 404**

**Table 4-267** Response body parameters

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

**Status code: 500****Table 4-268** Response body parameters

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

## Example Requests

POST https://{endpoint}/v3/jobs/48c66c6002964721be537cdc6ce0297b/query

## Example Responses

**Status code: 200**

OK

```
{
  "result" : {
    "steps" : null,
    "arch" : "x86-64",
    "project_id" : "a287e712be6c404ca26e5f69040fa12b",
    "job_name" : "oychap213i2",
    "auto_update_sub_module" : "false",
    "flavor" : "2u8g",
    "parameters" : [ {
      "name" : "hudson.model.StringParameterDefinition",
      "params" : [ {
        "name" : "name",
        "value" : "codeBranch",
        "limits" : null
      }, {
        "name" : "type",
        "value" : "normalparam",
        "limits" : null
      }, {
        "name" : "defaultValue",
        "value" : "master",
        "limits" : null
      }, {
        "name" : "description",
        "value" : "Code branch, which is a predefined parameter",
        "limits" : null
      }, {
        "name" : "deletion",
        "value" : "false",
        "limits" : null
      }, {

```

```
{
  "name": "defaults",
  "value": "true",
  "limits": null
}, {
  "name": "staticVar",
  "value": "false",
  "limits": null
}, {
  "name": "sensitiveVar",
  "value": "false",
  "limits": null
}
]
}],
"scms": [ {
  "branch": "master",
  "url": "git@codehub.devcloud.cn-north-7.ulanqab.huawei.com:soso-test00001/an.git",
  "is_auto_build": false,
  "scm_type": "codehub",
  "end_point_id": null,
  "web_url": "https://devcloud.cn-north-7.ulanqab.huawei.com/codehub/2111746211/home",
  "source": null,
  "build_type": "branch",
  "depth": "1",
  "repo_id": "2111746211"
} ],
"host_type": "devcloud"
},
"error": null,
"status": "success"
}
```

## Status Codes

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

## Error Codes

See [Error Codes](#).

# 4.27 Downloading Real-time Build Logs

## Function

This API is used to download real-time build logs.

## Calling Method

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

## URI

GET /v3/jobs/{job\_id}/{build\_no}/real-time-log

**Table 4-269** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.
build_no	Yes	Integer	Build number of the task, which automatically increases from 1 by 1 each time the build task is executed.

**Table 4-270** Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	Integer	Response offset of the previous request.
length	No	Integer	The length of the returned content is controllable. The default value is 1,000,000.

## 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. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .



## Response Parameters

### Status code: 200

**Table 4-272** Response body parameters

Parameter	Type	Description
result	<a href="#">result</a> object	Result.
error	String	Returned error message.
status	String	Returned status information.

**Table 4-273** result

Parameter	Type	Description
has_more_data	String	Whether there are remaining logs.
offset	String	Offset used for one request.
content	String	Returned log content. Request again if it is empty.
current_offset	String	Offset of the current request.

### Status code: 400

**Table 4-274** Response body parameters

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

### Status code: 401

**Table 4-275** Response body parameters

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

### Status code: 403

**Table 4-276** Response body parameters

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

**Status code: 404****Table 4-277** Response body parameters

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

**Status code: 500****Table 4-278** Response body parameters

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

## Example Requests

```
POST https://{endpoint}/v3/jobs/48c66c6002964721be537cdc6ce0297b/33/real-time-log
```

## Example Responses

**Status code: 200**

OK

```
{
  "result" : {
    "has_more_data" : true,
    "offset" : 126548,
    "content" : "[2023/12/21 15:44:18.743 GMT+08:00] [INFO] Building jar: ***/target/server-1.0.jar\
\n[2023/12/21 15:44:18.744 GMT+08:00] [INFO]
-----\n[2023/12/21 15:44:18.744 GMT+08:00]
[INFO] BUILD SUCCESS\n[2023/12/21 15:44:18.744 GMT+08:00] [INFO]
-----\n[2023/12/21 15:44:18.744 GMT+08:00]
[INFO] Total time: 5.408 s\n[2023/12/21 15:44:18.744 GMT+08:00] [INFO] Finished at:
2023-12-21T15:44:18+08:00\n[2023/12/21 15:44:18.744 GMT+08:00] [INFO]
-----\n[2023/12/21 15:44:18.793 GMT+08:00]
[INFO] [Maven build: external_post_maven]: This step starts. \n[2023/12/21 15:44:18.796 GMT+08:00]
[INFO] [Maven build: external_post_maven]: Parameters initialized. \n[2023/12/21 15:44:18.796 GMT
+08:00] [INFO] [Maven build: external_post_maven]: Plug-in context initialized. \n[2023/12/21
15:44:18.797 GMT+08:00] [INFO] [Maven build: external_post_maven]: This step is complete. \
```

```
\n[2023/12/21 15:44:18.842 GMT+08:00] $ docker stop --time=1
8db533bfed323ffeb24d4698b65af3b4d6f138c9e7c0297ee9e33442648b87ea\\n",
  "current_offset" : 121768
},
"error" : null,
"status" : "success"
}
```

## Status Codes

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

## Error Codes

See [Error Codes](#).

# 4.28 Obtaining Build Records of a Task

## Function

This API is used to obtain build records of a task.

## Calling Method

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

## URI

GET /v3/jobs/{job\_id}/build-info-records

**Table 4-279** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.

**Table 4-280** Query Parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time. The value format is yyyy-MM-dd HH:mm:ss.
end_time	Yes	String	End time. The value format is yyyy-MM-dd HH:mm:ss.
page_index	No	Integer	Page number, indicating that the query starts from this page. The value of <b>page_index</b> is greater than or equal to 0.
page_size	No	Integer	Number of items displayed on each page. The value of <b>page_size</b> is less than or equal to 100.

## 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. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 200

**Table 4-282** Response body parameters

Parameter	Type	Description
result	<b>result</b> object	Result.
error	String	Returned error message.
status	String	Returned status information.

**Table 4-283** result

Parameter	Type	Description
health_score	String	Health status.
page_index	String	Page number.
total_page	String	Total number of records.
total_record	String	Total number of records.
job_build_statuses	Array of <a href="#">BuildInfoRecord</a> objects	Build record list.

**Table 4-284** BuildInfoRecord

Parameter	Type	Description
number	String	Build ID.
build_time	Integer	Execution time.
start_time	Integer	Start time (timestamp).
job_running_status	String	Running status.
state	String	Task status.
user_id	String	IAM user ID.
executor	String	User who triggered the build.
nickname	String	Username.
daily_build_number	String	Build ID, which starts from 1 every day.
trigger_type	String	Trigger type.
cost_time	Integer	Execution time.
commit_id	String	Code commit ID.
commit_info	<a href="#">commit_info</a> object	Code commit message.
build_type	String	Build ID, which starts from 1 every day.
code_branch	String	Code repository branch.
scm_type	String	Code source type.
scm_web_url	String	Code source address.

Parameter	Type	Description
commit_detail_url	String	Address of code commit record (Code source: Repo).

**Table 4-285** commit\_info

Parameter	Type	Description
commit_id	String	Code commit ID.
created_at	String	Commit time.

**Status code: 400****Table 4-286** Response body parameters

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

**Status code: 401****Table 4-287** Response body parameters

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

**Status code: 403****Table 4-288** Response body parameters

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

**Status code: 404**

**Table 4-289** Response body parameters

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

**Status code: 500****Table 4-290** Response body parameters

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

## Example Requests

POST https://{endpoint}/v3/jobs/48c66c6002964721be537cdc6ce0297b/33/real-time-log

## Example Responses

**Status code: 200**

OK

```
{
  "result": {
    "health_score": "0",
    "page_index": "0",
    "total_page": "44",
    "total_record": "44",
    "job_build_states": [ {
      "number": 44,
      "build_time": 3525000,
      "start_time": 1703554641000,
      "job_running_status": "Finished",
      "state": "SUCCESS",
      "user_id": "ae22fd035f354cfa8d82a3f1c8940446",
      "executor": "test",
      "nickname": "021",
      "daily_build_number": "20231226.1",
      "trigger_type": "Scheduled",
      "commit_id": "ffe2ee8b44a0b2683df86b44f8ec27d71baeae86",
      "cost_time": 3525000,
      "commit_info": {
        "commit_id": "ffe2ee8b44a0b2683df86b44f8ec27d71baeae86",
        "created_at": "2023-11-21T01:48:21.000+00:00"
      },
      "build_type": "branch",
      "code_branch": "master",
      "scm_type": "codehub",
      "scm_web_url": "https://test.huawei.com/codehub/2111750206/home",
      "commit_detail_url": "https://test.huawei.com/codehub/2111750206/ffe2ee8b44a0b2683df86b44f8ec27d71baeae86/commitdetail"
    } ]
  },
}
```

```
"error" : null,  
"status" : "success"  
}
```

## Status Codes

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

## Error Codes

See [Error Codes](#).



# 5 CodeArts Build (Unavailable Soon)

---

## 5.1 Downloading Build Logs (Unavailable Soon)

### Function

This API is used to download build logs (unavailable soon).

### Calling Method

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

### URI

GET /v3/{record\_id}/download-log

**Table 5-1** Path Parameters

Parameter	Mandatory	Type	Description
record_id	Yes	String	Record ID. It consists of 36 digits, lowercase letters, and hyphens (-).

## Request Parameters

Table 5-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

Status code: 400

Table 5-3 Response body parameters

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

Status code: 401

Table 5-4 Response body parameters

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

Status code: 403

Table 5-5 Response body parameters

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

Status code: 404

**Table 5-6** Response body parameters

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

**Status code: 500**

**Table 5-7** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/2cc26382-b2cb-4234-8eb0-b37d362f4d4c/download-log
```

## Example Responses

None

## Status Codes

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

## Error Codes

See [Error Codes](#).

## 5.2 Obtaining Directed Acyclic Graphs of Build Records (Unavailable Soon)

### Function

This API is used to obtain directed acyclic graphs of build records (unavailable soon).

### Calling Method

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

### URI

GET /v3/{build\_flow\_record\_id}/flow-graph

**Table 5-8** Path Parameters

Parameter	Mandatory	Type	Description
build_flow_record_id	Yes	String	Build record ID of a parent task.

### Request Parameters

**Table 5-9** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

### Response Parameters

Status code: 200

**Table 5-10** Response body parameters

Parameter	Type	Description
success	Boolean	Status.

Parameter	Type	Description
message	String	Message.
err_code	String	Error code.
result	<b>result</b> object	Result.

**Table 5-11** result

Parameter	Type	Description
edges	Array of <b>edges</b> objects	edges
vertices	Array of <b>Vertices</b> objects	Record information.

**Table 5-12** edges

Parameter	Type	Description
from	String	Dependent subtask ID.
to	String	Dependency subtask ID.

**Table 5-13** Vertices

Parameter	Type	Description
id	String	Build record ID of a subtask.
status	String	Running status of a subtask.
display_name	String	Subtask name.
build_duration	Integer	Subtask build duration.
start_time	String	Subtask start time.
finish_time	String	Subtask end time.
build_no	String	Subtask build ID.

**Status code: 400**

**Table 5-14** Response body parameters

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

**Status code: 401****Table 5-15** Response body parameters

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

**Status code: 403****Table 5-16** Response body parameters

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

**Status code: 404****Table 5-17** Response body parameters

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

**Status code: 500****Table 5-18** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/2ab0e6a3-3e1a-4708-bb16-fff2b0999027/flow-graph
```

## Example Responses

**Status code: 200**

OK

```
{
  "success" : true,
  "result" : {
    "edges" : [ {
      "from" : "d5587caf-05d7-42af-8ed2-daa20eb1de1b",
      "to" : "af81a8ff-1d53-4e0a-9108-fa7880366e73"
    } ],
    "vertices" : [ {
      "id" : "7607d919-6c21-43b3-a06e-ee016ff8e7c7",
      "status" : "SUCCESS",
      "display_name" : "job4",
      "build_duration" : 38156,
      "start_time" : "2020-12-30T17:33:11+08:00",
      "finish_time" : "2020-12-30T17:33:27+08:00",
      "build_no" : "535"
    } ]
  }
}
```

## 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class ShowFlowGraphSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowFlowGraphRequest request = new ShowFlowGraphRequest();
```

```
try {
    ShowFlowGraphResponse response = client.showFlowGraph(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = ShowFlowGraphRequest()
        response = client.show_flow_graph(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
    codeartsbuild.CodeArtsBuildClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowFlowGraphRequest{}
response, err := client.ShowFlowGraph(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 5.3 Obtaining Build Records (Unavailable Soon)

## Function

This API is used to obtain build records (unavailable soon).

## Calling Method

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

## URI

GET /v3/jobs/{job\_id}/{build\_no}/record-info

**Table 5-19** Path Parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID. The task ID contains the 32 digits and letters at the end of the browser URL when the build task is edited.
build_no	Yes	Integer	Build number of the task, which automatically increases from 1 by 1 each time the build task is executed.

## Request Parameters

**Table 5-20** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

## Response Parameters

**Status code: 200**

**Table 5-21** Response body parameters

Parameter	Type	Description
success	Boolean	Status.
message	String	Message.
err_code	String	Error code.

Parameter	Type	Description
result	<b>result</b> object	Result.

**Table 5-22** result

Parameter	Type	Description
id	String	id
build_project_id	String	Build project ID, which uniquely corresponds to <b>codeci_job_id</b> .
build_record_id	String	Build record ID.
parent_record_id	String	Parent build record ID.
devcloud_project_id	String	Project ID.
codeci_job_id	String	Build task ID, which uniquely corresponds to <b>build_project_id</b> .
user_id	String	User ID.
build_no	Integer	Build ID.
daily_build_num	String	Daily build ID, which starts from 1 every day.
execution_id	String	CloudOctopus task ID.
repo_name	String	Repository name.
repo_id	String	Repository ID.
branch	String	Repository branch.
tag	String	Repository tag.
commit	String	Repository commit ID.
commit_message	String	Information about the repository commit.
commit_create_time	String	Commit creation time.
trigger_type	String	Trigger type.
build_type	String	Build type.
status	String	Build status.
domain_id	String	Tenant ID.

Parameter	Type	Description
create_time	String	Task creation time.
schedule_time	String	Time for delivering builds.
queued_time	String	Build queuing duration.
start_time	String	Build start time.
runnable_time	String	Time when CloudOctopus really starts building.
finish_time	String	Build end time.
duration	Float	Build duration.
record_status	String	Record status.
use_private_slave	Integer	Whether to use a custom executor.
region	String	Region of the tenant.
err_msg	String	Error message.
build_config_type	String	Build configuration type, which can be <b>YAML</b> or <b>ACTION</b> .

**Status code: 400****Table 5-23** Response body parameters

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

**Status code: 401****Table 5-24** Response body parameters

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

**Status code: 403**

**Table 5-25** Response body parameters

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

**Status code: 404****Table 5-26** Response body parameters

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

**Status code: 500****Table 5-27** Response body parameters

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

## Example Requests

```
GET https://{endpoint}/v3/jobs/cb5fa20de5fd4cf8be681d4bd6fdd2f6/61/record-info
```

## Example Responses

**Status code: 200**

OK

```
{
  "success" : true,
  "result" : {
    "id" : "eb9d73c7-61b3-4823-b476-a7c00c493b8a",
    "build_project_id" : "31581e9f-5772-4053-a50c-d5690578c8fd",
    "build_record_id" : "9d6169b9-022d-458c-9dc8-48cc94cc4083",
    "parent_record_id" : null,
    "devcloud_project_id" : "b4d3971c3988463b865f6f920846149e",
    "codeci_job_id" : "68491d9bc97b4774adb93e29b46d2dc6",
    "user_id" : "ae22fd035f354cfa8d82a3f1c8940446",
    "build_no" : 532,
    "daily_build_num" : "20221011.29",
    "execution_id" : "j_YE1bu9Z7",
    "repo_name" : "maven",
    "repo_id" : "2111616838",
    "branch" : "buildflow_env",
```

```
"tag" : null,
"commit" : null,
"commit_message" : null,
"commit_create_time" : "2022-10-11T08:28:42.000+00:00",
"trigger_type" : "MANUAL",
"build_type" : "branch",
"status" : "SUCCESS",
"domain_id" : "60021bab32fd450aa2cb89226f425e06",
"create_time" : "2022-10-11T08:28:42.000+00:00",
"schedule_time" : "2022-10-11T08:28:45.000+00:00",
"queued_time" : "2022-10-11T08:28:45.000+00:00",
"start_time" : "2022-10-11T08:28:47.000+00:00",
"runnable_time" : "2022-10-11T08:16:04.000+00:00",
"finish_time" : "2022-10-11T08:30:27.000+00:00",
"duration" : 100068,
"record_status" : null,
"use_private_slave" : 0,
"region" : "cn-north-7",
"err_msg" : null,
"build_config_type" : "YAML"
}
```

## Status Codes

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

## Error Codes

See [Error Codes](#).

## 5.4 Stopping a Build Task (Unavailable Soon)

### Function

This API is used to stop a build task (available soon).

### Calling Method

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

### URI

POST /v3/jobs/stop

## Request Parameters

**Table 5-28** Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API. (Value of <b>X-Subject-Token</b> in the response header.) Global tenant tokens are not supported. Use a region-level token whose scope is <b>project</b> .

**Table 5-29** Request body parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Build task ID, which contains the 32 digits and letters at the end of the browser URL when the build task is edited.
build_no	Yes	String	Build number of the task, which automatically increases from 1 by 1 each time the build task is executed.

## Response Parameters

**Status code: 200**

**Table 5-30** Response body parameters

Parameter	Type	Description
result	Boolean	Result of stopping a build.

**Status code: 400**

**Table 5-31** Response body parameters

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

**Status code: 401****Table 5-32** Response body parameters

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

**Status code: 403****Table 5-33** Response body parameters

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

**Status code: 404****Table 5-34** Response body parameters

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

**Status code: 500****Table 5-35** Response body parameters

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

**Example Requests**

```
POST https://{endpoint}/v3/jobs/Stop
{
  "job_id" : "f9d6c8466d614a9788e9a0acf6c15f46",
  "build_no" : "20"
}
```



## Example Responses

**Status code: 200**

OK

```
{
  "result" : 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.codeartsbuild.v3.region.CodeArtsBuildRegion;
import com.huaweicloud.sdk.codeartsbuild.v3.*;
import com.huaweicloud.sdk.codeartsbuild.v3.model.*;

public class StopJobSolution {

    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);

        CodeArtsBuildClient client = CodeArtsBuildClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsBuildRegion.valueOf("<YOUR REGION>"))
            .build();
        StopJobRequest request = new StopJobRequest();
        StopJobRequestBody body = new StopJobRequestBody();
        body.withBuildNo("20");
        body.withJobId("f9d6c8466d614a9788e9a0acf6c15f46");
        request.withBody(body);
        try {
            StopJobResponse response = client.stopJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

## Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsbuild.v3.region.codeartsbuild_region import CodeArtsBuildRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsbuild.v3 import *

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

    credentials = BasicCredentials(ak, sk) \

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

    try:
        request = StopJobRequest()
        request.body = StopJobRequestBody(
            build_no="20",
            job_id="f9d6c8466d614a9788e9a0acf6c15f46"
        )
        response = client.stop_job(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"
    codeartsbuild "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsbuild/v3/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 := codeartsbuild.NewCodeArtsBuildClient(
        codeartsbuild.CodeArtsBuildClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
```

```
Build()  
  
request := &model.StopJobRequest{}  
request.Body = &model.StopJobRequestBody{  
    BuildNo: "20",  
    JobId: "f9d6c8466d614a9788e9a0acf6c15f46",  
}  
response, err := client.StopJob(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
500	Internal Server Error

## Error Codes

See [Error Codes](#).

# 6 Application Examples

---

## 6.1 Example 1: Executing a Build Task and Checking Its Status

### Scenario

This section describes how to use APIs to execute a build task and check whether the task is running.

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

### Constraints

The build task to execute has already been created in CodeArts Build.

### Involved APIs

Execute the build task using a user token and task ID, and then check the task status based on the task ID. The procedure is as follows:

1. [Executing a build task](#).
2. [Querying task running status](#).

### Procedure

**Step 1** Execute a build task.

- API information

URI: **POST /v3/jobs/build**

For details about the API, see [Execute the Build Task](#).

- Example request

```
POST https://cloudbuild-ext.ap-southeast-3.myhuaweicloud.com/v3/jobs/build
```

- Example request body

```
{  
  "job_id": "3341eaf0de6844669f07baa1ddfc9..."  
}
```

- Example response

```
{
  "octopus_job_name": "j_WfRE6eOY",
  "actual_build_number": "55",
  "daily_build_number": "20200825.1"
}
```

**Step 2** Check whether the task is running.

- API information

URI: **GET /v3/jobs/{job\_id}/status**

For details about the API, see [Viewing the Running Status of a Task](#).

- Example request

```
GET https://cloudbuild-ext.ap-southeast-3.myhuaweicloud.com/v3/jobs/
3341eaf0de6844669f07bdfc9.../status
```

- Example response

```
{
  "result": false
}
```

----End

## 6.2 Example 2: Querying Build Tasks by Project ID

### Scenario

This section describes how to use an API to query build tasks by project ID.

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

### Constraints

The project already exists and build tasks have already been created in CodeArts Build.

### Involved APIs

API for [querying build tasks](#) by user token and project ID.

### Procedure

**Step 1** Query the build tasks in a specified project.

- API information

URI: **GET /v3/{project\_id}/jobs**

For details about the API, see [Viewing the build task List of Users in a Project](#).

- Example request

```
GET https://cloudbuild-ext.ap-
southeast-3.myhuaweicloud.com/v3/8391ec48637849f384dd3db5c8d61.../jobs?
page_index=0&page_size=2
```

- Example response

```
{
  "total": 35,
  "jobs": [{
```

```
"id": "d62d64d7782545c696ffaacc9ac9c69a",
"job_name": "Build-Create_Images_and_Push_to_SWR",
"job_creator": "b7066bfb50194e36b472a61f088bbf72",
"user_name": "L0_codeci",
"last_build_time": 1598438571000,
"health_score": 100,
"source_code": "codeci",
"last_build_status": "blue",
"is_finished": true,
"disabled": false,
"favorite": true,
"is_modify": true,
"is_delete": true,
"is_execute": true,
"is_copy": true,
"is_forbidden": true,
"is_view": true
},
{
  "id": "4485de11a8e74ffdb9c9f85bafb85f83",
  "job_name": "Build-Use_SWR_Public_Images",
  "job_creator": "b7066bfb50194e36b472a61f088bbf72",
  "user_name": "L0_codeci",
  "last_build_time": 1598438567000,
  "health_score": 100,
  "source_code": "codeci",
  "last_build_status": "blue",
  "is_finished": true,
  "disabled": false,
  "favorite": true,
  "is_modify": true,
  "is_delete": true,
  "is_execute": true,
  "is_copy": true,
  "is_forbidden": true,
  "is_view": true
}
}]
```

----End

# 7 Appendix

## 7.1 Status Codes

[Table 7-1](#) describes status codes.

**Table 7-1** Status codes

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	The protocol should be switched only when it is advantageous to do so. For example, the current HTTP protocol is switched to a later version.
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.

Status Code	Message	Description
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.
206	Partial Content	The server has fulfilled the partial GET request for the resource.
300	Multiple Choices	The response contains a list of resource characteristics and addresses from which a user terminal (such as a browser) can choose the most appropriate one.
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	The response to the request can be found under a different URI and should be retrieved using a GET or POST method.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, no resource is returned.
305	Use Proxy	The requested resource is available only through a proxy.
306	Unused	This HTTP status code is no longer used.
400	BadRequest	Invalid request. The client should modify the request instead of re-initiating it.
401	Unauthorized	The 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.



Status Code	Message	Description
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.
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.

Status Code	Message	Description
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.
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.

## 7.2 Error Codes

If an error occurs in API calling and no result is returned, identify the error cause based on the error codes of each API.

If an error occurs in API calling (for example, HTTP status code **400** or **505** is returned), the response body contains the specific error code and 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, the system returns an error code and message to you. The following shows the format of an error response body:

```
{  
  "error_msg": "Internal service exception",  
  "error_code": "CB.00060101"  
}
```

In the preceding information, **error\_code** is an error code, and **error\_msg** describes the error.

## Error Code Description

If an error code starting with **APIGW** is returned after you call an API, rectify the fault by referring to the instructions provided in [API Gateway Error Codes](#).

Status Code	Error Code	Error Message	Description	Measure
500	CB.00060100	Network busy. Try again later.	Network busy. Try again later.	Try again later.
500	CB.00060101	Internal error.	Internal error.	Internal error.
400	CB.00060200	Invalid parameter.	Invalid parameter.	Check whether the parameter value is valid.
400	CB.00060201	Invalid task ID.	Invalid task ID.	Enter a valid task ID.
400	CB.00060202	Invalid service ID.	Invalid service ID.	The service ID can contain only lowercase letters and digits. Check whether the parameter is valid.
400	CB.00060203	Invalid file name.	Invalid file name.	The file name cannot be empty and cannot exceed 500 characters.
500	CB.00060211	Too many requests. Try again later.	Too many requests. Try again later.	Try again later.
400	CB.00060212	The file cannot be empty.	The file cannot be empty.	Check whether a file is selected for upload.
400	CB.00060213	You can upload a maximum of x files.	You can upload a maximum of x files.	Reduce the number of files to be uploaded at a time.

Status Code	Error Code	Error Message	Description	Measure
404	CB.00060214	URL not found.	Invalid URL.	Check whether the requested URL is correct.

## 7.3 Obtaining a Project ID

### Obtaining a Project ID by Calling an API

You can obtain a project ID by calling the API used to [query projects based on specified criteria](#).

The API used to obtain a project ID is **GET [https://{Endpoint}/v3/projects/](#)**, where *{Endpoint}* indicates the IAM endpoint. You can obtain the IAM endpoint from [Regions and Endpoints](#). For details about API authentication, see [Authentication](#).

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

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",

      "name": "ap-southeast-3",

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

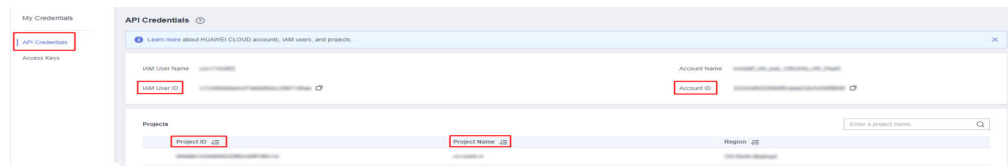
### Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Hover over your username in the upper right corner and choose **My Credentials** from the drop-down list.

On the **API Credentials** page, view project IDs in the project list.

Figure 7-1 Viewing project IDs



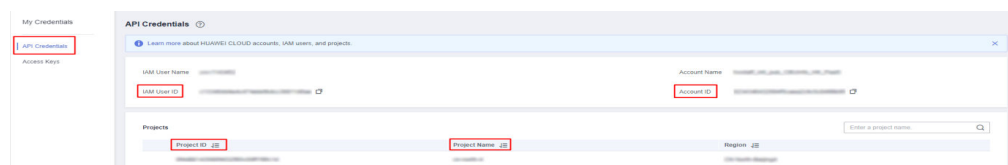
## 7.4 Obtaining an Account ID

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

1. Log in to the management console.
2. Hover over your username in the upper right corner and choose **My Credentials** from the drop-down list.

On the **API Credentials** page, view the **Account ID**.

Figure 7-2 Obtaining the account ID



# 8 Change History

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

What's New	Released On
Added APIs for: <b>downloading real-time build logs</b> and <b>obtaining build records of a task</b>	2024-01-16
Added APIs for: <b>downloading all build logs, downloading logs of build actions, obtaining information about build records, updating a build task, querying build templates, creating a build template, deleting a build template, creating a build task, querying notifications, updating notifications, canceling notifications,</b> and <b>obtaining build task details</b> Added out-of-date APIs for: <b>downloading build logs, obtaining directed acyclic graphs of build records, obtaining build records,</b> and <b>stopping a build task</b>	2023-11-13
<ul style="list-style-type: none"><li>Added the API for <b>obtaining build record information</b>.</li><li>Added the API for <b>stopping the build task</b>.</li><li>Added the API for <b>deleting a build task</b>.</li><li>Added the API for <b>disabling a build task</b>.</li><li>Added the API for <b>restoring a build task</b>.</li></ul>	2023-10-19
Updated error codes.	2023-03-29
<ul style="list-style-type: none"><li>Added the API for <b>querying success rate of a build task in a specified period</b>.</li><li>Modified the description of <b>X-Auth-Token</b> for all APIs.</li></ul>	2022-04-15

What's New	Released On
Changed error code <b>DEVCB.00060200</b> into <b>CB.00060200</b> .	2021-12-27
<ul style="list-style-type: none"><li>Added the API for <a href="#">querying details of a build record</a>.</li><li>Added response parameters of the API for <a href="#">querying history of a build task in a specified period</a>.</li></ul>	2021-12-25
<ul style="list-style-type: none"><li>Added the API for <a href="#">querying the latest successful build with a specified code repository</a>.</li><li>Updated some field types and descriptions.</li></ul>	2021-08-11
Added APIs for <a href="#">querying history of a build task in a specified period</a> and <a href="#">querying history of a build task</a> .	2021-03-01
Updated the example response of the API for <a href="#">querying build tasks in a project</a> .	2020-11-23
Added <a href="#">Application Examples</a> .	2020-08-27
<ul style="list-style-type: none"><li>Updated the authentication description.</li><li>Updated the error code list.</li></ul>	2020-08-18
This is the first official release.	2020-05-26