

CodeArts Deploy

API Reference

Issue	03
Date	2026-09-30



Copyright © Huawei Technologies Co., Ltd. 2026. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions



HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Security Declaration

Vulnerability

Huawei's regulations on product vulnerability management are subject to the *Vul. Response Process*. For details about this process, visit the following web page:

<https://www.huawei.com/en/psirt/vul-response-process>

For vulnerability information, enterprise customers can visit the following web page:

<https://securitybulletin.huawei.com/enterprise/en/security-advisory>

Contents

1 Before You Start..... 1

2 API Overview..... 3

3 Calling APIs..... 4

3.1 Making an API Request..... 4

3.2 Authentication..... 7

3.3 Response..... 9

4 APIs..... 11

4.1 Managing Host Clusters..... 11

4.1.1 Creating a Host Cluster..... 11

4.1.2 Querying a Host Cluster List..... 18

4.1.3 Deleting a Host Cluster..... 28

4.1.4 Querying a Host Cluster..... 32

4.1.5 Modifying a Host Cluster..... 40

4.1.6 Creating a Host Cluster (Recommended)..... 46

4.1.7 Querying a Host Cluster List (Recommended)..... 53

4.1.8 Querying a Host Cluster (Recommended)..... 63

4.1.9 Editing a Host Cluster..... 71

4.1.10 Deleting a Host Cluster (Recommended)..... 76

4.1.11 Querying Information About the Environment Associated with a Host Cluster..... 80

4.1.12 Querying the Basic Environment Information List of an Application..... 85

4.2 Managing Hosts..... 91

4.2.1 Creating a Host..... 91

4.2.2 Querying a Host List..... 100

4.2.3 Querying Host Details..... 112

4.2.4 Modifying a Host..... 121

4.2.5 Deleting a Host..... 130

4.2.6 Creating a Host (Recommended)..... 135

4.2.7 Querying a Host List (Recommended)..... 144

4.2.8 Querying Host Details (Recommended)..... 155

4.2.9 Editing Host Information in a Host Cluster..... 164

4.2.10 Deleting a Host from a Host Cluster..... 171

4.2.11 Cloning Hosts to the Target Host Cluster in Batches..... 176

4.2.12 Deleting Hosts from a Host Cluster in Batches.....	181
4.3 Managing Applications.....	186
4.3.1 Querying Application Operation History.....	186
4.3.2 Obtaining an Application List.....	193
4.3.3 Querying All Logs.....	206
4.3.4 Creating an Application Using a Template.....	211
4.3.5 Deploying an Application.....	225
4.3.6 Obtaining the Details of an Application.....	234
4.3.7 Deleting an Application.....	246
4.3.8 Querying the Historical Deployment Records of a Specified Application in a Project by the Start Time and End Time.....	250
4.3.9 Obtaining an Application List (Recommended).....	259
4.3.10 Creating an Application (Recommended).....	272
4.3.11 Updating an Application.....	288
4.3.12 Obtaining Application Details (Recommended).....	301
4.3.13 Deleting an Application (Recommended).....	318
4.3.14 Querying the Execution Parameters of a Deployment Record.....	324
4.3.15 Cloning an Application.....	330
4.3.16 Deleting Applications from a Project in Batches.....	334
4.3.17 Checking Whether an Application with the Same Name Exists in a Project.....	339
4.3.18 Disabling and Enabling an Application.....	343
4.3.19 Obtaining System Parameters.....	348
4.3.20 Querying Application Notification Configurations.....	351
4.3.21 Obtaining the Deployment Task Status.....	358
4.3.22 Stopping a Deployment Task.....	363
4.4 Managing Application Groups.....	366
4.4.1 Querying a Group List.....	367
4.4.2 Creating a Group.....	373
4.4.3 Modifying a Group.....	377
4.4.4 Deleting a Group.....	382
4.4.5 Moving a Group.....	386
4.4.6 Moving an Application to a Specified Group.....	390
4.5 Managing Application Permissions.....	395
4.5.1 Querying the Instance-Level/Project-Level Permission Matrix of an Application.....	395
4.5.2 Modifying Application Permissions in Batches.....	401
4.5.3 Configuring Authentication Levels for Applications in Batches.....	406
4.5.4 Checking whether the current user has the permission to create applications in a project.....	411
4.6 Measuring Deployment Record.....	415
4.6.1 Obtaining the Application Deployment Success Rate in a Specified Project.....	415
4.6.2 Obtaining the Application Deployment Success Rate in a Specified Application.....	422
4.7 Managing Environments.....	429
4.7.1 Creating an Environment for an Application.....	429
4.7.2 Querying an Environment List of an Application.....	436

4.7.3 Editing an Environment in an Application.....	445
4.7.4 Deleting an Environment from an Application.....	450
4.7.5 Querying Environment Details.....	455
4.7.6 Importing a Host to an Environment.....	462
4.7.7 Deleting a Host from an Environment.....	468
4.7.8 Querying a Host List in an Environment.....	473
4.8 Managing Host Cluster Permissions.....	481
4.8.1 Querying the Host Cluster Permission Matrix.....	481
4.8.2 Modifying the Host Cluster Permission Matrix.....	484
4.8.3 Checking Whether the Current User Has Permissions to Create a Host Cluster in a Project.....	487
4.9 Managing Environment Permissions.....	491
4.9.1 Querying Environment Permissions.....	491
4.9.2 Editing Environment Permission.....	494
4.10 Deployment Job Management.....	497
4.10.1 Querying Deployment Job Triggering Rule Settings.....	497
4.10.2 Rolling Back a Deployment.....	500
5 Application Examples.....	505
5.1 Example 1: Querying a Host Cluster List.....	505
5.2 Example 2: Querying Host Cluster Details by ID.....	506
5.3 Example 3: Querying the Host List of a Specified Host Cluster.....	508
6 Actions Supported by Identity Policy-based Authorization.....	510
7 Appendixes.....	523
7.1 Status Codes.....	523
7.2 Error Codes.....	526
7.3 Obtaining a Project ID.....	544
7.3.1 Obtaining a CodeArts Project ID.....	544
7.3.2 Obtaining an IAM Project ID.....	544
7.4 Obtaining an Account ID.....	545

1 Before You Start

Welcome to CodeArts Deploy. CodeArts Deploy provides visualized, one-click deployment. It supports deployment on VMs or containers by using Tomcat, Spring Boot, and other templates or by flexibly orchestrating atomic actions. It also supports parallel deployment and seamless integration with CodeArts Pipeline, providing standard deployment environments and implementing automatic deployment.

You can use the APIs described in this document to perform various operations, such as creating hosts and host clusters, and deploying applications. For details about all supported operations, see [API Overview](#).

If you plan to access CodeArts Deploy through an API, ensure that you are familiar with CodeArts Deploy concepts. For details, see [About CodeArts Deploy](#).

Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. You can query the endpoints of a service from "Regions and Endpoints".

Table 1 lists the endpoints of CodeArts Deploy. Select a desired one based on the service requirements.

Table 1-1 CodeArts Deploy endpoints

Region Name	Region	Endpoint	Protocol
AP-Singapore	ap-southeast-3	codearts-deploy.ap-southeast-3.myhuaweicloud.com	HTTPS
LA-Mexico City2	la-north-2	codearts-deploy.la-north-2.myhuaweicloud.com codearts-deploy.la-north-2.myhuaweicloud.lat	HTTPS

Region Name	Region	Endpoint	Protocol
LA-Sao Paulo1	sa-brazil-1	codearts-deploy.sa-brazil-1.myhuaweicloud.com codearts-deploy.sa-brazil-1.myhuaweicloud.lat	HTTPS

Glossary

- **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 by an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).

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

Regions are divided from the dimensions of geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants.

For details, see [Region and AZ](#).
- **Availability Zone (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 (compute, storage, and network resources) across physical regions. A default project is provided for each Huawei Cloud region, and you can create subprojects under the project. Users can be given access to all resources in a specific project. For more precise permission control, create subprojects under the region's default project, allocate resources there, and assign permissions at the subproject level. Thus, users can only access resources in specific subprojects.

You can obtain the project ID on the [My Credentials](#) page.

2 API Overview

Table 2-1 CodeArts Deploy API Overview

Type	API
Host cluster management	This API is used to create host clusters, and query host clusters and the list.
Host management	This API is used to create hosts, and query the host list and details.
Application management	This API is used to create applications, obtain the application list, and deploy applications.
Application group management	This API is used to query the group list, create, modify, delete, or move a group, and move applications to a specified group.
Application permission management	This API is used to query the instance-level or project-level permission matrix of an application, and modify application permissions and configure application authentication-level in batches.
Deployment record measurement	This API is used to obtain the deployment success rate of a specified project or application.
Environment management	This API is used to create an environment, query the environment list and details.
Host cluster permission management	This API is used to query and modify the host cluster permission matrix, and check whether the current user has the permission to create a host cluster in the project.
Environment permission management	This API is used to query and edit environment permissions.

3 Calling APIs

[Making an API Request](#)

[Authentication](#)

[Response](#)

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 HTTPS .
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies with services in different regions. It can be obtained from Regions and Endpoints . For example, the endpoint of IAM in the AP-Singapore region is iam.ap-southeast-3.myhuaweicloud.com .
resource-path	Access path of an API for performing a specified operation. The path is part of the API URI. For example, resource-path of the API for an administrator to create an IAM user is /v3.0/OS-USER/users .

Parameter	Description
query-string	(Optional) Query parameter. Ensure that a question mark (?) is included before each query parameter. The parameter format follows " <i>Parameter name=Parameter value</i> ". For example, ?limit=10 indicates that a maximum of 10 data records will be displayed.

For example, if you want to create an IAM user, use the endpoint of any region because IAM is a global service. Obtain the endpoint of the **AP-Singapore** region (**iam.ap-southeast-3.myhuaweicloud.com**) and find **resource-path** (**/v3.0/OS-USER/users**) in the URI of the API for **creating an IAM user**. Then, construct them as follows:

```
https://iam.ap-southeast-3.myhuaweicloud.com/v3.0/OS-USER/users
```

Figure 3-1 Example URI



NOTE

To simplify the URI display in this document, each API is provided only with a resource path and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

Request Methods

HTTP defines the following request methods that can be used to send a request to the server.

Request Method	Description
GET	Request the server to return a specific resource.
PUT	Request the server to update a specific resource.
POST	Request the server to create a new resource or perform a special operation.
DELETE	Request the server to delete a specific resource, such as an object.
HEAD	Request the server to return the response header.
PATCH	Requests the server to update partial contents of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the URI of the API for [creating an IAM user](#), the request method is **POST**. An example request is as follows:

```
POST https://iam.ap-southeast-3.myhuaweicloud.com/v3.0/OS-USER/users
```

Request Header

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

Common request header fields:

- **Content-Type**: specifies the request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.
- **Authorization**: provides signature authentication information. This field is optional. When AK/SK authentication is enabled, this field is automatically specified for signing the request with SDK. For more information, see [AK/SK Authentication](#).
- **X-Sdk-Date**: time when a request is sent. This field is optional. When AK/SK authentication is enabled, this field is automatically specified when SDK is used to sign the request. For more information, see [AK/SK Authentication](#).
- **X-Auth-Token**: a user token only for token-based API authentication. The user token is a response to the API used to [obtain a user token](#). Only this API does not require authentication.
- **X-Project-ID**: subproject ID. This field is optional and can be used in multi-project scenarios. The **X-Project-ID** field is mandatory in the request header for accessing resources in a sub-project through AK/SK authentication.
- **X-Domain-ID**: account ID, which is optional. When you call APIs of global services using AK/SK authentication, **X-Domain-ID** is needed in the request header.

The following shows an example request of the API for [creating an IAM user](#) when AK/SK authentication is used:

```
POST https://iam.ap-southeast-3.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****
```

Request Body

A request body is generally sent in structured format. It corresponds to **Content-Type** in the request header and transfers content except the request header.

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

In the case of the API used to [obtain a user token](#), the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace the italic fields in bold with the actual values.

- Replace **username** with the actual username.
- **domainname**: account to which the user belongs
- *********: login password of the user
- **xxxxxxxxx** indicates the project name, for example ap-southeast-3. You can obtain the value 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](#).

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": "xxxxxxxx"
      }
    }
  }
}
```

If all data required by a 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 for obtaining a user token.

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

To obtain a token, call the API by referring to [Obtaining a User Token](#). This service requires a project-level token to call APIs, you must set **auth.scope** in the request body to **project**.

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

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

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

AK/SK-based Authentication

NOTE

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

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

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

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

NOTICE

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

3.3 Response

Status Codes

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

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

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

Response Header

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

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

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

```
connection → keep-alive
content-type → application/json
date → Tue, 12 Feb 2019 06:52:13 GMT
server → Web Server
strict-transport-security → max-age=31536000; includeSubdomains;
transfer-encoding → chunked
via → proxy A
x-content-type-options → nosniff
x-download-options → noopen
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → [REDACTED]
x-xss-protection → 1; mode=block
```

Response Body

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

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

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

```

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

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

In the response message body, **error_code** is an error code, and **error_msg** provides information about the error.

4 APIs

- [Managing Host Clusters](#)
- [Managing Hosts](#)
- [Managing Applications](#)
- [Managing Application Groups](#)
- [Managing Application Permissions](#)
- [Measuring Deployment Record](#)
- [Managing Environments](#)
- [Managing Host Cluster Permissions](#)
- [Managing Environment Permissions](#)
- [Deployment Job Management](#)

4.1 Managing Host Clusters

4.1.1 Creating a Host Cluster

Function

This API is used to create a host cluster in a project. This API will not be maintained after September 30, 2024. You can use the CreateHostCluster API instead.

Calling Method

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

URI

POST /v2/host-groups

Request Parameters

Table 4-1 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-2 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Host cluster name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). Default value: N/A.

Parameter	Mandatory	Type	Description
region_name	Yes	String	Definition Region ID. For details, see Region . Constraints N/A Range The value can contain a maximum of 255 characters, including only letters, digits, hyphens (-), and underscores (_). Default value N/A
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
os	Yes	String	Definition: OS of the host cluster. Constraints: N/A. Value range: • window: Windows OS. • linux: Linux OS. Default value: N/A.

Parameter	Mandatory	Type	Description
slave_cluster_id	No	String	Definition Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used. Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
description	No	String	Definition: Host cluster description. Constraints: N/A. Value range: String. 0 to 500 characters. Default value: N/A.
is_proxy_mode	No	Integer	Definition Whether the host cluster is in the agent mode. Constraints N/A Range • 0: Non-agent-mode host cluster. • 1: Agent-mode host cluster. Default value 1.

Response Parameters

Status code: 200

Table 4-3 Response body parameters

Parameter	Type	Description
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.

Example Requests

When creating a host cluster, you need to enter basic information, including the host cluster name, description, operating system, and whether be proxy access mode.

```
https://{endpoint}/v2/host-groups

{
  "name" : "test123",
  "description" : "",
  "region_name" : "region-a",
  "project_id" : "6039d4480efc4dddb178abff98719913",
  "os" : "linux",
  "slave_cluster_id" : "",
  "is_proxy_mode" : 1
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "group_id" : "f3938bd63e354d2bb9d9cf7b5dc3bf95"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

When creating a host cluster, you need to enter basic information, including the host cluster name, description, operating system, and whether be proxy access mode.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;
```

```
public class CreateDeploymentGroupSolution {

    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);

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

        CreateDeploymentGroupRequest request = new CreateDeploymentGroupRequest();
        DeploymentGroup body = new DeploymentGroup();
        body.withIsProxyMode(1);
        body.withDescription("");
        body.withSlaveClusterId("");
        body.withOs(DeploymentGroup.OsEnum.fromValue("linux"));
        body.withProjectId("6039d4480efc4dddb178abff98719913");
        body.withRegionName("region-a");
        body.withName("test123");
        request.withBody(body);
        try {
            CreateDeploymentGroupResponse response = client.createDeploymentGroup(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

When creating a host cluster, you need to enter basic information, including the host cluster name, description, operating system, and whether be proxy access mode.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

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

credentials = BasicCredentials(ak, sk)

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

try:
    request = CreateDeploymentGroupRequest()
    request.body = DeploymentGroup(
        is_proxy_mode=1,
        description="",
        slave_cluster_id="",
        os="linux",
        project_id="6039d4480efc4dddb178abff98719913",
        region_name="region-a",
        name="test123"
    )
    response = client.create_deployment_group(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

When creating a host cluster, you need to enter basic information, including the host cluster name, description, operating system, and whether be proxy access mode.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateDeploymentGroupRequest{
        isProxyModeDeploymentGroup:= int32(1)
        descriptionDeploymentGroup:= ""
    }
```

```
slaveClusterIdDeploymentGroup:= ""
request.Body = &model.DeploymentGroup{
    IsProxyMode: &isProxyModeDeploymentGroup,
    Description: &descriptionDeploymentGroup,
    SlaveClusterId: &slaveClusterIdDeploymentGroup,
    Os: model.GetDeploymentGroupOsEnum().LINUX,
    ProjectId: "6039d4480efc4dddb178abff98719913",
    RegionName: "region-a",
    Name: "test123",
}
response, err := client.CreateDeploymentGroup(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.2 Querying a Host Cluster List

Function

This API is used to query a host cluster list by specified criteria. This API will not be maintained after September 30, 2024. You can use the ListHostClusters API instead.

Calling Method

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

URI

GET /v2/host-groups

Table 4-4 Query Parameters

Parameter	Mandatory	Type	Description
project_id	No	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
region_name	Yes	String	Definition Region ID. For details, see Region . Constraints N/A Range The value can contain a maximum of 255 characters, including only letters, digits, hyphens (-), and underscores (_). Default value N/A
os	No	String	Definition: OS of the host cluster. Constraints: N/A. Value range: • window: Windows OS. • linux: Linux OS. Default value: N/A.

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset from which the query starts. Constraints: N/A. Value range: 0–2147483647 Default value: 0
limit	No	Integer	Definition: Number of items displayed on each page. Constraints: N/A. Value range: 1–1000 Default value: 1000
name	No	String	Definition: Keyword in the host cluster name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). Default value: N/A.
sort_key	No	String	Definition: Sorting field query. Constraints: N/A. Value range: • nick_name: Nickname. • name: Host cluster name. Default value: N/A.

Parameter	Mandatory	Type	Description
sort_dir	No	String	Definition: Sorting order. Constraints: N/A. Value range: • desc: Descending order. • asc: Ascending order. Default value: desc

Request Parameters

Table 4-5 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-6 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Number of host clusters. Value range: 0–1,000.

Parameter	Type	Description
host_groups	Array of DeploymentGroupDetail objects	Definition: Host cluster list.

Table 4-7 DeploymentGroupDetail

Parameter	Type	Description
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.
created_time	String	Definition: Creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
updated_time	String	Definition: Update time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
host_count	Integer	Definition: Number of hosts in a cluster. Value range: 0-200
project_name	String	Definition: Project name. Value range: 3 to 128 characters, including letters and digits.
name	String	Definition: Host cluster name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).

Parameter	Type	Description
region_name	String	Definition Region ID. For details, see Region . Range The value can contain a maximum of 255 characters, including only letters, digits, hyphens (-), and underscores (_).
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
os	String	Definition: OS of the host cluster. Value range: • window: Windows OS. • linux: Linux OS.
auto_connection_test_switch	Integer	Definition: The automatic test function has been removed. This field is invalid. Value range: N/A.
slave_cluster_id	String	Definition Self-hosted agent pool ID. Range The value contains 32 characters. Only letters and digits are supported.
nick_name	String	Definition: Nickname of the creator. Value range: String. 1 to 30 characters.
created_by	UserInfo object	Parameter description: Information about the creator, including the user ID and username.
updated_by	UserInfo object	Parameter description: Information about the updater, including the user ID and username.

Parameter	Type	Description
description	String	Definition: Host cluster description. Value range: String. 0 to 500 characters.
permission	PermissionGroupDetail object	Parameter description: Operation permission matrix of the current user on the host cluster.

Table 4-8 UserInfo

Parameter	Type	Description
user_id	String	Parameter description: User ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.
user_name	String	Parameter description: Username. Value range: The value consists of 1-255 characters. Only letters and digits are allowed.

Table 4-9 PermissionGroupDetail

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: - true: Yes. - false: No.
can_edit	Boolean	Definition: Whether you have the edit permission. Value range: - true: Yes. - false: No.

Parameter	Type	Description
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: - true: Yes. - false: No.
can_add_host	Boolean	Definition: Whether you have permission to add hosts. Value range: - true: Yes. - false: No.
can_manage	Boolean	Definition: Whether you have the permission to manage the host cluster permission matrix. Value range: - true: Yes. - false: No.

Example Requests

```
https://{endpoint}/v2/host-groups?region_name=region-a&project_id=6039d4480efc4dddb178abff98719913&offset=1&limit=10&sort_key=name&sort_dir=desc
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "total": 1,
  "host_groups": [ {
    "name": "testwyk",
    "description": "11122211",
    "os": "linux",
    "nick_name": "A/B Side Account",
    "group_id": "ab7647b0863c4e969c8949d38d591339",
    "region_name": "region-a",
    "project_id": "6039d4480efc4dddb178abff98719913",
    "permission": {
      "can_view": true,
      "can_edit": true,
      "can_delete": true,
      "can_add_host": true,
      "can_manage": true
    },
    "created_by": {
      "user_id": "6baa7454109d47c192f22078fe6cda20",
```

```
    "user_name" : "devcloud_devcloud_l00490255_01"
  },
  "updated_by" : {
    "user_id" : "6baa7454109d47c192f22078fe6cda20",
    "user_name" : "devcloud_devcloud_l00490255_01"
  },
  "auto_connection_test_switch" : 0,
  "slave_cluster_id" : "",
  "created_time" : "2021-04-01 17:05:53",
  "updated_time" : "2021-04-21 14:29:14",
  "host_count" : 1,
  "project_name" : null
} ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListHostGroupsSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListHostGroupsRequest request = new ListHostGroupsRequest();
        try {
            ListHostGroupsResponse response = client.listHostGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```



```
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartsdeploy.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsDeployClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsDeployRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = ListHostGroupsRequest()  
        response = client.list_host_groups(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"  
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartsdeploy.NewCodeArtsDeployClient(  
        codeartsdeploy.CodeArtsDeployClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).
```

```
Build()  
  
request := &model.ListHostGroupsRequest{  
response, err := client.ListHostGroups(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.3 Deleting a Host Cluster

Function

This API is used to delete a host cluster by ID. This API will not be maintained after September 30, 2024.

Calling Method

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

URI

DELETE /v2/host-groups/{group_id}

Table 4-10 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-11 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-12 Response body parameters

Parameter	Type	Description
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://{endpoint}/v2/host-groups/f3938bd63e354d2bb9d9cf7b5dc3bf95
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "group_id" : "f3938bd63e354d2bb9d9cf7b5dc3bf95"
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class DeleteDeploymentGroupSolution {

    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);

CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
    .build();
DeleteDeploymentGroupRequest request = new DeleteDeploymentGroupRequest();
request.withGroupId("{group_id}");
try {
    DeleteDeploymentGroupResponse response = client.deleteDeploymentGroup(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteDeploymentGroupRequest()
        request.group_id = "{group_id}"
        response = client.delete_deployment_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteDeploymentGroupRequest{}
    request.GroupId = "{group_id}"
    response, err := client.DeleteDeploymentGroup(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.4 Querying a Host Cluster

Function

This API is used to query details about a host cluster by ID. This API will not be maintained after September 30, 2024. You can use the ShowHostClusterDetail API instead.

Calling Method

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

URI

GET /v2/host-groups/{group_id}

Table 4-13 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-14 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-15 Response body parameters

Parameter	Type	Description
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.
created_time	String	Definition: Creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
updated_time	String	Definition: Update time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
host_count	Integer	Definition: Number of hosts in a cluster. Value range: 0-200
project_name	String	Definition: Project name. Value range: 3 to 128 characters, including letters and digits.
name	String	Definition: Host cluster name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).
region_name	String	Definition Region ID. For details, see Region . Range The value can contain a maximum of 255 characters, including only letters, digits, hyphens (-), and underscores (_).

Parameter	Type	Description
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
os	String	Definition: OS of the host cluster. Value range: • window: Windows OS. • linux: Linux OS.
auto_connection_test_switch	Integer	Definition: The automatic test function has been removed. This field is invalid. Value range: N/A.
slave_cluster_id	String	Definition Self-hosted agent pool ID. Range The value contains 32 characters. Only letters and digits are supported.
nick_name	String	Definition: Nickname of the creator. Value range: String. 1 to 30 characters.
created_by	UserInfo object	Parameter description: Information about the creator, including the user ID and username.
updated_by	UserInfo object	Parameter description: Information about the updater, including the user ID and username.
description	String	Definition: Host cluster description. Value range: String. 0 to 500 characters.
permission	PermissionGroupDetail object	Parameter description: Operation permission matrix of the current user on the host cluster.

Table 4-16 UserInfo

Parameter	Type	Description
user_id	String	Parameter description: User ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.
user_name	String	Parameter description: Username. Value range: The value consists of 1-255 characters. Only letters and digits are allowed.

Table 4-17 PermissionGroupDetail

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.
can_edit	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_add_host	Boolean	Definition: Whether you have permission to add hosts. Value range: - true: Yes. - false: No.
can_manage	Boolean	Definition: Whether you have the permission to manage the host cluster permission matrix. Value range: - true: Yes. - false: No.

Example Requests

https://{endpoint}/v2/host-groups/ab7647b0863c4e969c8949d38d591339

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "name" : "test",
  "description" : "11122211",
  "os" : "linux",
  "region_name" : "region-a",
  "project_id" : "6039d4480efc4dddb178abff98719913",
  "created_by" : {
    "user_id" : "6baa7454109d47c192f22078fe6cda20",
    "user_name" : "user_01"
  },
  "updated_by" : {
    "user_id" : "6baa7454109d47c192f22078fe6cda20",
    "user_name" : "user_01"
  },
  "permission" : {
    "can_view" : true,
    "can_edit" : true,
    "can_delete" : true,
    "can_add_host" : true,
    "can_manage" : true
  },
  "auto_connection_test_switch" : 0,
  "slave_cluster_id" : "",
  "nick_name" : "A/B Side Account",
  "group_id" : "ab7647b0863c4e969c8949d38d591339",
  "created_time" : "2021-04-01 17:05:53",
  "updated_time" : "2021-04-21 14:29:14",
  "host_count" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ShowDeploymentGroupDetailSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowDeploymentGroupDetailRequest request = new ShowDeploymentGroupDetailRequest();
        request.withGroupId("{group_id}");
        try {
            ShowDeploymentGroupDetailResponse response = client.showDeploymentGroupDetail(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment

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

credentials = BasicCredentials(ak, sk)

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

try:
    request = ShowDeploymentGroupDetailRequest()
    request.group_id = "{group_id}"
    response = client.show_deployment_group_detail(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main
```

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowDeploymentGroupDetailRequest{}
    request.GroupId = "{group_id}"
    response, err := client.ShowDeploymentGroupDetail(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.5 Modifying a Host Cluster

Function

This API is used to modify host cluster information by ID. This API will not be maintained after September 30, 2024.

Calling Method

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

URI

PUT /v2/host-groups/{group_id}

Table 4-18 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-19 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-20 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Host cluster name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). Default value: N/A.

Parameter	Mandatory	Type	Description
description	No	String	Definition: Host cluster description. Constraints: N/A. Value range: String. 0 to 500 characters. Default value: N/A.
slave_cluster_id	No	String	Definition: Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
auto_connection_test_switch	No	Integer	The automatic test function has been removed. This field is invalid.

Response Parameters

Status code: 200

Table 4-21 Response body parameters

Parameter	Type	Description
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.

Example Requests

Modify the basic information about the target host cluster, including the host cluster name and description.


```
https://{endpoint}/v2/host-groups/f3938bd63e354d2bb9d9cf7b5dc3bf95

{
  "name" : "test123",
  "description" : "This is a description.",
  "slave_cluster_id" : "",
  "auto_connection_test_switch" : 0
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "group_id" : "f3938bd63e354d2bb9d9cf7b5dc3bf95"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Modify the basic information about the target host cluster, including the host cluster name and description.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class UpdateDeploymentGroupSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateDeploymentGroupRequest request = new UpdateDeploymentGroupRequest();
        request.withGroupId("{group_id}");
        DeploymentGroupUpdateRequest body = new DeploymentGroupUpdateRequest();

        body.setAutoConnectionTestSwitch(DeploymentGroupUpdateRequest.AutoConnectionTestSwitchEnum.NU
MBER_0);
        body.withSlaveClusterId("");
    }
}
```

```
body.withDescription("This is a description.");
body.withName("test123");
request.withBody(body);
try {
    UpdateDeploymentGroupResponse response = client.updateDeploymentGroup(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

Modify the basic information about the target host cluster, including the host cluster name and description.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateDeploymentGroupRequest()
        request.group_id = "{group_id}"
        request.body = DeploymentGroupUpdateRequest(
            auto_connection_test_switch=0,
            slave_cluster_id="",
            description="This is a description.",
            name="test123"
        )
        response = client.update_deployment_group(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Modify the basic information about the target host cluster, including the host cluster name and description.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateDeploymentGroupRequest{}
    request.GroupId = "{group_id}"
    autoConnectionTestSwitchDeploymentGroupUpdateRequest:=
model.GetDeploymentGroupUpdateRequestAutoConnectionTestSwitchEnum().E_0
    slaveClusterIdDeploymentGroupUpdateRequest:= ""
    descriptionDeploymentGroupUpdateRequest:= "This is a description."
    request.Body = &model.DeploymentGroupUpdateRequest{
        AutoConnectionTestSwitch: &autoConnectionTestSwitchDeploymentGroupUpdateRequest,
        SlaveClusterId: &slaveClusterIdDeploymentGroupUpdateRequest,
        Description: &descriptionDeploymentGroupUpdateRequest,
        Name: "test123",
    }
    response, err := client.UpdateDeploymentGroup(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.6 Creating a Host Cluster (Recommended)

Function

This API is used to create a host cluster in a project.

Calling Method

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

URI

POST /v1/resources/host-groups

Request Parameters

Table 4-22 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-23 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Parameter description: Host cluster name. Constraints: N/A Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-), underscores (_), and periods (.) are allowed. Default value: N/A
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Parameter	Mandatory	Type	Description
os	Yes	String	Parameter description: OS of the host cluster. Constraints: N/A Value range: - Windows: Windows OS. - Linux: Linux OS. Default value: N/A
slave_cluster_id	No	String	Definition Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used. Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
description	No	String	Parameter description: Host cluster description. Constraints: N/A Value range: The value is a string of 0 to 500 characters. Default value: N/A

Parameter	Mandatory	Type	Description
is_proxy_mode	Yes	Integer	Definition Whether the host cluster is in the agent mode. Constraints N/A Range • 0: Non-agent-mode host cluster. • 1: Agent-mode host cluster. Default value 1

Response Parameters

Status code: 200

Table 4-24 Response body parameters

Parameter	Type	Description
id	String	Parameter description: Host cluster ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.
status	String	Parameter description: Request success or failure status. Value range: • success: Request succeeded • failed: Request failed

Example Requests

When creating a host cluster, you need to enter basic information, including the host cluster name, description, operating system, and whether be proxy access mode.

```
https://{endpoint}/v1/resources/host-groups
{
  "name" : "test123",
  "description" : "",
  "project_id" : "6039d4480efc4dddb178abff98719913",
  "os" : "linux",
```

```
"slave_cluster_id" : "",  
"is_proxy_mode" : 1  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "id" : "f3938bd63e354d2bb9d9cf7b5dc3bf95"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

When creating a host cluster, you need to enter basic information, including the host cluster name, description, operating system, and whether be proxy access mode.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;  
import com.huaweicloud.sdk.codeartsdeploy.v2.*;  
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;  
  
public class CreateHostClusterSolution {  
  
    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);  
  
        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR_REGION>"))  
            .build();  
        CreateHostClusterRequest request = new CreateHostClusterRequest();  
        CreateHostClusterRequestBody body = new CreateHostClusterRequestBody();  
        body.withIsProxyMode(1);  
        body.withDescription("");  
        body.withSlaveClusterId("");  
        body.withOs(CreateHostClusterRequestBody.OsEnum.fromValue("linux"));  
        body.withProjectId("6039d4480efc4ddb178abff98719913");  
        body.withName("test123");  
        request.withBody(body);  
        try {
```



```
        CreateHostClusterResponse response = client.createHostCluster(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

When creating a host cluster, you need to enter basic information, including the host cluster name, description, operating system, and whether be proxy access mode.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreateHostClusterRequest()
        request.body = CreateHostClusterRequestBody(
            is_proxy_mode=1,
            description="",
            slave_cluster_id="",
            os="linux",
            project_id="6039d4480efc4dddb178abff98719913",
            name="test123"
        )
        response = client.create_host_cluster(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

When creating a host cluster, you need to enter basic information, including the host cluster name, description, operating system, and whether be proxy access mode.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateHostClusterRequest{}
    descriptionCreateHostClusterRequestBody := ""
    slaveClusterIdCreateHostClusterRequestBody := ""
    request.Body = &model.CreateHostClusterRequestBody{
        IsProxyMode: int32(1),
        Description: &descriptionCreateHostClusterRequestBody,
        SlaveClusterId: &slaveClusterIdCreateHostClusterRequestBody,
        Os: model.GetCreateHostClusterRequestBodyOsEnum().LINUX,
        ProjectId: "6039d4480efc4dddb178abff98719913",
        Name: "test123",
    }
    response, err := client.CreateHostCluster(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.7 Querying a Host Cluster List (Recommended)

Function

This API is used to query a host cluster list by specified criteria.

Calling Method

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

URI

GET /v1/resources/host-groups

Table 4-25 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Parameter	Mandatory	Type	Description
name	No	String	Parameter description: Keyword in the host cluster name. Constraints: N/A Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-), underscores (_), and periods (.) are allowed. Default value: N/A
os	No	String	Parameter description: OS of the host cluster. Constraints: N/A Value range: • Windows: Windows OS. • Linux: Linux OS. Default value: N/A
page_index	No	Integer	Parameter description: Page number for pagination query. Constraints: N/A Value range: 1-2,147,483,647 Default value: 1
page_size	No	Integer	Parameter description: Number of items displayed on each page. Constraints: N/A Value range: 1-1,000 Default value: 1,000

Parameter	Mandatory	Type	Description
sort_field	No	String	Parameter description: Sorting field query. Constraints: N/A Value range: • nick_name: Nickname. • name: Host cluster name. Default value: N/A
sort_type	No	String	Parameter description: Sorting order. Constraints: N/A Value range: • desc: Descending order. • asc: Ascending order. Default value: desc
is_proxy_mode	No	Integer	Definition Whether the host cluster is in the agent mode. Constraints N/A Range • 0: Non-agent-mode host cluster. • 1: Agent-mode host cluster. Default value N/A

Parameter	Mandatory	Type	Description
slave_cluster_id	No	String	Definition You can use the default value to query the list of host clusters in the default agent pool, and use the self-hosted agent pool ID to query the list of host clusters in the self-hosted agent pool. Constraints N/A Range Enter 32 characters of letters and digits. You can also use the default value to query the list of host clusters in the default agent pool. Default value N/A

Request Parameters

Table 4-26 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-27 Response body parameters

Parameter	Type	Description
status	String	Parameter description: Request success or failure status. Value range: • success: Request succeeded • failed: Request failed
total	Integer	Parameter description: Number of host clusters. Value range: 0-1,000
result	Array of HostClusterInfo objects	Definition: Host cluster list.

Table 4-28 HostClusterInfo

Parameter	Type	Description
id	String	Parameter description: Host cluster ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.
host_count	Integer	Parameter description: Number of hosts in a cluster. Value range: 0-200
name	String	Parameter description: Host cluster name. Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-), underscores (_), and periods (.) are allowed.

Parameter	Type	Description
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
os	String	Parameter description: OS of the host cluster. Value range: - Windows: Windows OS. - Linux: Linux OS.
slave_cluster_id	String	Definition Self-hosted agent pool ID. Range The value contains 32 characters, including letters and digits. The value can be empty.
description	String	Parameter description: Host cluster description. Value range: The value is a string of 0 to 500 characters.
permission	PermissionClusterDetail object	Parameter description: Operation permission matrix of the current user on the host cluster.
nick_name	String	Definition: Nickname of the creator. Value range: String. 1 to 30 characters.
env_count	Integer	Parameter description: Number of environments associated with a host cluster. Value range: 0-200

Parameter	Type	Description
is_proxy_mode	Integer	Definition Whether the host cluster is in the agent mode. Constraints N/A Range • 0: Non-agent-mode host cluster. • 1: Agent-mode host cluster. Default value N/A

Table 4-29 PermissionClusterDetail

Parameter	Type	Description
can_view	Boolean	Parameter description: Whether a user has the view permission. Value range: • true: With the view permission • false: Without the view permission
can_edit	Boolean	Parameter description: Whether a user has the edit permission. Value range: • true: With the edit permission • false: Without the edit permission
can_delete	Boolean	Parameter description: Whether a user has the delete permission. Value range: • true: With the delete permission • false: Without the delete permission

Parameter	Type	Description
can_add_host	Boolean	Parameter description: Whether a user has the permission to add hosts Value range: • true: With the permission to add hosts • false: Without the permission to add hosts
can_manage	Boolean	Parameter description: Whether a user has permission to manage the host cluster permission matrix Value range: • true: With the permission to manage the host cluster permission matrix • false: Without the permission to manage the host cluster permission matrix
can_copy	Boolean	Parameter description: Whether the user has permission to clone hosts. Value range: • true: The user has permission to copy hosts. • false: The user does not have permission to copy hosts.

Example Requests

```
https://{endpoint}/v1/resources/host-groups?  
project_id=5d091b14d7f54a139db644092fdc415c&page_index=1&page_size=10&sort_field=name&sort_type=  
asc
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "total" : 1,  
  "result" : [ {  
    "name" : "testwyk",  
    "description" : "11122211",  
    "os" : "linux",  
    "nick_name" : "A/B Side Account",
```

```
"id" : "ab7647b0863c4e969c8949d38d591339",
"project_id" : "6039d4480efc4dddb178abff98719913",
"permission" : {
  "can_view" : true,
  "can_edit" : true,
  "can_delete" : true,
  "can_add_host" : true,
  "can_manage" : true,
  "can_copy" : true
},
"host_count" : 1,
"env_count" : 1,
"is_proxy_mode" : 1,
"slave_cluster_id" : ""
}]
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ListHostClustersSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListHostClustersRequest request = new ListHostClustersRequest();
        try {
            ListHostClustersResponse response = client.listHostClusters(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}  
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartsdeploy.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsDeployClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsDeployRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = ListHostClustersRequest()  
        response = client.list_host_clusters(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"  
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartsdeploy.NewCodeArtsDeployClient(  
        codeartsdeploy.CodeArtsDeployClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).
```

```
WithCredential(auth).  
Build())  
  
request := &model.ListHostClustersRequest{}  
response, err := client.ListHostClusters(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.8 Querying a Host Cluster (Recommended)

Function

This API is used to query details about a host cluster by ID.

Calling Method

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

URI

GET /v1/resources/host-groups/{group_id}

Table 4-30 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Parameter description: Host cluster ID. Constraints: N/A Value range: The value consists of 32 characters. Only letters and digits are allowed. Default value: N/A

Request Parameters

Table 4-31 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-32 Response body parameters

Parameter	Type	Description
status	String	Parameter description: Request success or failure status. Value range: • success: Request succeeded • failed: Request failed
result	HostClusterInfo-DetailDetail object	Definition: Host cluster information.

Table 4-33 HostClusterInfoDetailDetail

Parameter	Type	Description
id	String	Parameter description: Host cluster ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.
name	String	Parameter description: Host cluster name. Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-), underscores (_), and periods (.) are allowed.
os	String	Parameter description: OS of the host cluster. Value range: • Windows: Windows OS. • Linux: Linux OS.
slave_cluster_id	String	Definition Self-hosted agent pool ID. Range The value contains 32 characters, including letters and digits. The value can be empty.

Parameter	Type	Description
created_by	UserInfo object	Parameter description: Information about the creator, including the user ID and username.
description	String	Parameter description: Host cluster description. Value range: The value is a string of 0 to 500 characters.
permission	PermissionClusterDetail object	Parameter description: Operation permission matrix of the current user on the host cluster.
nick_name	String	Definition: Nickname of the creator. Value range: String. 1 to 30 characters.
is_proxy_mode	Integer	Parameter description: Whether the host cluster is in the proxy mode. Value range: • 0: Non-proxy mode host cluster. • 1: Proxy mode host cluster.
created_time	String	Parameter description: Time when a host cluster is created. The value format is yyyy-MM-dd HH:mm:ss. For example, '2021-04-01 17:05:53'. Value range: N/A
updated_time	String	Parameter description: Time when a host cluster is updated. The value format is yyyy-MM-dd HH:mm:ss. For example, '2021-04-01 17:05:53'. Value range: N/A

Table 4-34 UserInfo

Parameter	Type	Description
user_id	String	Parameter description: User ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.
user_name	String	Parameter description: Username. Value range: The value consists of 1-255 characters. Only letters and digits are allowed.

Table 4-35 PermissionClusterDetail

Parameter	Type	Description
can_view	Boolean	Parameter description: Whether a user has the view permission. Value range: • true: With the view permission • false: Without the view permission
can_edit	Boolean	Parameter description: Whether a user has the edit permission. Value range: • true: With the edit permission • false: Without the edit permission
can_delete	Boolean	Parameter description: Whether a user has the delete permission. Value range: • true: With the delete permission • false: Without the delete permission

Parameter	Type	Description
can_add_host	Boolean	Parameter description: Whether a user has the permission to add hosts Value range: • true: With the permission to add hosts • false: Without the permission to add hosts
can_manage	Boolean	Parameter description: Whether a user has permission to manage the host cluster permission matrix Value range: • true: With the permission to manage the host cluster permission matrix • false: Without the permission to manage the host cluster permission matrix
can_copy	Boolean	Parameter description: Whether the user has permission to clone hosts. Value range: • true: The user has permission to copy hosts. • false: The user does not have permission to copy hosts.

Example Requests

```
https://{endpoint}/v1/resources/host-groups/ab7647b0863c4e969c8949d38d591339
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status": "success",
  "result": {
    "id": "ab7647b0863c4e969c8949d38d591339",
    "name": "test",
    "description": "11122211",
    "os": "linux",
    "created_by": {
      "user_id": "6baa7454109d47c192f22078fe6cda20",
      "user_name": "devcloud_devcloud_l00490255_01"
    }
  }
}
```

```
    },
    "permission" : {
      "can_view" : true,
      "can_edit" : true,
      "can_delete" : true,
      "can_add_host" : true,
      "can_manage" : true,
      "can_copy" : true
    },
    "is_proxy_mode" : 0,
    "slave_cluster_id" : "",
    "nick_name" : "A/B Side Account",
    "created_time" : "2021-04-01 17:05:53",
    "updated_time" : "2021-04-21 14:29:14"
  }
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ShowHostClusterDetailSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowHostClusterDetailRequest request = new ShowHostClusterDetailRequest();
        request.withGroupId("{group_id}");
        try {
            ShowHostClusterDetailResponse response = client.showHostClusterDetail(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
        }
    }
}
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowHostClusterDetailRequest()
        request.group_id = "{group_id}"
        response = client.show_host_cluster_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
```

```
codeartsdeploy.CodeArtsDeployClientBuilder().
    WithRegion(region.ValueOf("<YOUR REGION>")).
    WithCredential(auth).
    Build())

request := &model.ShowHostClusterDetailRequest{}
request.GroupId = "{group_id}"
response, err := client.ShowHostClusterDetail(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.9 Editing a Host Cluster

Function

This API is used to edit a host cluster.

Calling Method

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

URI

PUT /v1/resources/host-groups/{group_id}

Table 4-36 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Host cluster ID

Request Parameters

Table 4-37 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-38 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Host cluster name
description	No	String	Host cluster description
slave_cluster_id	No	String	Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used.

Response Parameters

Status code: 200

Table 4-39 Response body parameters

Parameter	Type	Description
status	String	Request success or failure status
id	String	Host cluster ID

Example Requests

Edit a host cluster, including the host cluster description, host cluster name, and self-hosted agent pool ID.

```
https://{endpoint}/v1/resources/host-groups/f8421b5e91684258afc1d92ec46f67a2
{
  "description" : "Update the description",
  "name" : "Updating a Host Cluster Name",
  "slave_cluster_id" : ""
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status" : "success",
  "id" : "f8421b5e91684258afc1d92ec46f67a2"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Edit a host cluster, including the host cluster description, host cluster name, and self-hosted agent pool ID.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class UpdateHostClusterSolution {

    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);

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

UpdateHostClusterRequest request = new UpdateHostClusterRequest();
request.withGroupId("{group_id}");
HostClusterRequest body = new HostClusterRequest();
body.withSlaveClusterId("");
body.withDescription("Update the description");
body.withName("Updating a Host Cluster Name");
request.withBody(body);
try {
    UpdateHostClusterResponse response = client.updateHostCluster(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

Edit a host cluster, including the host cluster description, host cluster name, and self-hosted agent pool ID.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateHostClusterRequest()
        request.group_id = "{group_id}"
        request.body = HostClusterRequest(
            slave_cluster_id="",
```



```
        description="Update the description",
        name="Updating a Host Cluster Name"
    )
    response = client.update_host_cluster(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

Edit a host cluster, including the host cluster description, host cluster name, and self-hosted agent pool ID.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateHostClusterRequest{}
    request.GroupId = "{group_id}"
    slaveClusterIdHostClusterRequest := ""
    descriptionHostClusterRequest := "Update the description"
    request.Body = &model.HostClusterRequest{
        SlaveClusterId: &slaveClusterIdHostClusterRequest,
        Description: &descriptionHostClusterRequest,
        Name: "Updating a Host Cluster Name",
    }
    response, err := client.UpdateHostCluster(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.10 Deleting a Host Cluster (Recommended)

Function

This API is used to delete a host cluster by ID.

Calling Method

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

URI

DELETE /v1/resources/host-groups/{group_id}

Table 4-40 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Parameter description: Host cluster ID. Constraints: N/A Value range: The value consists of 32 characters. Only letters and digits are allowed. Default value: N/A

Request Parameters

Table 4-41 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-42** Response body parameters

Parameter	Type	Description
status	String	Parameter description: Request success or failure status. Value range: • success: Request succeeded • failed: Request failed

Parameter	Type	Description
id	String	Parameter description: Host cluster ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.

Example Requests

```
https://{endpoint}/v1/resources/host-groups/f8421b5e91684258afc1d92ec46f67a2
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status" : "success",
  "id" : "f8421b5e91684258afc1d92ec46f67a2"
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class DeleteHostClusterSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
```

```
DeleteHostClusterRequest request = new DeleteHostClusterRequest();
request.withGroupId("{group_id}");
try {
    DeleteHostClusterResponse response = client.deleteHostCluster(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteHostClusterRequest()
        request.group_id = "{group_id}"
        response = client.delete_host_cluster(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

func main() {
```

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

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

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.DeleteHostClusterRequest{}
request.GroupId = "{group_id}"
response, err := client.DeleteHostCluster(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.11 Querying Information About the Environment Associated with a Host Cluster

Function

This API is used to query information about the environment associated with a host cluster.

Calling Method

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

URI

GET /v1/resources/host-groups/{group_id}/environments/infos

Table 4-43 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Host cluster ID

Table 4-44 Query Parameters

Parameter	Mandatory	Type	Description
page_index	No	Integer	Page number
page_size	No	Integer	Number of records per page

Request Parameters

Table 4-45 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-46 Response body parameters

Parameter	Type	Description
status	String	Definition Request status (successful or failed). Range • success: Successful. • error: Failed.
total	Integer	Definition Total number of associated environments. Range Digits only.
result	Array of EnvironmentInfo objects	Definition Environment information list. Range N/A

Table 4-47 EnvironmentInfo

Parameter	Type	Description
id	String	Definition Environment ID. Range The value contains 32 characters. Only letters and digits are allowed.
name	String	Definition Environment name. Range N/A
app_id	String	Definition Application ID. Range The value contains 32 characters. Only letters and digits are allowed.
app_name	String	Definition Application name. Range N/A

Parameter	Type	Description
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.

Example Requests

```
https://{endpoint}/v1/resources/host-groups/849f425a74034fd2a4e60c367414efba/environments/infos?
page_index=1&page_size=10
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status" : "success",
  "result" : [ {
    "id" : "54e5b8b0d10148cc96142ac9d6c1c1f6",
    "name" : "Test_environment_update",
    "project_id" : "7e6caf3cd9a64d5b8ea451e38221892e",
    "app_name" : "VM_deployment_and_update",
    "app_id" : "8ddf0566c1784da29faac80516fa8425"
  } ],
  "total" : 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListAssociateEnvironmentsInfosSolution {

    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);

CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
    .build();
ListAssociateEnvironmentsInfosRequest request = new ListAssociateEnvironmentsInfosRequest();
request.withGroupid("{group_id}");
try {
    ListAssociateEnvironmentsInfosResponse response = client.listAssociateEnvironmentsInfos(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListAssociateEnvironmentsInfosRequest()
        request.group_id = "{group_id}"
        response = client.list_associate_environments_infos(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListAssociateEnvironmentsInfosRequest{}
    request.GroupId = "{group_id}"
    response, err := client.ListAssociateEnvironmentsInfos(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: The request is successful.

Error Codes

See [Error Codes](#).

4.1.12 Querying the Basic Environment Information List of an Application

Function

This API is used to query the basic environment information list of an application.

Calling Method

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

URI

GET /v1/applications/{application_id}/host-groups/base/infos

Table 4-48 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Application ID

Table 4-49 Query Parameters

Parameter	Mandatory	Type	Description
project_uuid	Yes	String	Project ID
os	No	String	Operating system: Windows or Linux
page_index	No	Integer	Page number
page_size	No	Integer	Number of records on each page
name	No	String	Search by host cluster name

Request Parameters

Table 4-50 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-51 Response body parameters

Parameter	Type	Description
status	String	Definition Request status (successful or failed). Range • success: Successful. • error: Failed.
total	Integer	Definition Total number. Range Digits only.
result	Array of EnvironmentBaseInfo objects	Definition Basic environment information list. Range N/A

Table 4-52 EnvironmentBaseInfo

Parameter	Type	Description
name	String	Definition Environment name. Range N/A
os	String	Definition Operating system: Windows or Linux. Range • windows: Windows OS. • linux: Linux OS.
uuid	String	Definition Environment ID. Range The value contains 32 characters. Only letters and digits are allowed.

Parameter	Type	Description
group_id	String	Definition Host cluster ID. Range The value contains 32 characters. Only letters and digits are allowed.
host_count	Integer	Definition Number of hosts in the environment. Range 0-200

Example Requests

```
https://{endpoint}/v1/applications/fe50d93c5a7f4335bb44a68419606ced/host-groups/base/infos?  
project_uuid=7e6caf3cd9a64d5b8ea451e38221892e&page_index=1&page_size=1000
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "result" : [ {  
    "name" : "Create an environment test permission",  
    "os" : "linux",  
    "uuid" : "c51d2173c541496c9561f77ccdacf13e",  
    "group_id" : "c51d2173c541496c9561f77ccdacf13e",  
    "host_count" : 0  
  } ],  
  "total" : 1  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

```
CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()  
    .withCredential(auth)  
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))  
    .build();
```

```
ListHostGroupBaseInfosRequest request = new ListHostGroupBaseInfosRequest();  
request.withApplicationId("{application_id}");
```

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

Python

coding: utf-8

```
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartsdeploy.v2 import *
```

```
if __name__ == "__main__":
```

The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment

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

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

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

```
try:
```

```
    request = ListHostGroupBaseInfosRequest()  
    request.application_id = "{application_id}"  
    response = client.list_host_group_base_infos(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListHostGroupBaseInfosRequest{}
    request.ApplicationId = "{application_id}"
    response, err := client.ListHostGroupBaseInfos(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2 Managing Hosts

4.2.1 Creating a Host

Function

This API is used to create a host in a specified host cluster. This API will not be maintained after September 30, 2024. You can use the CreateHost API instead.

Calling Method

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

URI

POST /v2/host-groups/{group_id}/hosts

Table 4-53 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-54 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-55 Request body parameters

Parameter	Mandatory	Type	Description
host_name	Yes	String	Definition: Host name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). Default value: N/A.

Parameter	Mandatory	Type	Description
ip	Yes	String	Definition: Host IP address. Constraints: N/A. Value range: N/A. Default value: N/A.
port	Yes	Integer	Definition: SSH port of the host. Constraints: N/A. Value range: 0–65535. Default value: N/A.
os	Yes	String	Definition: Host OS type. Constraints: N/A. Value range: • window: Windows OS. • linux: Linux OS. Default value: N/A.
as_proxy	Yes	Boolean	Definition: Agent or not. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Parameter	Mandatory	Type	Description
proxy_host_id	No	String	Definition: Agent ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
authorization	Yes	DeploymentHostAuthorizationBody object	Definition: Log in to the host for authentication. Use either a password or key for login. Constraints: N/A.
install_icagent	No	Boolean	Definition: Whether to install ICAgent. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Table 4-56 DeploymentHostAuthorizationBody

Parameter	Mandatory	Type	Description
username	Yes	String	Definition: Username for logging in to the host. Constraints: N/A. Value range: 2 to 32 characters, including letters, digits, underscores (_), hyphens (-), periods (.), and at signs (@). Default value: N/A.
password	No	String	Definition: Password. Mandatory when the authentication type is 0 . Constraints: N/A. Value range: 5 to 32 characters. Spaces, single and double quotation marks are not supported. Default value: N/A.
private_key	No	String	Definition: Key. Mandatory when the authentication type is 1 . Constraints: N/A. Value range: Max. 5,000 characters. Default value: N/A.

Parameter	Mandatory	Type	Description
trusted_type	Yes	Integer	Definition: Authentication type for logging in to the host. Constraints: N/A. Value range: 0: Password authentication. 1: Key authentication. Default value: N/A.

Response Parameters

Status code: 200

Table 4-57 Response body parameters

Parameter	Type	Description
host_id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.

Example Requests

When creating a host, you need to enter the basic information about the host, including the host name, IP address, port number, username, and password.

```
https://{endpoint}/v2/host-groups/ab7647b0863c4e969c8949d38d591339/hosts
```

```
{
  "host_name" : "100.101.28.215",
  "ip" : "100.101.28.215",
  "port" : "22",
  "os" : "linux",
  "as_proxy" : false,
  "proxy_host_id" : "",
  "authorization" : {
    "username" : "root",
    "password" : "*****",
    "private_key" : "",
    "trusted_type" : 0
  },
  "install_icagent" : true
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "host_id" : "300d6d2e53624d0da08b182099ad10f7"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

When creating a host, you need to enter the basic information about the host, including the host name, IP address, port number, username, and password.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class CreateDeploymentHostSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateDeploymentHostRequest request = new CreateDeploymentHostRequest();
        request.withGroupId("{group_id}");
        DeploymentHost body = new DeploymentHost();
        DeploymentHostAuthorizationBody authorizationbody = new DeploymentHostAuthorizationBody();
        authorizationbody.withUsername("root")
            .withPassword("*****")
            .withPrivateKey("")
            .withTrustedType(DeploymentHostAuthorizationBody.TrustedTypeEnum.NUMBER_0);
        body.withInstallAgent(true);
        body.withAuthorization(authorizationbody);
        body.withProxyHostId("");
        body.withAsProxy(false);
        body.withOs(DeploymentHost.OsEnum.fromValue("linux"));
        body.withPort(22);
        body.withIp("100.101.28.215");
        body.withHostName("100.101.28.215");
    }
}
```

```
request.withBody(body);
try {
    CreateDeploymentHostResponse response = client.createDeploymentHost(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

When creating a host, you need to enter the basic information about the host, including the host name, IP address, port number, username, and password.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreateDeploymentHostRequest()
        request.group_id = "{group_id}"
        authorizationbody = DeploymentHostAuthorizationBody(
            username="root",
            password="*****",
            private_key="",
            trusted_type=0
        )
        request.body = DeploymentHost(
            install_icagent=True,
            authorization=authorizationbody,
            proxy_host_id="",
            as_proxy=False,
            os="linux",
            port=22,
            ip="100.101.28.215",
            host_name="100.101.28.215"
        )
        response = client.create_deployment_host(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

When creating a host, you need to enter the basic information about the host, including the host name, IP address, port number, username, and password.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateDeploymentHostRequest{}
    request.GroupId = "{group_id}"
    passwordAuthorization:= "*****"
    privateKeyAuthorization:= ""
    authorizationbody := &model.DeploymentHostAuthorizationBody{
        Username: "root",
        Password: &passwordAuthorization,
        PrivateKey: &privateKeyAuthorization,
        TrustedType: model.GetDeploymentHostAuthorizationBodyTrustedTypeEnum().E_0,
    }
    installIcagentDeploymentHost:= true
    proxyHostIdDeploymentHost:= ""
    request.Body = &model.DeploymentHost{
        InstallIcagent: &installIcagentDeploymentHost,
        Authorization: authorizationbody,
        ProxyHostId: &proxyHostIdDeploymentHost,
        AsProxy: false,
        Os: model.GetDeploymentHostOsEnum().LINUX,
        Port: int32(22),
        Ip: "100.101.28.215",
        HostName: "100.101.28.215",
    }
    response, err := client.CreateDeploymentHost(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.2 Querying a Host List

Function

This API is used to query a host list in a specified host cluster by ID. This API will not be maintained after September 30, 2024. You can use the ListNewHosts API instead.

Calling Method

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

URI

GET /v2/host-groups/{group_id}/hosts

Table 4-58 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Table 4-59 Query Parameters

Parameter	Mandatory	Type	Description
as_proxy	No	Boolean	Definition Agent or not. Constraints N/A Range • true: Yes. • false: No. Default value N/A
offset	No	Integer	Definition: Offset from which the query starts. Constraints: N/A. Value range: 0–2147483647 Default value: 0
limit	No	Integer	Definition: Number of items displayed on each page. Constraints: N/A. Value range: 1–1000 Default value: 1000
name	No	String	Definition: Keyword in the host name or IP address. Constraints: N/A. Value range: Max. 128 characters. Default value: N/A.

Parameter	Mandatory	Type	Description
sort_key	No	String	Definition: Sorting field query. Constraints: N/A. Value range: • host_name: Host name. • as_proxy: Agent or not. Default value: N/A.
sort_dir	No	String	Definition: Sorting order. Constraints: N/A. Value range: • desc: Descending order. • asc: Ascending order. Default value: desc
with_auth	No	Boolean	Definition: Whether the returned result is encrypted. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Request Parameters

Table 4-60 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-61** Response body parameters

Parameter	Type	Description
total	Integer	Definition: Number of hosts. Value range: 0-200
group_name	String	Definition: Host cluster name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).
hosts	Array of DeploymentHost Detail objects	Definition: Host information list.

Table 4-62 DeploymentHostDetail

Parameter	Type	Description
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.
host_name	String	Definition: Host name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).
ip	String	Definition: Host IP address. Value range: N/A.
port	Integer	Definition: Port. Value range: 0-65535.
os	String	Definition: OS of the host cluster. Value range: • window: Windows OS. • linux: Linux OS.
as_proxy	Boolean	Definition: Agent or not. Value range: • true: Yes. • false: No.
proxy_host_id	String	Definition: Agent host ID. Value range: 32 characters, including letters and digits.
authorization	DeploymentHost AuthorizationResponseBody object	Parameter description: Host login authentication. You can use a password or key to log in.

Parameter	Type	Description
install_icagent	Boolean	Definition: ICAgent installation status. Value range: • true: Installed. • false: Not installed.
host_id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.
proxy_host	DeploymentHostDetail object	Definition: Agent details.
group_name	String	Definition: Host cluster name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
project_name	String	Definition: Project name. Value range: 3 to 128 characters.
permission	PermissionHostDetail object	Parameter description: Operation permission matrix of the current user on the host.
update_time	String	Definition: Modification time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2021-02-25 10:37:27. Value range: N/A.

Parameter	Type	Description
lastest_connection_time	String	Definition: Last connectivity verification time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2021-02-25 10:37:27. Value range: N/A.
connection_status	String	Definition: Connectivity status. Value range: • success: The connectivity is successful. • failed: The connectivity fails.
owner_name	String	Definition: Creator username. Value range: Max. 255 characters, including uppercase letters, lowercase letters, spaces, digits, and special characters (-_). Do not start with a digit or space.
updater_id	String	Definition: User ID of updater. Value range: 32 characters, including letters and digits.
create_time	String	Definition: Creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2025-04-21 17:05:53. Value range: N/A.
nick_name	String	Definition: Nickname of the creator. Value range: String. 1 to 30 characters.
owner_id	String	Definition: Creator ID. Value range: 32 characters, including letters and digits.

Parameter	Type	Description
updater_name	String	Definition: Username of updater. Value range: Max. 255 characters, including letters, digits, and underscores (_) and double quotation marks (").
connection_result	String	Definition: Connectivity verification result. Value range: String. 1 to 64 characters.

Table 4-63 DeploymentHostAuthorizationReponseBody

Parameter	Type	Description
username	String	Definition: Username for logging in to the host. Value range: 2 to 32 characters, including letters, digits, underscores (_), hyphens (-), periods (.), and at signs (@).
password	String	Definition: Password. Mandatory when the authentication type is 0. Value range: 5 to 32 characters. Spaces, single and double quotation marks are not supported.
private_key	String	Definition: Key. Mandatory when the authentication type is 1. Value range: Max. 5,000 characters.
trusted_type	Integer	Definition: Authentication type for logging in to the host. Value range: 0: Password authentication. 1: Key authentication.

Table 4-64 PermissionHostDetail

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.
can_edit	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.
can_add_host	Boolean	Definition: Whether you have permission to add hosts. Value range: • true: Yes. • false: No.
can_connection_test	Boolean	Definition: Whether you have the permission to test host connectivity. Value range: • true: Yes. • false: No.

Example Requests

```
https://{endpoint}/v2/host-groups/ab7647b0863c4e969c8949d38d591339/hosts?offset=0&limit=10&sort_key=AS_PROXY&sort_dir=asc&with_auth=false
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "hosts" : [ {
    "host_name" : "100.101.28.203",
    "ip" : "100.101.28.203",
    "port" : 22,
    "os" : "linux",
    "authorization" : {
      "username" : "root",
      "password" : null,
      "private_key" : null,
      "trusted_type" : 0
    },
    "permission" : {
      "can_view" : true,
      "can_edit" : true,
      "can_delete" : true,
      "can_add_host" : true,
      "can_connection_test" : true
    },
    "host_id" : "2cc913cc9a494f09b7320801ebacad02",
    "group_id" : "ab7647b0863c4e969c8949d38d591339",
    "as_proxy" : false,
    "proxy_host_id" : null,
    "owner_id" : "6baa7454109d47c192f22078fe6cda20",
    "owner_name" : "devcloud_devcloud_l00490255_01",
    "updater_id" : "6baa7454109d47c192f22078fe6cda20",
    "updater_name" : "devcloud_devcloud_l00490255_01",
    "connection_status" : "success",
    "install_icagent" : false,
    "create_time" : "2021-04-15 11:01:51",
    "update_time" : "2021-04-21 15:04:24",
    "connection_result" : "Connection established",
    "lastest_connection_time" : "2021-04-15 11:02:00",
    "nick_name" : "A/B Side Account",
    "proxy_host" : null,
    "group_name" : null,
    "project_id" : "6039d4480efc4dddb178abff98719913",
    "project_name" : null
  } ],
  "total" : 1,
  "group_name" : "test"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListHostsSolution {

    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);

CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
    .build();
ListHostsRequest request = new ListHostsRequest();
request.withGroupId("{group_id}");
try {
    ListHostsResponse response = client.listHosts(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

coding: utf-8

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListHostsRequest()
        request.group_id = "{group_id}"
        response = client.list_hosts(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListHostsRequest{}
    request.GroupId = "{group_id}"
    response, err := client.ListHosts(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.3 Querying Host Details

Function

This API is used to query host details by ID. This API will not be maintained after September 30, 2024. You can use the ShowHostDetail API instead.

Calling Method

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

URI

GET /v2/host-groups/{group_id}/hosts/{host_id}

Table 4-65 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
host_id	Yes	String	Definition: Host ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-66 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-67 Response body parameters

Parameter	Type	Description
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.
host_name	String	Definition: Host name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).
ip	String	Definition: Host IP address. Value range: N/A.

Parameter	Type	Description
port	Integer	Definition: Port. Value range: 0–65535.
os	String	Definition: OS of the host cluster. Value range: • window: Windows OS. • linux: Linux OS.
as_proxy	Boolean	Definition: Agent or not. Value range: • true: Yes. • false: No.
proxy_host_id	String	Definition: Agent host ID. Value range: 32 characters, including letters and digits.
authorization	DeploymentHost AuthorizationResponseBody object	Parameter description: Host login authentication. You can use a password or key to log in.
install_icagent	Boolean	Definition: ICAgent installation status. Value range: • true: Installed. • false: Not installed.
host_id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.
proxy_host	DeploymentHost Detail object	Definition: Agent details.

Parameter	Type	Description
group_name	String	Definition: Host cluster name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
project_name	String	Definition: Project name. Value range: 3 to 128 characters.
permission	PermissionHostDetail object	Parameter description: Operation permission matrix of the current user on the host.
update_time	String	Definition: Modification time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2021-02-25 10:37:27. Value range: N/A.
lastest_connection_time	String	Definition: Last connectivity verification time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2021-02-25 10:37:27. Value range: N/A.
connection_status	String	Definition: Connectivity status. Value range: - success: The connectivity is successful. - failed: The connectivity fails.

Parameter	Type	Description
owner_name	String	Definition: Creator username. Value range: Max. 255 characters, including uppercase letters, lowercase letters, spaces, digits, and special characters (- _). Do not start with a digit or space.
updater_id	String	Definition: User ID of updater. Value range: 32 characters, including letters and digits.
create_time	String	Definition: Creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2025-04-21 17:05:53. Value range: N/A.
nick_name	String	Definition: Nickname of the creator. Value range: String. 1 to 30 characters.
owner_id	String	Definition: Creator ID. Value range: 32 characters, including letters and digits.
updater_name	String	Definition: Username of updater. Value range: Max. 255 characters, including letters, digits, and underscores (_) and double quotation marks (").
connection_result	String	Definition: Connectivity verification result. Value range: String. 1 to 64 characters.

Table 4-68 DeploymentHostAuthorizationReponseBody

Parameter	Type	Description
username	String	Definition: Username for logging in to the host. Value range: 2 to 32 characters, including letters, digits, underscores (_), hyphens (-), periods (.), and at signs (@).
password	String	Definition: Password. Mandatory when the authentication type is 0 . Value range: 5 to 32 characters. Spaces, single and double quotation marks are not supported.
private_key	String	Definition: Key. Mandatory when the authentication type is 1 . Value range: Max. 5,000 characters.
trusted_type	Integer	Definition: Authentication type for logging in to the host. Value range: • 0: Password authentication. • 1: Key authentication.

Table 4-69 PermissionHostDetail

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_edit	Boolean	Definition: Whether you have the edit permission. Value range: - true: Yes. - false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: - true: Yes. - false: No.
can_add_host	Boolean	Definition: Whether you have permission to add hosts. Value range: - true: Yes. - false: No.
can_connection_test	Boolean	Definition: Whether you have the permission to test host connectivity. Value range: - true: Yes. - false: No.

Example Requests

```
https://{endpoint}/v2/host-groups/ab7647b0863c4e969c8949d38d591339/hosts/  
300d6d2e53624d0da08b182099ad10f7
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "ip" : "100.101.28.215",  
  "port" : 22,  
  "os" : "linux",  
  "authorization" : {  
    "username" : "root",  
    "password" : null,  
    "private_key" : null,  
    "trusted_type" : 0  
  },  
  "permission" : {
```

```
"can_view" : true,
"can_edit" : true,
"can_delete" : true,
"can_add_host" : true,
"can_connection_test" : true
},
"group_id" : "ab7647b0863c4e969c8949d38d591339",
"host_name" : "100.101.28.215",
"as_proxy" : false,
"proxy_host_id" : null,
"owner_id" : "6baa7454109d47c192f22078fe6cda20",
"owner_name" : "devcloud_devcloud_l00490255_01",
"updater_id" : "6baa7454109d47c192f22078fe6cda20",
"updater_name" : "devcloud_devcloud_l00490255_01",
"connection_status" : "success",
"install_icagent" : false,
"create_time" : "2021-05-13 09:35:41",
"update_time" : "2021-05-13 09:35:41",
"connection_result" : "Connection established",
"lastest_connection_time" : "2021-05-13 09:36:11",
"nick_name" : "A/B Side Account",
"host_id" : "300d6d2e53624d0da08b182099ad10f7"
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ShowDeploymentHostDetailSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowDeploymentHostDetailRequest request = new ShowDeploymentHostDetailRequest();
        request.withGroupId("{group_id}");
        request.withHostId("{host_id}");
        try {
            ShowDeploymentHostDetailResponse response = client.showDeploymentHostDetail(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowDeploymentHostDetailRequest()
        request.group_id = "{group_id}"
        request.host_id = "{host_id}"
        response = client.show_deployment_host_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

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

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowDeploymentHostDetailRequest{
    request.GroupId = "{group_id}"
    request.HostId = "{host_id}"
    response, err := client.ShowDeploymentHostDetail(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.4 Modifying a Host

Function

This API is used to modify host information by ID. This API will not be maintained after September 30, 2024.

Calling Method

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

URI

PUT /v2/host-groups/{group_id}/hosts/{host_id}

Table 4-70 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
host_id	Yes	String	Definition: Host ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-71 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-72 Request body parameters

Parameter	Mandatory	Type	Description
host_name	Yes	String	Definition: Host name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). Default value: N/A.
ip	Yes	String	Definition: Host IP address. Constraints: N/A. Value range: N/A. Default value: N/A.

Parameter	Mandatory	Type	Description
port	Yes	Integer	Definition: SSH port of the host. Constraints: N/A. Value range: 0–65535. Default value: N/A.
as_proxy	Yes	Boolean	Definition: Agent or not. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
proxy_host_id	No	String	Definition: Agent ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
authorization	Yes	Deployment HostAuthorizationBody object	Definition: Log in to the host for authentication. Use either a password or key for login. Constraints: N/A.

Parameter	Mandatory	Type	Description
install_icagent	No	Boolean	Definition: Whether to install ICAgent. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
sync	No	Boolean	Definition: Whether to sync the password of the current host to the hosts with the same IP address, username, and port in other host clusters in the same project. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: false.

Table 4-73 DeploymentHostAuthorizationBody

Parameter	Mandatory	Type	Description
username	Yes	String	Definition: Username for logging in to the host. Constraints: N/A. Value range: 2 to 32 characters, including letters, digits, underscores (_), hyphens (-), periods (.), and at signs (@). Default value: N/A.

Parameter	Mandatory	Type	Description
password	No	String	Definition: Password. Mandatory when the authentication type is 0 . Constraints: N/A. Value range: 5 to 32 characters. Spaces, single and double quotation marks are not supported. Default value: N/A.
private_key	No	String	Definition: Key. Mandatory when the authentication type is 1 . Constraints: N/A. Value range: Max. 5,000 characters. Default value: N/A.
trusted_type	Yes	Integer	Definition: Authentication type for logging in to the host. Constraints: N/A. Value range: • 0: Password authentication. • 1: Key authentication. Default value: N/A.

Response Parameters

Status code: 200

Table 4-74 Response body parameters

Parameter	Type	Description
host_id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.

Example Requests

Modify the basic information about the target host, including the host name, IP address, and port number.

```
https://{endpoint}/v2/host-groups/ab7647b0863c4e969c8949d38d591339/hosts/  
300d6d2e53624d0da08b182099ad10f7
```

```
{  
  "host_name" : "100.101.28.215",  
  "ip" : "100.101.28.215",  
  "port" : 22,  
  "as_proxy" : false,  
  "proxy_host_id" : null,  
  "authorization" : {  
    "username" : "root",  
    "password" : "",  
    "private_key" : null,  
    "trusted_type" : 0  
  },  
  "install_icagent" : false,  
  "sync" : true  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "host_id" : "300d6d2e53624d0da08b182099ad10f7"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Modify the basic information about the target host, including the host name, IP address, and port number.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class UpdateDeploymentHostSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR_REGION>"))
            .build();
        UpdateDeploymentHostRequest request = new UpdateDeploymentHostRequest();
        request.withGroupId("{group_id}");
        request.withHostId("{host_id}");
        DeploymentHostRequest body = new DeploymentHostRequest();
        DeploymentHostAuthorizationBody authorizationbody = new DeploymentHostAuthorizationBody();
        authorizationbody.withUsername("root")
            .withPassword("")
            .withTrustedType(DeploymentHostAuthorizationBody.TrustedTypeEnum.NUMBER_0);
        body.withHostName("100.101.28.215");
        body.withSync(true);
        body.withAsProxy(false);
        body.withInstallAgent(false);
        body.withIp("100.101.28.215");
        body.withPort(22);
        body.withAuthorization(authorizationbody);
        request.withBody(body);
        try {
            UpdateDeploymentHostResponse response = client.updateDeploymentHost(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

Modify the basic information about the target host, including the host name, IP address, and port number.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateDeploymentHostRequest()
        request.group_id = "{group_id}"
        request.host_id = "{host_id}"
        authorizationbody = DeploymentHostAuthorizationBody(
            username="root",
            password="",
            trusted_type=0
        )
        request.body = DeploymentHostRequest(
            host_name="100.101.28.215",
            sync=True,
            as_proxy=False,
            install_icagent=False,
            ip="100.101.28.215",
            port=22,
            authorization=authorizationbody
        )
        response = client.update_deployment_host(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

Modify the basic information about the target host, including the host name, IP address, and port number.

```
package main

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

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

    auth := basic.NewCredentialsBuilder().
```

```
WithAk(ak).
WithSk(sk).
Build()

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.UpdateDeploymentHostRequest{}
request.GroupId = "{group_id}"
request.HostId = "{host_id}"
passwordAuthorization := ""
authorizationbody := &model.DeploymentHostAuthorizationBody{
    Username: "root",
    Password: &passwordAuthorization,
    TrustedType: model.GetDeploymentHostAuthorizationBodyTrustedTypeEnum().E_0,
}
syncDeploymentHostRequest := true
installIcagentDeploymentHostRequest := false
request.Body = &model.DeploymentHostRequest{
    HostName: "100.101.28.215",
    Sync: &syncDeploymentHostRequest,
    AsProxy: false,
    InstallIcagent: &installIcagentDeploymentHostRequest,
    Ip: "100.101.28.215",
    Port: int32(22),
    Authorization: authorizationbody,
}
response, err := client.UpdateDeploymentHost(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.5 Deleting a Host

Function

This API is used to delete a host by ID. This API will not be maintained after September 30, 2024.

Calling Method

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

URI

DELETE /v2/host-groups/{group_id}/hosts/{host_id}

Table 4-75 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
host_id	Yes	String	Definition: Host ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-76 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-77** Response body parameters

Parameter	Type	Description
host_id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://{endpoint}/v2/host-groups/ab7647b0863c4e969c8949d38d591339/hosts/300d6d2e53624d0da08b182099ad10f7
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "host_id" : "300d6d2e53624d0da08b182099ad10f7"
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class DeleteDeploymentHostSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteDeploymentHostRequest request = new DeleteDeploymentHostRequest();
        request.withGroupId("{group_id}");
        request.withHostId("{host_id}");
        try {
            DeleteDeploymentHostResponse response = client.deleteDeploymentHost(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteDeploymentHostRequest()
        request.group_id = "{group_id}"
        request.host_id = "{host_id}"
        response = client.delete_deployment_host(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.DeleteDeploymentHostRequest{}
request.GroupId = "{group_id}"
request.HostId = "{host_id}"
response, err := client.DeleteDeploymentHost(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.6 Creating a Host (Recommended)

Function

This API is used to create a host in a specified host cluster.

Calling Method

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

URI

POST /v1/resources/host-groups/{group_id}/hosts

Table 4-78 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-79 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-80 Request body parameters

Parameter	Mandatory	Type	Description
host_name	Yes	String	Definition: Host name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). Default value: N/A.
ip	Yes	String	Definition Host IP address. Constraints N/A Range Public IPv4 address or IPv6 address Default value N/A
port	Yes	Integer	Definition: SSH port of the host. Constraints: N/A. Value range: 0–65535. Default value: N/A.
os	Yes	String	Definition: Host OS type. Constraints: N/A. Value range: • window: Windows OS. • linux: Linux OS. Default value: N/A.

Parameter	Mandatory	Type	Description
as_proxy	Yes	Boolean	Definition: Agent or not. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.
proxy_host_id	No	String	Definition: Agent ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
authorization	Yes	HostAuthorizationRequest Body object	Parameter description: Host login authentication. You can use a password or key to log in. Constraints: N/A.
install_icagent	No	Boolean	Definition: Whether to install ICAgent. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Table 4-81 HostAuthorizationRequestBody

Parameter	Mandatory	Type	Description
username	Yes	String	Definition Username for logging in to the host. Constraints N/A Range 2 to 32 characters, including letters, digits, underscores (_), hyphens (-), periods (.), and at signs (@). Default value N/A
password	No	String	Parameter description: Password. Mandatory when the authentication type is 0 . Constraints: N/A. Value range: 5 to 32 characters, excluding spaces, newline characters, carriage return characters, tab characters, double quotation marks (""), and single quotation marks ("). Default value: N/A.
private_key	No	String	Parameter description: Key. Mandatory when the authentication type is 1 . Constraints: N/A. Value range: Max. 5,000 characters. Default value: N/A.

Parameter	Mandatory	Type	Description
trusted_type	Yes	Integer	Parameter description: Authentication type for host login. Constraints: N/A. Value range: • 0: password authentication. • 1: key authentication. Default value: 0.

Response Parameters

Status code: 200

Table 4-82 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.

Example Requests

When creating a host, you need to enter the basic information about the host, including the host name, IP address, port number, username, and password.

```
https://{endpoint}/v1/resources/host-groups/ab7647b0863c4e969c8949d38d591339/hosts
```

```
{
  "host_name" : "100.101.28.215",
  "ip" : "100.101.28.215",
  "port" : "22",
  "os" : "linux",
  "as_proxy" : false,
  "proxy_host_id" : "",
  "authorization" : {
```

```
"username" : "root",  
"password" : "*****",  
"private_key" : "",  
"trusted_type" : 0  
},  
"install_icagent" : true  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "id" : "300d6d2e53624d0da08b182099ad10f7"  
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

When creating a host, you need to enter the basic information about the host, including the host name, IP address, port number, username, and password.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;  
import com.huaweicloud.sdk.codeartsdeploy.v2.*;  
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;  
  
public class CreateHostSolution {  
  
    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);  
  
        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))  
            .build();  
        CreateHostRequest request = new CreateHostRequest();  
        request.withGroupId("{group_id}");  
        CreateHostRequestBody body = new CreateHostRequestBody();  
        HostAuthorizationBody authorizationbody = new HostAuthorizationBody();  
        authorizationbody.withUsername("root")  
            .withPassword("*****")  
            .withPrivateKey("")  
    }  
}
```

```
.withTrustedType(HostAuthorizationBody.TrustedTypeEnum.NUMBER_0);
body.withInstallIcagent(true);
body.withAuthorization(authorizationbody);
body.withProxyHostId("");
body.withAsProxy(false);
body.withOs(CreateHostRequestBody.OsEnum.fromValue("linux"));
body.withPort(22);
body.withIp("100.101.28.215");
body.withHostName("100.101.28.215");
request.withBody(body);
try {
    CreateHostResponse response = client.createHost(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrMsg());
}
}
```

Python

When creating a host, you need to enter the basic information about the host, including the host name, IP address, port number, username, and password.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreateHostRequest()
        request.group_id = "{group_id}"
        authorizationbody = HostAuthorizationBody(
            username="root",
            password="*****",
            private_key="",
            trusted_type=0
        )
        request.body = CreateHostRequestBody(
            install_icagent=True,
            authorization=authorizationbody,
            proxy_host_id=""
```

```
        as_proxy=False,  
        os="linux",  
        port=22,  
        ip="100.101.28.215",  
        host_name="100.101.28.215"  
    )  
    response = client.create_host(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

When creating a host, you need to enter the basic information about the host, including the host name, IP address, port number, username, and password.

package main

```
import (  
    "fmt"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"  
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartsdeploy.NewCodeArtsDeployClient(  
        codeartsdeploy.CodeArtsDeployClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.CreateHostRequest{}  
    request.GroupId = "{group_id}"  
    passwordAuthorization:= "*****"  
    privateKeyAuthorization:= ""  
    authorizationbody := &model.HostAuthorizationBody{  
        Username: "root",  
        Password: &passwordAuthorization,  
        PrivateKey: &privateKeyAuthorization,  
        TrustedType: model.GetHostAuthorizationBodyTrustedTypeEnum().E_0,  
    }  
    installIcagentCreateHostRequestBody:= true  
    proxyHostIdCreateHostRequestBody:= ""  
    request.Body = &model.CreateHostRequestBody{  
        InstallIcagent: &installIcagentCreateHostRequestBody,  
        Authorization: authorizationbody,  
        ProxyHostId: &proxyHostIdCreateHostRequestBody,  
        AsProxy: false,  
        Os: model.GetCreateHostRequestBodyOsEnum().LINUX,  
        Port: int32(22),  
        Ip: "100.101.28.215",  
    }
```

```
    HostName: "100.101.28.215",  
  }  
  response, err := client.CreateHost(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.7 Querying a Host List (Recommended)

Function

This API is used to query a host list in a specified host cluster by ID.

Calling Method

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

URI

GET /v1/resources/host-groups/{group_id}/hosts

Table 4-83 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Table 4-84 Query Parameters

Parameter	Mandatory	Type	Description
key_field	No	String	Definition: Keyword in the host name or IP address. Constraints: N/A. Value range: Max. 128 characters. Default value: N/A.
environment_id	No	String	Definition: Environment ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Parameter	Mandatory	Type	Description
page_index	No	Integer	Definition: Page number for pagination query. Constraints: N/A. Value range: 1–2147483647 Default value: 1
page_size	No	Integer	Definition: Number of items displayed on each page. Constraints: N/A. Value range: 1–100 Default value: 10
sort_key	No	String	Definition: Sorting field query. Constraints: N/A. Value range: • host_name: Host name. • as_proxy: Agent or not. Default value: N/A.
sort_dir	No	String	Definition: Sorting order. Constraints: N/A. Value range: • desc: Descending order. • asc: Ascending order. Default value: desc

Parameter	Mandatory	Type	Description
as_proxy	No	Boolean	Definition: Agent or not. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Request Parameters

Table 4-85 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-86 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Number of hosts. Value range: 0-200

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
result	Array of HostInfo objects	Definition: Host information list.

Table 4-87 HostInfo

Parameter	Type	Description
uuid	String	Definition: Host ID. Value range: 32 characters, including letters and digits.
ip	String	Definition: Host IP address. Value range: N/A.
os	String	Definition: OS of the host cluster. Value range: • window: Windows OS. • linux: Linux OS.
port	Integer	Definition: Port. Value range: 0-65535.
authorization	HostAuthorizationBody object	Definition: Log in to the host for authentication. Use either a password or key for login.
permission	PermissionHostDetailNew object	Definition: Operation permission matrix of the current user on hosts.

Parameter	Type	Description
host_name	String	Definition: Host name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).
as_proxy	Boolean	Definition: Agent or not. Value range: • true: Yes. • false: No.
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.
proxy_host_id	String	Definition: Agent host ID. Value range: 32 characters, including letters and digits.
owner_id	String	Definition: Creator ID. Value range: 32 characters, including letters and digits.
owner_name	String	Definition: Creator username. Value range: Max. 255 characters, including letters, digits, and underscores (_).
proxy_host	HostInfo object	Definition: Agent details.

Parameter	Type	Description
connection_status	String	Definition: Connectivity status. Value range: • success: The connectivity is successful. • failed: The connectivity fails.
create_time	String	Definition: Creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2025-04-21 17:05:53. Value range: N/A.
lastest_connection_time	String	Definition: Last host connectivity verification time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2025-04-21 17:05:53. Value range: N/A.
connection_result	String	Definition: Connectivity verification result. Value range: N/A.
nick_name	String	Definition: Nickname of the creator. Value range: String. 1 to 30 characters.
import_status	String	Definition: Import status. Value range: • 0: Not imported. • 1: Imported.
env_count	Integer	Definition: Number of associated environments. Value range: 0-200.

Table 4-88 HostAuthorizationBody

Parameter	Type	Description
username	String	Definition Username for logging in to the host. Range 2 to 32 characters, including letters, digits, underscores (_), hyphens (-), periods (.), and at signs (@).
password	String	Definition: Password. Mandatory when the authentication type is 0 . Value range: 5 to 32 characters. Spaces, newline characters, carriage return characters, tab characters, double quotation marks, and single quotation marks are not supported.
private_key	String	Definition: Key. Mandatory when the authentication type is 1 . Value range: Max. 5,000 characters.
trusted_type	Integer	Definition: Authentication type for logging in to the host. Value range: • 0: Password authentication. • 1: Key authentication.

Table 4-89 PermissionHostDetailNew

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_edit	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.
can_add_host	Boolean	Definition: Whether you have permission to add hosts. Value range: • true: Yes. • false: No.
can_copy	Boolean	Definition: Whether you have permission to clone hosts. Value range: • true: Yes. • false: No.

Example Requests

```
https://{endpoint}/v1/resources/host-groups/317aea99cf2944fcacf88b34ef771843/hosts?
page_index=1&page_size=10&sort_key=host_name&sort_dir=asc&as_proxy=false
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : [ {
    "host_name" : "100.101.28.203",
    "ip" : "100.101.28.203",
    "port" : 22,
    "os" : "linux",
    "authorization" : {
      "username" : "root",
      "password" : null,
      "private_key" : null,
      "trusted_type" : 0
    }
  } ]
}
```

```
    },
    "permission" : {
      "can_view" : true,
      "can_edit" : true,
      "can_delete" : true,
      "can_add_host" : true,
      "can_copy" : true
    },
    "uuid" : "2cc913cc9a494f09b7320801ebacad02",
    "group_id" : "ab7647b0863c4e969c8949d38d591339",
    "as_proxy" : false,
    "proxy_host_id" : "",
    "owner_id" : "6baa7454109d47c192f22078fe6cda20",
    "owner_name" : "devcloud_devcloud_l00490255_01",
    "connection_status" : "success",
    "create_time" : "2021-04-15 11:01:51",
    "connection_result" : "Connection established",
    "lastest_connection_time" : "2021-04-15 11:02:00",
    "nick_name" : "A/B Side Account",
    "proxy_host" : null,
    "import_status" : null,
    "env_count" : 1
  } ],
  "total" : 1,
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ListNewHostsSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListNewHostsRequest request = new ListNewHostsRequest();
        request.withGroupId("{group_id}");
        try {
            ListNewHostsResponse response = client.listNewHosts(request);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListNewHostsRequest()
        request.group_id = "{group_id}"
        response = client.list_new_hosts(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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



```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListNewHostsRequest{}
request.GroupId = "{group_id}"
response, err := client.ListNewHosts(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.8 Querying Host Details (Recommended)

Function

This API is used to query host details by ID.

Calling Method

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

URI

GET /v1/resources/host-groups/{group_id}/hosts/{host_id}

Table 4-90 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
host_id	Yes	String	Definition: Host ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-91 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-92 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
result	HostInfoDetail object	Definition: Host details.

Table 4-93 HostInfoDetail

Parameter	Type	Description
host_id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.
ip	String	Definition: Host IP address. Value range: N/A.
os	String	Definition: OS of hosts. Value range: • window: Windows OS. • linux: Linux OS.
port	Integer	Definition: Port. Value range: 0-65535.
authorization	HostAuthorizationBody object	Definition: Log in to the host for authentication. Use either a password or key for login.

Parameter	Type	Description
permission	PermissionHostDetailNew object	Parameter description: Operation permission matrix of the current user on the host.
group_id	String	Definition: Host cluster ID. Value range: 32 characters, including letters and digits.
host_name	String	Definition: Host name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.).
as_proxy	Boolean	Definition: Agent or not. Value range: • true: Yes. • false: No.
proxy_host_id	String	Definition: Agent host ID. Value range: 32 characters, including letters and digits.
owner_name	String	Definition: Creator username. Value range: Max. 255 characters, including letters, digits, and underscores (_).
proxy_host	HostInfoDetail object	Definition: Agent details.
connection_status	String	Definition: Connectivity status. Value range: • success: The connectivity is successful. • failed: The connectivity fails.

Parameter	Type	Description
create_time	String	Definition: Creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2025-04-21 17:05:53. Value range: N/A.
update_time	String	Definition: Update time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2025-04-21 17:05:53. Value range: N/A.
lastest_connection_time	String	Definition: Last host connectivity verification time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2025-04-21 17:05:53. Value range: N/A.
connection_result	String	Definition: Connectivity verification result. Value range: N/A.
install_icagent	Boolean	Definition: ICAgent installation status. Value range: • true: Installed. • false: Not installed.
nick_name	String	Definition: Nickname of the creator. Value range: String. 1 to 30 characters.

Table 4-94 HostAuthorizationBody

Parameter	Type	Description
username	String	Definition Username for logging in to the host. Range 2 to 32 characters, including letters, digits, underscores (_), hyphens (-), periods (.), and at signs (@).
password	String	Definition: Password. Mandatory when the authentication type is 0 . Value range: 5 to 32 characters. Spaces, newline characters, carriage return characters, tab characters, double quotation marks, and single quotation marks are not supported.
private_key	String	Definition: Key. Mandatory when the authentication type is 1 . Value range: Max. 5,000 characters.
trusted_type	Integer	Definition: Authentication type for logging in to the host. Value range: • 0: Password authentication. • 1: Key authentication.

Table 4-95 PermissionHostDetailNew

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_edit	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.
can_add_host	Boolean	Definition: Whether you have permission to add hosts. Value range: • true: Yes. • false: No.
can_copy	Boolean	Definition: Whether you have permission to clone hosts. Value range: • true: Yes. • false: No.

Example Requests

```
https://{endpoint}/v1/resources/host-groups/ab7647b0863c4e969c8949d38d591339/hosts/  
300d6d2e53624d0da08b182099ad10f7
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "result": {  
    "host_id": "300d6d2e53624d0da08b182099ad10f7",  
    "ip": "100.101.28.215",  
    "port": 22,  
    "os": "linux",  
    "authorization": {  
      "username": "root",  
      "password": null,  
      "private_key": null,  
      "trusted_type": 0
```

```
    },
    "permission" : {
      "can_view" : true,
      "can_edit" : true,
      "can_delete" : true,
      "can_add_host" : true,
      "can_copy" : true
    },
    "group_id" : "ab7647b0863c4e969c8949d38d591339",
    "host_name" : "100.101.28.215",
    "as_proxy" : false,
    "proxy_host_id" : null,
    "owner_name" : "devcloud_devcloud_l00490255_01",
    "proxy_host" : null,
    "connection_status" : "success",
    "install_icagent" : false,
    "create_time" : "2021-05-13 09:35:41",
    "update_time" : "2021-05-13 09:35:41",
    "connection_result" : "Connection established",
    "lastest_connection_time" : "2021-05-13 09:36:11",
    "nick_name" : "A/B Side Account"
  },
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ShowHostDetailSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowHostDetailRequest request = new ShowHostDetailRequest();
        request.withGroupId("{group_id}");
        request.withHostId("{host_id}");
        try {
            ShowHostDetailResponse response = client.showHostDetail(request);
            System.out.println(response.toString());
        }
```



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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowHostDetailRequest()
        request.group_id = "{group_id}"
        request.host_id = "{host_id}"
        response = client.show_host_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

```
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowHostDetailRequest{}
request.GroupId = "{group_id}"
request.HostId = "{host_id}"
response, err := client.ShowHostDetail(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.9 Editing Host Information in a Host Cluster

Function

This API is used to edit host information in a host cluster by ID.

Calling Method

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

URI

PUT /v1/resources/host-groups/{group_id}/hosts/{host_id}

Table 4-96 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Host cluster ID
host_id	Yes	String	Host ID

Request Parameters

Table 4-97 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-98 Request body parameters

Parameter	Mandatory	Type	Description
as_proxy	No	Boolean	Proxy host or not

Parameter	Mandatory	Type	Description
authorization	No	DeploymentHostAuthorizationBody object	Definition: Log in to the host for authentication. Use either a password or key for login. Constraints: N/A.
host_name	Yes	String	Host name
ip	Yes	String	An IPv4 or IPv6 IP address.
port	Yes	Integer	SSH Port, for example, 22.
proxy_host_id	No	String	Proxy host ID
sync	No	Boolean	Whether to sync host information
install_icagent	No	Boolean	Whether to install ICAGENT

Table 4-99 DeploymentHostAuthorizationBody

Parameter	Mandatory	Type	Description
username	Yes	String	Definition: Username for logging in to the host. Constraints: N/A. Value range: 2 to 32 characters, including letters, digits, underscores (_), hyphens (-), periods (.), and at signs (@). Default value: N/A.

Parameter	Mandatory	Type	Description
password	No	String	Definition: Password. Mandatory when the authentication type is 0 . Constraints: N/A. Value range: 5 to 32 characters. Spaces, single and double quotation marks are not supported. Default value: N/A.
private_key	No	String	Definition: Key. Mandatory when the authentication type is 1 . Constraints: N/A. Value range: Max. 5,000 characters. Default value: N/A.
trusted_type	Yes	Integer	Definition: Authentication type for logging in to the host. Constraints: N/A. Value range: • 0: Password authentication. • 1: Key authentication. Default value: N/A.

Response Parameters

Status code: 200

Table 4-100 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • error: Failed.
id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://{endpoint}/v1/resources/host-groups/6bec5f67ab9b4c34a21c7ffe0b0191c8/hosts/  
a94facdc4b1e40d799dbe6de91167072
```

```
{  
  "as_proxy" : false,  
  "host_name" : "hostName",  
  "install_icagent" : true,  
  "ip" : "100.101.28.215",  
  "port" : 22,  
  "proxy_host_id" : "",  
  "authorization" : {  
    "username" : "root",  
    "password" : "*****",  
    "private_key" : "",  
    "trusted_type" : 0  
  }  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "id" : "a94facdc4b1e40d799dbe6de91167072"  
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class UpdateHostInfoSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateHostInfoRequest request = new UpdateHostInfoRequest();
        request.withGroupId("{group_id}");
        request.withHostId("{host_id}");
        DeploymentHostRequestExternal body = new DeploymentHostRequestExternal();
        DeploymentHostAuthorizationBody authorizationbody = new DeploymentHostAuthorizationBody();
        authorizationbody.withUsername("root")
            .withPassword("*****")
            .withPrivateKey("")
            .withTrustedType(DeploymentHostAuthorizationBody.TrustedTypeEnum.NUMBER_0);
        body.withInstallAgent(true);
        body.withProxyHostId("");
        body.withPort(22);
        body.withIp("100.101.28.215");
        body.withHostName("hostName");
        body.withAuthorization(authorizationbody);
        body.withAsProxy(false);
        request.withBody(body);
        try {
            UpdateHostInfoResponse response = client.updateHostInfo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateHostInfoRequest()
        request.group_id = "{group_id}"
        request.host_id = "{host_id}"
        authorizationbody = DeploymentHostAuthorizationBody(
            username="root",
            password="*****",
            private_key="",
            trusted_type=0
        )
        request.body = DeploymentHostRequestExternal(
            install_icagent=True,
            proxy_host_id="",
            port=22,
            ip="100.101.28.215",
            host_name="hostName",
            authorization=authorizationbody,
            as_proxy=False
        )
        response = client.update_host_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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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



```
Build()

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.UpdateHostInfoRequest{}
request.GroupId = "{group_id}"
request.HostId = "{host_id}"
passwordAuthorization:= "*****"
privateKeyAuthorization:= ""
authorizationbody := &model.DeploymentHostAuthorizationBody{
    Username: "root",
    Password: &passwordAuthorization,
    PrivateKey: &privateKeyAuthorization,
    TrustedType: model.GetDeploymentHostAuthorizationBodyTrustedTypeEnum().E_0,
}
installIcagentDeploymentHostRequestExternal:= true
proxyHostIdDeploymentHostRequestExternal:= ""
asProxyDeploymentHostRequestExternal:= false
request.Body = &model.DeploymentHostRequestExternal{
    InstallIcagent: &installIcagentDeploymentHostRequestExternal,
    ProxyHostId: &proxyHostIdDeploymentHostRequestExternal,
    Port: int32(22),
    Ip: "100.101.28.215",
    HostName: "hostName",
    Authorization: authorizationbody,
    AsProxy: &asProxyDeploymentHostRequestExternal,
}
response, err := client.UpdateHostInfo(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.10 Deleting a Host from a Host Cluster

Function

This API is used to delete a host from a host cluster by ID.

Calling Method

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

URI

DELETE /v1/resources/host-groups/{group_id}/hosts/{host_id}

Table 4-101 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
host_id	Yes	String	Definition: Host ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-102 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-103** Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • error: Failed.

Parameter	Type	Description
id	String	Definition: Host ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://{endpoint}/v1/resources/host-groups/6bec5f67ab9b4c34a21c7ffe0b0191c8/hosts/  
a94facdc4b1e40d799dbe6de91167072
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "id" : "a94facdc4b1e40d799dbe6de91167072"  
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;  
import com.huaweicloud.sdk.codeartsdeploy.v2.*;  
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;  
  
public class DeleteHostSolution {  
  
    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);  
  
        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
```

```
        .build();
        DeleteHostRequest request = new DeleteHostRequest();
        request.withGroupId("{group_id}");
        request.withHostId("{host_id}");
        try {
            DeleteHostResponse response = client.deleteHost(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteHostRequest()
        request.group_id = "{group_id}"
        request.host_id = "{host_id}"
        response = client.delete_host(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
```

```
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartsdeploy.NewCodeArtsDeployClient(  
        codeartsdeploy.CodeArtsDeployClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.DeleteHostRequest{}  
    request.GroupId = "{group_id}"  
    request.HostId = "{host_id}"  
    response, err := client.DeleteHost(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.11 Cloning Hosts to the Target Host Cluster in Batches

Function

This API is used to clone hosts to the target host cluster in batches.

Calling Method

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

URI

POST /v1/resources/host-groups/{group_id}/hosts/replication

Table 4-104 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Source host cluster ID

Request Parameters

Table 4-105 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-106 Request body parameters

Parameter	Mandatory	Type	Description
host_uuids	Yes	Array of strings	Host ID list

Parameter	Mandatory	Type	Description
target_group_id	Yes	String	Target host cluster ID

Response Parameters

Status code: 200

Table 4-107 Response body parameters

Parameter	Type	Description
status	String	Request success or failure status
result	Boolean	Returned result

Example Requests

```
https://{endpoint}/v1/resources/host-groups/8518ee4e95924495ae18addce39b2015/hosts/replication
{
  "host_uuids" : [ "5fd1c0334d7343338054af811fef8e4b" ],
  "target_group_id" : "849f425a74034fd2a4e60c367414efba"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status" : "success",
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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



```
public class CopyHostsToTargetSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        CopyHostsToTargetRequest request = new CopyHostsToTargetRequest();
        request.withGroupId("{group_id}");
        DeploymentHostsCopyRequest body = new DeploymentHostsCopyRequest();
        List<String> listbodyHostUuids = new ArrayList<>();
        listbodyHostUuids.add("5fd1c0334d7343338054af811fef8e4b");
        body.withTargetGroupId("849f425a74034fd2a4e60c367414efba");
        body.withHostUuids(listbodyHostUuids);
        request.withBody(body);
        try {
            CopyHostsToTargetResponse response = client.copyHostsToTarget(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

```
try:
    request = CopyHostsToTargetRequest()
    request.group_id = "{group_id}"
    listHostUidsbody = [
        "5fd1c0334d7343338054af811fef8e4b"
    ]
    request.body = DeploymentHostsCopyRequest(
        target_group_id="849f425a74034fd2a4e60c367414efba",
        host_uuids=listHostUidsbody
    )
    response = client.copy_hosts_to_target(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CopyHostsToTargetRequest{}
    request.GroupId = "{group_id}"
    var listHostUidsbody = []string{
        "5fd1c0334d7343338054af811fef8e4b",
    }
    request.Body = &model.DeploymentHostsCopyRequest{
        TargetGroupId: "849f425a74034fd2a4e60c367414efba",
        HostUuids: listHostUidsbody,
    }
    response, err := client.CopyHostsToTarget(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: The request is successful.

Error Codes

See [Error Codes](#).

4.2.12 Deleting Hosts from a Host Cluster in Batches

Function

This API is used to delete hosts from a host cluster in batches.

Calling Method

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

URI

POST /v1/resources/host-groups/{group_id}/hosts/batch-delete

Table 4-108 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Host cluster ID

Request Parameters

Table 4-109 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-110 Request body parameters

Parameter	Mandatory	Type	Description
host_id_list	No	Array of strings	Host ID list

Response Parameters

Status code: 200

Table 4-111 Response body parameters

Parameter	Type	Description
status	String	Request success or failure status

Parameter	Type	Description
result	Array of strings	Returned result

Example Requests

```
https://{endpoint}/v1/resources/host-groups/2a8c2da888c04a5eaff10d0787c90ea4/hosts/batch-delete
{
  "host_id_list" : [ "5fd1c0334d7343338054af811fef8e4b" ]
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status" : "success",
  "result" : [ "450c2301c9ea4d82a6d9a06ce59ba6b4" ]
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

public class BatchDeleteHostsSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        BatchDeleteHostsRequest request = new BatchDeleteHostsRequest();
```

```
request.withGroupId("{group_id}");
DeploymentHostListEntity body = new DeploymentHostListEntity();
List<String> listbodyHostIdList = new ArrayList<>();
listbodyHostIdList.add("5fd1c0334d7343338054af811fef8e4b");
body.withHostIdList(listbodyHostIdList);
request.withBody(body);
try {
    BatchDeleteHostsResponse response = client.batchDeleteHosts(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = BatchDeleteHostsRequest()
        request.group_id = "{group_id}"
        listHostIdListbody = [
            "5fd1c0334d7343338054af811fef8e4b"
        ]
        request.body = DeploymentHostListEntity(
            host_id_list=listHostIdListbody
        )
        response = client.batch_delete_hosts(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchDeleteHostsRequest{}
    request.GroupId = "{group_id}"
    var listHostIdListbody = []string{
        "5fd1c0334d7343338054af811fef8e4b",
    }
    request.Body = &model.DeploymentHostListEntity{
        HostIdList: &listHostIdListbody,
    }
    response, err := client.BatchDeleteHosts(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3 Managing Applications

4.3.1 Querying Application Operation History

Function

This API is used to query the operation history according to the application ID.

Calling Method

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

URI

POST /v1/applications/{app_id}/operations/log

Table 4-112 Path Parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Definition : Application ID. Obtain the application list by calling the API for obtaining the application list . In the response body, result[0].id is the desired application list. Constraints: N/A Range: 32 characters, including letters and digits. Default Value: N/A

Request Parameters

Table 4-113 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-114 Request body parameters

Parameter	Mandatory	Type	Description
operation_type	No	Array of strings	Definition: Operation type. Constraints: N/A Range: • create: Create. • modify: Modify. • disable: Disable. • enable: Enable. Default Value: N/A

Parameter	Mandatory	Type	Description
data_type	No	Array of strings	Definition: Data type. Constraints: N/A Range: • application: Application. • config: Parameter setting. • permission: Permission management. • message: Notification subscription. • deployment_actions: Deployment actions. Default Value: N/A
operator_id	No	Array of strings	Definition Operator account ID. Obtain it by calling the API for obtaining a user token . In the response body, the value of token.user.id is the desired user ID. Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Parameter	Mandatory	Type	Description
start_time	No	String	Definition Start time, in timestamp format, in milliseconds. For example, the timestamp of April 17, 2024 17:14:48 is 1713345288000. Constraints N/A Range Enter a valid timestamp in milliseconds. Default value N/A
end_time	No	String	Definition End time, in timestamp format, in milliseconds. For example, the timestamp of April 18, 2024 17:14:48 is 1713431688000. Constraints N/A Range Enter a valid timestamp in milliseconds. Default value N/A
sort_type	No	String	Definition: Sorting type. Constraints: N/A Range: • ASC: Ascending. • asc: Ascending. • DESC: Descending. • desc: Descending. Default Value: N/A

Parameter	Mandatory	Type	Description
sort_by	No	String	Definition Sorting field. Constraints N/A Range operation_time : Operation time. Default value By descending order.
page_size	No	Integer	Definition: Page number. Constraints: N/A Range: 1-100 Default Value: N/A
page_index	No	Integer	Definition: Number of pages. Constraints: N/A Range: 0-99,999 Default Value: N/A

Response Parameters

Status code: 200

Table 4-115 Response body parameters

Parameter	Type	Description
result	Array of ListAppOperationsLogResult objects	Definition: Application modification records. Range: N/A

Parameter	Type	Description
total_num	Integer	Definition: Total number of application modification records. Range: Digits only.

Table 4-116 ListAppOperationsLogResult

Parameter	Type	Description
operator	String	Definition Operator account name. Range N/A
operator_id	String	Definition Operator account ID. Range N/A
operator_nick_name	String	Definition Operator account nickname. Range String. 1 to 30 characters.
operator_tenant_name	String	Definition: Name of the tenant to which the operator belongs. Range: N/A
operator_tenant_id	String	Definition ID of the tenant to which the operator belongs. Range N/A

Parameter	Type	Description
operation_type	String	Definition: Operation type. Range: • create: Create. • modify: Modify. • disable: Disable. • enable: Enable.
data_type	String	Definition: Data type. Range: • application: Application. • config: Parameter setting. • permission: Permission management. • message: Notification subscription. • deployment_actions: Deployment actions.
operation_time	String	Definition: Operation time, in timestamp format, in milliseconds. For example, the timestamp of April 18, 2024 14:14:48 is 1713420888000. Range: N/A

Example Requests

Query the operation history according to the application ID.

```
https://{endpoint}/v1/applications/00105ecca9d142148f9807cf0cdebfe/operations/log
```

```
{
  "operation_type": [ "enable", "disable", "modify", "create" ],
  "data_type": [ "deployment_actions", "message", "permission", "config", "application" ],
  "operator_id": [ ],
  "start_time": "1713345288000",
  "end_time": "1713431688000",
  "sort_type": "asc",
  "sort_by": "operation_time",
  "page_size": 10,
  "page_index": 1
}
```

Example Responses

Status code: 200

OK indicates that the application operation history is successfully queried.

```
{
  "result" : [ {
    "operator" : "devcloud_devcloud_01",
    "operator_id" : "6baa7454109d47c192f22078fe6cda21",
    "operator_nick_name" : "nickNameTest",
    "operator_tenant_name" : "devcloud_devcloud_01",
    "operator_tenant_id" : "26a680dd72e7482eb60d2ef5513586b1",
    "operation_type" : "create",
    "data_type" : "application",
    "operation_time" : "1713420888000"
  } ],
  "total_num" : 1
}
```

Status Codes

Status Code	Description
200	OK indicates that the application operation history is successfully queried.

Error Codes

See [Error Codes](#).

4.3.2 Obtaining an Application List

Function

This API is used to query an application list in a project. This API will not be maintained after September 30, 2024. You can use the ListAllApp API instead.

Calling Method

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

URI

GET /v2/{project_id}/tasks/list

Table 4-117 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Table 4-118 Query Parameters

Parameter	Mandatory	Type	Description
page	Yes	Integer	Definition: Page number, indicating that the query starts from this page. Constraints: N/A. Value range: 1–99999 Default value: N/A.
size	Yes	Integer	Definition: Number of records displayed on each page. Constraints: N/A. Value range: 1–100 Default value: N/A.

Request Parameters

Table 4-119 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-120** Response body parameters

Parameter	Type	Description
total_num	Integer	Definition: Total number of deployment tasks. Value range: N/A.
result	Array of TaskInfo objects	Definition: Deployment task list. Value range: N/A.

Table 4-121 TaskInfo

Parameter	Type	Description
task_id	String	Definition: Deployment task ID. Value range: 32 characters, including letters and digits.
name	String	Definition: Application name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), and underscores (_).
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Letters and digits are allowed.
project_name	String	Definition: Project name. Value range: 3 to 128 characters.
deploy_system	String	Definition: Deployment type mode. Value range: deployTemplate: Deployment template type.
create_time	String	Definition: Creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
update_time	String	Definition: Modification time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.

Parameter	Type	Description
state	String	Definition: Application status. Value range: • Draft: The application is in draft. • Available: The application is available.
execution_time	String	Definition: Last deployment time of the application. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
description	String	Definition: Description. Value range: Max. 1,024 characters.
is_default_permission	Boolean	Definition: Whether you are the default role of the project management. Value range: • true: Yes. • false: No.
template_id	String	Definition: Template ID. Value range: 32 characters, including letters and digits.
owner	String	Definition: Username of the application creator. Value range: Max. 128 characters.
nick_name	String	Definition Nickname of the application creator. Range String. 1 to 30 characters.

Parameter	Type	Description
owner_id	String	Definition: Application creator ID. Value range: 32 characters, including letters and digits.
tenant_id	String	Definition: Tenant ID of the application creator. Value range: 32 characters, including letters and digits.
tenant_name	String	Definition: Tenant name of the application creator. Value range: Max. 128 characters.
slave_cluster_id	String	Definition: ID of slave cluster. Value range: 32 characters, including letters and digits.
is_care	Boolean	Definition: Whether you have favorited the application. Value range: • true: Yes. • false: No.
can_modify	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.
can_execute	Boolean	Definition: Whether you have the deployment permission. Value range: • true: Yes. • false: No.
can_copy	Boolean	Definition: Whether you have the copy permission. Value range: • true: Yes. • false: No.
can_manage	Boolean	Definition: Whether you have permission to edit the application permission matrix. Value range: • true: Yes. • false: No.
can_disable	Boolean	Definition: Whether you have permission to disable applications. Value range: • true: Yes. • false: No.
app_component_list	Array of AppComponentDao objects	Definition: Application component list.
role_id	Integer	Definition: Project management role ID. Value range: N/A.

Parameter	Type	Description
id	String	Definition: Deployment task ID. Value range: 32 characters, including letters and digits.
release_id	Integer	Definition: Deployment record sequence number. Value range: N/A.
app_id	String	Definition: Deployment application ID. Value range: 32 characters, including letters and digits.
is_disable	Boolean	Definition: Whether the application is disabled. Value range: • true: Yes. • false: No.
duration	String	Definition: Deployment duration. Format: <i>HH:mm:ss</i> . Value range: N/A.
execution_state	String	Definition: Last execution status of the application. Value range: • abort: Deployment suspended. • failed: Deployment failed. • not_started: Execution canceled. • pending: Queuing. • running: Deployment in progress. • succeeded: Deployment succeeded.
executor_id	String	Definition: Deployer ID. Value range: N/A.

Parameter	Type	Description
executor_nick_name	String	Definition Deployer nickname. Range String. 1 to 30 characters.
steps	Map<String, Step >	Definition: Deployment action.

Table 4-122 AppComponentDao

Parameter	Type	Description
task_id	String	Definition: Deployment job ID. Range: 32 characters, including letters and digits.
app_id	String	Definition: AOM application ID. Range: 32 characters, including letters and digits.
app_name	String	Parameter description: AOM application name. Value range: The value consists of letters and digits.
comp_id	String	Definition: AOM application component ID. Range: 32 characters, including letters and digits.
comp_name	String	Parameter description: AOM application component name. Value range: The value consists of 0 to 128 characters.

Parameter	Type	Description
domain_id	String	Definition: Tenant ID. Range: 32 characters, including letters and digits.
region	String	Parameter description: Region information. Value range: The value consists of 1 to 256 characters.
state	String	Parameter description: Whether the AOM application component takes effect. Value range: 0: Initialized. 1: The operation is successful and takes effect.

Table 4-123 Step

Parameter	Type	Description
id	String	Definition Action ID. Range The value contains 32 characters. Only letters and digits are supported.
name	String	Definition Action name. Range The value can contain a maximum of 128 characters and cannot start or end with a space. It includes only letters, digits, spaces, and special characters - _,:./()
params	Map<String,String>	Definition Action parameter. Range N/A

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable an action. Value range: - true: Yes. - false: No.

Example Requests

<https://endpoint/v2/332f53cbabc44863a46ce6b4f82a9fe7/tasks/list?page=1&size=2>

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : [ {
    "id" : "2c82ffe8d00d4968a4e5f7a36d87ae17",
    "name" : "Message Notification",
    "state" : "succeeded",
    "owner" : "devcloud_devcloud_l00490255_01",
    "duration" : "00:00:50",
    "project_id" : "332f53cbabc44863a46ce6b4f82a9fe7",
    "project_name" : "DeployMan-UI-L0",
    "deploy_system" : "deployTemplate",
    "create_time" : "2022-02-09 16:34:20",
    "update_time" : "2022-03-05 09:04:39",
    "execution_time" : "2022-04-11 15:50:23",
    "execution_state" : "succeeded",
    "role_id" : -1,
    "is_default_permission" : false,
    "executor_id" : "6baa7454109d47c192f22078fe6cda20",
    "executor_nick_name" : "A/B Side Account",
    "nick_name" : "A/B Side Account",
    "owner_id" : "6baa7454109d47c192f22078fe6cda20",
    "is_care" : true,
    "can_modify" : true,
    "can_delete" : true,
    "can_view" : true,
    "can_execute" : true,
    "can_copy" : true,
    "can_manage" : true,
    "can_disable" : false,
    "release_id" : 61640,
    "is_disable" : true
  }, {
    "id" : "a9c3ef27a1f34a1abf1dc84d927d7d39",
    "name" : "412",
    "state" : "failed",
    "owner" : "paas_clouddeploy_h00472130_01",
    "duration" : "00:02:36",
    "project_id" : "332f53cbabc44863a46ce6b4f82a9fe7",
    "project_name" : "DeployMan-UI-L0",
    "deploy_system" : "deployTemplate",
    "create_time" : "2022-04-12 17:26:07",
    "update_time" : "2022-04-12 17:26:07",
    "execution_time" : "2022-04-13 11:45:09",
    "execution_state" : "failed",
    "role_id" : -1,
  }
  ]
}
```

```
"is_default_permission" : false,
"executor_id" : "04ec4661a8df4359b50980a9c958c86d",
"executor_nick_name" : "paas_clouddeploy_h00472130_01",
"nick_name" : "paas_clouddeploy_h00472130_01",
"owner_id" : "04ec4661a8df4359b50980a9c958c86d",
"is_care" : false,
"can_modify" : true,
"can_delete" : true,
"can_view" : true,
"can_execute" : true,
"can_copy" : true,
"can_manage" : true,
"can_disable" : false,
"release_id" : 29,
"is_disable" : true
} ],
"total_num" : 331
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ListDeployTasksSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListDeployTasksRequest request = new ListDeployTasksRequest();
        request.withProjectId("{project_id}");
        try {
            ListDeployTasksResponse response = client.listDeployTasks(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
        }
    }
}
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListDeployTasksRequest()
        request.project_id = "{project_id}"
        response = client.list_deploy_tasks(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

```
client := codeartsdeploy.NewCodeArtsDeployClient(  
    codeartsdeploy.CodeArtsDeployClientBuilder().  
        WithRegion(region.ValueOf("<YOUR REGION>")).  
        WithCredential(auth).  
        Build())  
  
request := &model.ListDeployTasksRequest{  
    request.ProjectId = "{project_id}"  
}  
response, err := client.ListDeployTasks(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.3 Querying All Logs

Function

This API is used to query all logs according to the deployment record ID.

Calling Method

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

URI

GET /v1/applications/{app_id}/records/{record_id}/logs

Table 4-124 Path Parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Definition : Application ID. Obtain the application list by calling the API for obtaining the application list . In the response body, result[0].id is the desired application list. Constraints: N/A Range: 32 characters, including letters and digits. Default Value: N/A
record_id	Yes	String	Definition : Deployment record ID. Obtain the historical deployment record list by calling the API for querying the historical deployment record list of the specified application under a project according to the start time and end time . In the response body, result[0].execution_id is the desired historical deployment record list. Constraints: N/A Range: 32 characters, including letters and digits. Default Value: N/A

Table 4-125 Query Parameters

Parameter	Mandatory	Type	Description
offset	Yes	String	Definition: Log start offset. Constraints: N/A Range: 1–19 digits. Default Value: N/A
end_offset	Yes	String	Definition: Log end offset. Constraints: N/A Range: 1–19 digits. Default Value: N/A
step_id	No	String	Definition : Deployment action ID. Obtain the application details by calling the API for deploying the application . In the response body, result.arrange_infos[0].steps.step1.id is the desired application list. Constraints: N/A Range: 1 to 32 characters, including letters and digits. Default Value: N/A

Request Parameters

Table 4-126 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-127** Response body parameters

Parameter	Type	Description
result	Object	Definition: Log record result of the deployment application. Range: N/A
status	String	Definition: Log query result. Range: • success: Logs are queried successfully. • error: Query logs failed.

Table 4-128 QueryAppLogResult

Parameter	Type	Description
has_more	Boolean	Definition: Whether there are more logs. Range: • true: More logs are available. You can call this API again to query more logs. • false: No more logs. The log information remains unchanged when this API is called again.
text	String	Definition: Log information. Range: N/A
offset	String	Definition: Log start offset. Range: Digits only.
end_offset	String	Definition Log end offset, which is used together with the offset parameter. Range Digits only.

Example Requests

Query all logs according to the deployment record ID.

```
https://{endpoint}/v1/applications/00105ecca9d142148f9807cf0cdebfe/records/03e60d39434648a2bb60cb8eb2817dde/logs?offset=0&end_offset=0
```

Example Responses

Status code: 200

OK indicates that full logs are successfully queried.

```
{
  "result" : {
    "has_more" : true,
    "text" : "[2024/09/26 10:57:37.290 GMT+08:00] [INFO]...",
    "offset" : "0",
    "end_offset" : "3354"
  },
  "status" : "success"
}
```


Status Codes

Status Code	Description
200	OK indicates that full logs are successfully queried.

Error Codes

See [Error Codes](#).

4.3.4 Creating an Application Using a Template

Function

This API is used to create an application using a template. This API will not be maintained after September 30, 2024. You can use the CreateApp API instead.

Calling Method

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

URI

POST /v2/tasks/template-task

Request Parameters

Table 4-129 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-130 Request body parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
project_name	Yes	String	Definition: Project name. Constraints: N/A. Value range: 3 to 128 characters, including letters and digits. Default value: N/A.

Parameter	Mandatory	Type	Description
template_id	Yes	String	Definition: Deployment template ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
task_name	Yes	String	Definition: Application name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-). Default value: N/A.
slave_cluster_id	No	String	Definition: Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
configs	No	Array of ConfigInfoDO objects	Deployment parameter type

Table 4-131 ConfigInfoDO

Parameter	Mandatory	Type	Description
name	No	String	Definition: Custom deployment parameter name. Constraints: N/A. Value range: Max. 128 characters, including letters, digits, underscores (_), hyphens (-), and periods (.). Default value: N/A.
type	No	String	Definition: Deployment parameter type. Constraints: If name is set, type is mandatory. Value range: • text: String. • host_group: Environment. • enum: Enumeration. • encrypt: Private parameter. Default value: The default value is text .
description	No	String	Definition: Description. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.

Parameter	Mandatory	Type	Description
value	No	String	Definition: Deployment parameter value. Constraints: N/A. Value range: Max. 8,192 characters. The following special characters are not supported: {{, {%, and {# Default value: N/A.
task_id	No	String	Definition: Deployment task ID, which is automatically generated when an application is created. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
static_status	No	Integer	Definition: Static parameter or not. Constraints: N/A. Value range: 0: Parameters cannot be changed during deployment. 1: Parameters can be changed during deployment and reported to the pipeline. Default value: The default value is 1.
limits	No	Array of ParamTypeLimits objects	When the parameter type is enum, the optional value must be entered.

Table 4-132 ParamTypeLimits

Parameter	Mandatory	Type	Description
name	No	String	Definition: Enumerated value optional parameter. Constraints: N/A. Value range: 1 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). Default value: N/A.
display_name	No	String	Definition: Parameter display value. Constraints: N/A Range: Digits only. Default Value: N/A

Response Parameters

Status code: 200

Table 4-133 Response body parameters

Parameter	Type	Description
task_name	String	Definition: Application name. Value range: 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-).
task_id	String	Definition: Deployment task ID. Value range: 32 characters, including letters and digits.

Status code: 400**Table 4-134** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 403**Table 4-135** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

This API is used to create an application using the Deploy a Spring Boot Application template in a specified project.

https://{endpoint}/v2/tasks/template-task

```
{
  "project_id": "6039d4480efc4dddb178abff98719913",
  "project_name": "Deploy",
  "template_id": "6efb0b24e2e9489eb0e53ee12904a19e",
  "task_name": "Deploytest",
  "configs": [ {
    "name": "serviceName",
    "type": "text",
    "description": "Service name",
    "value": "SpringBoot-Demo"
  }, {
    "name": "releaseVersion",
    "type": "text",
    "description": "Version number",
    "value": "1.1.1"
  }, {
    "name": "jdk_path",
    "type": "text",
    "description": "",
    "value": "/usr/local/jdk"
  }, {
    "name": "package_url",
    "type": "text",
    "description": "",
    "value": "/${serviceName}/${releaseVersion}/${serviceName}.jar"
  }, {
    "name": "spring_path",
    "type": "text",
    "description": ""
  }
]
```

```
"value" : "/usr/local/${serviceName}.jar"
}, {
  "name" : "download_path",
  "type" : "text",
  "description" : "",
  "value" : "/usr/local/"
}, {
  "name" : "service_port",
  "type" : "text",
  "description" : "",
  "value" : "<%= service_port%>"
}, {
  "name" : "host_group",
  "type" : "host_group",
  "description" : "",
  "value" : "<%= host_group%>"
}, {
  "name" : "component_name",
  "type" : "text",
  "description" : "",
  "value" : "aom-${serviceName}"
}, {
  "name" : "log_path",
  "type" : "text",
  "description" : "",
  "value" : "/usr/local/*.log"
} ]
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "task_name" : "Deploytest",
  "task_id" : "140ca97e701d4c4c93c59ffd5bdb32ec"
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "Deploy.00015002",
  "error_msg" : "Invalid request parameter."
}
```

Status code: 403

Forbidden

```
{
  "error_code" : "Deploy.00011154",
  "error_msg" : "You do not have permissions to perform this operation."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

This API is used to create an application using the Deploy a Spring Boot Application template in a specified project.


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

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

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

public class CreateDeployTaskByTemplateSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateDeployTaskByTemplateRequest request = new CreateDeployTaskByTemplateRequest();
        TemplateTaskRequestBody body = new TemplateTaskRequestBody();
        List<ConfigInfoDO> listbodyConfigs = new ArrayList<>();
        listbodyConfigs.add(
            new ConfigInfoDO()
                .WithName("serviceName")
                .WithType(ConfigInfoDO.TypeEnum.fromValue("text"))
                .withDescription("Service name")
                .withValue("SpringBoot-Demo")
        );
        listbodyConfigs.add(
            new ConfigInfoDO()
                .WithName("releaseVersion")
                .WithType(ConfigInfoDO.TypeEnum.fromValue("text"))
                .withDescription("Version number")
                .withValue("1.1.1")
        );
        listbodyConfigs.add(
            new ConfigInfoDO()
                .WithName("jdk_path")
                .WithType(ConfigInfoDO.TypeEnum.fromValue("text"))
                .withDescription("")
                .withValue("/usr/local/jdk")
        );
        listbodyConfigs.add(
            new ConfigInfoDO()
                .WithName("package_url")
                .WithType(ConfigInfoDO.TypeEnum.fromValue("text"))
                .withDescription("")
                .withValue("/{serviceName}/{releaseVersion}/{serviceName}.jar")
        );
        listbodyConfigs.add(
            new ConfigInfoDO()
                .WithName("spring_path")
                .WithType(ConfigInfoDO.TypeEnum.fromValue("text"))
                .withDescription("")
        );
    }
}
```

```
        .withValue("/usr/local/${serviceName}.jar")
    );
    listbodyConfigs.add(
        new ConfigInfoDO()
            .withName("download_path")
            .withType(ConfigInfoDO.TypeEnum.fromValue("text"))
            .withDescription("")
            .withValue("/usr/local/")
    );
    listbodyConfigs.add(
        new ConfigInfoDO()
            .withName("service_port")
            .withType(ConfigInfoDO.TypeEnum.fromValue("text"))
            .withDescription("")
            .withValue("<%= service_port%>")
    );
    listbodyConfigs.add(
        new ConfigInfoDO()
            .withName("host_group")
            .withType(ConfigInfoDO.TypeEnum.fromValue("host_group"))
            .withDescription("")
            .withValue("<%= host_group%>")
    );
    listbodyConfigs.add(
        new ConfigInfoDO()
            .withName("component_name")
            .withType(ConfigInfoDO.TypeEnum.fromValue("text"))
            .withDescription("")
            .withValue("aom-${serviceName}")
    );
    listbodyConfigs.add(
        new ConfigInfoDO()
            .withName("log_path")
            .withType(ConfigInfoDO.TypeEnum.fromValue("text"))
            .withDescription("")
            .withValue("/usr/local/*.log")
    );
    body.withConfigs(listbodyConfigs);
    body.withTaskName("Deploytest");
    body.withTemplateId("6efb0b24e2e9489eb0e53ee12904a19e");
    body.withProjectName("Deploy");
    body.withProjectId("6039d4480efc4dddb178abff98719913");
    request.withBody(body);
    try {
        CreateDeployTaskByTemplateResponse response = client.createDeployTaskByTemplate(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

This API is used to create an application using the Deploy a Spring Boot Application template in a specified project.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

```
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreateDeployTaskByTemplateRequest()
        listConfigbody = [
            ConfigInfoDO(
                name="serviceName",
                type="text",
                description="Service name",
                value="SpringBoot-Demo"
            ),
            ConfigInfoDO(
                name="releaseVersion",
                type="text",
                description="Version number",
                value="1.1.1"
            ),
            ConfigInfoDO(
                name="jdk_path",
                type="text",
                description="",
                value="/usr/local/jdk"
            ),
            ConfigInfoDO(
                name="package_url",
                type="text",
                description="",
                value="/${serviceName}/${releaseVersion}/${serviceName}.jar"
            ),
            ConfigInfoDO(
                name="spring_path",
                type="text",
                description="",
                value="/usr/local/${serviceName}.jar"
            ),
            ConfigInfoDO(
                name="download_path",
                type="text",
                description="",
                value="/usr/local/"
            ),
            ConfigInfoDO(
                name="service_port",
                type="text",
                description="",
                value="<%= service_port%>"
            ),
            ConfigInfoDO(
                name="host_group",
                type="host_group",
                description=""
            )
        ]
```

```
        value="<%= host_group%>"
    ),
    ConfigInfoDO(
        name="component_name",
        type="text",
        description="",
        value="aom-${serviceName}"
    ),
    ConfigInfoDO(
        name="log_path",
        type="text",
        description="",
        value="/usr/local/*.log"
    )
]
request.body = TemplateTaskRequestBody(
    configs=listConfigsbody,
    task_name="Deploytest",
    template_id="6efb0b24e2e9489eb0e53ee12904a19e",
    project_name="Deploy",
    project_id="6039d4480efc4dddb178abff98719913"
)
response = client.create_deploy_task_by_template(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

This API is used to create an application using the Deploy a Spring Boot Application template in a specified project.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateDeployTaskByTemplateRequest{
        nameConfigs:= "serviceName"
        typeConfigs:= model.GetConfigInfoDoTypeEnum().TEXT
        descriptionConfigs:= "Service name"
```

```
valueConfigs:= "SpringBoot-Demo"
nameConfigs1:= "releaseVersion"
typeConfigs1:= model.GetConfigInfoDoTypeEnum().TEXT
descriptionConfigs1:= "Version number"
valueConfigs1:= "1.1.1"
nameConfigs2:= "jdk_path"
typeConfigs2:= model.GetConfigInfoDoTypeEnum().TEXT
descriptionConfigs2:= ""
valueConfigs2:= "/usr/local/jdk"
nameConfigs3:= "package_url"
typeConfigs3:= model.GetConfigInfoDoTypeEnum().TEXT
descriptionConfigs3:= ""
valueConfigs3:= "${serviceName}/${releaseVersion}/${serviceName}.jar"
nameConfigs4:= "spring_path"
typeConfigs4:= model.GetConfigInfoDoTypeEnum().TEXT
descriptionConfigs4:= ""
valueConfigs4:= "/usr/local/${serviceName}.jar"
nameConfigs5:= "download_path"
typeConfigs5:= model.GetConfigInfoDoTypeEnum().TEXT
descriptionConfigs5:= ""
valueConfigs5:= "/usr/local/"
nameConfigs6:= "service_port"
typeConfigs6:= model.GetConfigInfoDoTypeEnum().TEXT
descriptionConfigs6:= ""
valueConfigs6:= "<%= service_port%>"
nameConfigs7:= "host_group"
typeConfigs7:= model.GetConfigInfoDoTypeEnum().HOST_GROUP
descriptionConfigs7:= ""
valueConfigs7:= "<%= host_group%>"
nameConfigs8:= "component_name"
typeConfigs8:= model.GetConfigInfoDoTypeEnum().TEXT
descriptionConfigs8:= ""
valueConfigs8:= "aom-${serviceName}"
nameConfigs9:= "log_path"
typeConfigs9:= model.GetConfigInfoDoTypeEnum().TEXT
descriptionConfigs9:= ""
valueConfigs9:= "/usr/local/*.log"
var listConfigbody = []model.ConfigInfoDo{
    {
        Name: &nameConfigs,
        Type: &typeConfigs,
        Description: &descriptionConfigs,
        Value: &valueConfigs,
    },
    {
        Name: &nameConfigs1,
        Type: &typeConfigs1,
        Description: &descriptionConfigs1,
        Value: &valueConfigs1,
    },
    {
        Name: &nameConfigs2,
        Type: &typeConfigs2,
        Description: &descriptionConfigs2,
        Value: &valueConfigs2,
    },
    {
        Name: &nameConfigs3,
        Type: &typeConfigs3,
        Description: &descriptionConfigs3,
        Value: &valueConfigs3,
    },
    {
        Name: &nameConfigs4,
        Type: &typeConfigs4,
        Description: &descriptionConfigs4,
        Value: &valueConfigs4,
    },
}
```

```
        Name: &nameConfigs5,
        Type: &typeConfigs5,
        Description: &descriptionConfigs5,
        Value: &valueConfigs5,
    },
    {
        Name: &nameConfigs6,
        Type: &typeConfigs6,
        Description: &descriptionConfigs6,
        Value: &valueConfigs6,
    },
    {
        Name: &nameConfigs7,
        Type: &typeConfigs7,
        Description: &descriptionConfigs7,
        Value: &valueConfigs7,
    },
    {
        Name: &nameConfigs8,
        Type: &typeConfigs8,
        Description: &descriptionConfigs8,
        Value: &valueConfigs8,
    },
    {
        Name: &nameConfigs9,
        Type: &typeConfigs9,
        Description: &descriptionConfigs9,
        Value: &valueConfigs9,
    },
}
request.Body = &model.TemplateTaskRequestBody{
    Configs: &listConfigsboby,
    TaskName: "Deploytest",
    TemplateId: "6efb0b24e2e9489eb0e53ee12904a19e",
    ProjectName: "Deploy",
    ProjectId: "6039d4480efc4dddb178abff98719913",
}
response, err := client.CreateDeployTaskByTemplate(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: The request is successful.
400	Bad Request
403	Forbidden

Error Codes

See [Error Codes](#).

4.3.5 Deploying an Application

Function

This API is used to deploy an application by deployment task ID.

Calling Method

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

URI

POST /v2/tasks/{task_id}/start

Table 4-136 Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Definition Deployment task ID. Constraints N/A Range The value contains 32 characters. Only letters and digits are allowed. Default value N/A

Request Parameters

Table 4-137 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-138 Request body parameters

Parameter	Mandatory	Type	Description
params	No	Array of DynamicConfigInfo objects	Definition: Parameters transferred during application deployment. Constraints: N/A.

Parameter	Mandatory	Type	Description
record_id	No	String	Definition: Application deployment ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
trigger_source	No	String	Definition: Whether to restrict the triggering source. Constraints: N/A. Value range: • 0: No restrictions. • 1: Trigger a deployment only through the pipeline. Default value: N/A.

Table 4-139 DynamicConfigInfo

Parameter	Mandatory	Type	Description
key	No	String	Definition: Parameter name transferred during application deployment. Constraints: N/A. Value range: 1 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). Default value: N/A.

Parameter	Mandatory	Type	Description
value	No	String	Definition: Parameter value transferred during application deployment. Constraints: N/A. Value range: Max. 8,192 characters. The following special characters are not supported: {, {%, and {# Default value: N/A.
type	No	String	Definition: Deployment parameter type. Constraints: If you set this parameter to runtime, this parameter is mandatory. Value range: • text: String type. • host_group: Environment type. • encrypt: Private type. • enum: Enumeration type. Default value: N/A.

Response Parameters

Status code: 200

Table 4-140 Response body parameters

Parameter	Type	Description
id	String	Definition: Deployment record ID. Value range: 32 characters, including letters and digits.

Parameter	Type	Description
task_id	String	Definition: Deployment task ID. Value range: 32 characters, including letters and digits.
job_name	String	Definition: Execution task name. Value range: 50 characters, including letters, digits, and underscores (_).
app_component_list	Array of AppComponentDao objects	Definition: Mapping between applications and AOM application components.

Table 4-141 AppComponentDao

Parameter	Type	Description
task_id	String	Definition: Deployment job ID. Range: 32 characters, including letters and digits.
app_id	String	Definition: AOM application ID. Range: 32 characters, including letters and digits.
app_name	String	Parameter description: AOM application name. Value range: The value consists of letters and digits.
comp_id	String	Definition: AOM application component ID. Range: 32 characters, including letters and digits.

Parameter	Type	Description
comp_name	String	Parameter description: AOM application component name. Value range: The value consists of 0 to 128 characters.
domain_id	String	Definition: Tenant ID. Range: 32 characters, including letters and digits.
region	String	Parameter description: Region information. Value range: The value consists of 1 to 256 characters.
state	String	Parameter description: Whether the AOM application component takes effect. Value range: 0: Initialized. 1: The operation is successful and takes effect.

Example Requests

This API is used to deploy an application by deployment task ID.

```
https://{endpoint}/v2/tasks/d2dc947ec2424d8789bb3984bb3adf45/start
```

```
{
  "params": [ {
    "key": "string",
    "value": "test",
    "type": "text"
  }, {
    "key": "env",
    "value": "e3144513a4094398857c992606ccba12",
    "type": "host_group"
  }, {
    "key": "enum",
    "value": "value1",
    "type": "enum"
  } ],
  "trigger_source": 0
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "id" : "0ee9c8e6a7dc44109541e53c6dccb47c",
  "task_id" : "d2dc947ec2424d8789bb3984bb3adf45",
  "job_name" : "job_0ee9c8e6a7dc44109541e53c6dccb47c_1620810492008",
  "app_component_list" : [ ]
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

This API is used to deploy an application by deployment task ID.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

public class StartDeployTaskSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        StartDeployTaskRequest request = new StartDeployTaskRequest();
        request.withTaskId("{task_id}");
        EnvExecutionBody body = new EnvExecutionBody();
        List<DynamicConfigInfo> listbodyParams = new ArrayList<>();
        listbodyParams.add(
            new DynamicConfigInfo()
                .withType(DynamicConfigInfo.TypeEnum.fromValue("text"))
                .withValue("test")
                .withKey("string")
        );
        listbodyParams.add(
            new DynamicConfigInfo()
                .withType(DynamicConfigInfo.TypeEnum.fromValue("host_group"))
        );
    }
}
```

```
.withValue("e3144513a4094398857c992606ccba12")
.withKey("env")
);
listbodyParams.add(
    new DynamicConfigInfo()
        .withType(DynamicConfigInfo.TypeEnum.fromValue("enum"))
        .withValue("value1")
        .withKey("enum")
);
body.withTriggerSource("0");
body.withParams(listbodyParams);
request.withBody(body);
try {
    StartDeployTaskResponse response = client.startDeployTask(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

This API is used to deploy an application by deployment task ID.

coding: utf-8

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = StartDeployTaskRequest()
        request.task_id = "{task_id}"
        listParamsbody = [
            DynamicConfigInfo(
                type="text",
                value="test",
                key="string"
            ),
            DynamicConfigInfo(
                type="host_group",
                value="e3144513a4094398857c992606ccba12",
```

```
        key="env"
    ),
    DynamicConfigInfo(
        type="enum",
        value="value1",
        key="enum"
    )
]
request.body = EnvExecutionBody(
    trigger_source="0",
    params=listParamsbody
)
response = client.start_deploy_task(request)
print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

This API is used to deploy an application by deployment task ID.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.StartDeployTaskRequest{}
    request.TaskId = "{task_id}"
    typeParams:= model.GetDynamicConfigInfoTypeEnum().TEXT
    valueParams:= "test"
    keyParams:= "string"
    typeParams1:= model.GetDynamicConfigInfoTypeEnum().HOST_GROUP
    valueParams1:= "e3144513a4094398857c992606ccba12"
    keyParams1:= "env"
    typeParams2:= model.GetDynamicConfigInfoTypeEnum().ENUM
    valueParams2:= "value1"
    keyParams2:= "enum"
    var listParamsbody = []model.DynamicConfigInfo{
        {
            Type: &typeParams,
            Value: &valueParams,
```

```
        Key: &keyParams,
    },
    {
        Type: &typeParams1,
        Value: &valueParams1,
        Key: &keyParams1,
    },
    {
        Type: &typeParams2,
        Value: &valueParams2,
        Key: &keyParams2,
    },
}
triggerSourceEnvExecutionBody:= "0"
request.Body = &model.EnvExecutionBody{
    TriggerSource: &triggerSourceEnvExecutionBody,
    Params: &listParamsbody,
}
response, err := client.StartDeployTask(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.6 Obtaining the Details of an Application

Function

This API is used to obtain application details by deployment task ID. This API will not be maintained after September 30, 2024. You can use the ShowAppDetailById API instead.

Calling Method

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

URI

GET /v2/tasks/{task_id}

Table 4-142 Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Definition: Deployment task ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-143 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-144 Response body parameters

Parameter	Type	Description
task_id	String	Definition: Deployment task ID. Value range: 32 characters, including letters and digits.
name	String	Definition: Application name. Value range: 3 to 128 characters, including letters, digits, hyphens (-), and underscores (_).
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Letters and digits are allowed.
project_name	String	Definition: Project name. Value range: 3 to 128 characters.
deploy_system	String	Definition: Deployment type mode. Value range: deployTemplate: Deployment template type.
create_time	String	Definition: Creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
update_time	String	Definition: Modification time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.

Parameter	Type	Description
state	String	Definition: Application status. Value range: • Draft: The application is in draft. • Available: The application is available.
execution_time	String	Definition: Last deployment time of the application. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
description	String	Definition: Description. Value range: Max. 1,024 characters.
is_default_permission	Boolean	Definition: Whether you are the default role of the project management. Value range: • true: Yes. • false: No.
template_id	String	Definition: Template ID. Value range: 32 characters, including letters and digits.
owner	String	Definition: Username of the application creator. Value range: Max. 128 characters.
nick_name	String	Definition Nickname of the application creator. Range String. 1 to 30 characters.

Parameter	Type	Description
owner_id	String	Definition: Application creator ID. Value range: 32 characters, including letters and digits.
tenant_id	String	Definition: Tenant ID of the application creator. Value range: 32 characters, including letters and digits.
tenant_name	String	Definition: Tenant name of the application creator. Value range: Max. 128 characters.
slave_cluster_id	String	Definition: ID of slave cluster. Value range: 32 characters, including letters and digits.
is_care	Boolean	Definition: Whether you have favorited the application. Value range: • true: Yes. • false: No.
can_modify	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.
can_execute	Boolean	Definition: Whether you have the deployment permission. Value range: • true: Yes. • false: No.
can_copy	Boolean	Definition: Whether you have the copy permission. Value range: • true: Yes. • false: No.
can_manage	Boolean	Definition: Whether you have permission to edit the application permission matrix. Value range: • true: Yes. • false: No.
can_disable	Boolean	Definition: Whether you have permission to disable applications. Value range: • true: Yes. • false: No.
app_component_list	Array of AppComponentDao objects	Definition: Application component list.
role_id	Integer	Definition: Project management role ID. Value range: N/A.

Parameter	Type	Description
id	String	Definition: Deployment task ID. Value range: 32 characters, including letters and digits.
release_id	Integer	Definition: Deployment record sequence number. Value range: N/A.
app_id	String	Definition: Deployment application ID. Value range: 32 characters, including letters and digits.
is_disable	Boolean	Definition: Whether the application is disabled. Value range: • true: Yes. • false: No.
duration	String	Definition: Deployment duration. Format: <i>HH:mm:ss</i> . Value range: N/A.
execution_state	String	Definition: Last execution status of the application. Value range: • abort: Deployment suspended. • failed: Deployment failed. • not_started: Execution canceled. • pending: Queuing. • running: Deployment in progress. • succeeded: Deployment succeeded.
executor_id	String	Definition: Deployer ID. Value range: N/A.

Parameter	Type	Description
executor_nick_name	String	Definition Deployer nickname. Range String. 1 to 30 characters.
steps	Map<String, Step >	Definition: Deployment action.

Table 4-145 AppComponentDao

Parameter	Type	Description
task_id	String	Definition: Deployment job ID. Range: 32 characters, including letters and digits.
app_id	String	Definition: AOM application ID. Range: 32 characters, including letters and digits.
app_name	String	Parameter description: AOM application name. Value range: The value consists of letters and digits.
comp_id	String	Definition: AOM application component ID. Range: 32 characters, including letters and digits.
comp_name	String	Parameter description: AOM application component name. Value range: The value consists of 0 to 128 characters.

Parameter	Type	Description
domain_id	String	Definition: Tenant ID. Range: 32 characters, including letters and digits.
region	String	Parameter description: Region information. Value range: The value consists of 1 to 256 characters.
state	String	Parameter description: Whether the AOM application component takes effect. Value range: • 0: Initialized. • 1: The operation is successful and takes effect.

Table 4-146 Step

Parameter	Type	Description
id	String	Definition Action ID. Range The value contains 32 characters. Only letters and digits are supported.
name	String	Definition Action name. Range The value can contain a maximum of 128 characters and cannot start or end with a space. It includes only letters, digits, spaces, and special characters - _,:./()
params	Map<String,String>	Definition Action parameter. Range N/A

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable an action. Value range: - true: Yes. - false: No.

Example Requests

`https://{endpoint}/v2/tasks/d2dc947ec2424d8789bb3984bb3adf45`

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "task_id" : "d2dc947ec2424d8789bb3984bb3adf45",
  "name" : "wyktest111",
  "state" : "Available",
  "description" : "111222",
  "owner" : "devcloud_devcloud_l00490255_01",
  "steps" : {
    "step1" : {
      "id" : "1583",
      "name" : "Select a deployment source",
      "params" : { },
      "enable" : true
    },
    "step2" : {
      "id" : "1293",
      "name" : "Health Test via URLs",
      "params" : { },
      "enable" : true
    }
  },
  "project_id" : "6039d4480efc4dddb178abff98719913",
  "project_name" : "wyk_test",
  "deploy_system" : "deployTemplate",
  "create_time" : "2021-04-01 17:07:49",
  "update_time" : "2021-05-17 11:26:58",
  "role_id" : 0,
  "is_default_permission" : false,
  "template_id" : "242ea879b3444b8391c3feb2e9c073de",
  "nick_name" : "A/B Side Account",
  "owner_id" : "6baa7454109d47c192f22078fe6cda20",
  "tenant_id" : "26a680dd72e7482eb60d2ef5513588bb",
  "tenant_name" : "devcloud_devcloud_l00490255_01",
  "slave_cluster_id" : "",
  "is_care" : false,
  "can_modify" : true,
  "can_delete" : true,
  "can_view" : true,
  "can_execute" : true,
  "can_copy" : true,
  "can_manage" : true,
  "can_disable" : false,
  "app_component_list" : [ ],
  "app_id" : "88ef50e1d931450989c66adb09acc81d",
}
```

```
"is_disable" : 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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ShowDeployTaskDetailSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowDeployTaskDetailRequest request = new ShowDeployTaskDetailRequest();
        request.withTaskId("{task_id}");
        try {
            ShowDeployTaskDetailResponse response = client.showDeployTaskDetail(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowDeployTaskDetailRequest()
        request.task_id = "{task_id}"
        response = client.show_deploy_task_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowDeployTaskDetailRequest{}
    request.TaskId = "{task_id}"
    response, err := client.ShowDeployTaskDetail(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.7 Deleting an Application

Function

This API is used to delete an application by deployment task ID. This API will not be maintained after September 30, 2024. You can use the DeleteApplication API instead.

Calling Method

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

URI

DELETE /v2/tasks/{task_id}

Table 4-147 Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Definition: Deployment task ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-148 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-149** Response body parameters

Parameter	Type	Description
task_id	String	Definition: Deployment task ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://{endpoint}/v2/tasks/b024060ac00749178e72713ae82b0da2
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "task_id" : "b024060ac00749178e72713ae82b0da2"
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class DeleteDeployTaskSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteDeployTaskRequest request = new DeleteDeployTaskRequest();
        request.withTaskId("{task_id}");
        try {
            DeleteDeployTaskResponse response = client.deleteDeployTask(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteDeployTaskRequest()
        request.task_id = "{task_id}"
        response = client.delete_deploy_task(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())
```

```
request := &model.DeleteDeployTaskRequest{}
request.TaskId = "{task_id}"
response, err := client.DeleteDeployTask(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.8 Querying the Historical Deployment Records of a Specified Application in a Project by the Start Time and End Time

Function

This API is used to query the historical deployment records of a specified application in a project by the start time and end time.

Calling Method

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

URI

GET /v2/{project_id}/task/{id}/history

Table 4-150 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
id	Yes	String	Parameter description: Deployment application ID. Constraints: N/A Value range: The value consists of 32 characters. Only letters and digits are allowed. Default value: N/A

Table 4-151 Query Parameters

Parameter	Mandatory	Type	Description
page	Yes	Integer	Parameter description: Page number, which means the query starts from this page. Constraints: N/A Value range: 1-99,999 Default value: N/A

Parameter	Mandatory	Type	Description
size	Yes	Integer	Parameter description: Number of items displayed on each page. Constraints: N/A Value range: 1-100 Default value: N/A
start_date	Yes	String	Definition Start time. Format: yyyy-MM-dd. Example: 2022-03-16. Constraints This parameter is used together with end_date . The value of end_date must be later than or equal to the value of start_date . The time range cannot exceed 30 days. Range 1970-01-01 ~ 2125-12-30 Default value N/A
end_date	Yes	String	Definition End time. Format: yyyy-MM-dd. Example: 2022-04-15. Constraints This parameter is used together with start_date . The value of end_date must be later than or equal to the value of start_date . The time range cannot exceed 30 days. Range 1970-01-01 ~ 2125-12-30 Default value N/A

Request Parameters

Table 4-152 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Response Parameters

Status code: 200**Table 4-153** Response body parameters

Parameter	Type	Description
result	Array of ExecuteRecordV2 Body objects	Parameter description: List of historical application deployment records.
total_num	Integer	Parameter description: Total number of historical application deployment records between the start time and end time. Value range: N/A

Table 4-154 ExecuteRecordV2Body

Parameter	Type	Description
duration	String	Definition: Deployment duration. Format: <i>HH:mm:ss</i> . Value range: N/A.
state	String	Definition: Last execution status of the application. Value range: • abort: Deployment stopped. • failed: Deployment failed. • not_started: Execution canceled. • pending: Queuing. • running: Deployment in progress. • succeeded: Deployment succeeded.
operator	String	Definition Operator account name. Range N/A
execution_id	String	Parameter description: Deployment record ID. Value range: The value consists of 32 characters. Letters and digits are allowed.
start_time	String	Definition Start time of an application deployment. Format: yyyy-MM-dd HH:mm:ss. Example: 2021-02-25 10:37:27. Range 1970-01-01 00:00:00 ~ 2125-12-30 11:59:59
nickname	String	Definition Operator nickname. Range String. 1 to 30 characters.

Parameter	Type	Description
end_time	String	Definition End time of an application deployment. Format: yyyy-MM-dd HH:mm:ss. Example: 2021-02-25 10:37:27. Range 1970-01-01 00:00:00 ~ 2125-12-30 11:59:59
release_id	Long	Parameter description: Deployment record sequence number. Value range: N/A
type	String	Definition: Deployment type. Value range: install: Deployment execution.

Status code: 400**Table 4-155** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 403**Table 4-156** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

```
https://{endpoint}/v2/5ab1363a143f46aa9959a4a8c2616589/task/ad9c1d60282544d2b5a380ea22539cf1/history?page=2&size=2&start_date=2022-03-16&end_date=2022-04-15
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : [ {
    "duration" : "00:16:53",
    "state" : "succeeded",
    "type" : "install",
    "operator" : "devcloud_devcloud_l00490255_01",
    "execution_id" : "50f18ce454a64ea5a62a33d56617b831",
    "start_time" : "2022-04-15 15:03:24",
    "nickname" : "A/B Side Account",
    "end_time" : "2022-04-15 15:20:17",
    "release_id" : 20
  }, {
    "duration" : "00:15:31",
    "state" : "failed",
    "type" : "install",
    "operator" : "devcloud_devcloud_l00490255_01",
    "execution_id" : "f757fbe93d35494ba0ff73b34e2f79aa",
    "start_time" : "2022-04-15 15:03:15",
    "nickname" : "A/B Side Account",
    "end_time" : "2022-04-15 15:18:46",
    "release_id" : 19
  } ],
  "total_num" : 20
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "Deploy.00015002",
  "error_msg" : "Invalid request parameter."
}
```

Status code: 403

Forbidden

```
{
  "error_code" : "Deploy.00011154",
  "error_msg" : "You do not have permissions to perform this operation."
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;
```

```
public class ListDeployTaskHistoryByDateSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListDeployTaskHistoryByDateRequest request = new ListDeployTaskHistoryByDateRequest();
        request.withProjectId("{project_id}");
        request.withId("{id}");
        try {
            ListDeployTaskHistoryByDateResponse response = client.listDeployTaskHistoryByDate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListDeployTaskHistoryByDateRequest()
        request.project_id = "{project_id}"
        request.id = "{id}"
```

```
response = client.list_deploy_task_history_by_date(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListDeployTaskHistoryByDateRequest{}
    request.ProjectId = "{project_id}"
    request.Id = "{id}"
    response, err := client.ListDeployTaskHistoryByDate(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: The request is successful.
400	Bad Request

Status Code	Description
403	Forbidden

Error Codes

See [Error Codes](#).

4.3.9 Obtaining an Application List (Recommended)

Function

This API is used to query an application list in a project.

Calling Method

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

URI

POST /v1/applications/list

Request Parameters

Table 4-157 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-158 Request body parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
page	Yes	Integer	Parameter description: Page number, which means the query starts from this page. Constraints: N/A Value range: 1-99,999 Default value: N/A

Parameter	Mandatory	Type	Description
size	Yes	Integer	Parameter description: Number of items displayed on each page. Constraints: N/A Value range: 1-100 Default value: N/A
sort_name	No	String	Parameter description: Sort field name. Constraints: N/A Value range: • name: Application name. • startTime: Start time. Default value: N/A
sort_by	No	String	Parameter description: Sorting sequence. Constraints: N/A Value range: • ASC: Ascending • asc: Ascending • DESC: Descending • desc: Descending Default value: N/A

Parameter	Mandatory	Type	Description
states	No	Array of strings	Parameter description: Application status list. Constraints: N/A Value range: • abort: Deployment suspended • failed: Deployment failed • not_started: Execution canceled • pending: Queuing • running: Deployment in progress • succeeded: Deployment succeeded • timeout: Deployment times out • not_executed: Deployment not executed Default value: N/A
group_id	No	String	Parameter description: Application group ID. Enter no_grouped to query ungrouped applications. Constraints: N/A Value range: The value consists of 32 characters. Only letters and digits are allowed or the no_grouped value is transferred. Default value: N/A

Response Parameters

Status code: 200

Table 4-159 Response body parameters

Parameter	Type	Description
total_num	Integer	Parameter description: Total number of applications. Value range: N/A
result	Array of AppExecutionInfo objects	Parameter description: Application list array.

Table 4-160 AppExecutionInfo

Parameter	Type	Description
id	String	Parameter description: Application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.
name	String	Parameter description: Application name. Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed.
duration	String	Definition: Last deployment duration. Format: <i>HH:mm:ss</i> . Value range: N/A.
is_disable	Boolean	Parameter description: Whether the application is disabled. Value range: • true: Disabled • false: Not disabled

Parameter	Type	Description
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Letters and digits are allowed.
project_name	String	Parameter description: Project name. Value range: The value consists of 3 to 128 characters.
is_care	Boolean	Definition: Whether you have favorited the application. Value range: • true: Yes. • false: No.
can_modify	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_execute	Boolean	Definition: Whether you have the deployment permission. Value range: • true: Yes. • false: No.
can_copy	Boolean	Definition: Whether you have the copy permission. Value range: • true: Yes. • false: No.
can_manage	Boolean	Definition: Whether you have permission to edit the application permission matrix. Value range: • true: Yes. • false: No.
can_create_env	Boolean	Definition: Whether you have permission to create an environment. Value range: • true: Yes. • false: No.
can_disable	Boolean	Definition: Whether you have permission to disable applications. Value range: • true: Yes. • false: No.
deploy_system	String	Parameter description: Deployment mode. Value range: • deployTemplate: Deployment template

Parameter	Type	Description
create_user_id	String	Parameter description: ID of the application creator. Value range: The value consists of 1-32 characters. Letters and digits are allowed.
create_tenant_id	String	Parameter description: Tenant ID of the application creator. Value range: The value consists of 1-32 characters. Letters and digits are allowed.
create_time	String	Parameter description: Creation time. The value format is yyyy-MM-dd HH:mm:ss. For example, 2021-02-25 10:37:27. Value range: N/A
update_time	String	Parameter description: Modification time. The value format is yyyy-MM-dd HH:mm:ss. For example, 2021-02-25 10:37:27. Value range: N/A
execution_time	String	Parameter description: Last deployment time. The value format is yyyy-MM-dd HH:mm:ss. For example, 2021-02-25 10:37:27. Value range: N/A
end_time	String	Definition: End time of the last deployment. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Example: 2021-02-25 10:37:27. Value range: N/A.

Parameter	Type	Description
execution_state	String	Definition: Deployment status. Value range: • abort: Deployment stopped. • failed: Deployment failed. • not_started: Execution canceled. • pending: Queuing. • running: Deployment in progress. • succeeded: Deployment succeeded.
release_id	Integer	Parameter description: Deployment record sequence number. Value range: N/A
executor_id	String	Definition: ID of the last deployer. Value range: 1 to 32 characters, including letters and digits.
executor_nick_name	String	Definition Nickname of the last deployer. Range String. 1 to 30 characters.
arrange_infos	Array of TaskBaseResponseBody objects	Parameter description: Deployment task information.

Table 4-161 TaskBaseResponseBody

Parameter	Type	Description
id	String	Parameter description: Deployment application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.

Parameter	Type	Description
state	String	Definition: Deployment application status. Value range: - Available: Executable status. - Draft: Draft status. - initialized: Initialization status.
deploy_system	String	Parameter description: Deployment mode. Value range: deployTemplate: Deployment template

Status code: 400**Table 4-162** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 403**Table 4-163** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

This API is used to obtain an application list.

```
https://{endpoint}/v1/applications/list
```

```
{  
  "project_id" : "6039d4480efc4dddb178abff98719913",  
  "page" : 1,  
  "size" : 10  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : [ {
    "id" : "cb439d016d8641c8a44c177a121fad15",
    "name" : "Test",
    "duration" : "00:00:17",
    "is_disable" : true,
    "project_id" : "1ff8aa6dda4643bd9cbdbb588fb24bde",
    "project_name" : "Project 1",
    "is_care" : false,
    "can_modify" : true,
    "can_delete" : true,
    "can_view" : true,
    "can_execute" : true,
    "can_copy" : true,
    "can_manage" : false,
    "can_create_env" : false,
    "can_disable" : false,
    "create_user_id" : "04ec4661a8df4359b50980a9c958c86d",
    "create_tenant_id" : "208fbb09068e4820b9209ef9ff4da73d",
    "create_time" : "2023-07-05 20:34:40.0",
    "update_time" : "2023-08-02 14:20:30.0",
    "execution_time" : "2023-08-18 09:40:16",
    "end_time" : "2023-08-18 09:40:33",
    "execution_state" : "failed",
    "release_id" : 4,
    "executor_id" : "6baa7454109d47c192f22078fe6cda20",
    "executor_nick_name" : "Test Account",
    "arrange_infos" : [ {
      "id" : "e700f15965694253940502911220d76b",
      "state" : "Draft",
      "deploy_system" : "deployTemplate"
    } ]
  } ],
  "total_num" : 1
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "Deploy.00015002",
  "error_msg" : "Invalid request parameter."
}
```

Status code: 403

Forbidden

```
{
  "error_code" : "Deploy.00011154",
  "error_msg" : "You do not have permissions to perform this operation."
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

This API is used to obtain an application list.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ListAllAppSolution {

    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);

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

        ListAllAppRequest request = new ListAllAppRequest();
        ListAllAppRequestBody body = new ListAllAppRequestBody();
        body.setSize(10);
        body.setPage(1);
        body.setProjectId("6039d4480efc4dddb178abff98719913");
        request.setBody(body);
        try {
            ListAllAppResponse response = client.listAllApp(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

This API is used to obtain an application list.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

if __name__ == "__main__":
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

```
variables and decrypted during use to ensure security.
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = ListAllAppRequest()
    request.body = ListAllAppRequestBody(
        size=10,
        page=1,
        project_id="6039d4480efc4dddb178abff98719913"
    )
    response = client.list_all_app(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

This API is used to obtain an application list.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListAllAppRequest{
        request.Body = &model.ListAllAppRequestBody{
            Size: int32(10),
            Page: int32(1),
            ProjectId: "6039d4480efc4dddb178abff98719913",
        }
    }
    response, err := client.ListAllApp(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: The request is successful.
400	Bad Request
403	Forbidden

Error Codes

See [Error Codes](#).

4.3.10 Creating an Application (Recommended)

Function

This API is used to create an application.

Calling Method

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

URI

POST /v1/applications

Request Parameters

Table 4-164 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-165 Request body parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Application name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-). Default value: N/A.
description	No	String	Definition: Application description. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.
group_id	No	String	Definition: Group ID of an application. If no_grouped is transferred, the application is not grouped. Constraints: N/A. Value range: 32 characters, including letters and digits. no_grouped is also supported. Default value: N/A.
is_draft	Yes	Boolean	Definition: Draft or not. Constraints: N/A. Value range: • true: Draft application. • false: Non-draft application. Default value: N/A.

Parameter	Mandatory	Type	Description
create_type	Yes	String	Definition: Creation type. Constraints: N/A. Value range: template: Template creation. Default value: N/A.
slave_cluster_id	No	String	Definition Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used. Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
trigger	No	TaskTriggerVO object	Definition Triggering settings for application deployment.
arrange_infos	No	Array of TaskV2RequestBody objects	Definition: Deployment application list. Constraints: N/A.

Table 4-166 TaskTriggerVO

Parameter	Mandatory	Type	Description
trigger_source	No	String	Definition: Scenario where a deployment task can be executed. Constraints: N/A. Value range: 0: All execution requests can be executed. 1: Execution can be triggered only by pipeline. Default value: N/A.
artifact_source_system	No	String	Definition: Pipeline source when a task can be executed only by the pipeline. Constraints: N/A. Value range: Artifact: The source information is from CodeArts Artifact. Default value: N/A.
artifact_type	No	String	Definition: Artifact repository type when a task can be executed only by the pipeline. Constraints: N/A. Value range: - generic: Release repository. - docker: Docker repository. Default value: N/A.

Table 4-167 TaskV2RequestBody

Parameter	Mandatory	Type	Description
template_id	No	String	Definition: Deployment template ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
operation_list	No	Array of DeployV2OperationsDO objects	Definition: Deployment orchestration list. Constraints: N/A.

Table 4-168 DeployV2OperationsDO

Parameter	Mandatory	Type	Description
id	No	String	Definition Action ID. Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Parameter	Mandatory	Type	Description
name	No	String	Definition Action name. Constraints N/A Range Max 128 characters. Do not start or end with a space. Use letters, digits, spaces, and these special characters: -_,:./() Default value N/A
description	No	String	Definition: Action description. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.
code	No	String	Definition: Action download address. Constraints: N/A. Value range: Max. 102,400 characters. Default value: N/A.
params	No	String	Definition: Detailed definition of actions. Constraints: N/A. Value range: Max. 204,800 characters. Default value: N/A.

Parameter	Mandatory	Type	Description
entrance	No	String	Definition: Action entry function. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.
version	No	String	Definition: Action version. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.
module_id	No	String	Definition: Action module ID. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-169 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • error: Failed.

Parameter	Type	Description
result	AppBaseResponse object	Definition: Response body for application basic information.

Table 4-170 AppBaseResponse

Parameter	Type	Description
id	String	Parameter description: Application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.
name	String	Parameter description: Application name. Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-) and underscores (_) are allowed.
region	String	Parameter description: Region to which the application belongs. Value range: N/A
is_disable	Boolean	Definition Whether the current application is disabled. Range • true: The application is disabled. • false: The application is not disabled.
arrange_infos	Array of TaskBaseBody objects	Parameter description: Deployment task list.

Table 4-171 TaskBaseBody

Parameter	Type	Description
id	String	Parameter description: Deployment application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.

Example Requests

This API is used to create an application.

https://{endpoint}/v1/applications

```
{
  "name" : "testApp",
  "project_id" : "55837d272adf4eee90319800e2da6961",
  "description" : "Create an application using a template.",
  "trigger" : {
    "trigger_source" : 0,
    "artifact_source_system" : "",
    "artifact_type" : ""
  },
  "slave_cluster_id" : "",
  "create_type" : "template",
  "is_draft" : true,
  "arrange_infos" : [ {
    "template_id" : "43b36b4678f743568e1ffebfd7f4ce76",
    "operation_list" : [ {
      "name" : "Application deployment in Kubernetes (CCE cluster) using Manifest",
      "description" : "Deploy an application in a CCE cluster with a manifest file defining Kubernetes objects.",
      "code" : "https://example.com",
      "params" : "{ \"name\": \"\", \"datasource\": \"\", \"label\": \"Manifest file source\", \"displaySettings\": {
        { \"DevCloud.ControlType\": \"Radio\", \"DevCloud.ControlType.Style\": \"ButtonGroup\",
          { \"DevCloud.ControlType.Radio\": { { \"displayName\": \"CodeArts Artifact\", \"value\": \"1\", { \"displayName\": \"CodeArts Repo\", \"value\": \"2\", { \"displayName\": \"obs\", \"value\": \"4\" } } }, \"DevCloud.ControlType.Default\": { { \"displayName\": \"CodeArts Artifact\", \"value\": \"1\", \"icon\": \"img/release.png\" } } }, \"defaultDisplay\": { { \"displayName\": \"CodeArts Artifact\", \"value\": \"1\" } } }, \"validation\": { { \"pattern\": null, \"patternDescription\": null, \"maxLength\": null, \"dataType\": null, \"isRequired\": true, \"isNotParameter\": true } } }, { \"name\": \"deployTenant\", \"label\": \"Deployment tenant\", \"displaySettings\": { { \"DevCloud.ControlType\": \"Select\", \"DevCloud.ControlType.Style\": null, \"DevCloud.ControlType.Select\": { { \"displayName\": \"Current Tenant\", \"value\": \"local\", { \"displayName\": \"Other Tenant\", \"value\": \"other\" } } }, \"DevCloud.ControlType.Default\": { { \"displayName\": \"Current Tenant\", \"value\": \"local\", { \"defaultDisplay\": { { \"displayName\": \"Current Tenant\", \"value\": \"local\" } } }, \"validation\": { { \"pattern\": null, \"patternDescription\": null, \"maxLength\": null, \"dataType\": null, \"isRequired\": true, \"isNotParameter\": true } } }, { \"name\": \"use_iam_checkbox\", \"displaySettings\": { { \"DevCloud.ControlType\": \"Checkbox\", \"DevCloud.ControlType.Style\": null, \"DevCloud.ControlType.Checkbox\": { { \"displayName\": \"IAM Authorization\", \"value\": \"0\", { \"defaultDisplay\": { { \"displayName\": \"IAM Authorization\", \"value\": \"0\" } } }, \"visibleRule\": \"deployTenant=local\", \"validation\": { { \"pattern\": null, \"patternDescription\": null, \"maxLength\": null, \"dataType\": null, \"isRequired\": false, \"isNotParameter\": true } } }, { \"name\": \"javaProbeCheckBox\", \"displaySettings\": { { \"DevCloud.ControlType\": \"Checkbox\", \"DevCloud.ControlType.Style\": null, \"DevCloud.ControlType.Checkbox\": { { \"displayName\": \"Configure JAVA Probes\", \"value\": \"0\", { \"defaultDisplay\": { { \"displayName\": \"Configure JAVA Probes\", \"value\": \"0\" } } }, \"visibleRule\": \"not 1=1\", \"validation\": { { \"pattern\": null, \"patternDescription\": null, \"maxLength\": null, \"dataType\": null, \"isRequired\": false, \"isNotParameter\": false } } }, { \"name\": \"controller_enabled_ignore_errors\", \"displaySettings\": { { \"DevCloud.ControlType\": \"Checkbox\", \"DevCloud.ControlType.Style\": null, \"DevCloud.ControlType.Checkbox\": { { \"displayName\": \"Continue Upon Failure\", \"value\": \"0\", { \"defaultDisplay\": { { \"displayName\": \"Continue Upon Failure\", \"value\": \"0\" } } }, \"validation\": { { \"pattern\": null, \"patternDescription\": null, \"maxLength\": null, \"dataType\": null, \"isRequired\": true, \"isNotParameter\": false } } }, { \"name\": \"controller_enabled_overtime\", \"label\": \"Timeout
```

```
\,"displaySettings":{"DevCloud.ControlType":"SingleLineText","DevCloud.ControlType.Style":null},"defaultValue":"10","validation":{"pattern":"^[1-9][1-2][0-9][30]$", "patternDescription":"The time unit is minute. Enter an integer from 1 to 30."},"maxLength":null,"dataType":null,"isRequired":true,"isNotParameter":false},"name":"controller_enabled","displaySettings":{"DevCloud.ControlType":"Hidden","DevCloud.ControlType.Style":null,"defaultDisplay":{"displayName":"Enable","value":"1"}},"name":"visibleRule","displaySettings":{"DevCloud.ControlType":"Hidden","DevCloud.ControlType.Style":null,"defaultValue":{"use_iam_checkbox":{"value":true,"condition":{"deployTenant=local"}}, "controller_enabled_overtime":{"value":true,"javaProbeCheckBox":{"value":true,"condition":{"not 1=1"},"datasource":{"value":true,"deployTenant":{"value":true,"controller_enabled_ignore_errors":{"value":true}}}}},"entrance": "main.yml", "version": "2.3.69", "module_id": "devcloud2018.k8s-cce-manifest-deployment.k8sdeploy-manifest"}]}]}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result": {
    "id": "e700f15965694253940502911220d76b",
    "name": "testApp",
    "region": "region-a",
    "is_disable": false,
    "arrange_infos": [ {
      "id": "3ea35372b6db4d58b187e9a7ee9dc349"
    } ]
  },
  "status": "success"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

This API is used to create an application.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

public class CreateAppSolution {

    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);

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

CreateAppRequest request = new CreateAppRequest();
CreateAppRequestBody body = new CreateAppRequestBody();
List<DeployV2OperationsDO> listArrangeInfosOperationList = new ArrayList<>();
listArrangeInfosOperationList.add(
    new DeployV2OperationsDO()
        .withName("Application deployment in Kubernetes (CCE cluster) using Manifest")
        .withDescription("Deploy an application in a CCE cluster with a manifest file defining Kubernetes
objects.")
        .withCode("https://example.com")
        .withParams("{\"name\":\"datasource\",\"label\":\"Manifest file source\",\"displaySettings\":
{ \"DevCloud.ControlType\":\"Radio\", \"DevCloud.ControlType.Style\":\"ButtonGroup\", \"DevCloud.ControlType.Radio\"
: [{ \"displayName\":\"CodeArts Artifact\", \"value\":\"1\" }, { \"displayName\":\"CodeArts Repo\", \"value\":\"2\" },
{ \"displayName\":\"obs\", \"value\":\"4\" } ], \"DevCloud.ControlType.Default\": { \"displayName\":\"CodeArts
Artifact\", \"value\":\"1\", \"icon\":\"img/release.png\" }, \"defaultDisplay\": { \"displayName\":\"CodeArts
Artifact\", \"value\":\"1\" }, \"validation\":
{ \"pattern\":null, \"patternDescription\":null, \"maxLength\":null, \"dataType\":null, \"isRequired\":true, \"isNotParameter\"
:true }, { \"name\":\"deployTenant\", \"label\":\"Deployment tenant\", \"displaySettings\":
{ \"DevCloud.ControlType\":\"Select\", \"DevCloud.ControlType.Style\":null, \"DevCloud.ControlType.Select\":
[ { \"displayName\":\"Current Tenant\", \"value\":\"local\" }, { \"displayName\":\"Other
Tenant\", \"value\":\"other\" } ], \"DevCloud.ControlType.Default\": { \"displayName\":\"Current
Tenant\", \"value\":\"local\" }, \"defaultDisplay\": { \"displayName\":\"Current Tenant\", \"value\":\"local\" }, \"validation\":
{ \"pattern\":null, \"patternDescription\":null, \"maxLength\":null, \"dataType\":null, \"isRequired\":true, \"isNotParameter\"
:true }, { \"name\":\"use_iam_checkbox\", \"displaySettings\":
{ \"DevCloud.ControlType\":\"Checkbox\", \"DevCloud.ControlType.Style\":null, \"DevCloud.ControlType.Checkbox\":
[ { \"displayName\":\"IAM Authorization\", \"value\":\"0\" } ], \"defaultDisplay\": { \"displayName\":\"IAM
Authorization\", \"value\":\"0\" }, \"visibleRule\":\"deployTenant=local\", \"validation\":
{ \"pattern\":null, \"patternDescription\":null, \"maxLength\":null, \"dataType\":null, \"isRequired\":false, \"isNotParameter\"
:true }, { \"name\":\"javaProbeCheckBox\", \"displaySettings\":
{ \"DevCloud.ControlType\":\"Checkbox\", \"DevCloud.ControlType.Style\":null, \"DevCloud.ControlType.Checkbox\":
[ { \"displayName\":\"Configure JAVA Probes\", \"value\":\"0\" } ], \"defaultDisplay\": { \"displayName\":\"Configure JAVA
Probes\", \"value\":\"0\" }, \"visibleRule\":\"not 1=1\", \"validation\":
{ \"pattern\":null, \"patternDescription\":null, \"maxLength\":null, \"dataType\":null, \"isRequired\":false, \"isNotParameter\"
:false }, { \"name\":\"controller_enabled_ignore_errors\", \"displaySettings\":
{ \"DevCloud.ControlType\":\"Checkbox\", \"DevCloud.ControlType.Style\":null, \"DevCloud.ControlType.Checkbox\":
[ { \"displayName\":\" Continue Upon Failure\", \"value\":\"0\" } ], \"defaultDisplay\": { \"displayName\":\" Continue Upon
Failure\", \"value\":\"0\" }, \"validation\":
{ \"pattern\":null, \"patternDescription\":null, \"maxLength\":null, \"dataType\":null, \"isRequired\":true, \"isNotParameter\"
:false }, { \"name\":\"controller_enabled_overtime\", \"label\":\"Timeout\", \"displaySettings\":
{ \"DevCloud.ControlType\":\"SingleLineText\", \"DevCloud.ControlType.Style\":null, \"defaultValue\":\"10\", \"validation\"
: { \"pattern\":\"^[1-9][1-2][0-9]{30}$\", \"patternDescription\":\" The time unit is minute. Enter an integer from 1
to 30.\", \"maxLength\":null, \"dataType\":null, \"isRequired\":true, \"isNotParameter\":false },
{ \"name\":\"controller_enabled\", \"displaySettings\":
{ \"DevCloud.ControlType\":\"Hidden\", \"DevCloud.ControlType.Style\":null, \"defaultDisplay\":
[ { \"displayName\":\"Enable\", \"value\":\"1\" } ], { \"name\":\"visibleRule\", \"displaySettings\":
{ \"DevCloud.ControlType\":\"Hidden\", \"DevCloud.ControlType.Style\":null, \"defaultValue\":\"{\\\"use_iam_checkbox\\
\":{\\\"value\\\":true,\\\"condition\\\":\\\"deployTenant=local\\\",\\\"controller_enabled_overtime\\\":{\\\"value\\
\\\":true\\\",\\\"javaProbeCheckBox\\\":{\\\"value\\\":true,\\\"condition\\\":\\\"not 1=1\\\",\\\"datasource\\\":{\\\"value\\
\\\":true\\\",\\\"deployTenant\\\":{\\\"value\\\":true\\\",\\\"controller_enabled_ignore_errors\\\":{\\\"value\\\":true}}}}})\"
        .withEntrance("main.yml")
        .withVersion("2.3.69")
        .withModuleId("devcloud2018.k8s-cce-manifest-deployment.k8sdeploy-manifest")
    );
List<TaskV2RequestBody> listbodyArrangeInfos = new ArrayList<>();
listbodyArrangeInfos.add(
    new TaskV2RequestBody()
        .withTemplateId("43b36b4678f743568e1ffebfd7f4ce76")
        .withOperationList(listArrangeInfosOperationList)
```

```
);
TaskTriggerVO triggerbody = new TaskTriggerVO();
triggerbody.withTriggerSource("0")
    .withArtifactSourceSystem("")
    .withArtifactType("");
body.withArrangeInfos(listbodyArrangeInfos);
body.withTrigger(triggerbody);
body.withSlaveClusterId("");
body.withCreateType(CreateAppRequestBody.CreateTypeEnum.fromValue("template"));
body.withIsDraft(true);
body.withDescription("Create an application using a template.");
body.withName("testApp");
body.withProjectId("55837d272adf4eee90319800e2da6961");
request.withBody(body);
try {
    CreateAppResponse response = client.createApp(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

This API is used to create an application.

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CreateAppRequest()
        listOperationListArrangeInfos = [
            DeployV2OperationsDO(
                name="Application deployment in Kubernetes (CCE cluster) using Manifest",
                description="Deploy an application in a CCE cluster with a manifest file defining Kubernetes
objects.",
                code="https://example.com",
                params=[{"name":"datasource","label":"Manifest file source","displaySettings":
{"DevCloud.ControlType":"Radio","DevCloud.ControlType.Style":"ButtonGroup","DevCloud.ControlType.Radio"
```

```
{["displayName":"CodeArts Artifact","value":"1"],["displayName":"CodeArts Repo","value":"2"],
{"displayName":"obs","value":"4"}],{"DevCloud.ControlType.Default":{"displayName":"CodeArts
Artifact","value":"1","icon":"img/release.png"},"defaultDisplay":{"displayName":"CodeArts
Artifact","value":"1"},"validation":
{"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":true,"isNotParameter"
:true}},{"name":"deployTenant","label":"Deployment tenant","displaySettings":
{"DevCloud.ControlType":"Select","DevCloud.ControlType.Style":null,"DevCloud.ControlType.Select":
[{"displayName":"Current Tenant","value":"local"},{"displayName":"Other
Tenant","value":"other"}],{"DevCloud.ControlType.Default":{"displayName":"Current
Tenant","value":"local"},"defaultDisplay":{"displayName":"Current Tenant","value":"local"},"validation":
{"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":true,"isNotParameter"
:true}},{"name":"use_iam_checkbox","displaySettings":
{"DevCloud.ControlType":"Checkbox","DevCloud.ControlType.Style":null,"DevCloud.ControlType.Checkbox":
[{"displayName":"IAM Authorization","value":"0"}],{"defaultDisplay":{"displayName":"IAM
Authorization","value":"0"},"visibleRule":"deployTenant=local","validation":
{"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":false,"isNotParameter"
:true}},{"name":"javaProbeCheckBox","displaySettings":
{"DevCloud.ControlType":"Checkbox","DevCloud.ControlType.Style":null,"DevCloud.ControlType.Checkbox":
[{"displayName":"Configure JAVA Probes","value":"0"}],{"defaultDisplay":{"displayName":"Configure JAVA
Probes","value":"0"},"visibleRule":"not 1=1","validation":
{"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":false,"isNotParameter"
:false}},{"name":"controller_enabled_ignore_errors","displaySettings":
{"DevCloud.ControlType":"Checkbox","DevCloud.ControlType.Style":null,"DevCloud.ControlType.Checkbox":
[{"displayName":"Continue Upon Failure","value":"0"}],{"defaultDisplay":{"displayName":"Continue Upon
Failure","value":"0"},"validation":
{"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":true,"isNotParameter"
:false}},{"name":"controller_enabled_overtime","label":"Timeout","displaySettings":
{"DevCloud.ControlType":"SingleLineText","DevCloud.ControlType.Style":null,"defaultValue":"10","validation"
:{"pattern":"^[1-9][1-2][0-9]30$","patternDescription":"The time unit is minute. Enter an integer from 1
to 30.","maxLength":null,"dataType":null,"isRequired":true,"isNotParameter":false}},
{"name":"controller_enabled","displaySettings":
{"DevCloud.ControlType":"Hidden","DevCloud.ControlType.Style":null,"defaultDisplay":
[{"displayName":"Enable","value":"1"}],{"name":"visibleRule","displaySettings":
{"DevCloud.ControlType":"Hidden","DevCloud.ControlType.Style":null,"defaultValue":"{"use_iam_checkbox
\\":{"value\\":true,\\\"condition\\\":\\\"deployTenant=local\\\",\\\"controller_enabled_overtime\\\":{"value
\\":true,\\\"javaProbeCheckBox\\\":{"value\\":true,\\\"condition\\\":\\\"not 1=1\\\",\\\"datasource\\\":{"value
\\":true,\\\"deployTenant\\\":{"value\\":true,\\\"controller_enabled_ignore_errors\\\":{"value\\":true}}}}",
entrance="main.yml",
version="2.3.69",
module_id="devcloud2018.k8s-cce-manifest-deployment.k8sdeploy-manifest"
}
]
listArrangeInfosbody = [
TaskV2RequestBody(
template_id="43b36b4678f743568e1ffebfd7f4ce76",
operation_list=listOperationListArrangeInfos
)
]
triggerbody = TaskTriggerVO(
trigger_source="0",
artifact_source_system="",
artifact_type=""
)
request.body = CreateAppRequestBody(
arrange_infos=listArrangeInfosbody,
trigger=triggerbody,
slave_cluster_id="",
create_type="template",
is_draft=True,
description="Create an application using a template.",
name="testApp",
project_id="55837d272adf4eee90319800e2da6961"
)
response = client.create_app(request)
print(response)
except exceptions.ClientRequestException as e:
print(e.status_code)
print(e.request_id)
```

```
print(e.error_code)
print(e.error_msg)
```

Go

This API is used to create an application.

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateAppRequest{
        nameOperationList:= "Application deployment in Kubernetes (CCE cluster) using Manifest"
        descriptionOperationList:= "Deploy an application in a CCE cluster with a manifest file defining
        Kubernetes objects."
        codeOperationList:= "https://example.com"
        paramsOperationList:= "[{"name":"datasource","label":"Manifest file source","displaySettings":
        {"DevCloud.ControlType":"Radio","DevCloud.ControlType.Style":"ButtonGroup","DevCloud.ControlType.Radio"
        :[{"displayName":"CodeArts Artifact","value":"1"},{"displayName":"CodeArts Repo","value":"2"},
        {"displayName":"obs","value":"4"}],"DevCloud.ControlType.Default":{"displayName":"CodeArts
        Artifact","value":"1","icon":"img/release.png"},"defaultDisplay":{"displayName":"CodeArts
        Artifact","value":"1"},"validation":
        {"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":true,"isNotParameter"
        :true}},{"name":"deployTenant","label":"Deployment tenant","displaySettings":
        {"DevCloud.ControlType":"Select","DevCloud.ControlType.Style":null,"DevCloud.ControlType.Select":
        [{"displayName":"Current Tenant","value":"local"},{"displayName":"Other
        Tenant","value":"other"}],"DevCloud.ControlType.Default":{"displayName":"Current
        Tenant","value":"local"},"defaultDisplay":{"displayName":"Current Tenant","value":"local"},"validation":
        {"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":true,"isNotParameter"
        :true}},{"name":"use_iam_checkbox","displaySettings":
        {"DevCloud.ControlType":"Checkbox","DevCloud.ControlType.Style":null,"DevCloud.ControlType.Checkbox":
        [{"displayName":"IAM Authorization","value":"0"}],"defaultDisplay":{"displayName":"IAM
        Authorization","value":"0"},"visibleRule":"deployTenant=local","validation":
        {"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":false,"isNotParameter"
        :true}},{"name":"javaProbeCheckBox","displaySettings":
        {"DevCloud.ControlType":"Checkbox","DevCloud.ControlType.Style":null,"DevCloud.ControlType.Checkbox":
        [{"displayName":"Configure JAVA Probes","value":"0"}],"defaultDisplay":{"displayName":"Configure JAVA
        Probes","value":"0"},"visibleRule":"not 1=1","validation":
        {"pattern":null,"patternDescription":null,"maxLength":null,"dataType":null,"isRequired":false,"isNotParameter"
        :false}},{"name":"controller_enabled_ignore_errors","displaySettings":
        {"DevCloud.ControlType":"Checkbox","DevCloud.ControlType.Style":null,"DevCloud.ControlType.Checkbox":
        [{"displayName":"Continue Upon Failure","value":"0"}],"defaultDisplay":{"displayName":"Continue Upon
        Failure","value":"0"},"validation":
```

```
{
  "pattern": null, "patternDescription": null, "maxLength": null, "dataType": null, "isRequired": true, "isNotParameter": false,
  "name": "controller_enabled_overtime", "label": "Timeout", "displaySettings": {
    "DevCloud.ControlType": "SingleLineText", "DevCloud.ControlType.Style": null, "defaultValue": "10", "validation": {
      "pattern": "^[1-9][1-2][0-9][30]$", "patternDescription": "The time unit is minute. Enter an integer from 1 to 30.", "maxLength": null, "dataType": null, "isRequired": true, "isNotParameter": false
    }
  },
  "name": "controller_enabled", "displaySettings": {
    "DevCloud.ControlType": "Hidden", "DevCloud.ControlType.Style": null, "defaultDisplay": {
      "displayName": "Enable", "value": "1"
    }, "name": "visibleRule", "displaySettings": {
      "DevCloud.ControlType": "Hidden", "DevCloud.ControlType.Style": null, "defaultValue": "{ \"use_iam_checkbox\": { \"value\": true, \"condition\": \"deployTenant=local\", \"controller_enabled_overtime\": { \"value\": true }, \"javaProbeCheckBox\": { \"value\": true, \"condition\": \"not 1=1\", \"datasource\": { \"value\": true }, \"deployTenant\": { \"value\": true }, \"controller_enabled_ignore_errors\": { \"value\": true } } } }"
    }
  },
  "entranceOperationList": "main.yml",
  "versionOperationList": "2.3.69",
  "moduleIdOperationList": "devcloud2018.k8s-cce-manifest-deployment.k8sdeploy-manifest",
  "var listOperationListArrangeInfos = []model.DeployV2OperationsDo{
    {
      Name: &nameOperationList,
      Description: &descriptionOperationList,
      Code: &codeOperationList,
      Params: &paramsOperationList,
      Entrance: &entranceOperationList,
      Version: &versionOperationList,
      ModuleId: &moduleIdOperationList,
    }
  },
  "templatedIdArrangeInfos": "43b36b4678f743568e1ffebfd7f4ce76",
  "var listArrangeInfosbody = []model.TaskV2RequestBody{
    {
      TemplatedId: &templatedIdArrangeInfos,
      OperationList: &listOperationListArrangeInfos,
    }
  },
  "triggerSourceTrigger": "0",
  "artifactSourceSystemTrigger": "",
  "artifactTypeTrigger": "",
  "triggerbody := &model.TaskTriggerVo{
    TriggerSource: &triggerSourceTrigger,
    ArtifactSourceSystem: &artifactSourceSystemTrigger,
    ArtifactType: &artifactTypeTrigger,
  }
  "slaveClusterIdCreateAppRequestBody": "",
  "descriptionCreateAppRequestBody": "Create an application using a template.",
  "request.Body = &model.CreateAppRequestBody{
    ArrangeInfos: &listArrangeInfosbody,
    Trigger: triggerbody,
    SlaveClusterId: &slaveClusterIdCreateAppRequestBody,
    CreateType: model.GetCreateAppRequestBodyCreateTypeEnum().TEMPLATE,
    IsDraft: true,
    Description: &descriptionCreateAppRequestBody,
    Name: "testApp",
    ProjectId: "55837d272adf4eee90319800e2da6961",
  }
  response, err := client.CreateApp(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.11 Updating an Application

Function

This API is used to update an application.

Calling Method

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

URI

PUT /v1/applications

Request Parameters

Table 4-172 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-173 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Definition Deployment application ID. Range The value contains 32 characters. Letters and digits are allowed.
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Parameter	Mandatory	Type	Description
name	Yes	String	Definition Application name. Constraints N/A Range 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-). Default value N/A
description	No	String	Definition Application description. Constraints N/A Range Max. 1,024 characters. Default value N/A
is_draft	Yes	Boolean	Definition Draft or not. Constraints N/A Range • true: Draft application. • false: Non-draft application. Default value N/A
create_type	Yes	String	Definition Creation type. Constraints N/A Range • template: Template creation. Default value N/A

Parameter	Mandatory	Type	Description
slave_cluster_id	No	String	Definition Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used. Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
trigger	No	TaskTriggerVO object	Definition Triggering settings for application deployment.
arrange_infos	No	Array of UpdateTaskV2RequestBody objects	Definition Deployment application list information. Constraints N/A

Table 4-174 TaskTriggerVO

Parameter	Mandatory	Type	Description
trigger_source	No	String	Definition: Scenario where a deployment task can be executed. Constraints: N/A. Value range: 0: All execution requests can be executed. 1: Execution can be triggered only by pipeline. Default value: N/A.

Parameter	Mandatory	Type	Description
artifact_source_system	No	String	Definition: Pipeline source when a task can be executed only by the pipeline. Constraints: N/A. Value range: Artifact: The source information is from CodeArts Artifact. Default value: N/A.
artifact_type	No	String	Definition: Artifact repository type when a task can be executed only by the pipeline. Constraints: N/A. Value range: - generic: Release repository. - docker: Docker repository. Default value: N/A.

Table 4-175 UpdateTaskV2RequestBody

Parameter	Mandatory	Type	Description
id	No	String	Definition Deployment application ID. Range The value contains 32 characters. Letters and digits are allowed.
deploy_system	No	String	Definition Deployment system. Range deployTemplate: Deployment template.

Parameter	Mandatory	Type	Description
template_id	No	String	Definition Template ID. Range The value contains 32 characters. Letters and digits are allowed.
operation_list	No	Array of DeployV2OperationsDO objects	Definition Deployment orchestration list information.

Table 4-176 DeployV2OperationsDO

Parameter	Mandatory	Type	Description
id	No	String	Definition Action ID. Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
name	No	String	Definition Action name. Constraints N/A Range Max 128 characters. Do not start or end with a space. Use letters, digits, spaces, and these special characters: -_;;./() Default value N/A

Parameter	Mandatory	Type	Description
description	No	String	Definition: Action description. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.
code	No	String	Definition: Action download address. Constraints: N/A. Value range: Max. 102,400 characters. Default value: N/A.
params	No	String	Definition: Detailed definition of actions. Constraints: N/A. Value range: Max. 204,800 characters. Default value: N/A.
entrance	No	String	Definition: Action entry function. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.

Parameter	Mandatory	Type	Description
version	No	String	Definition: Action version. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.
module_id	No	String	Definition: Action module ID. Constraints: N/A. Value range: Max. 1,024 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-177 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • error: Failed.
result	AppBaseResponse object	Definition: Response body for application basic information.

Table 4-178 AppBaseResponse

Parameter	Type	Description
id	String	Parameter description: Application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.
name	String	Parameter description: Application name. Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-) and underscores (_) are allowed.
region	String	Parameter description: Region to which the application belongs. Value range: N/A
is_disable	Boolean	Definition Whether the current application is disabled. Range • true: The application is disabled. • false: The application is not disabled.
arrange_infos	Array of TaskBaseBody objects	Parameter description: Deployment task list.

Table 4-179 TaskBaseBody

Parameter	Type	Description
id	String	Parameter description: Deployment application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.

Example Requests

Update an application.

https://{endpoint}/v1/applications

```
{
  "id" : "e700f15965694253940502911220d76b",
  "name" : "deployenv20230822192953",
  "project_id" : "55837d272adf4eee90319800e2da6961",
  "description" : "Update an application.",
  "trigger" : {
    "trigger_source" : 0,
    "artifact_source_system" : "",
    "artifact_type" : ""
  },
  "slave_cluster_id" : "",
  "create_type" : "template",
  "is_draft" : true,
  "arrange_infos" : [ {
    "id" : "e700f15965694253940502911220d76b",
    "deploy_system" : "deployTemplate",
    "template_id" : "ec939bdf63194aca9fad45b3ba05643e",
    "operation_list" : [ ]
  } ]
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : {
    "id" : "e700f15965694253940502911220d76b",
    "name" : "testApp",
    "region" : "region-a",
    "arrange_infos" : [ {
      "id" : "e700f15965694253940502911220d76b"
    } ]
  },
  "status" : "success"
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

Update an application.

```
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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

```
public class UpdateAppInfoSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateAppInfoRequest request = new UpdateAppInfoRequest();
        UpdateAppInfoRequestBody body = new UpdateAppInfoRequestBody();
        List<UpdateTaskV2RequestBody> listbodyArrangeInfos = new ArrayList<>();
        listbodyArrangeInfos.add(
            new UpdateTaskV2RequestBody()
                .withId("e700f15965694253940502911220d76b")
                .withDeploySystem(UpdateTaskV2RequestBody.DeploySystemEnum.fromValue("deployTemplate"))
        )
            .withTemplateId("ec939bdf63194aca9fad45b3ba05643e")
            .withOperationList()
        );
        TaskTriggerVO triggerbody = new TaskTriggerVO();
        triggerbody.withTriggerSource("0")
            .withArtifactSourceSystem("")
            .withArtifactType("");
        body.withArrangeInfos(listbodyArrangeInfos);
        body.withTrigger(triggerbody);
        body.withSlaveClusterId("");
        body.withCreateType(UpdateAppInfoRequestBody.CreateTypeEnum.fromValue("template"));
        body.withIsDraft(true);
        body.withDescription("Update an application.");
        body.withName("deployenv20230822192953");
        body.withProjectId("55837d272adf4eee90319800e2da6961");
        body.withId("e700f15965694253940502911220d76b");
        request.withBody(body);
        try {
            UpdateAppInfoResponse response = client.updateAppInfo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

Python

Update an application.

```
# coding: utf-8

import os
```



```
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateAppInfoRequest()
        listArrangeInfosbody = [
            UpdateTaskV2RequestBody(
                id="e700f15965694253940502911220d76b",
                deploy_system="deployTemplate",
                template_id="ec939bdf63194aca9fad45b3ba05643e",
            )
        ]
        triggerbody = TaskTriggerVO(
            trigger_source="0",
            artifact_source_system="",
            artifact_type=""
        )
        request.body = UpdateAppInfoRequestBody(
            arrange_infos=listArrangeInfosbody,
            trigger=triggerbody,
            slave_cluster_id="",
            create_type="template",
            is_draft=True,
            description="Update an application.",
            name="deployenv20230822192953",
            project_id="55837d272adf4eee90319800e2da6961",
            id="e700f15965694253940502911220d76b"
        )
        response = client.update_app_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

Update an application.

```
package main

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

func main() {
```

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

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

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.UpdateAppInfoRequest{}
idArrangeInfos:= "e700f15965694253940502911220d76b"
deploySystemArrangeInfos:=
model.GetUpdateTaskV2RequestBodyDeploySystemEnum().DEPLOY_TEMPLATE
templateIdArrangeInfos:= "ec939bdf63194aca9fad45b3ba05643e"
var listArrangeInfosbody = []model.UpdateTaskV2RequestBody{
    {
        Id: &idArrangeInfos,
        DeploySystem: &deploySystemArrangeInfos,
        TemplateId: &templateIdArrangeInfos,
    },
}
triggerSourceTrigger:= "0"
artifactSourceSystemTrigger:= ""
artifactTypeTrigger:= ""
triggerbody := &model.TaskTriggerVo{
    TriggerSource: &triggerSourceTrigger,
    ArtifactSourceSystem: &artifactSourceSystemTrigger,
    ArtifactType: &artifactTypeTrigger,
}
slaveClusterIdUpdateAppInfoRequestBody:= ""
descriptionUpdateAppInfoRequestBody:= "Update an application."
request.Body = &model.UpdateAppInfoRequestBody{
    ArrangeInfos: &listArrangeInfosbody,
    Trigger: triggerbody,
    SlaveClusterId: &slaveClusterIdUpdateAppInfoRequestBody,
    CreateType: model.GetUpdateAppInfoRequestBodyCreateTypeEnum().TEMPLATE,
    IsDraft: true,
    Description: &descriptionUpdateAppInfoRequestBody,
    Name: "deployenv20230822192953",
    ProjectId: "55837d272adf4eee90319800e2da6961",
    Id: "e700f15965694253940502911220d76b",
}
response, err := client.UpdateAppInfo(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.12 Obtaining Application Details (Recommended)

Function

This API is used to obtain application details by ID.

Calling Method

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

URI

GET /v1/applications/{app_id}/info

Table 4-180 Path Parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Parameter description: Application ID. Constraints: N/A Value range: The value consists of 32 characters. Only letters and digits are allowed. Default value: N/A

Request Parameters

Table 4-181 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

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

Parameter	Type	Description
result	AppDetailInfo object	Parameter description: Application details.
status	String	Parameter description: Request success or failure status. Value range: • success: Request succeeded • error: Request failed

Table 4-183 AppDetailInfo

Parameter	Type	Description
id	String	Parameter description: Application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.

Parameter	Type	Description
name	String	Parameter description: Application name. Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-) and underscores (_) are allowed.
region	String	Parameter description: Region to which the application belongs. Value range: N/A
description	String	Parameter description: Description. Value range: The value consists of 0-1,024 characters.
is_disable	Boolean	Parameter description: Whether the application is disabled. Value range: • true: Disabled • false: Not disabled
create_type	String	Parameter description: Creation method. Value range: • template: Flexible application orchestration
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Letters and digits are allowed.
project_name	String	Parameter description: Project name. Value range: The value consists of 3 to 128 characters.

Parameter	Type	Description
slave_cluster_id	String	Definition Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used. Range null or 32 letters and digits.
is_care	Boolean	Definition: Whether you have favorited the application. Value range: • true: Yes. • false: No.
can_modify	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.
can_execute	Boolean	Definition: Whether you have the deployment permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_copy	Boolean	Definition: Whether you have the copy permission. Value range: • true: Yes. • false: No.
can_manage	Boolean	Definition: Whether you have permission to edit the application permission matrix. Value range: • true: Yes. • false: No.
can_create_env	Boolean	Definition: Whether you have permission to create an environment. Value range: • true: Yes. • false: No.
can_disable	Boolean	Definition: Whether you have permission to disable applications. Value range: • true: Yes. • false: No.
owner_tenant_id	String	Parameter description: Tenant ID of the application owner. Value range: The value consists of 1-32 characters. Letters and digits are allowed.
create_user_id	String	Parameter description: ID of the application creator. Value range: The value consists of 1-32 characters. Letters and digits are allowed.

Parameter	Type	Description
create_tenant_id	String	Parameter description: Tenant ID of the application creator. Value range: The value consists of 1-32 characters. Letters and digits are allowed.
create_time	String	Parameter description: Creation time. The value format is yyyy-MM-dd HH:mm:ss. For example, 2021-02-25 10:37:27. Value range: N/A
update_time	String	Parameter description: Modification time. The value format is yyyy-MM-dd HH:mm:ss. For example, 2021-02-25 10:37:27. Value range: N/A
permission_level	String	Parameter description: Application authentication level. Value range: - project: Authentication at project level - instance: Authentication at instance level
arrange_infos	Array of TaskV2Info objects	Parameter description: Deployment task information.

Table 4-184 TaskV2Info

Parameter	Type	Description
id	String	Parameter description: Deployment application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.

Parameter	Type	Description
name	String	Parameter description: Deployment task name. Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-) and underscores (_) are allowed.
state	String	Parameter description: Deployment task status. Value range: - Available: Executable state - Draft: Draft state
description	String	Parameter description: Description. Value range: The value consists of 0-1,024 characters.
owner	String	Parameter description: Deployment application owner. Value range: N/A
steps	Map<String, Step >	Parameter description: Deployment action.
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Letters and digits are allowed.
project_name	String	Parameter description: Project name. Value range: The value consists of 3 to 128 characters.
deploy_system	String	Parameter description: Deployment mode. Value range: deployTemplate: Deployment template

Parameter	Type	Description
create_time	String	Parameter description: Creation time. The value format is yyyy-MM-dd HH:mm:ss. For example, 2021-02-25 10:37:27. Value range: N/A
update_time	String	Parameter description: Modification time. The value format is yyyy-MM-dd HH:mm:ss. For example, 2021-02-25 10:37:27. Value range: N/A
role_id	Integer	Definition: Project management role ID. Value range: N/A.
is_default_permission	Boolean	Definition: Whether you are the default role of the project management. Value range: - true: Yes. - false: No.
template_id	String	Parameter description: Template ID. Value range: The value consists of 1-32 characters. Letters and digits are allowed.
nick_name	String	Definition Nickname of the application creator. Range String. 1 to 30 characters.
owner_id	String	Parameter description: ID of the application creator. Value range: The value consists of 1-32 characters. Letters and digits are allowed.

Parameter	Type	Description
tenant_id	String	Parameter description: Tenant ID of the application creator. Value range: The value consists of 1-32 characters. Letters and digits are allowed.
tenant_name	String	Parameter description: Tenant name of the application creator. Value range: The value consists of 0 to 128 characters.
slave_cluster_id	String	Definition Slave cluster ID. It is empty by default. When it is empty, the default agent pool is used. Range null or 32 letters and digits.
is_care	Boolean	Definition: Whether you have favorited the application. Value range: • true: Yes. • false: No.
can_modify	Boolean	Definition: Whether you have the edit permission. Value range: • true: Yes. • false: No.
can_delete	Boolean	Definition: Whether you have the delete permission. Value range: • true: Yes. • false: No.

Parameter	Type	Description
can_view	Boolean	Definition: Whether you have the view permission. Value range: • true: Yes. • false: No.
can_execute	Boolean	Definition: Whether you have the deployment permission. Value range: • true: Yes. • false: No.
can_copy	Boolean	Definition: Whether you have the copy permission. Value range: • true: Yes. • false: No.
can_manage	Boolean	Definition: Whether you have permission to edit the application permission matrix. Value range: • true: Yes. • false: No.
can_create_env	Boolean	Definition: Whether you have permission to create an environment. Value range: • true: Yes. • false: No.
can_disable	Boolean	Definition: Whether you have permission to disable applications. Value range: • true: Yes. • false: No.
app_component_list	Array of AppComponentDao objects	Parameter description: Application component list.

Parameter	Type	Description
release_id	Integer	Parameter description: Deployment record sequence number. Value range: N/A
app_id	String	Parameter description: Deployment task ID. Value range: The value consists of 32 characters. Letters and digits are allowed.
is_disable	Boolean	Parameter description: Whether the application is disabled. Value range: • true: Disabled • false: Not disabled

Table 4-185 Step

Parameter	Type	Description
id	String	Definition Action ID. Range The value contains 32 characters. Only letters and digits are supported.
name	String	Definition Action name. Range The value can contain a maximum of 128 characters and cannot start or end with a space. It includes only letters, digits, spaces, and special characters - _,:./()
params	Map<String,String>	Definition Action parameter. Range N/A

Parameter	Type	Description
enable	Boolean	Definition: Whether to enable an action. Value range: - true: Yes. - false: No.

Table 4-186 AppComponentDao

Parameter	Type	Description
task_id	String	Definition: Deployment job ID. Range: 32 characters, including letters and digits.
app_id	String	Definition: AOM application ID. Range: 32 characters, including letters and digits.
app_name	String	Parameter description: AOM application name. Value range: The value consists of letters and digits.
comp_id	String	Definition: AOM application component ID. Range: 32 characters, including letters and digits.
comp_name	String	Parameter description: AOM application component name. Value range: The value consists of 0 to 128 characters.

Parameter	Type	Description
domain_id	String	Definition: Tenant ID. Range: 32 characters, including letters and digits.
region	String	Parameter description: Region information. Value range: The value consists of 1 to 256 characters.
state	String	Parameter description: Whether the AOM application component takes effect. Value range: 0: Initialized. 1: The operation is successful and takes effect.

Status code: 400**Table 4-187** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 403**Table 4-188** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

```
https://{endpoint}/v1/applications/d2dc947ec2424d8789bb3984bb3adf45/info
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result": {
    "id": "d9e0532073e2475dbed64b22e64f3b26",
    "name": "deployenv202308211530723",
    "region": "example.com",
    "description": "for_test",
    "is_disable": true,
    "create_type": "template",
    "project_id": "1ff8aa6dda4643bd9cbdbb588fb24bde",
    "project_name": "Test Item",
    "slave_cluster_id": null,
    "is_care": false,
    "can_modify": true,
    "can_delete": true,
    "can_view": true,
    "can_execute": true,
    "can_copy": true,
    "can_manage": true,
    "can_create_env": true,
    "can_disable": true,
    "owner_tenant_id": "208fbb09068e4820b9209ef9ff4da73d",
    "create_user_id": "6baa7454109d47c192f22078fe6cda20",
    "create_tenant_id": "26a680dd72e7482eb60d2ef5513588bb",
    "create_time": "2023-08-21 15:30:51.0",
    "update_time": "2023-08-21 15:30:51.0",
    "permission_level": "instance",
    "arrange_infos": [ {
      "id": "685a6f3b80264e7d96f2ba308f8414e5",
      "name": "deployenv202308211530723",
      "state": "Draft",
      "description": "for_test",
      "owner": "devcloud_devcloud_l00490255_01",
      "steps": {
        "step1": {
          "id": null,
          "name": "Install Go",
          "params": { },
          "enable": true
        },
        "step2": {
          "id": null,
          "name": "Download Software Package",
          "params": { },
          "enable": true
        },
        "step3": {
          "id": null,
          "name": "Stop Go Service",
          "params": { },
          "enable": true
        },
        "step4": {
          "id": null,
          "name": "Start Go Service",
          "params": { },
          "enable": true
        },
        "step5": {
          "id": null,
          "name": "Test Service",
          "params": { },
          "enable": true
        }
      }
    }
  ]
}
```



```
    },
    "project_id" : "1ff8aa6dda4643bd9cbdbb588fb24bde",
    "project_name" : "Test Item",
    "deploy_system" : "deployTemplate",
    "create_time" : "2023-08-21 15:30:51",
    "update_time" : "2023-08-21 15:30:51",
    "role_id" : 0,
    "is_default_permission" : false,
    "template_id" : "681bd91f9d6e42cdb4cb84d6718de9fe",
    "nick_name" : "Alias",
    "owner_id" : "6baa7454109d47c192f22078fe6cda20",
    "tenant_id" : "26a680dd72e7482eb60d2ef5513588bb",
    "tenant_name" : "devcloud_devcloud_l00490255_01",
    "slave_cluster_id" : null,
    "is_care" : false,
    "can_modify" : true,
    "can_delete" : true,
    "can_view" : true,
    "can_execute" : true,
    "can_copy" : true,
    "can_manage" : true,
    "can_create_env" : false,
    "can_disable" : false,
    "app_component_list" : [ ],
    "release_id" : 0,
    "app_id" : "d9e0532073e2475dbed64b22e64f3b26",
    "is_disable" : true
  } ]
},
"status" : "success"
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "Deploy.00015002",
  "error_msg" : "Invalid request parameter."
}
```

Status code: 403

Forbidden

```
{
  "error_code" : "Deploy.00011154",
  "error_msg" : "You do not have permissions to perform this operation."
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;
```

```
public class ShowAppDetailByIdSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowAppDetailByIdRequest request = new ShowAppDetailByIdRequest();
        request.withAppId("{app_id}");
        try {
            ShowAppDetailByIdResponse response = client.showAppDetailById(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowAppDetailByIdRequest()
        request.app_id = "{app_id}"
        response = client.show_app_detail_by_id(request)
        print(response)
```

```
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main

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

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowAppDetailByldRequest{}
    request.AppId = "{app_id}"
    response, err := client.ShowAppDetailByld(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: The request is successful.
400	Bad Request
403	Forbidden

Error Codes

See [Error Codes](#).

4.3.13 Deleting an Application (Recommended)

Function

This API is used to delete an application by ID.

Calling Method

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

URI

DELETE /v1/applications/{app_id}

Table 4-189 Path Parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Parameter description: Application ID. Constraints: N/A Value range: The value consists of 32 characters. Only letters and digits are allowed. Default value: N/A

Request Parameters

Table 4-190 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-191** Response body parameters

Parameter	Type	Description
status	String	Parameter description: Request success or failure status. Value range: • success: Request succeeded • error: Request failed
result	AppBaseResponse object	Definition: Response body for application basic information.

Table 4-192 AppBaseResponse

Parameter	Type	Description
id	String	Parameter description: Application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.
name	String	Parameter description: Application name. Value range: The value consists of 3-128 characters. Only letters, digits, hyphens (-) and underscores (_) are allowed.
region	String	Parameter description: Region to which the application belongs. Value range: N/A
is_disable	Boolean	Definition Whether the current application is disabled. Range • true: The application is disabled. • false: The application is not disabled.
arrange_infos	Array of TaskBaseBody objects	Parameter description: Deployment task list.

Table 4-193 TaskBaseBody

Parameter	Type	Description
id	String	Parameter description: Deployment application ID. Value range: The value consists of 32 characters. Letters and digits are allowed.

Status code: 400

Table 4-194 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 403**Table 4-195** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

```
https://{endpoint}/v1/applications/b024060ac00749178e72713ae82b0da2
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : {
    "id" : "20168cbc8504479d84f118ae72f87763",
    "name" : "test_app",
    "region" : "region-a",
    "arrange_infos" : [ {
      "id" : "5d55203938db46939cd41a66ef2c4a52"
    } ]
  },
  "status" : "success"
}
```

Status code: 400

Bad Request

```
{
  "error_code" : "Deploy.00015002",
  "error_msg" : "Invalid request parameter."
}
```

Status code: 403

Forbidden

```
{
  "error_code" : "Deploy.00011154",
  "error_msg" : "You do not have permissions to perform this operation."
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class DeleteApplicationSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteApplicationRequest request = new DeleteApplicationRequest();
        request.withAppId("{app_id}");
        try {
            DeleteApplicationResponse response = client.deleteApplication(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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


risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment

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

credentials = BasicCredentials(ak, sk)

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

try:
    request = DeleteApplicationRequest()
    request.app_id = "{app_id}"
    response = client.delete_application(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)
```

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteApplicationRequest{}
    request.AppId = "{app_id}"
    response, err := client.DeleteApplication(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: The request is successful.
400	Bad Request
403	Forbidden

Error Codes

See [Error Codes](#).

4.3.14 Querying the Execution Parameters of a Deployment Record

Function

This API is used to query the execution parameters of a deployment record.

Calling Method

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

URI

GET /v2/history/tasks/{task_id}/params

Table 4-196 Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Parameter description: Deployment application ID. Constraints: N/A Value range: The value consists of 32 characters. Only letters and digits are allowed. Default value: N/A

Table 4-197 Query Parameters

Parameter	Mandatory	Type	Description
record_id	No	String	Parameter description: Execution record ID. Constraints: N/A Value range: The value consists of 32 characters. Only letters and digits are allowed. Default value: N/A

Request Parameters

Table 4-198 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-199** Response body parameters

Parameter	Type	Description
[items]	Array of ConfigInfo objects	Definition: Response body for querying deployment record execution parameters

Table 4-200 ConfigInfo

Parameter	Type	Description
name	String	Parameter description: Parameter name. Value range: N/A

Parameter	Type	Description
type	String	Definition: Parameter type. Value range: - text: String. - host_group: Environment. - enum: Enumeration. - encrypt: Private parameter.
value	String	Parameter description: Parameter value. Value range: N/A

Status code: 400**Table 4-201** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 403**Table 4-202** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

```
https://{endpoint}/v1/history/tasks/8e1eb7f010d4442ca150e3a1a5d96d94/params?  
record_id=8bcfde0419bf4d62b4676de99bcc7403
```

Example Responses

Status code: 200

OK: The request is successful.

```
[ {  
  "name" : "service_port",
```

```
"type" : "text",
"value" : 8080
}, {
  "name" : "pwd",
  "type" : "encrypt",
  "value" : ""
}, {
  "name" : "env",
  "type" : "host_group",
  "value" : "4ed5be8d76f84f8bacdba9c8bd57ec92"
}, {
  "name" : "test_enum",
  "type" : "enum",
  "value" : "value1"
}]
```

Status code: 400

Bad Request

```
{
  "error_code" : "Deploy.00015002",
  "error_msg" : "Invalid request parameter."
}
```

Status code: 403

Forbidden

```
{
  "error_code" : "Deploy.00011154",
  "error_msg" : "You do not have permissions to perform this operation."
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ShowExecutionParamsSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
```

```
.withCredential(auth)
.withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
.build();
ShowExecutionParamsRequest request = new ShowExecutionParamsRequest();
request.withTaskId("{task_id}");
try {
    ShowExecutionParamsResponse response = client.showExecutionParams(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowExecutionParamsRequest()
        request.task_id = "{task_id}"
        response = client.show_execution_params(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
```

```
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartsdeploy.NewCodeArtsDeployClient(  
        codeartsdeploy.CodeArtsDeployClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.ShowExecutionParamsRequest{}  
    request.TaskId = "{task_id}"  
    response, err := client.ShowExecutionParams(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: The request is successful.
400	Bad Request
403	Forbidden

Error Codes

See [Error Codes](#).

4.3.15 Cloning an Application

Function

This API is used to clone an application.

Calling Method

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

URI

POST /v1/applications/{app_id}/duplicate

Table 4-203 Path Parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Application ID

Request Parameters

Table 4-204 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-205 Response body parameters

Parameter	Type	Description
result	AppBaseInfo object	Basic application information
status	String	Request success or failure status

Table 4-206 AppBaseInfo

Parameter	Type	Description
id	String	Application ID
name	String	Application name
region	String	Region information
is_disable	Boolean	Whether the application is disabled

Example Requests

```
https://{endpoint}/v1/applications/42cf463ae2ab4c2e9825a8932874782f/duplicate
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : {
    "id" : "a21d1951433c47a9b72cb72933d27df8",
    "name" : "Test_Copy_92131",
    "region" : "region-a",
    "is_disable" : false
  },
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class CopyApplicationSolution {

    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);

CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
    .build();
CopyApplicationRequest request = new CopyApplicationRequest();
request.withAppId("{app_id}");
try {
    CopyApplicationResponse response = client.copyApplication(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CopyApplicationRequest()
        request.app_id = "{app_id}"
        response = client.copy_application(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"
codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
"github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CopyApplicationRequest{}
    request.AppId = "{app_id}"
    response, err := client.CopyApplication(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.16 Deleting Applications from a Project in Batches

Function

This API is used to delete applications from a project in batches.

Calling Method

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

URI

POST /v2/applications/batch-delete

Request Parameters

Table 4-207 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-208 Request body parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
application_ids	Yes	Array of strings	Application ID list

Response Parameters

Status code: 200

Table 4-209 Response body parameters

Parameter	Type	Description
result	Array of AppDeleteResult objects	Result of deleting applications in batches
total_num	Integer	Total number of applications deleted in batches

Table 4-210 AppDeleteResult

Parameter	Type	Description
application_id	String	Application ID
application_name	String	Application name
status	String	Deletion result: success or error
error_reason	String	Causes of deletion failures

Example Requests

```
https://{endpoint}/v2/applications/batch-delete
{
  "application_ids" : [ "eac65c10c5c34df1824af96ec93a9eea", "3ba2ad194ff141e39b1d3d0749242858" ],
  "project_id" : "0a38ce9ba3c740c199a0f872b6163661"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : [ {
    "application_id" : "eac65c10c5c34df1824af96ec93a9eea",
    "application_name" : "Application name 1",
    "error_reason" : "",
    "status" : "success"
  }, {
    "application_id" : "eac65c10c5c34df1824af96ec93a9eeb",
    "application_name" : "Application name 2",
    "error_reason" : "No permissions.",
    "status" : "error"
  } ],
  "total_num" : 2
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

public class BatchDeleteAppSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        BatchDeleteAppRequest request = new BatchDeleteAppRequest();
        AppBatchDeleteRequest body = new AppBatchDeleteRequest();
        List<String> listbodyApplicationIds = new ArrayList<>();
        listbodyApplicationIds.add("eac65c10c5c34df1824af96ec93a9eea");
        listbodyApplicationIds.add("3ba2ad194ff141e39b1d3d0749242858");
        body.withApplicationIds(listbodyApplicationIds);
        body.withProjectId("0a38ce9ba3c740c199a0f872b6163661");
        request.withBody(body);
        try {
            BatchDeleteAppResponse response = client.batchDeleteApp(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *
```

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = BatchDeleteAppRequest()
        listApplicationIdsbody = [
            "eac65c10c5c34df1824af96ec93a9eea",
            "3ba2ad194ff141e39b1d3d0749242858"
        ]
        request.body = AppBatchDeleteRequest(
            application_ids=listApplicationIdsbody,
            project_id="0a38ce9ba3c740c199a0f872b6163661"
        )
        response = client.batch_delete_app(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchDeleteAppRequest{}
    var listApplicationIdsbody = []string{
```



```
"eac65c10c5c34df1824af96ec93a9eea",  
"3ba2ad194ff141e39b1d3d0749242858",  
}  
request.Body = &model.AppBatchDeleteRequest{  
    ApplicationIds: listApplicationIdsbody,  
    ProjectId: "0a38ce9ba3c740c199a0f872b6163661",  
}  
response, err := client.BatchDeleteApp(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.17 Checking Whether an Application with the Same Name Exists in a Project

Function

This API is used to check whether an application with the same name exists in a project.

Calling Method

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

URI

GET /v1/applications/exist

Table 4-211 Query Parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Application name

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

Table 4-212 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-213 Response body parameters

Parameter	Type	Description
result	Boolean	Whether an application with the same name exists in the project.

Parameter	Type	Description
status	String	Request success or failure status

Example Requests

```
https://{endpoint}/v1/applications/exist?name=test&project_id=46e2dd65b123456798137caebae6fa6d
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : false,
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class CheckIsDuplicateAppNameSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        CheckIsDuplicateAppNameRequest request = new CheckIsDuplicateAppNameRequest();
        try {
            CheckIsDuplicateAppNameResponse response = client.checkIsDuplicateAppName(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        }
    }
}
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CheckIsDuplicateAppNameRequest()
        response = client.check_is_duplicate_app_name(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

    auth := basic.NewCredentialsBuilder().
```

```
WithAk(ak).
WithSk(sk).
Build()

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CheckIsDuplicateAppNameRequest{}
response, err := client.CheckIsDuplicateAppName(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.18 Disabling and Enabling an Application

Function

This API is used to disable or enable an application.

Calling Method

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

URI

PUT /v1/applications/{app_id}/disable

Table 4-214 Path Parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Definition: Application ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-215 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-216 Request body parameters

Parameter	Mandatory	Type	Description
is_disable	Yes	Boolean	Definition: Whether to disable an application. Constraints: N/A. Value range: • true: Yes. • false: No. Default value: N/A.

Response Parameters

Status code: 200

Table 4-217 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • error: Failed.

Example Requests

```
https://{endpoint}/v1/applications/dbc0305b030f41ce866739c3331166ff/disable
{
  "is_disable" : true
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class UpdateAppDisableStatusSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateAppDisableStatusRequest request = new UpdateAppDisableStatusRequest();
        request.withAppId("{app_id}");
        UpdateAppDisableStatusRequestBody body = new UpdateAppDisableStatusRequestBody();
        body.withIsDisable(true);
        request.withBody(body);
        try {
            UpdateAppDisableStatusResponse response = client.updateAppDisableStatus(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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



```
# In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak = os.environ["CLOUD_SDK_AK"]
sk = os.environ["CLOUD_SDK_SK"]

credentials = BasicCredentials(ak, sk)

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

try:
    request = UpdateAppDisableStatusRequest()
    request.app_id = "{app_id}"
    request.body = UpdateAppDisableStatusRequestBody(
        is_disable=True
    )
    response = client.update_app_disable_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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateAppDisableStatusRequest{}
    request.AppId = "{app_id}"
    request.Body = &model.UpdateAppDisableStatusRequestBody{
        IsDisable: true,
    }
    response, err := client.UpdateAppDisableStatus(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: The request is successful.

Error Codes

See [Error Codes](#).

4.3.19 Obtaining System Parameters

Function

This API is used to obtain the global default system parameters.

Calling Method

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

URI

GET /v3/system/configs

Request Parameters

Table 4-218 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-219 Response body parameters

Parameter	Type	Description
[items]	Array of QuerySystemConfig objects	Definition System parameter list.

Table 4-220 QuerySystemConfig

Parameter	Type	Description
name	String	Definition System parameter name. Range N/A
type	String	Definition System parameter type. Range text: Text type.

Parameter	Type	Description
description	String	Definition System parameter description. Range N/A
pipeline_source	String	Definition Source information transferred by the pipeline. Range Artifact: The source is CodeArts Artifact.
pipeline_source_type	String	Definition Artifact repository type of the pipeline source. Range • generic: Release repository. • docker: Docker repository.
static_status	Boolean	Definition Whether the system parameter is static. Range • false: Parameters cannot be changed during deployment. • true: Parameters can be changed during deployment and reported to the pipeline.

Example Requests

Obtain the global default system parameters.

```
https://{endpoint}/v3/system/configs
```

Example Responses

Status code: 200

OK indicates that the system parameters are queried.

```
[ {  
  "name" : "CODEARTS_ARTIFACT_FILE",  
  "type" : "text",  
  "description" : "First-level directory in CodeArts Artifact as the deployment source.",  
  "pipeline_source" : "Artifact",  
  "pipeline_source_type" : "generic",  
  "static_status" : false  
}]
```

Status Codes

Status Code	Description
200	OK indicates that the system parameters are queried.

Error Codes

See [Error Codes](#).

4.3.20 Querying Application Notification Configurations

Function

This API is used to query the application notification configuration based on the application ID.

Calling Method

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

URI

GET /v2/projects/{project_id}/applications/{app_id}/messages

Table 4-221 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Parameter	Mandatory	Type	Description
app_id	Yes	String	Definition Application ID. Obtain the application list by calling the API for obtaining the application list . In the response body, result[0].id is the desired application list. Constraints N/A Range The value contains 32 characters. Only letters and digits are allowed. Default value N/A

Request Parameters

Table 4-222 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-223 Response body parameters

Parameter	Type	Description
result	Array of TaskMsgBody objects	Definition Application notification configuration.
status	String	Definition Log query result. Range • success: Logs are queried. • error: Query logs failed.

Table 4-224 TaskMsgBody

Parameter	Type	Description
id	String	Definition Message notification ID. Range The value contains 32 characters. Only letters and digits are allowed.
app_id	String	Definition Application ID. Range The value contains 32 characters. Only letters and digits are allowed.
msg_type	String	Definition Message notification type. Range • email: Email. • dingtalk: DingTalk. • wechat: WeCom. • message: System message. • lark: Feishu. • webhook: Customized callback network hook.
task_id	String	Definition Task ID. Range The value contains 32 characters. Only letters and digits are allowed.

Parameter	Type	Description
msg_state	Boolean	Definition Notification switch status. Range • true: Enabled. • false: Disabled.
sort_index	Integer	Definition Subscript ID of the notification type. Range • -1: System message. • 0: Email. • 1: DingTalk. • 2: WeCom. • 3: Feishu. • 4: Webhook.
send_url	String	Definition Messaging URL. Range N/A
secret_info	String	Definition Key information. Range N/A
wechat_user_ids	Array of strings	Definition WeCom user ID list. Range N/A
at_user_ids	Array of strings	Definition IDs of users mentioned in the Webhook messages. Range N/A
at_mobiles	Array of strings	Definition Mobile numbers mentioned in the Webhook messages. Range N/A

Parameter	Type	Description
msg_level	String	Definition Notification message level. Range • project: Project level. • instance: Instance level.
state_switch	Array of MsgSwitchBody objects	Definition Notification switch.
http_headers	Array of strings	Definition Request header of the Webhook message. This parameter is only available when the Webhook message is sent. Range N/A
message_body	String	Definition Request body of the Webhook message. This parameter is available only when the Webhook message is sent. Range N/A
body_switch	Array of MsgSwitchBody objects	Definition Message body structure switch.
ext_params	String	Definition Extended parameter. Range N/A
user_id	String	Definition User ID. Range N/A
create_time	String	Definition Creation time. Format: yyyy-MM-dd HH:mm:ss. Example: 2021-02-25 10:37:27. Range N/A

Parameter	Type	Description
update_time	String	Definition Update time. Format: yyyy-MM-dd HH:mm:ss. Example: 2021-02-25 10:37:27. Range N/A

Table 4-225 MsgSwitchBody

Parameter	Type	Description
name	String	Definition Switch name. Range N/A
open	Boolean	Definition Whether the switch is enabled. Range • true: enabled. • false: Disabled.
sort	Integer	Definition Sorting value. Range Digits only. By default, the value 0 is reserved for system notifications. When a third-party notification is enabled, it is assigned the next available integer value in ascending order. Each activation increments the counter by 1, creating a sequential mapping of notifications.
receivers	Array of strings	Definition Message recipient list. Range N/A

Example Requests

Query the application notification configuration based on the application ID.

```
https://{endpoint}/v2/projects/7e6caf3cd9a64d5b8ea451e38221892e/applications/  
325395b98fd341c1bc7ed01c5211421e/messages
```

Example Responses

Status code: 200

OK indicates that the application notification configuration is queried.

```
{  
  "result" : [ {  
    "id" : "ffff49b38041413d99e1a3dddfc95e8e",  
    "app_id" : "325395b98fd341c1bc7ed01c5211421e",  
    "msg_type" : "email",  
    "task_id" : "70c80124aea547d092d50747a06ec858",  
    "msg_state" : true,  
    "sort_index" : -1,  
    "send_url" : "123@xx.com",  
    "secret_info" : "xxx",  
    "wechat_user_ids" : [ ],  
    "at_user_ids" : [ ],  
    "at_mobiles" : [ ],  
    "msg_level" : "instance",  
    "state_switch" : [ {  
      "name" : "success",  
      "open" : true,  
      "sort" : 0,  
      "receivers" : null  
    }, {  
      "name" : "failure",  
      "open" : true,  
      "sort" : 0,  
      "receivers" : null  
    }, {  
      "name" : "update",  
      "open" : true,  
      "sort" : 0,  
      "receivers" : null  
    }, {  
      "name" : "delete",  
      "open" : true,  
      "sort" : 0,  
      "receivers" : null  
    } ],  
    "http_headers" : [ ],  
    "message_body" : "body",  
    "body_switch" : [ {  
      "name" : "projectName",  
      "open" : true,  
      "sort" : 5,  
      "receivers" : null  
    } ],  
    "ext_params" : null,  
    "user_id" : "6fd072f3dd1f49b897f1e11d34ab5972",  
    "create_time" : "2025-08-23 12:06:03",  
    "update_time" : "2025-08-23 12:06:03"  
  } ],  
  "status" : "success"  
}
```

Status Codes

Status Code	Description
200	OK indicates that the application notification configuration is queried.

Error Codes

See [Error Codes](#).

4.3.21 Obtaining the Deployment Task Status

Function

This API is used to obtain the execution status of a deployment task based on its ID.

Calling Method

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

URI

GET /v2/tasks/{task_id}/state

Table 4-226 Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Definition Deployment task ID. Obtain the application details by calling the API for obtaining the application details . In the response body, result.arrange_infos[0].id is the desired application details. Constraints N/A Range The value contains 32 characters. Only letters and digits are allowed. Default value N/A

Table 4-227 Query Parameters

Parameter	Mandatory	Type	Description
record_id	No	String	Definition Deployment record ID. Obtain the historical deployment record list by calling the API for querying the historical deployment record list of the specified application under a project according to the start time and end time . In the response body, result[0].execution_id is the desired historical deployment record list. Constraints N/A Range The value contains 32 characters. Only letters and digits are allowed. Default value N/A
step_state	No	Boolean	Definition Whether to return the status of each action. Constraints N/A Range • true: Returned. • false: Not returned. Default value true .

Request Parameters

Table 4-228 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-229 Response body parameters

Parameter	Type	Description
result	StateInfo object	Definition Task execution status.
status	String	Definition Task execution status query result. Range • success: The task execution status is queried. • error: Query task execution status failed.

Table 4-230 StateInfo

Parameter	Type	Description
status	String	Definition Deployment task execution status. Range • running: The task is running. • succeeded: The task is executed successfully. • failed: Failed to execute the task.
nick_name	String	Definition Nickname of the application creator. Range String. 1 to 30 characters.
record_id	String	Definition Deployment task execution record ID. Range The value contains 32 characters. Letters and digits are allowed.
task_id	String	Definition Deployment task ID. Range The value contains 32 characters. Letters and digits are allowed.
step	String	Definition Execution status of each sub-action of the deployment task. Range • running: The status is running. • finish: The status is completed.
start_time	String	Definition Task execution start time. Format: yyyy-MM-dd HH:mm:ss. Range N/A
end_time	String	Definition Task execution end time. Format: yyyy-MM-dd HH:mm:ss. Range N/A

Parameter	Type	Description
executor	String	Definition Deployer nickname. Range N/A
task_name	String	Definition Application name. Range 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-).
step_state	Array of StepInfo objects	Definition Sub-action execution status list.

Table 4-231 StepInfo

Parameter	Type	Description
region	String	Definition Region information. Range The value consists of 1 to 256 characters.
enable	Boolean	Definition Whether an action is enabled. Range • true: Yes. • false: No.
name	String	Definition Action name. Range N/A
elapsed_time	Long	Definition Action execution duration, in milliseconds. Range N/A

Example Requests

Obtain the execution status of a deployment task based on its ID.

```
https://{endpoint}/v2/tasks/e700f15965694253940502911220d76b/state?record_id=2c82ffe8d00d4968a4e5f7a36d87ae17&step_state=false
```

Example Responses

Status code: 200

OK indicates that the task execution status is queried.

```
{
  "status" : "success",
  "result" : {
    "record_id" : "2c82ffe8d00d4968a4e5f7a36d87ae17",
    "task_id" : "e700f15965694253940502911220d76b",
    "nick_name" : "A/B side account",
    "status" : "succeeded",
    "step" : "finish",
    "start_time" : "2025-07-09 11:36:28",
    "end_time" : "2025-07-09 11:36:43",
    "executor" : "devcloud_test",
    "task_name" : "test"
  }
}
```

Status Codes

Status Code	Description
200	OK indicates that the task execution status is queried.

Error Codes

See [Error Codes](#).

4.3.22 Stopping a Deployment Task

Function

This API is used to stop a deployment task based on the deployment task ID and execution record ID.

Calling Method

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

URI

PUT /v2/tasks/{task_id}/records/{record_id}/stop

Table 4-232 Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Definition Deployment task ID. Obtain the application details by calling the API for obtaining the application details . In the response body, result.arrange_infos[0].id is the desired application details. Constraints N/A Range The value contains 32 characters. Only letters and digits are allowed. Default value N/A
record_id	Yes	String	Definition Deployment record ID. Obtain the historical deployment record list by calling the API for querying the historical deployment record list of the specified application under a project according to the start time and end time . In the response body, result[0].execution_id is the desired historical deployment record list. Constraints N/A Range The value contains 32 characters. Only letters and digits are allowed. Default value N/A

Request Parameters

Table 4-233 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-234 Response body parameters

Parameter	Type	Description
result	CancelInfo object	Definition Information about operations of stopping a task. Range N/A
status	String	Definition Result of stopping task execution. Range • success: The task execution is stopped. • error: Failed to stop the task execution.

Table 4-235 CancelInfo

Parameter	Type	Description
id	String	Definition Execution record ID. Range The value contains 32 characters. Only letters and digits are allowed.
task_id	String	Definition Task ID. Range The value contains 32 characters. Only letters and digits are allowed.

Example Requests

```
https://{endpoint}/v2/tasks/e700f15965694253940502911220d76b/records/  
2c82ffe8d00d4968a4e5f7a36d87ae17/stop
```

Example Responses

Status code: 200
OK indicates that the task is stopped.

```
{  
  "status" : "success",  
  "result" : {  
    "id" : "2c82ffe8d00d4968a4e5f7a36d87ae17",  
    "task_id" : "e700f15965694253940502911220d76b"  
  }  
}
```

Status Codes

Status Code	Description
200	OK indicates that the task is stopped.

Error Codes

See [Error Codes](#).

4.4 Managing Application Groups

4.4.1 Querying a Group List

Function

This API is used to query a group list.

Calling Method

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

URI

GET /v1/projects/{project_id}/applications/groups

Table 4-236 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

Table 4-237 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-238 Response body parameters

Parameter	Type	Description
result	Array of AppGroupsEntity objects	Definition: Group information list.
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • error: Failed. Request status (successful or failed).

Table 4-239 AppGroupsEntity

Parameter	Type	Description
id	String	Definition: Group ID. Value range: 32 characters, including letters and digits.
name	String	Definition: Group name. Value range: N/A.
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
path	String	Definition: Group path, which consists of the parent group ID+"."+the current group ID. Value range: N/A.
parent_id	String	Definition: Parent group ID. The first level is null . Value range: The value consists of 32 characters, including letters and digits, or null .
ordinal	Integer	Definition: Group sorting field. Value range: N/A.
create_user_id	String	Definition: ID of the group creator. Value range: N/A.

Parameter	Type	Description
last_update_user_id	String	Definition: ID of the user who last updates the group. Value range: N/A.
count	Integer	Definition: Total number of applications in the group. Value range: N/A.
children	Array of AppGroupsEntity objects	Definition: Subgroup list.

Example Requests

`https://{endpoint}/v1/projects/0a38ce9ba3c740c199a0f872b6163661/applications/groups`

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : [ {
    "project_id" : "0a38ce9ba3c740c199a0f872b6163661",
    "path" : "55ad749142fc405398aad372a1f9eff1",
    "parent_id" : null,
    "ordinal" : 1,
    "name" : "group_1",
    "last_update_user_id" : "057842a25b000f6b1fcbc014a9cccc",
    "id" : "55ad749142fc405398aad372a1f9eff1",
    "create_user_id" : "057842a25b000f6b1fcbc014a9cccc",
    "count" : 0,
    "children" : [ ]
  } ],
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ListAppGroupsSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListAppGroupsRequest request = new ListAppGroupsRequest();
        request.withProjectId("{project_id}");
        try {
            ListAppGroupsResponse response = client.listAppGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

```
try:
    request = ListAppGroupsRequest()
    request.project_id = "{project_id}"
    response = client.list_app_groups(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListAppGroupsRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ListAppGroups(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: The request is successful.

Error Codes

See [Error Codes](#).

4.4.2 Creating a Group

Function

This API is used to create a group.

Calling Method

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

URI

POST /v1/projects/{project_id}/applications/groups

Table 4-240 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

Table 4-241 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-242 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Group name
parent_id	No	String	Parent group ID

Response Parameters

Status code: 200

Table 4-243 Response body parameters

Parameter	Type	Description
result	String	Group ID
status	String	Request success or failure status

Example Requests

```
https://{endpoint}/v1/projects/0a38ce9ba3c740c199a0f872b6163661/applications/groups  
  
{  
  "name" : "Group Name",  
  "parent_id" : "d26da1dc24314c63a253cbc452dabd96"  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : "2f1a73c269d14345aa0652a611b30c8e",
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class CreateAppGroupsSolution {

    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);

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

        CreateAppGroupsRequest request = new CreateAppGroupsRequest();
        request.withProjectId("{project_id}");
        CreateAppGroupsRequestBody body = new CreateAppGroupsRequestBody();
        body.withParentId("d26da1dc24314c63a253cbc452dabd96");
        body.withName("Group Name");
        request.withBody(body);
        try {
            CreateAppGroupsResponse response = client.createAppGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}  
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartsdeploy.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsDeployClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsDeployRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = CreateAppGroupsRequest()  
        request.project_id = "{project_id}"  
        request.body = CreateAppGroupsRequestBody(  
            parent_id="d26da1dc24314c63a253cbc452dabd96",  
            name="Group Name"  
        )  
        response = client.create_app_groups(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"  
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).
```

```
Build()

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.CreateAppGroupsRequest{}
request.ProjectId = "{project_id}"
parentIdCreateAppGroupsRequestBody:= "d26da1dc24314c63a253cbc452dabd96"
request.Body = &model.CreateAppGroupsRequestBody{
    ParentId: &parentIdCreateAppGroupsRequestBody,
    Name: "Group Name",
}
response, err := client.CreateAppGroups(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: The request is successful.

Error Codes

See [Error Codes](#).

4.4.3 Modifying a Group

Function

This API is used to modify a group.

Calling Method

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

URI

PUT /v1/projects/{project_id}/applications/groups/{group_id}

Table 4-244 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
group_id	Yes	String	Group ID

Request Parameters

Table 4-245 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-246 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Group name

Response Parameters

Status code: 200

Table 4-247 Response body parameters

Parameter	Type	Description
result	String	Group ID
status	String	Request success or failure status

Example Requests

```
https://{endpoint}/v1/projects/0a38ce9ba3c740c199a0f872b6163661/applications/groups/
a958794f9f4f4a24a96950c9cb279a4d
{
  "name" : "Group Name"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : "a958794f9f4f4a24a96950c9cb279a4d",
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class UpdateAppGroupsSolution {

    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);

CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
    .build();
UpdateAppGroupsRequest request = new UpdateAppGroupsRequest();
request.withProjectId("{project_id}");
request.withGroupId("{group_id}");
UpdateAppGroupsRequestBody body = new UpdateAppGroupsRequestBody();
body.withName("Group Name");
request.withBody(body);
try {
    UpdateAppGroupsResponse response = client.updateAppGroups(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = UpdateAppGroupsRequest()
        request.project_id = "{project_id}"
        request.group_id = "{group_id}"
        request.body = UpdateAppGroupsRequestBody(
            name="Group Name"
        )
        response = client.update_app_groups(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateAppGroupsRequest{}
    request.ProjectId = "{project_id}"
    request.GroupId = "{group_id}"
    request.Body = &model.UpdateAppGroupsRequestBody{
        Name: "Group Name",
    }
    response, err := client.UpdateAppGroups(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: The request is successful.

Error Codes

See [Error Codes](#).

4.4.4 Deleting a Group

Function

This API is used to delete a group.

Calling Method

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

URI

DELETE /v1/projects/{project_id}/applications/groups/{group_id}

Table 4-248 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
group_id	Yes	String	Group ID

Request Parameters

Table 4-249 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-250** Response body parameters

Parameter	Type	Description
result	String	Group ID
status	String	Request success or failure status

Example Requests

```
https://{endpoint}/v1/projects/0a38ce9ba3c740c199a0f872b6163661/applications/groups/a958794f9f4f4a24a96950c9cb279a4d
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : "a958794f9f4f4a24a96950c9cb279a4d",
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class DeleteAppGroupsSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        DeleteAppGroupsRequest request = new DeleteAppGroupsRequest();
        request.withProjectId("{project_id}");
        request.withGroupId("{group_id}");
        try {
            DeleteAppGroupsResponse response = client.deleteAppGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

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

credentials = BasicCredentials(ak, sk)

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

try:
    request = DeleteAppGroupsRequest()
    request.project_id = "{project_id}"
    request.group_id = "{group_id}"
    response = client.delete_app_groups(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteAppGroupsRequest{}
    request.ProjectId = "{project_id}"
    request.GroupId = "{group_id}"
    response, err := client.DeleteAppGroups(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: The request is successful.

Error Codes

See [Error Codes](#).

4.4.5 Moving a Group

Function

This API is used to move a group up or down to adjust the position of the group on the page.

Calling Method

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

URI

PUT /v1/projects/{project_id}/applications/groups/swap

Table 4-251 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

Table 4-252 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-253 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Group ID
movement	Yes	Integer	Moving direction. 1: Upward. -1: Downward.

Response Parameters

Status code: 200

Table 4-254 Response body parameters

Parameter	Type	Description
result	String	Group ID
status	String	Request success or failure status

Example Requests

```
https://{endpoint}/v1/projects/0a38ce9ba3c740c199a0f872b6163661/applications/groups/swap
{
  "id" : "a958794f9f4f4a24a96950c9cb279a4d",
  "movement" : 1
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : "a958794f9f4f4a24a96950c9cb279a4d",
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class MoveAppGroupsSolution {

    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);

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

        MoveAppGroupsRequest request = new MoveAppGroupsRequest();
        request.withProjectId("{project_id}");
        MoveAppGroupsRequestBody body = new MoveAppGroupsRequestBody();
        body.withMovement(MoveAppGroupsRequestBody.MovementEnum.NUMBER_1);
        body.withId("a958794f9f4f4a24a96950c9cb279a4d");
        request.withBody(body);
        try {
            MoveAppGroupsResponse response = client.moveAppGroups(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

```
}  
}  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion  
from huaweicloudsdkcore.exceptions import exceptions  
from huaweicloudsdkcodeartsdeploy.v2 import *  
  
if __name__ == "__main__":  
    # The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    # risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    # variables and decrypted during use to ensure security.  
    # In this example, AK and SK are stored in environment variables for authentication. Before running this  
    # example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak = os.environ["CLOUD_SDK_AK"]  
    sk = os.environ["CLOUD_SDK_SK"]  
  
    credentials = BasicCredentials(ak, sk)  
  
    client = CodeArtsDeployClient.new_builder() \  
        .with_credentials(credentials) \  
        .with_region(CodeArtsDeployRegion.value_of("<YOUR REGION>")) \  
        .build()  
  
    try:  
        request = MoveAppGroupsRequest()  
        request.project_id = "{project_id}"  
        request.body = MoveAppGroupsRequestBody(  
            movement=1,  
            id="a958794f9f4a24a96950c9cb279a4d"  
        )  
        response = client.move_app_groups(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"  
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).
```

```
Build()

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.MoveAppGroupsRequest{}
request.ProjectId = "{project_id}"
request.Body = &model.MoveAppGroupsRequestBody{
    Movement: model.GetMoveAppGroupsRequestBodyMovementEnum().E_1,
    Id: "a958794f9f4f4a24a96950c9cb279a4d",
}
response, err := client.MoveAppGroups(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: The request is successful.

Error Codes

See [Error Codes](#).

4.4.6 Moving an Application to a Specified Group

Function

This API is used to move applications to a specified group (batch operations are supported).

Calling Method

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

URI

PUT /v1/projects/{project_id}/applications/groups/move

Table 4-255 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

Table 4-256 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-257 Request body parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Group ID
application_ids	Yes	Array of strings	Application ID list

Response Parameters

Status code: 200

Table 4-258 Response body parameters

Parameter	Type	Description
result	Array of MoveAppToGroupResult objects	Result of moving an application to a specified group. Only the list of applications that fail to be moved is returned.
status	String	Request success or failure status

Table 4-259 MoveAppToGroupResult

Parameter	Type	Description
code	String	Failed or not
application_id	String	Application ID
application_name	String	Application name
error_code	String	Error code
error_msg	String	Error message

Example Requests

```
https://{endpoint}/v1/projects/0a38ce9ba3c740c199a0f872b6163661/applications/groups/move
{
  "application_ids" : [ "a958794f9f4f4a24a96950c9cb279a4d", "a958794f9f4f4a24a96950c9cb279a4f" ],
  "group_id" : "ec3ccc617cf3405b8a6236f26223112b"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : [ ],
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

public class MoveAppToGroupSolution {

    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);

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

        MoveAppToGroupRequest request = new MoveAppToGroupRequest();
        request.withProjectId("{project_id}");
        MoveAppToGroupRequestBody body = new MoveAppToGroupRequestBody();
        List<String> listbodyApplicationIds = new ArrayList<>();
        listbodyApplicationIds.add("a958794f9f4f4a24a96950c9cb279a4d");
        listbodyApplicationIds.add("a958794f9f4f4a24a96950c9cb279a4f");
        body.withApplicationIds(listbodyApplicationIds);
        body.withGroupId("ec3ccc617cf3405b8a6236f26223112b");
        request.withBody(body);
        try {
            MoveAppToGroupResponse response = client.moveAppToGroup(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment variables and decrypted during use to ensure security.

In this example, AK and SK are stored in environment variables for authentication. Before running this example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment

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

credentials = BasicCredentials(ak, sk)

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

try:
    request = MoveAppToGroupRequest()
    request.project_id = "{project_id}"
    listApplicationIdsbody = [
        "a958794f9f4f4a24a96950c9cb279a4d",
        "a958794f9f4f4a24a96950c9cb279a4f"
    ]
    request.body = MoveAppToGroupRequestBody(
        application_ids=listApplicationIdsbody,
        group_id="ec3ccc617cf3405b8a6236f26223112b"
    )
    response = client.move_app_to_group(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

Go

```
package main
```

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

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

```
    // In this example, AK and SK are stored in environment variables for authentication. Before running this
    example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
```

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.MoveAppToGroupRequest{
        request.ProjectId = "{project_id}"
    }
    var listApplicationIdsbody = []string{
        "a958794f9f4f4a24a96950c9cb279a4d",
```



```
"a958794f9f4f4a24a96950c9cb279a4f",
}
request.Body = &model.MoveAppToGroupRequestBody{
    ApplicationIds: listApplicationIdsbody,
    GroupId: "ec3ccc617cf3405b8a6236f26223112b",
}
response, err := client.MoveAppToGroup(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: The request is successful.

Error Codes

See [Error Codes](#).

4.5 Managing Application Permissions

4.5.1 Querying the Instance-Level/Project-Level Permission Matrix of an Application

Function

This API is used to query the instance-level or project-level permission matrix of an application. If `app_id` is transferred, the instance-level permission matrix is queried. If `project_id` is transferred while `app_id` is not transferred, the project-level permission matrix is queried.

Calling Method

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

URI

GET /v3/applications/permissions

Table 4-260 Query Parameters

Parameter	Mandatory	Type	Description
app_id	No	String	Application ID
project_id	No	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

Table 4-261 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-262 Response body parameters

Parameter	Type	Description
result	Array of ApplicationPermissionVO objects	Role application permission
status	String	Request success or failure status

Table 4-263 ApplicationPermissionVO

Parameter	Type	Description
can_modify	Boolean	Whether you have the edit permission
can_delete	Boolean	Whether you have the delete permission
can_view	Boolean	Whether you have the view permission
can_execute	Boolean	Whether you have the execute permission
can_copy	Boolean	Whether you have the clone permission
can_manage	Boolean	Whether you have the manage permission, including adding, deleting, modifying, querying, executing, and modifying permissions.
can_create_env	Boolean	Whether you have the permission to create environments
can_disable	Boolean	Whether you have the disable permission
name	String	Role name
region	String	Region information
role_id	String	Role ID
role_type	String	Role type. app-creator: application creator; project: project administrator; template-customized-inst: system role; template-project-customized and project-customized: custom role

Example Requests

- This API is used to query the project-level permission matrix of an application.

https://{endpoint}/v3/applications/permissions?project_id=0a38ce9ba3c740c199a0f872b6163661

- This API is used to query the instance-level permission matrix of an application.

`https://{endpoint}/v3/applications/permissions?app_id=0a38ce9ba3c740c199a0f872b6163661`

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : [ {
    "can_copy" : true,
    "can_create_env" : true,
    "can_delete" : true,
    "can_disable" : true,
    "can_execute" : true,
    "can_manage" : true,
    "can_modify" : true,
    "can_view" : true,
    "name" : "App creator",
    "region" : "region-a",
    "role_id" : "0",
    "role_type" : "app-creator"
  }, {
    "can_copy" : true,
    "can_create_env" : true,
    "can_delete" : true,
    "can_disable" : true,
    "can_execute" : true,
    "can_manage" : true,
    "can_modify" : true,
    "can_view" : true,
    "name" : "Project Admin",
    "region" : "region-a",
    "role_id" : "2e510051361942a8b7ecea00144172b3",
    "role_type" : "project"
  } ],
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ListApplicationPermissionsSolution {

    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);

CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
    .build();
ListApplicationPermissionsRequest request = new ListApplicationPermissionsRequest();
try {
    ListApplicationPermissionsResponse response = client.listApplicationPermissions(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

coding: utf-8

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListApplicationPermissionsRequest()
        response = client.list_application_permissions(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListApplicationPermissionsRequest{}
    response, err := client.ListApplicationPermissions(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: The request is successful.

Error Codes

See [Error Codes](#).

4.5.2 Modifying Application Permissions in Batches

Function

This API is used to modify application permissions in batches.

Calling Method

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

URI

PUT /v3/applications/permissions

Request Parameters

Table 4-264 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-265 Request body parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
application_ids	Yes	Array of strings	Application list

Parameter	Mandatory	Type	Description
roles	Yes	Array of AppPermission objects	Role permissions

Table 4-266 AppPermission

Parameter	Mandatory	Type	Description
dev_role_id	Yes	String	Role ID
can_modify	Yes	Boolean	Whether you have the edit permission
can_delete	Yes	Boolean	Whether you have the delete permission
can_view	Yes	Boolean	Whether you have the view permission
can_execute	Yes	Boolean	Whether you have the execute permission
can_copy	Yes	Boolean	Whether you have the clone permission
can_manage	Yes	Boolean	Whether you can manage permissions
can_create_env	Yes	Boolean	Whether you have the permission to create environments
can_disable	Yes	Boolean	Whether you have the disable permission

Response Parameters

Status code: 200

Table 4-267 Response body parameters

Parameter	Type	Description
status	String	Request success or failure status

Example Requests

https://{endpoint}/v3/applications/permissions


```
{
  "application_ids" : [ "eac65c10c5c34df1824af96ec93a9eea", "3ba2ad194ff141e39b1d3d0749242858" ],
  "project_id" : "0a38ce9ba3c740c199a0f872b6163661",
  "roles" : [ {
    "dev_role_id" : "ba0d4b2e-f7e6-46a3-aece-3002ff640e73",
    "can_copy" : true,
    "can_create_env" : true,
    "can_delete" : true,
    "can_disable" : true,
    "can_execute" : true,
    "can_manage" : true,
    "can_modify" : true,
    "can_view" : true
  } ]
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

public class BatchUpdateApplicationPermissionsSolution {

    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);

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

        BatchUpdateApplicationPermissionsRequest request = new
        BatchUpdateApplicationPermissionsRequest();
```

```
BatchUpdateApplicationPermissionsRequestBody body = new
BatchUpdateApplicationPermissionsRequestBody();
List<AppPermission> listbodyRoles = new ArrayList<>();
listbodyRoles.add(
    new AppPermission()
        .withDevRoleId("ba0d4b2e-f7e6-46a3-aece-3002ff640e73")
        .withCanModify(true)
        .withCanDelete(true)
        .withCanView(true)
        .withCanExecute(true)
        .withCanCopy(true)
        .withCanManage(true)
        .withCanCreateEnv(true)
        .withCanDisable(true)
);
List<String> listbodyApplicationIds = new ArrayList<>();
listbodyApplicationIds.add("eac65c10c5c34df1824af96ec93a9eea");
listbodyApplicationIds.add("3ba2ad194ff141e39b1d3d0749242858");
body.withRoles(listbodyRoles);
body.withApplicationIds(listbodyApplicationIds);
body.withProjectId("0a38ce9ba3c740c199a0f872b6163661");
request.withBody(body);
try {
    BatchUpdateApplicationPermissionsResponse response =
client.batchUpdateApplicationPermissions(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = BatchUpdateApplicationPermissionsRequest()
        listRolesbody = [
```

```
        AppPermission(  
            dev_role_id="ba0d4b2e-f7e6-46a3-aece-3002ff640e73",  
            can_modify=True,  
            can_delete=True,  
            can_view=True,  
            can_execute=True,  
            can_copy=True,  
            can_manage=True,  
            can_create_env=True,  
            can_disable=True  
        )  
    ]  
    listApplicationIdsbody = [  
        "eac65c10c5c34df1824af96ec93a9eea",  
        "3ba2ad194ff141e39b1d3d0749242858"  
    ]  
    request.body = BatchUpdateApplicationPermissionsRequestBody(  
        roles=listRolesbody,  
        application_ids=listApplicationIdsbody,  
        project_id="0a38ce9ba3c740c199a0f872b6163661"  
    )  
    response = client.batch_update_application_permissions(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"  
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"  
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"  
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"  
)  
  
func main() {  
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security  
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment  
    // variables and decrypted during use to ensure security.  
    // In this example, AK and SK are stored in environment variables for authentication. Before running this  
    // example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment  
    ak := os.Getenv("CLOUD_SDK_AK")  
    sk := os.Getenv("CLOUD_SDK_SK")  
  
    auth := basic.NewCredentialsBuilder().  
        WithAk(ak).  
        WithSk(sk).  
        Build()  
  
    client := codeartsdeploy.NewCodeArtsDeployClient(  
        codeartsdeploy.CodeArtsDeployClientBuilder().  
            WithRegion(region.ValueOf("<YOUR REGION>")).  
            WithCredential(auth).  
            Build())  
  
    request := &model.BatchUpdateApplicationPermissionsRequest{}  
    var listRolesbody = []model.AppPermission{  
        {  
            DevRoleId: "ba0d4b2e-f7e6-46a3-aece-3002ff640e73",  
            CanModify: true,  
            CanDelete: true,  
            CanView: true,  
            CanExecute: true,  
        }  
    }
```

```
        CanCopy: true,
        CanManage: true,
        CanCreateEnv: true,
        CanDisable: true,
    },
}
var listApplicationIdsbody = []string{
    "eac65c10c5c34df1824af96ec93a9eea",
    "3ba2ad194ff141e39b1d3d0749242858",
}
request.Body = &model.BatchUpdateApplicationPermissionsRequestBody{
    Roles: listRolesbody,
    ApplicationIds: listApplicationIdsbody,
    ProjectId: "0a38ce9ba3c740c199a0f872b6163661",
}
response, err := client.BatchUpdateApplicationPermissions(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: The request is successful.

Error Codes

See [Error Codes](#).

4.5.3 Configuring Authentication Levels for Applications in Batches

Function

This API is used to configure the authentication level to project-level or instance-level for applications in batches.

Calling Method

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

URI

PUT /v3/applications/permission-level

Request Parameters

Table 4-268 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-269 Request body parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
permission_level	Yes	String	Application authentication level: instance and project.
application_ids	Yes	Array of strings	Application ID list

Response Parameters

Status code: 200

Table 4-270 Response body parameters

Parameter	Type	Description
status	String	Request success or failure status

Example Requests

```
https://{endpoint}/v3/applications/permission-level

{
  "application_ids" : [ "eac65c10c5c34df1824af96ec93a9eea", "3ba2ad194ff141e39b1d3d0749242858" ],
  "project_id" : "0a38ce9ba3c740c199a0f872b6163661",
  "permission_level" : "instance"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

public class BatchUpdatePermissionLevelSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        BatchUpdatePermissionLevelRequest request = new BatchUpdatePermissionLevelRequest();
        BatchUpdatePermissionLevelRequestBody body = new BatchUpdatePermissionLevelRequestBody();
        List<String> listbodyApplicationIds = new ArrayList<>();
        listbodyApplicationIds.add("eac65c10c5c34df1824af96ec93a9eea");
        listbodyApplicationIds.add("3ba2ad194ff141e39b1d3d0749242858");
        body.withApplicationIds(listbodyApplicationIds);

        body.withPermissionLevel(BatchUpdatePermissionLevelRequestBody.PermissionLevelEnum.fromValue("instan
```

```
ce"));
    body.withProjectId("0a38ce9ba3c740c199a0f872b6163661");
    request.withBody(body);
    try {
        BatchUpdatePermissionLevelResponse response = client.batchUpdatePermissionLevel(request);
        System.out.println(response.toString());
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getRequestId());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = BatchUpdatePermissionLevelRequest()
        listApplicationIdsbody = [
            "eac65c10c5c34df1824af96ec93a9eea",
            "3ba2ad194ff141e39b1d3d0749242858"
        ]
        request.body = BatchUpdatePermissionLevelRequestBody(
            application_ids=listApplicationIdsbody,
            permission_level="instance",
            project_id="0a38ce9ba3c740c199a0f872b6163661"
        )
        response = client.batch_update_permission_level(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.BatchUpdatePermissionLevelRequest{}
    var listApplicationIdsbody = []string{
        "eac65c10c5c34df1824af96ec93a9eea",
        "3ba2ad194ff141e39b1d3d0749242858",
    }
    request.Body = &model.BatchUpdatePermissionLevelRequestBody{
        ApplicationIds: listApplicationIdsbody,
        PermissionLevel:
    model.GetBatchUpdatePermissionLevelRequestBodyPermissionLevelEnum().INSTANCE,
        ProjectId: "0a38ce9ba3c740c199a0f872b6163661",
    }
    response, err := client.BatchUpdatePermissionLevel(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: The request is successful.

Error Codes

See [Error Codes](#).

4.5.4 Checking whether the current user has the permission to create applications in a project.

Function

This API is used to check whether the current user has the permission to create applications in a project.

Calling Method

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

URI

GET /v1/applications/creatable

Table 4-271 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

Table 4-272 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-273 Response body parameters

Parameter	Type	Description
result	result object	Result for whether the user has permissions to create applications
status	String	Request success or failure status

Table 4-274 result

Parameter	Type	Description
creatable	Boolean	Whether the user has permissions to create applications

Example Requests

```
https://{endpoint}/v1/applications/creatable?project_id=46e2dd65b123456798137caebae6fa6d
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "result" : {
    "creatable" : true
  },
  "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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class CheckCanCreateSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        CheckCanCreateRequest request = new CheckCanCreateRequest();
        try {
            CheckCanCreateResponse response = client.checkCanCreate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8
```

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = CheckCanCreateRequest()
        response = client.check_can_create(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CheckCanCreateRequest{}
    response, err := client.CheckCanCreate(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: The request is successful.

Error Codes

See [Error Codes](#).

4.6 Measuring Deployment Record

4.6.1 Obtaining the Application Deployment Success Rate in a Specified Project

Function

This API is used to obtain the application deployment success rate in a specified project.

Calling Method

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

URI

GET /v2/{project_id}/metrics/success-rate

Table 4-275 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Table 4-276 Query Parameters

Parameter	Mandatory	Type	Description
start_date	Yes	String	Parameter description: Left boundary (included) of the application deployment start time range. The value format is yyyy-MM-dd. For example, 2022-01-01. Constraints: This parameter is used together with end_date. The value of end_date must be later than or equal to the value of start_date. The maximum time range is one year. Value range: N/A Default value: N/A

Parameter	Mandatory	Type	Description
end_date	Yes	String	Parameter description: Right boundary (included) of the application deployment start time range. The value format is yyyy-MM-dd. For example, 2022-10-26. Constraints: This parameter is used together with start_date. The value of end_date must be later than or equal to the value of start_date. The maximum time range is one year. Value range: N/A Default value: N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-277 Response body parameters

Parameter	Type	Description
success_rate	String	Definition: Success rate (%). Value range: 0–100.
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.

Parameter	Type	Description
project_name	String	Parameter description: Project name. Value range: The value consists of 3 to 128 characters.
start_date	String	Parameter description: Left boundary (included) of the application deployment start time range. The value format is yyyy-MM-dd. For example, 2022-10-26. Value range: N/A
end_date	String	Parameter description: Right boundary (included) of the application deployment start time range. The value format is yyyy-MM-dd. For example, 2022-10-26. Value range: N/A
task_count	Integer	Parameter description: Number of queried applications. Value range: N/A
record_count	Integer	Parameter description: Number of queried application deployment records. Value range: N/A
success_record_count	Integer	Parameter description: Number of successful application deployment records. Value range: N/A

Status code: 400

Table 4-278 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Status code: 403**Table 4-279** Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description

Example Requests

This API is used to obtain the deployment success rate of the target application in a specified period.

```
https://{endpoint}/v2/89931e210b214b5892ea833712f0f5e0/metrics/success-rate?  
start_date=2022-01-01&end_date=2022-10-26
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "success_rate" : "34.09",  
  "project_id" : "89931e210b214b5892ea833712f0f5e0",  
  "project_name" : "Happy",  
  "start_date" : "2022-01-01",  
  "end_date" : "2022-10-26",  
  "task_count" : 8,  
  "record_count" : 44,  
  "success_record_count" : 15  
}
```

Status code: 400

Bad Request

```
{  
  "error_code" : "Deploy.00015002",  
  "error_msg" : "Invalid request parameter."  
}
```

Status code: 403

Forbidden

```
{  
  "error_code" : "Deploy.00011154",  
}
```

```
"error_msg" : "You do not have permissions to perform this operation."  
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;  
import com.huaweicloud.sdk.codeartsdeploy.v2.*;  
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;  
  
public class ShowProjectSuccessRateSolution {  
  
    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);  
  
        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))  
            .build();  
        ShowProjectSuccessRateRequest request = new ShowProjectSuccessRateRequest();  
        request.withProjectId("{project_id}");  
        try {  
            ShowProjectSuccessRateResponse response = client.showProjectSuccessRate(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrorMsg());  
        }  
    }  
}
```

Python

```
# coding: utf-8  
  
import os  
from huaweicloudsdkcore.auth.credentials import BasicCredentials  
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion  
from huaweicloudsdkcore.exceptions import exceptions
```

```
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowProjectSuccessRateRequest()
        request.project_id = "{project_id}"
        response = client.show_project_success_rate(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ShowProjectSuccessRateRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.ShowProjectSuccessRate(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: The request is successful.
400	Bad Request
403	Forbidden

Error Codes

See [Error Codes](#).

4.6.2 Obtaining the Application Deployment Success Rate in a Specified Application

Function

This API is used to obtain the application deployment success rate in a specified application.

Calling Method

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

URI

POST /v2/{project_id}/tasks/metrics/success-rate

Table 4-280 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

Table 4-281 Request body parameters

Parameter	Mandatory	Type	Description
start_date	Yes	String	Definition: Start time. Format: <i>yyyy-MM-dd</i> . Example: 2022-03-16. Constraints: This parameter is used together with end_date . The value of end_date must be greater than or equal to that of start_date . The interval between the start time and end time cannot exceed 366 days. Value range: N/A. Default value: N/A.

Parameter	Mandatory	Type	Description
end_date	Yes	String	Definition: End time. Format: <i>yyyy-MM-dd</i> . Example: 2022-04-15. Constraints: This parameter is used together with start_date . The value of end_date must be greater than or equal to that of start_date . The interval between the start time and end time cannot exceed 366 days. Value range: N/A. Default value: N/A.
task_ids	Yes	Array of strings	Definition: Task ID list. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Response Parameters

Status code: 200

Table 4-282 Response body parameters

Parameter	Type	Description
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.

Parameter	Type	Description
project_name	String	Definition: Project name. Value range: 3 to 128 characters.
start_date	String	Definition: Left boundary (included) of the application deployment start time range. Format: <i>yyyy-MM-dd</i> . Example: 2022-10-26. Value range: N/A.
end_date	String	Definition: Right boundary (included) of the application deployment start time range. Format: <i>yyyy-MM-dd</i> . Example: 2022-10-26. Value range: N/A.
tasks_success_rate	Array of TaskSuccessRate objects	Definition: Application success rate list.

Table 4-283 TaskSuccessRate

Parameter	Type	Description
task_id	String	Definition: Task ID. Value range: 32 characters, including letters and digits.
task_name	String	Definition: Application name. Value range: 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-).

Parameter	Type	Description
success_rate	String	Definition: Success rate (%). Value range: 0–100.
record_count	Integer	Definition: Number of queried application deployment records. Value range: N/A.
success_record_count	Integer	Definition: Number of successful application deployment records. Value range: N/A.

Example Requests

```
https://{endpoint}/v2/89931e210b214b5892ea833712f0f5e0/tasks/metrics/success-rate  
  
{  
  "start_date" : "2022-01-01",  
  "end_date" : "2022-10-26",  
  "task_ids" : [ "5bf0a54f36b04ddda7b94470fee39307", "b6d20b703ffe4a04bc68790ddabf6ab7" ]  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "project_id" : "89931e210b214b5892ea833712f0f5e0",  
  "project_name" : "Happy",  
  "start_date" : "2022-01-01",  
  "end_date" : "2022-10-26",  
  "tasks_success_rate" : [ {  
    "task_id" : "5bf0a54f36b04ddda7b94470fee39307",  
    "task_name" : "happy482 Health Test Through URLs",  
    "success_rate" : "0",  
    "record_count" : 8,  
    "success_record_count" : 0  
  }, {  
    "task_id" : "b6d20b703ffe4a04bc68790ddabf6ab7",  
    "task_name" : "happy486 Start/Stop Tomcat",  
    "success_rate" : "14.29",  
    "record_count" : 14,  
    "success_record_count" : 2  
  } ]  
}
```


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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

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

public class ListTaskSuccessRateSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListTaskSuccessRateRequest request = new ListTaskSuccessRateRequest();
        request.withProjectId("{project_id}");
        TasksSuccessRateQuery body = new TasksSuccessRateQuery();
        List<String> listbodyTaskIds = new ArrayList<>();
        listbodyTaskIds.add("5bf0a54f36b04ddda7b94470fee39307");
        listbodyTaskIds.add("b6d20b703ffe4a04bc68790ddabf6ab7");
        body.withTaskIds(listbodyTaskIds);
        body.withEndDate("2022-10-26");
        body.withStartDate("2022-01-01");
        request.withBody(body);
        try {
            ListTaskSuccessRateResponse response = client.listTaskSuccessRate(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListTaskSuccessRateRequest()
        request.project_id = "{project_id}"
        listTaskIdsbody = [
            "5bf0a54f36b04ddda7b94470fee39307",
            "b6d20b703ffe4a04bc68790ddabf6ab7"
        ]
        request.body = TasksSuccessRateQuery(
            task_ids=listTaskIdsbody,
            end_date="2022-10-26",
            start_date="2022-01-01"
        )
        response = client.list_task_success_rate(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
```

```
WithSk(sk).
Build()

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListTaskSuccessRateRequest{}
request.ProjectId = "{project_id}"
var listTaskIdsbody = []string{
    "5bf0a54f36b04ddda7b94470fee39307",
    "b6d20b703ffe4a04bc68790ddabf6ab7",
}
request.Body = &model.TasksSuccessRateQuery{
    TaskIds: listTaskIdsbody,
    EndDate: "2022-10-26",
    StartDate: "2022-01-01",
}
response, err := client.ListTaskSuccessRate(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: The request is successful.

Error Codes

See [Error Codes](#).

4.7 Managing Environments

4.7.1 Creating an Environment for an Application

Function

This API is used to create an environment for an application.

Calling Method

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

URI

POST /v1/applications/{application_id}/environments

Table 4-284 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Definition: Application ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-285 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-286 Request body parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
name	Yes	String	Definition: Environment name. Constraints: N/A. Value range: 3 to 128 characters, including letters, digits, underscores (_), and hyphens (-). Default value: N/A.

Parameter	Mandatory	Type	Description
deploy_type	Yes	Integer	Definition: Deployment type. Constraints: N/A. Value range: • 0: Host type. • 1: Kubernetes type. Default value: 0.
os	Yes	String	Definition: OSs. Constraints: N/A. Value range: • windows: Windows OS. • linux: Linux OS. Default value: N/A.
description	No	String	Definition: Environment description. Constraints: N/A. Value range: Max. 500 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-287 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
id	String	Definition: Environment ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://{endpoint}/v1/applications/43943381f7764c52baae8e697720873f/environments
{
  "project_id" : "55837d272adf4eee90319800e2da6961",
  "name" : "EnvironmentName",
  "deploy_type" : 0,
  "description" : "Environment Description",
  "os" : "linux"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status" : "success",
  "id" : "140ca97e701d4c4c93c5932d5bdb32ec"
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;
```

```
public class CreateEnvironmentSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateEnvironmentRequest request = new CreateEnvironmentRequest();
        request.withApplicationId("{application_id}");
        EnvironmentRequestBody body = new EnvironmentRequestBody();
        body.withDescription("Environment Description");
        body.withOs(EnvironmentRequestBody.OsEnum.fromValue("linux"));
        body.withDeployType(0);
        body.withName("EnvironmentName");
        body.withProjectId("55837d272adf4eee90319800e2da6961");
        request.withBody(body);
        try {
            CreateEnvironmentResponse response = client.createEnvironment(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

    client = CodeArtsDeployClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(CodeArtsDeployRegion.value_of("<YOUR REGION>")) \
```



```
.build()

try:
    request = CreateEnvironmentRequest()
    request.application_id = "{application_id}"
    request.body = EnvironmentRequestBody(
        description="Environment Description",
        os="linux",
        deploy_type=0,
        name="EnvironmentName",
        project_id="55837d272adf4eee90319800e2da6961"
    )
    response = client.create_environment(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CreateEnvironmentRequest{}
    request.ApplicationId = "{application_id}"
    descriptionEnvironmentRequestBody := "Environment Description"
    request.Body = &model.EnvironmentRequestBody{
        Description: &descriptionEnvironmentRequestBody,
        Os: model.GetEnvironmentRequestBodyOsEnum().LINUX,
        DeployType: int32(0),
        Name: "EnvironmentName",
        ProjectId: "55837d272adf4eee90319800e2da6961",
    }
    response, err := client.CreateEnvironment(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: The request is successful.

Error Codes

See [Error Codes](#).

4.7.2 Querying an Environment List of an Application

Function

This API is used to query an environment list of an application.

Calling Method

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

URI

GET /v1/applications/{application_id}/environments

Table 4-288 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Definition: Application ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Table 4-289 Query Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A
page_index	No	Integer	Definition: Page number, indicating that the query starts from this page. Constraints: N/A. Value range: [1–50]. Default value: N/A.
page_size	No	Integer	Definition: Number of records displayed on each page. Constraints: N/A. Value range: [1–100]. Default value: N/A.

Parameter	Mandatory	Type	Description
name	No	String	Definition: Name of the environment to be queried. Constraints: N/A. Value range: Max. 128 characters. Default value: N/A.
sort_key	No	String	Definition Sorting field. Constraints N/A Range • NAME: Sort by environment name. • USER_NAME: Sort by username. • CREATED_TIME: Sort by creation time. • NICK_NAME: Sort by user nickname. Default value CREATED_TIME
sort_dir	No	String	Definition Sorting order. Constraints N/A Range • DESC: Descending order. • ASC: Ascending order. Default value DESC

Request Parameters

Table 4-290 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-291** Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
total	Integer	Definition: Number of environments that match requirements. Value range: 0–100.
result	Array of EnvironmentDetail objects	Definition: Environment list information.

Table 4-292 EnvironmentDetail

Parameter	Type	Description
id	String	Definition: Environment ID. Value range: 32 characters, including letters and digits.
name	String	Definition: Environment name. Value range: N/A.
description	String	Definition: Environment description. Value range: N/A.
os	String	Definition: OS of environments. Value range: • window: Windows OS. • linux: Linux OS.
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
nick_name	String	Definition Nickname of the environment creator. Range String. 1 to 30 characters.
deploy_type	Integer	Definition: Deployment type. Value range: • 0: Host type. • 1: Kubernetes type.

Parameter	Type	Description
created_time	String	Definition: Environment creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
instance_count	Integer	Definition: Number of host instances in the environment. Value range: N/A.
created_by	UserInfo object	Definition: Information about the environment creator, including the user ID and username.
permission	EnvironmentPermissionDetail object	Definition: Environment operation permission matrix of the current user.

Table 4-293 UserInfo

Parameter	Type	Description
user_id	String	Parameter description: User ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.
user_name	String	Parameter description: Username. Value range: The value consists of 1-255 characters. Only letters and digits are allowed.

Table 4-294 EnvironmentPermissionDetail

Parameter	Type	Description
can_delete	Boolean	Definition: Whether you have the permission to delete environments. Value range: • true: Yes. • false: No.
can_deploy	Boolean	Definition: Whether you have the permission to deploy environments. Value range: • true: Yes. • false: No.
can_edit	Boolean	Definition: Whether you have permission to edit environments. Value range: • true: Yes. • false: No.
can_manage	Boolean	Definition: Whether you have permission to edit the environment permission matrix. Value range: • true: Yes. • false: No.
can_view	Boolean	Definition: Whether you have permission to view environments. Value range: • true: Yes. • false: No.

Example Requests

```
https://{endpoint}/v1/applications/43943381f7764c52baae8e697720873f/environments?  
project_id=55837d272adf4eee90319800e2da6961
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status": "success",
  "total": 1,
  "result": [ {
    "created_by": {
      "user_id": "6baa7454109d47c192f22078fe6cda20",
      "user_name": "devcloud_devcloud_l00490255_01"
    },
    "created_time": "2023-06-20 16:53:29.0",
    "deploy_type": 0,
    "description": "",
    "id": "a0a2274acc4f482bb2ecf49f865879fa",
    "name": "casdasd",
    "project_id": "55837d272adf4eee90319800e2da6961",
    "nick_name": "A/B Side Account",
    "instance_count": 1,
    "os": "linux",
    "permission": {
      "can_delete": true,
      "can_deploy": true,
      "can_edit": true,
      "can_manage": true,
      "can_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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ListEnvironmentsSolution {

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

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

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListEnvironmentsRequest request = new ListEnvironmentsRequest();
        request.withApplicationId("{application_id}");
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ListEnvironmentsRequest()
        request.application_id = "{application_id}"
        response = client.list_environments(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

func main() {
    // The AK and SK used for authentication are hard-coded or stored in plaintext, which has great security
    // risks. It is recommended that the AK and SK be stored in ciphertext in configuration files or environment
```

```
variables and decrypted during use to ensure security.
// In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ListEnvironmentsRequest{}
request.ApplicationId = "{application_id}"
response, err := client.ListEnvironments(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: The request is successful.

Error Codes

See [Error Codes](#).

4.7.3 Editing an Environment in an Application

Function

This API is used to edit an environment in an application.

Calling Method

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

URI

PUT /v1/applications/{application_id}/environments/{environment_id}

Table 4-295 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Application ID
environment_id	Yes	String	Environment ID

Request Parameters

Table 4-296 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-297 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Environment name
description	No	String	Environment description

Response Parameters

Status code: 200

Table 4-298 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
id	String	Definition: Environment ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://{endpoint}/v1/applications/8ddf0566c1784da29faac80516fa8425/environments/  
54e5b8b0d10148cc96142ac9d6c1c1f6  
  
{  
  "description" : "description",  
  "name" : "newEnvironmentName"  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "id" : "54e5b8b0d10148cc96142ac9d6c1c1f6"  
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;  
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
```

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

public class UpdateEnvironmentSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        UpdateEnvironmentRequest request = new UpdateEnvironmentRequest();
        request.withApplicationId("{application_id}");
        request.withEnvironmentId("{environment_id}");
        EnvironmentRequest body = new EnvironmentRequest();
        body.withDescription("description");
        body.withName("newEnvironmentName");
        request.withBody(body);
        try {
            UpdateEnvironmentResponse response = client.updateEnvironment(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

```
.with_region(CodeArtsDeployRegion.value_of("<YOUR REGION>")) \
.build()

try:
    request = UpdateEnvironmentRequest()
    request.application_id = "{application_id}"
    request.environment_id = "{environment_id}"
    request.body = EnvironmentRequest(
        description="description",
        name="newEnvironmentName"
    )
    response = client.update_environment(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.UpdateEnvironmentRequest{}
    request.ApplicationId = "{application_id}"
    request.EnvironmentId = "{environment_id}"
    descriptionEnvironmentRequest := "description"
    nameEnvironmentRequest := "newEnvironmentName"
    request.Body = &model.EnvironmentRequest{
        Description: &descriptionEnvironmentRequest,
        Name: &nameEnvironmentRequest,
    }
    response, err := client.UpdateEnvironment(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: The request is successful.

Error Codes

See [Error Codes](#).

4.7.4 Deleting an Environment from an Application

Function

This API is used to delete an environment in an application.

Calling Method

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

URI

DELETE /v1/applications/{application_id}/environments/{environment_id}

Table 4-299 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Definition: Application ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Parameter	Mandatory	Type	Description
environment_id	Yes	String	Definition: Environment ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-300 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-301 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
id	String	Definition: Environment ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://endpoint/v1/applications/43943381f7764c52baae8e697720873f/environments/  
140ca97e701d4c4c93c5932d5bdb32ec
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "id" : "140ca97e701d4c4c93c5932d5bdb32ec"  
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;  
import com.huaweicloud.sdk.codeartsdeploy.v2.*;  
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;  
  
public class DeleteEnvironmentSolution {  
  
    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);

CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
    .build();
DeleteEnvironmentRequest request = new DeleteEnvironmentRequest();
request.withApplicationId("{application_id}");
request.withEnvironmentId("{environment_id}");
try {
    DeleteEnvironmentResponse response = client.deleteEnvironment(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

coding: utf-8

```
import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteEnvironmentRequest()
        request.application_id = "{application_id}"
        request.environment_id = "{environment_id}"
        response = client.delete_environment(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteEnvironmentRequest{}
    request.ApplicationId = "{application_id}"
    request.EnvironmentId = "{environment_id}"
    response, err := client.DeleteEnvironment(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: The request is successful.

Error Codes

See [Error Codes](#).

4.7.5 Querying Environment Details

Function

This API is used to query environment details.

Calling Method

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

URI

GET /v1/applications/{application_id}/environments/{environment_id}

Table 4-302 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Definition: Application ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
environment_id	Yes	String	Definition: Environment ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-303 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-304 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
result	EnvironmentDetailResponse object	Definition: Environment details.

Table 4-305 EnvironmentDetailResponse

Parameter	Type	Description
id	String	Definition: Environment ID. Value range: 32 characters, including letters and digits.
name	String	Definition Environment name. Range The value can contain 3 to 128 characters, including only letters, digits, hyphens (-), underscores (_), and periods (.).
description	String	Definition Environment description. Range Max. 500 characters.
os	String	Definition: OS of environments. Value range: • window: Windows OS. • linux: Linux OS.
project_id	String	Definition Project ID. For details, see Obtaining a Project ID . Range The value contains 32 characters. Only letters and digits are supported.
nick_name	String	Definition Nickname of the environment creator. Range String. 1 to 30 characters.
deploy_type	Integer	Definition: Deployment type. Value range: • 0: Host type. • 1: Kubernetes type.

Parameter	Type	Description
instance_count	Integer	Definition Number of host instances in the environment. Range Max. 200.
created_time	String	Definition: Environment creation time. Format: <i>yyyy-MM-dd HH:mm:ss</i> . Value range: N/A.
created_by	UserInfo object	Definition: Information about the environment creator, including the user ID and username.
permission	EnvironmentPermissionDetail object	Definition: Environment operation permission matrix of the current user.

Table 4-306 UserInfo

Parameter	Type	Description
user_id	String	Parameter description: User ID. Value range: The value consists of 32 characters. Only letters and digits are allowed.
user_name	String	Parameter description: Username. Value range: The value consists of 1-255 characters. Only letters and digits are allowed.

Table 4-307 EnvironmentPermissionDetail

Parameter	Type	Description
can_delete	Boolean	Definition: Whether you have the permission to delete environments. Value range: • true: Yes. • false: No.
can_deploy	Boolean	Definition: Whether you have the permission to deploy environments. Value range: • true: Yes. • false: No.
can_edit	Boolean	Definition: Whether you have permission to edit environments. Value range: • true: Yes. • false: No.
can_manage	Boolean	Definition: Whether you have permission to edit the environment permission matrix. Value range: • true: Yes. • false: No.
can_view	Boolean	Definition: Whether you have permission to view environments. Value range: • true: Yes. • false: No.

Example Requests

```
https://{endpoint}/v1/applications/43943381f7764c52baae8e697720873f/environments/  
140ca97e701d4c4c93c5932d5bdb32ec
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "status": "success",
  "result": {
    "created_by": {
      "user_id": "6baa7454109d47c192f22078fe6cda20",
      "user_name": "devcloud_devcloud_l00490255_01"
    },
    "created_time": "2023-06-20 16:53:29.0",
    "deploy_type": 0,
    "description": "",
    "id": "140ca97e701d4c4c93c5932d5bdb32ec",
    "name": "casdasd",
    "nick_name": "A/B Side Account",
    "os": "linux",
    "permission": {
      "can_delete": true,
      "can_deploy": true,
      "can_edit": true,
      "can_manage": true,
      "can_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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class ShowEnvironmentDetailSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ShowEnvironmentDetailRequest request = new ShowEnvironmentDetailRequest();
        request.withApplicationId("{application_id}");
        request.withEnvironmentId("{environment_id}");
        try {
            ShowEnvironmentDetailResponse response = client.showEnvironmentDetail(request);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

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

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ShowEnvironmentDetailRequest()
        request.application_id = "{application_id}"
        request.environment_id = "{environment_id}"
        response = client.show_environment_detail(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

Go

```
package main

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

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

```
// In this example, AK and SK are stored in environment variables for authentication. Before running this
example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment
ak := os.Getenv("CLOUD_SDK_AK")
sk := os.Getenv("CLOUD_SDK_SK")

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

client := codeartsdeploy.NewCodeArtsDeployClient(
    codeartsdeploy.CodeArtsDeployClientBuilder().
        WithRegion(region.ValueOf("<YOUR REGION>")).
        WithCredential(auth).
        Build())

request := &model.ShowEnvironmentDetailRequest{}
request.ApplicationId = "{application_id}"
request.EnvironmentId = "{environment_id}"
response, err := client.ShowEnvironmentDetail(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: The request is successful.

Error Codes

See [Error Codes](#).

4.7.6 Importing a Host to an Environment

Function

This API is used to import a host to an environment.

Calling Method

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

URI

POST /v1/applications/{application_id}/environments/{environment_id}/hosts/
import

Table 4-308 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Definition: Application ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
environment_id	Yes	String	Definition: Environment ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-309 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-310 Request body parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Definition: Host cluster ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
host_ids	Yes	Array of strings	Definition: ID list of the hosts to be imported. Constraints: N/A.

Response Parameters

Status code: 200

Table 4-311 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • failed: Failed.
result	Array of strings	Definition: ID list of the imported hosts.

Example Requests

```
https://{endpoint}/v1/applications/43943381f7764c52baae8e697720873f/environments/  
666ec038a53c4b9f899823747a7130e8/hosts/import  
  
{  
  "group_id" : "4b0cb2f098174d38b0c15645c13eae6f",  
  "host_ids" : [ "8e1eb7f010d4442ca150e3a1a5d96d94" ]  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",  
  "result" : [ "8e1eb7f010d4442ca150e3a1a5d96d94" ]  
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;  
import com.huaweicloud.sdk.codeartsdeploy.v2.*;  
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class ImportHostToEnvironmentSolution {  
  
    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);

CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
    .withCredential(auth)
    .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
    .build();
ImportHostToEnvironmentRequest request = new ImportHostToEnvironmentRequest();
request.withApplicationId("{application_id}");
request.withEnvironmentId("{environment_id}");
ImportHostToEnvironmentRequestBody body = new ImportHostToEnvironmentRequestBody();
List<String> listbodyHostIds = new ArrayList<>();
listbodyHostIds.add("8e1eb7f010d4442ca150e3a1a5d96d94");
body.withHostIds(listbodyHostIds);
body.withGroupId("4b0cb2f098174d38b0c15645c13eae6f");
request.withBody(body);
try {
    ImportHostToEnvironmentResponse response = client.importHostToEnvironment(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = ImportHostToEnvironmentRequest()
        request.application_id = "{application_id}"
```



```
request.environment_id = "{environment_id}"
listHostIdsbody = [
    "8e1eb7f010d4442ca150e3a1a5d96d94"
]
request.body = ImportHostToEnvironmentRequestBody(
    host_ids=listHostIdsbody,
    group_id="4b0cb2f098174d38b0c15645c13eae6f"
)
response = client.import_host_to_environment(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ImportHostToEnvironmentRequest{}
    request.ApplicationId = "{application_id}"
    request.EnvironmentId = "{environment_id}"
    var listHostIdsbody = []string{
        "8e1eb7f010d4442ca150e3a1a5d96d94",
    }
    request.Body = &model.ImportHostToEnvironmentRequestBody{
        HostIds: listHostIdsbody,
        GroupId: "4b0cb2f098174d38b0c15645c13eae6f",
    }
    response, err := client.ImportHostToEnvironment(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: The request is successful.

Error Codes

See [Error Codes](#).

4.7.7 Deleting a Host from an Environment

Function

This API is used to delete a host from an environment.

Calling Method

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

URI

DELETE /v1/applications/{application_id}/environments/{environment_id}/{host_id}

Table 4-312 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Definition: Deployment application ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Parameter	Mandatory	Type	Description
environment_id	Yes	String	Definition: Environment ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.
host_id	Yes	String	Definition: Host ID. Constraints: N/A. Value range: 32 characters, including letters and digits. Default value: N/A.

Request Parameters

Table 4-313 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-314 Response body parameters

Parameter	Type	Description
status	String	Definition: Request status (successful or failed). Value range: • success: Successful. • error: Failed.
result	String	Definition: Host ID. Value range: 32 characters, including letters and digits.

Example Requests

```
https://{endpoint}/v1/applications/7de12f87232e46a79235f52d033b8688/environments/  
25e30c17f81042ba9a1a3383da39a7fc/c5fa45c92c0849229d003d98f52617eb
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "status" : "success",
```

```
"result" : "c5fa45c92c0849229d003d98f52617eb"  
}
```

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.codeartsdeploy.v2.region.CodeArtsDeployRegion;  
import com.huaweicloud.sdk.codeartsdeploy.v2.*;  
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;  
  
public class DeleteHostFromEnvironmentSolution {  
  
    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);  
  
        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))  
            .build();  
  
        DeleteHostFromEnvironmentRequest request = new DeleteHostFromEnvironmentRequest();  
        request.withApplicationId("{application_id}");  
        request.withEnvironmentId("{environment_id}");  
        request.withHostId("{host_id}");  
        try {  
            DeleteHostFromEnvironmentResponse response = client.deleteHostFromEnvironment(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {  
            e.printStackTrace();  
            System.out.println(e.getHttpStatusCode());  
            System.out.println(e.getRequestId());  
            System.out.println(e.getErrorCode());  
            System.out.println(e.getErrMsg());  
        }  
    }  
}
```

Python

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

```
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

    credentials = BasicCredentials(ak, sk)

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

    try:
        request = DeleteHostFromEnvironmentRequest()
        request.application_id = "{application_id}"
        request.environment_id = "{environment_id}"
        request.host_id = "{host_id}"
        response = client.delete_host_from_environment(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.DeleteHostFromEnvironmentRequest{}
    request.ApplicationId = "{application_id}"
    request.EnvironmentId = "{environment_id}"
    request.HostId = "{host_id}"
```

```
response, err := client.DeleteHostFromEnvironment(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: The request is successful.

Error Codes

See [Error Codes](#).

4.7.8 Querying a Host List in an Environment

Function

This API is used to query a host list in an environment.

Calling Method

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

URI

GET /v1/applications/{application_id}/environments/{environment_id}/hosts

Table 4-315 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Application ID
environment_id	Yes	String	Environment ID

Table 4-316 Query Parameters

Parameter	Mandatory	Type	Description
key_field	No	String	Fuzzy search by host name and IP address
as_proxy	No	Boolean	Proxy or not. true: Proxy.
page_index	No	Integer	Page number
page_size	No	Integer	Number of records on each page

Request Parameters

Table 4-317 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-318 Response body parameters

Parameter	Type	Description
status	String	Definition Request status (successful or failed). Range • success: Successful. • error: Failed.

Parameter	Type	Description
total	Integer	Definition Total number. Range Digits only.
result	Array of EnvironmentHostInfo objects	Definition Host information list in the environment. Range N/A

Table 4-319 EnvironmentHostInfo

Parameter	Type	Description
host_id	String	Definition Host ID. Range The value contains 32 characters. Only letters and digits are allowed.
ip	String	Definition Host IP address, for example, 161.17.101.12. Range N/A
port	Integer	Definition SSH port, for example, 22. Range N/A
permission	EnvironmentHostPermission object	Definition Environment permission details. Range N/A
group_id	String	Definition Host cluster ID. Range The value contains 32 characters. Only letters and digits are allowed.

Parameter	Type	Description
host_name	String	Definition Host name. Range N/A
as_proxy	Boolean	Definition Agent or not. Range • true: Yes. • false: No.
proxy_host_id	String	Definition Agent ID. Range The value contains 32 characters. Only letters and digits are allowed.
proxy_host_name	String	Definition Agent name. Range N/A
owner_id	String	Definition Host owner ID. Range The value contains 32 characters. Only letters and digits are allowed.
owner_name	String	Definition Host owner name. Range N/A
connection_status	String	Definition Connectivity status. Range N/A
lastest_connection_time	String	Definition Last connection time. Range N/A

Parameter	Type	Description
connection_result	String	Definition Connectivity verification result. Range N/A
nick_name	String	Definition Creator nickname. Range String. 1 to 30 characters.

Table 4-320 EnvironmentHostPermission

Parameter	Type	Description
can_delete	Boolean	Definition Whether granted the delete permission. Range • true: The delete permission is granted. • false: The delete permission is not granted.
can_deploy	Boolean	Definition Whether granted the deployment permission. Range • true: The deployment permission is granted. • false: The deployment permission is not granted.
can_edit	Boolean	Definition Whether granted the edit permission. Range • true: The edit permission is granted. • false: The edit permission is not granted.

Parameter	Type	Description
can_manage	Boolean	Definition Whether granted the permission management control. Range • true: The permission management control is granted. • false: The permission management control is not granted.
can_view	Boolean	Definition Whether granted the view permission. Range • true: The view permission is granted. • false: The view permission is not granted.

Example Requests

https://{endpoint}/v1/applications/e1d7b7388b4641e2a027f5673fd6093b/environments/82c4eb8c522d42969a3da30123e1ecba/hosts?page_index=1&page_size=10&key_field=

Example Responses

Status code: 200
OK: The request is successful.

```
{
  "status": "success",
  "result": [ {
    "ip": "100.85.172.31",
    "port": 22,
    "permission": {
      "can_view": true,
      "can_edit": true,
      "can_delete": true,
      "can_deploy": true,
      "can_manage": true
    },
    "host_id": "13c208e61c9541ab9895f450fd1cbf7c",
    "host_name": "test",
    "as_proxy": false,
    "group_id": "2a8c2da888c04a5eaff10d0787c90ea4",
    "proxy_host_id": "",
    "proxy_host_name": null,
    "owner_id": "6baa7454109d47c192f22078fe6cda20",
    "owner_name": "devcloud_devcloud_l00490255_01",
    "nick_name": "devcloud_devcloud_l00490255_01",
    "connection_status": "failed",
    "connection_result": "Connection failed",
    "lastest_connection_time": "2024-05-31 14:47:52"
  } ],
  "total": 1
}
```

SDK Sample Code

The SDK sample code is as follows.

Java

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

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

public class ListEnvironmentHostsSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        ListEnvironmentHostsRequest request = new ListEnvironmentHostsRequest();
        request.withApplicationId("{application_id}");
        request.withEnvironmentId("{environment_id}");
        try {
            ListEnvironmentHostsResponse response = client.listEnvironmentHosts(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

if __name__ == "__main__":
```

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

credentials = BasicCredentials(ak, sk)

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

try:
    request = ListEnvironmentHostsRequest()
    request.application_id = "{application_id}"
    request.environment_id = "{environment_id}"
    response = client.list_environment_hosts(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.ListEnvironmentHostsRequest{}
    request.ApplicationId = "{application_id}"
    request.EnvironmentId = "{environment_id}"
    response, err := client.ListEnvironmentHosts(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: The request is successful.

Error Codes

See [Error Codes](#).

4.8 Managing Host Cluster Permissions

4.8.1 Querying the Host Cluster Permission Matrix

Function

This API is used to query the permission matrix of a host cluster by ID.

Calling Method

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

URI

GET /v2/host-groups/{group_id}/permissions

Table 4-321 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Host cluster ID

Request Parameters

Table 4-322 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-323 Response body parameters

Parameter	Type	Description
[items]	Array of DevUcClusterPermission objects	Host cluster permission matrix

Table 4-324 DevUcClusterPermission

Parameter	Type	Description
region	String	Region information
role_id	String	Role ID
devuc_role_id_list	Array of strings	Role ID list
name	String	Role name
group_id	String	Host cluster ID
can_view	Boolean	Whether you have the view permission
can_edit	Boolean	Whether you have the edit permission

Parameter	Type	Description
can_delete	Boolean	Whether you have the delete permission
can_add_host	Boolean	Whether you have the permission to add hosts
can_manage	Boolean	Whether you can manage permissions
can_copy	Boolean	Whether you have the clone permission
create_time	String	Creation time
update_time	String	Modification time
role_type	String	Role type. project-customized: Custom roles. template-project-customized: System-defined roles. template-customized-inst: System roles. cluster-creator: Cluster creator. project_admin: Project creator.

Example Requests

https://{endpoint}/v2/host-groups/2a8c2da888c04a5eaff10d0787c90ea4/permissions

Example Responses

Status code: 200

OK: The request is successful.

```
[ {
  "region" : "region",
  "name" : "Host cluster creator",
  "role_id" : "0",
  "devuc_role_id_list" : null,
  "group_id" : "2a8c2da888c04a5eaff10d0787c90ea4",
  "can_view" : true,
  "can_edit" : true,
  "can_delete" : true,
  "can_add_host" : true,
  "can_manage" : true,
  "can_copy" : true,
  "create_time" : "2024-05-31 14:32:59.0",
  "update_time" : "2024-05-31 14:32:59.0",
  "role_type" : "cluster-creator"
}, {
  "region" : "region",
  "name" : "Project admin",
  "role_id" : "a2e65d2647574f8491cac659a0249d24",
  "devuc_role_id_list" : null,
  "group_id" : "2a8c2da888c04a5eaff10d0787c90ea4",
  "can_view" : true,
  "can_edit" : true,
  "can_delete" : true,
  "can_add_host" : true,
  "can_manage" : true,
  "can_copy" : true,
```

```
"create_time" : "2024-05-31 14:32:59.0",  
"update_time" : "2024-05-31 14:32:59.0",  
"role_type" : "project"  
}]
```

Status Codes

Status Code	Description
200	OK: The request is successful.

Error Codes

See [Error Codes](#).

4.8.2 Modifying the Host Cluster Permission Matrix

Function

This API is used to modify the permission matrix of a host cluster by ID.

Calling Method

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

URI

PUT /v2/host-groups/{group_id}/permissions

Table 4-325 Path Parameters

Parameter	Mandatory	Type	Description
group_id	Yes	String	Host cluster ID

Request Parameters

Table 4-326 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-327 Request body parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID
role_id	Yes	String	Role ID
permission_name	Yes	String	Permission name: can_view, can_edit, can_delete, can_add_host, can_manage, and can_copy.
permission_value	Yes	Boolean	true: Authorized. false: Not authorized.

Response Parameters

Status code: 200

Table 4-328 Response body parameters

Parameter	Type	Description
region	String	Region information
role_id	String	Role ID
devuc_role_id_list	Array of strings	Role ID list
name	String	Role name
group_id	String	Host cluster ID
can_view	Boolean	Whether you have the view permission
can_edit	Boolean	Whether you have the edit permission
can_delete	Boolean	Whether you have the delete permission
can_add_host	Boolean	Whether you have the permission to add hosts
can_manage	Boolean	Whether you can manage permissions
can_copy	Boolean	Whether you have the clone permission
create_time	String	Creation time
update_time	String	Modification time
role_type	String	Role type. project-customized: Custom roles. template-project-customized: System-defined roles. template-customized-inst: System roles. cluster-creator: Cluster creator. project_admin: Project creator.

Example Requests

```
https://{endpoint}/v2/host-groups/2a8c2da88c04a5eaff10d0787c90ea4/permissions
{
  "permission_name" : "can_delete",
  "permission_value" : true,
  "project_id" : "7e6caf3cd9a64d5b8ea451e38221892e",
  "role_id" : "c869ebc4000c4bb9a2605c4020450ab4"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "region" : "region",
```

```
"name" : null,  
"role_id" : "0",  
"devuc_role_id_list" : null,  
"group_id" : "2a8c2da888c04a5eaff10d0787c90ea4",  
"can_view" : true,  
"can_edit" : true,  
"can_delete" : true,  
"can_add_host" : true,  
"can_manage" : true,  
"can_copy" : true,  
"create_time" : null,  
"update_time" : null,  
"role_type" : "cluster-creator"  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.

Error Codes

See [Error Codes](#).

4.8.3 Checking Whether the Current User Has Permissions to Create a Host Cluster in a Project

Function

This API is used to check whether the current user has permissions to create a host cluster in a project.

Calling Method

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

URI

GET /v1/host-groups/creatable/{project_id}/permissions

Table 4-329 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition Project ID. For details, see Obtaining a Project ID . Constraints N/A Range The value contains 32 characters. Only letters and digits are supported. Default value N/A

Request Parameters

None

Response Parameters

Status code: 200

Table 4-330 Response body parameters

Parameter	Type	Description
can_created	Boolean	Whether you have permissions to create a host cluster. true: Authorized. false: Not authorized.

Example Requests

https://{endpoint}/v1/host-groups/creatable/7e6caf3cd9a64d5b8ea451e38221892e/permissions

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "can_created" : 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.codeartsdeploy.v2.region.CodeArtsDeployRegion;
import com.huaweicloud.sdk.codeartsdeploy.v2.*;
import com.huaweicloud.sdk.codeartsdeploy.v2.model.*;

public class CheckWhetherHostGroupCanBeCreatedSolution {

    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);

        CodeArtsDeployClient client = CodeArtsDeployClient.newBuilder()
            .withCredential(auth)
            .withRegion(CodeArtsDeployRegion.valueOf("<YOUR REGION>"))
            .build();
        CheckWhetherHostGroupCanBeCreatedRequest request = new
        CheckWhetherHostGroupCanBeCreatedRequest();
        request.withProjectId("{project_id}");
        try {
            CheckWhetherHostGroupCanBeCreatedResponse response =
            client.checkWhetherHostGroupCanBeCreated(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

import os
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcodeartsdeploy.v2.region.codeartsdeploy_region import CodeArtsDeployRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkcodeartsdeploy.v2 import *

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

example, set environment variables CLOUD_SDK_AK and CLOUD_SDK_SK in the local environment

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

credentials = BasicCredentials(ak, sk)

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

try:
    request = CheckWhetherHostGroupCanBeCreatedRequest()
    request.project_id = "{project_id}"
    response = client.check_whether_host_group_can_be_created(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"
    codeartsdeploy "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/codeartsdeploy/v2/region"
)

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

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

    client := codeartsdeploy.NewCodeArtsDeployClient(
        codeartsdeploy.CodeArtsDeployClientBuilder().
            WithRegion(region.ValueOf("<YOUR REGION>")).
            WithCredential(auth).
            Build())

    request := &model.CheckWhetherHostGroupCanBeCreatedRequest{}
    request.ProjectId = "{project_id}"
    response, err := client.CheckWhetherHostGroupCanBeCreated(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: The request is successful.

Error Codes

See [Error Codes](#).

4.9 Managing Environment Permissions

4.9.1 Querying Environment Permissions

Function

This API is used to query environment permissions.

Calling Method

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

URI

GET /v2/applications/{application_id}/environments/{environment_id}/permissions

Table 4-331 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Application ID
environment_id	Yes	String	Environment ID

Request Parameters

Table 4-332 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200**Table 4-333** Response body parameters

Parameter	Type	Description
[items]	Array of DevUcEnvironmentPermission objects	Permission data, which is of the list type

Table 4-334 DevUcEnvironmentPermission

Parameter	Type	Description
id	Integer	Permission ID
role_id	String	Role ID
devuc_role_id_list	Array of strings	Role ID list
role_type	String	Role type. environment-creator: environment creator; project: project administrator; template-customized-inst: system role; template-project-customized and project-customized: custom role

Parameter	Type	Description
name	String	Role name
region	String	Region information
environment_id	String	Environment ID
can_view	Boolean	Whether you have the view permission
can_edit	Boolean	Whether you have the edit permission
can_delete	Boolean	Whether you have the delete permission
can_deploy	Boolean	Whether you have the deploy permission
can_manage	Boolean	Whether you can manage permissions
create_time	String	Creation time
update_time	String	Modification time

Example Requests

https://{endpoint}/v2/applications/8ddf0566c1784da29faac80516fa8425/environments/54e5b8b0d10148cc96142ac9d6c1c1f6/permissions

Example Responses

Status code: 200

Permission data, which is of the list type

```
[ {
  "region": "region",
  "id": 99213234,
  "name": "Environment creator",
  "role_id": "0",
  "devuc_role_id_list": null,
  "environment_id": "be3e9690d6f64b23b54e79cd02c4b156",
  "can_view": true,
  "can_edit": true,
  "can_delete": true,
  "can_deploy": true,
  "can_manage": true,
  "create_time": "2024-06-21 17:23:55.0",
  "update_time": "2024-06-21 17:23:55.0",
  "role_type": "environment-creator"
}, {
  "region": "region",
  "id": 99213235,
  "name": "Project admin",
  "role_id": "a2e65d2647574f8491cac659a0249d24",
  "devuc_role_id_list": null,
  "environment_id": "be3e9690d6f64b23b54e79cd02c4b156",
  "can_view": true,
  "can_edit": true,
  "can_delete": true,
  "can_deploy": true,
  "can_manage": true,
```

```
"create_time" : "2024-06-21 17:23:55.0",  
"update_time" : "2024-06-21 17:23:55.0",  
"role_type" : "project"  
}]
```

Status Codes

Status Code	Description
200	Permission data, which is of the list type

Error Codes

See [Error Codes](#).

4.9.2 Editing Environment Permission

Function

This API is used to edit the environment permission.

Calling Method

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

URI

PUT /v2/applications/{application_id}/environments/{environment_id}/permissions

Table 4-335 Path Parameters

Parameter	Mandatory	Type	Description
application_id	Yes	String	Application ID
environment_id	Yes	String	Environment ID

Request Parameters

Table 4-336 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Definition Message body type or format. Constraints N/A Range N/A Default value application/json.
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Table 4-337 Request body parameters

Parameter	Mandatory	Type	Description
role_id	No	String	Role ID
permission_name	No	String	Permission name: can_view, can_edit, can_delete, can_deploy, and can_manage.
permission_value	No	Boolean	true: Authorized. false: Not authorized.

Response Parameters

Status code: 200

Table 4-338 Response body parameters

Parameter	Type	Description
status	String	Request success or failure status
result	DevUcEnvironmentPermission object	Updated environment permission information

Table 4-339 DevUcEnvironmentPermission

Parameter	Type	Description
id	Integer	Permission ID
role_id	String	Role ID
devuc_role_id_list	Array of strings	Role ID list
role_type	String	Role type. environment-creator: environment creator; project: project administrator; template-customized-inst: system role; template-project-customized and project-customized: custom role
name	String	Role name
region	String	Region information
environment_id	String	Environment ID
can_view	Boolean	Whether you have the view permission
can_edit	Boolean	Whether you have the edit permission
can_delete	Boolean	Whether you have the delete permission
can_deploy	Boolean	Whether you have the deploy permission
can_manage	Boolean	Whether you can manage permissions
create_time	String	Creation time
update_time	String	Modification time

Example Requests

```
https://{endpoint}/v2/applications/8ddf0566c1784da29faac80516fa8425/environments/54e5b8b0d10148cc96142ac9d6c1c1f6/permissions
{
  "permission_name" : "can_deploy",
```

```
{
  "permission_value" : true,
  "role_id" : "e72b8cebe2c6499db2b23276b3820736"
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : "success",
  "result" : {
    "region" : "region",
    "id" : null,
    "name" : null,
    "role_id" : "0",
    "devuc_role_id_list" : null,
    "environment_id" : "be3e9690d6f64b23b54e79cd02c4b156",
    "can_view" : true,
    "can_edit" : true,
    "can_delete" : true,
    "can_deploy" : true,
    "can_manage" : true,
    "create_time" : null,
    "update_time" : null,
    "role_type" : "environment-creator"
  }
}
```

Status Codes

Status Code	Description
200	OK

Error Codes

See [Error Codes](#).

4.10 Deployment Job Management

4.10.1 Querying Deployment Job Triggering Rule Settings

Function

This API is used to query the job triggering rule settings according to the deployment job ID.

Calling Method

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

URI

GET /v2/task/trigger/detail

Table 4-340 Query Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Definition : Deployment job ID. Obtain the application details by calling the API for obtaining the application details . In the response body, result.arrange_infos[0].id is the desired application details. Constraints: N/A Range: 32 characters, including letters and digits. Default Value: N/A

Request Parameters

Table 4-341 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-342 Response body parameters

Parameter	Type	Description
trigger_source	String	Definition: Scenario where a deployment job can be executed. Range: • 0: All execution requests can be executed. • 1: Execution can be triggered only by pipeline.
artifact_source_system	String	Definition: Pipeline source when a job can be executed only by the pipeline. Range: Artifact: The source information is from CodeArts Artifact.
artifact_type	String	Definition: Artifact repository type when a job can be executed only by the pipeline. Range: • generic: Release repository. • docker: Docker repository.

Example Requests

Query the job triggering rule settings according to the deployment job ID.

```
https://{endpoint}/v2/task/trigger/detail?task_id=f21d58b563e04d6c8a79d015fadeb73
```

Example Responses

Status code: 200

OK indicates that the query of the deployment job triggering rule settings is successful.

```
{  
  "trigger_source" : 1,  
  "artifact_source_system" : "Artifact",  
  "artifact_type" : "generic"  
}
```

Status Codes

Status Code	Description
200	OK indicates that the query of the deployment job triggering rule settings is successful.

Error Codes

See [Error Codes](#).

4.10.2 Rolling Back a Deployment

Function

This API is used to roll back a deployment based on its record ID.

Calling Method

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

URI

POST /v2/tasks/{task_id}/records/{record_id}/rollback

Table 4-343 Path Parameters

Parameter	Mandatory	Type	Description
task_id	Yes	String	Definition : Deployment job ID. Obtain the application details by calling the API for obtaining the application details . In the response body, result.arrange_infos[0].id is the desired application details. Constraints: N/A Range: 32 characters, including letters and digits. Default Value: N/A

Parameter	Mandatory	Type	Description
record_id	Yes	String	Definition : Deployment record ID. Obtain the historical deployment record list by calling the API for querying the historical deployment record list of the specified application under a project according to the start time and end time . In the response body, result[0].execution_id is the desired historical deployment record list. Constraints: N/A Range: 32 characters, including letters and digits. Default Value: N/A

Request Parameters

Table 4-344 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Definition : User token. Obtain a token (the value of the X-Subject-Token response header) by calling the IAM API used for Obtaining a User Token . Constraints: N/A. Value range: String. Max. 20,000 characters. Default value: N/A.

Response Parameters

Status code: 200

Table 4-345 Response body parameters

Parameter	Type	Description
id	String	Definition: Deployment record ID. Range: 32 characters, including letters and digits.
task_id	String	Definition: Deployment job ID. Range: 32 characters, including letters and digits.
job_name	String	Definition: Job name. Range: Max. 100 characters, including letters and digits.
app_component_list	Array of AppComponentDao objects	Definition: List of components associated with the application.

Table 4-346 AppComponentDao

Parameter	Type	Description
task_id	String	Definition: Deployment job ID. Range: 32 characters, including letters and digits.
app_id	String	Definition: AOM application ID. Range: 32 characters, including letters and digits.
app_name	String	Parameter description: AOM application name. Value range: The value consists of letters and digits.

Parameter	Type	Description
comp_id	String	Definition: AOM application component ID. Range: 32 characters, including letters and digits.
comp_name	String	Parameter description: AOM application component name. Value range: The value consists of 0 to 128 characters.
domain_id	String	Definition: Tenant ID. Range: 32 characters, including letters and digits.
region	String	Parameter description: Region information. Value range: The value consists of 1 to 256 characters.
state	String	Parameter description: Whether the AOM application component takes effect. Value range: 0: Initialized. 1: The operation is successful and takes effect.

Example Requests

Roll back a deployment based on its record ID.

```
https://{endpoint}/v2/tasks/a38a2d40162f4ea1aa8c7cebca0bc7f8/records/  
a99c6b14dbc3449384849f1e7e03ea20/rollback
```

Example Responses

Status code: 200

OK indicates that the rollback is successful.

```
{  
  "id" : "a99c6b14dbc3449384849f1e7e03ea20",  
  "task_id" : "a38a2d40162f4ea1aa8c7cebca0bc7f8",  
}
```

```
"job_name" : "job_a99c6b14dbc3449384849f1e7e03ea20_1758844038197",  
"app_component_list" : [ {  
  "task_id" : "a38a2d40162f4ea1aa8c7cebca0bc7f8",  
  "app_id" : "000e3dce512a459c929eb54f6f3a88ac",  
  "app_name" : "App-202410302024685",  
  "comp_id" : "00138c1d6f9d493597091bda6c6ae4fa",  
  "comp_name" : "Service-associated component",  
  "domain_id" : "ce8df55870164338a72d7e828a966a2a",  
  "region" : "example-region",  
  "state" : "1"  
} ]  
}
```

Status Codes

Status Code	Description
200	OK indicates that the rollback is successful.

Error Codes

See [Error Codes](#).

5 Application Examples

[Example 1: Querying a Host Cluster List](#)

[Example 2: Querying Host Cluster Details by ID](#)

[Example 3: Querying the Host List of a Specified Host Cluster](#)

5.1 Example 1: Querying a Host Cluster List

Scenario

This section provides an example of using an API to query the host clusters as a CodeArts user.

For details on how to call APIs, see [Calling APIs](#).

Prerequisite

You have created a CodeArts project.

Approach

Query the list of all host clusters of the current user based on the user token.

Querying the Host Cluster List

- API information:

URI: GET /v2/host-groups

- Request example:

```
GET https://{endpoint}/v2/host-groups?region_name=ap-southeast-3&project_id=6039d4480efc4dddb178abff98719913&offset=1&limit=10&sort_key=create_time&sort_dir=DESC
```

- Response example:

```
{
  "total" : 1,
  "host_groups" : [ {
    "name" : "testwyk",
    "description" : "11122211",
    "os" : "linux",
```

```
{
  "nick_name": "A/B_side_account",
  "id": 200001291,
  "group_id": "ab7647b0863c4e969c8949d38d591339",
  "region_name": "ap-southeast-3",
  "project_id": "6039d4480efc4dddb178abff98719913",
  "permission": {
    "can_view": true,
    "can_edit": true,
    "can_delete": true,
    "can_add_host": true,
    "can_manage": true
  },
  "created_by": {
    "user_id": "6baa7454109d47c192f22078fe6cda20",
    "user_name": "devcloud_devcloud_l00490255_01"
  },
  "updated_by": {
    "user_id": "6baa7454109d47c192f22078fe6cda20",
    "user_name": "devcloud_devcloud_l00490255_01"
  },
  "auto_connection_test_switch": 0,
  "slave_cluster_id": "",
  "created_time": "2021-04-01 17:05:53",
  "updated_time": "2021-04-21 14:29:14",
  "host_count": 1,
  "project_name": null
}]
}
```

5.2 Example 2: Querying Host Cluster Details by ID

Scenario

This section uses a CodeArts user as an example to describe how to use an API to query the specified host cluster.

For details on how to call APIs, see [Calling APIs](#).

Prerequisite

You have created a CodeArts project and the project has a host cluster.

Approach

Use an API to query the list of all host clusters, obtain *group_id* of the target host cluster, and use *group_id* to query details about the host cluster details. The procedure is as follows:

1. Query all host clusters of a user.
2. Query details about a host cluster.

Step 1: Querying All Host Clusters of a User

- API information:
URI: GET /v2/host-groups
- Request example:
GET https://{endpoint}/v2/host-groups?region_name=ap-southeast-3&project_id=6039d4480efc4dddb178abff98719913&offset=1&limit=10&sort_key=create_time&sort_dir=DESC

- Response example:

```
{
  "total" : 1,
  "host_groups" : [ {
    "name" : "testwyk",
    "description" : "11122211",
    "os" : "linux",
    "nick_name" : "A/B_side_account",
    "id" : 200001291,
    "group_id" : "ab7647b0863c4e969c8949d38d591339",
    "region_name" : "ap-southeast-3",
    "project_id" : "6039d4480efc4dddb178abff98719913",
    "permission" : {
      "can_view" : true,
      "can_edit" : true,
      "can_delete" : true,
      "can_add_host" : true,
      "can_manage" : true
    },
    "created_by" : {
      "user_id" : "6baa7454109d47c192f22078fe6cda20",
      "user_name" : "devcloud_devcloud_l00490255_01"
    },
    "updated_by" : {
      "user_id" : "6baa7454109d47c192f22078fe6cda20",
      "user_name" : "devcloud_devcloud_l00490255_01"
    },
    "auto_connection_test_switch" : 0,
    "slave_cluster_id" : "",
    "created_time" : "2021-04-01 17:05:53",
    "updated_time" : "2021-04-21 14:29:14",
    "host_count" : 1,
    "project_name" : null
  } ]
}
```

Step 2: Querying Details About a Host Cluster

- API information:

URI: GET /v2/host-groups/{group_id}

- Request example:

GET https://{endpoint}/v2/host-groups/ab7647b0863c4e969c8949d38d591339

- Response example:

```
{
  "name" : "test",
  "description" : "11122211",
  "os" : "linux",
  "region_name" : "ap-southeast-3",
  "project_id" : "6039d4480efc4dddb178abff98719913",
  "created_by" : {
    "user_id" : "6baa7454109d47c192f22078fe6cda20",
    "user_name" : "devcloud_devcloud_l00490255_01"
  },
  "updated_by" : {
    "user_id" : "6baa7454109d47c192f22078fe6cda20",
    "user_name" : "devcloud_devcloud_l00490255_01"
  },
  "permission" : {
    "can_view" : true,
    "can_edit" : true,
    "can_delete" : true,
    "can_add_host" : true,
    "can_manage" : true
  },
  "auto_connection_test_switch" : 0,
  "slave_cluster_id" : "",
  "nick_name" : "A/B_side_account",
}
```

```
"group_id" : "ab7647b0863c4e969c8949d38d591339",  
"created_time" : "2021-04-01 17:05:53",  
"updated_time" : "2021-04-21 14:29:14",  
"host_count" : 1  
}
```

5.3 Example 3: Querying the Host List of a Specified Host Cluster

Scenario

This section uses a CodeArts user as an example to describe how to use an API to query the hosts in the specified host cluster.

For details on how to call APIs, see [Calling APIs](#).

Prerequisite

You have created a CodeArts project and the project has a host cluster.

Approach

Use a user token to query the host group cluster, and use group_id to query the host list of the specified host cluster. The procedure is as follows:

1. Query all host clusters of a user.
2. Query the host list of a host cluster.

Step 1: Querying All Host Clusters of a User

- API information:
URI: GET /v2/host-groups
- Request example:
GET https://{endpoint}/v2/host-groups?region_name=ap-southeast-3&project_id=6039d4480efc4dddb178abff98719913&offset=1&limit=10&sort_key=create_time&sort_dir=DESC
- Response example:

```
{  
  "total" : 1,  
  "host_groups" : [ {  
    "name" : "testwyk",  
    "description" : "11122211",  
    "os" : "linux",  
    "nick_name" : "A/B_side_account",  
    "id" : 200001291,  
    "group_id" : "ab7647b0863c4e969c8949d38d591339",  
    "region_name" : "ap-southeast-3",  
    "project_id" : "6039d4480efc4dddb178abff98719913",  
    "permission" : {  
      "can_view" : true,  
      "can_edit" : true,  
      "can_delete" : true,  
      "can_add_host" : true,  
      "can_manage" : true  
    },  
    "created_by" : {  
      "user_id" : "6baa7454109d47c192f22078fe6cda20",  
      "user_name" : "devcloud_devcloud_l00490255_01"  
    }  
  }  
}
```

```
},
"updated_by" : {
  "user_id" : "6baa7454109d47c192f22078fe6cda20",
  "user_name" : "devcloud_devcloud_l00490255_01"
},
"auto_connection_test_switch" : 0,
"slave_cluster_id" : "",
"created_time" : "2021-04-01 17:05:53",
"updated_time" : "2021-04-21 14:29:14",
"host_count" : 1,
"project_name" : null
} ]
}
```

Step 2: Querying the Host List

- API information:

URI: GET /v2/host-groups/{group_id}/hosts

- Request example:

GET https://{endpoint}/v2/host-groups/ab7647b0863c4e969c8949d38d591339/hosts?
offset=0&limit=10&sort_key=AS_PROXY&sort_dir=asc&with_auth=false

- Response example:

```
{
  "hosts" : [ {
    "hostname" : "100.101.28.203",
    "ip" : "100.101.28.203",
    "port" : 22,
    "os" : "linux",
    "authorization" : {
      "username" : "root",
      "password" : null,
      "private_key" : null,
      "trusted_type" : 0
    },
    "permission" : {
      "can_view" : true,
      "can_edit" : true,
      "can_delete" : true,
      "can_add_host" : true,
      "can_connection_test" : true
    },
    "nickName" : "A/B_side_account",
    "id" : 200001149,
    "host_id" : "2cc913cc9a494f09b7320801ebacad02",
    "group_id" : "ab7647b0863c4e969c8949d38d591339",
    "as_proxy" : false,
    "proxy_host_id" : null,
    "owner_id" : "6baa7454109d47c192f22078fe6cda20",
    "owner_name" : "devcloud_devcloud_l00490255_01",
    "updater_id" : "6baa7454109d47c192f22078fe6cda20",
    "updater_name" : "devcloud_devcloud_l00490255_01",
    "connection_status" : "success",
    "install_icagent" : false,
    "create_time" : "2021-04-15 11:01:51",
    "update_time" : "2021-04-21 15:04:24",
    "connection_result" : "Connected",
    "lastest_connection_time" : "2021-04-15 11:02:00",
    "nick_name" : "A/B_side_account",
    "proxy_host" : null,
    "group_name" : null,
    "project_id" : "6039d4480efc4dddb178abff98719913",
    "project_name" : null
  } ],
  "total" : 1,
  "group_name" : "test"
}
```

6 Actions Supported by Identity Policy-based Authorization

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

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

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

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

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

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

Actions

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

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

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

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

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

For details about the condition keys defined by deployman, see [Conditions](#).

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

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

Table 6-1 Actions supported by deployman

Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsdeploy:template:create	Grants permission to create templates in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:template:delete	Grants permission to delete templates in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:template:update	Grants permission to update templates in CodeArtsDeploy.	Write	-	-	-

Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsdeploy:template:get	Grants permission to view template details in CodeArtsDeploy.	Read	-	-	-
codeartsdeploy:template:list	Grants permission to view template list in CodeArtsDeploy.	List	-	-	-
codeartsdeploy:application:create	Grants permission to create application in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:application:delete	Grants permission to delete applications in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:application:update	Grants permission to update applications in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:application:disable	Grants permission to disable applications in CodeArtsDeploy.	Write	-	-	-

Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsdeploy:application:deploy	Grants permission to deploy applications in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:application:clone	Grants permission to clone applications in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:application:managePermission	Grants permission to modify applications permissions in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:application:get	Grants permission to view application details in CodeArtsDeploy.	Read	-	-	-
codeartsdeploy:application:list	Grants permission to view application list in CodeArtsDeploy.	List	-	-	-
codeartsdeploy:applicationGroup:manage	Grants permission to update application group in CodeArtsDeploy.	Write	-	-	-

Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsdeploy:applicationGroup:list	Grants permission to view application group list in CodeArtsDeploy.	List	-	-	-
codeartsdeploy:environment:create	Grants permission to create environment in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:environment:delete	Grants permission to delete environment in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:environment:update	Grants permission to update environment in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:environment:get	Grants permission to view environment details in CodeArtsDeploy.	Read	-	-	-
codeartsdeploy:environment:list	Grants permission to view environment list in CodeArtsDeploy.	List	-	-	-

Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsdeploy:environment:managePermission	Grants permission to modify environment permissions in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:resource:create	Grants permission to create resource in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:resource:delete	Grants permission to delete resource in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:resource:update	Grants permission to update resource in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:resource:addHost	Grants permission to add host to the resource in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:resource:copyHost	Grants permission to copy host to resource in CodeArtsDeploy.	Write	-	-	-

Action	Description	Access Level	Resource Type (*: required)	Condition Key	Alias
codeartsdeploy:resource:managePermission	Grants permission to modify resource permissions in CodeArtsDeploy.	Write	-	-	-
codeartsdeploy:resource:get	Grants permission to view resource in CodeArtsDeploy.	Read	-	-	-
codeartsdeploy:resource:list	Grants permission to view resource list in CodeArtsDeploy.	List	-	-	-

Each API of deployman usually supports one or more actions. [Table 6-2](#) lists the supported actions and dependencies.

Table 6-2 Actions and dependencies supported by deployman APIs

API	Action	Dependencies
POST /v1/applications	codeartsdeploy:application:create	-
PUT /v1/applications	codeartsdeploy:application:update	-
DELETE /v1/applications/{app_id}	codeartsdeploy:application:delete	-
POST /v2/applications/batch-delete	codeartsdeploy:application:delete	-

API	Action	Dependencies
GET /v1/applications/{app_id}/info	codeartsdeploy:application:get	-
POST /v1/applications/list	codeartsdeploy:application:list	-
POST /v1/applications/{app_id}/duplicate	codeartsdeploy:application:clone	-
GET /v1/applications/creatable	codeartsdeploy:application:list	-
GET /v1/applications/exist	codeartsdeploy:application:list	-
GET /v3/applications/permissions	codeartsdeploy:application:list	-
PUT /v3/applications/permissions	codeartsdeploy:application:managePermission	-
PUT /v3/applications/permission-level	codeartsdeploy:application:managePermission	-
GET /v2/tasks/{task_id}/state	codeartsdeploy:application:get	-
PUT /v1/applications/{app_id}/disable	codeartsdeploy:application:disable	-
POST /v2/tasks/template-task	codeartsdeploy:application:create	-
DELETE /v2/tasks/{task_id}	codeartsdeploy:application:delete	-
GET /v2/tasks/{task_id}	codeartsdeploy:application:get	-
GET /v2/{project_id}/task/{id}/history	codeartsdeploy:application:get	-
GET /v2/history/tasks/{task_id}/params	codeartsdeploy:application:get	-

API	Action	Dependencies
GET /v2/{project_id}/metrics/success-rate	codeartsdeploy:application:list	-
POST /v2/{project_id}/tasks/metrics/success-rate	codeartsdeploy:application:list	-
POST /v2/tasks/{task_id}/start	codeartsdeploy:application:deploy	-
GET /v2/{project_id}/tasks/list	codeartsdeploy:application:list	-
POST /v1/projects/{project_id}/applications/groups	codeartsdeploy:application Group:manage	-
PUT /v1/projects/{project_id}/applications/groups/move	codeartsdeploy:application Group:manage	-
PUT /v1/projects/{project_id}/applications/groups/swap	codeartsdeploy:application Group:manage	-
DELETE /v1/projects/{project_id}/applications/groups/{group_id}	codeartsdeploy:application Group:manage	-
PUT /v1/projects/{project_id}/applications/groups/{group_id}	codeartsdeploy:application Group:manage	-
GET /v1/projects/{project_id}/applications/groups	codeartsdeploy:application Group:list	-
POST /v2/host-groups/{group_id}/hosts	codeartsdeploy:resource:addHost	-

API	Action	Dependencies
GET /v2/host-groups/{group_id}/hosts	codeartsdeploy:resource:get	-
PUT /v1/resources/host-groups/{group_id}/hosts/{host_id}	codeartsdeploy:resource:update	-
DELETE /v1/resources/host-groups/{group_id}/hosts/{host_id}	codeartsdeploy:resource:delete	-
GET /v1/resources/host-groups/{group_id}/hosts/{host_id}	codeartsdeploy:resource:get	-
GET /v2/host-groups/{group_id}	codeartsdeploy:resource:get	-
DELETE /v2/host-groups/{group_id}	codeartsdeploy:resource:delete	-
PUT /v2/host-groups/{group_id}	codeartsdeploy:resource:update	-
GET /v1/resources/host-groups/{group_id}/hosts	codeartsdeploy:resource:get	-
GET /v2/host-groups/{group_id}/permissions	codeartsdeploy:resource:get	-
PUT /v2/host-groups/{group_id}/permissions	codeartsdeploy:resource:managePermission	-
GET /v1/resources/host-groups/{group_id}/environments/infos	codeartsdeploy:resource:list	-
POST /v1/resources/host-groups/{group_id}/hosts	codeartsdeploy:resource:addHost	-
POST /v2/host-groups	codeartsdeploy:resource:create	-

API	Action	Dependencies
GET /v2/host-groups	codeartsdeploy:resource:list	-
POST /v1/resources/host-groups/{group_id}/hosts/batch-delete	codeartsdeploy:resource:delete	-
POST /v1/resources/host-groups/{group_id}/hosts/replication	codeartsdeploy:resource:copyHost	-
GET /v1/resources/host-groups/{group_id}	codeartsdeploy:resource:get	-
POST /v1/resources/host-groups	codeartsdeploy:resource:create	-
GET /v1/resources/host-groups	codeartsdeploy:resource:list	-
GET /v1/host-groups/creatable/{project_id}/permissions	codeartsdeploy:resource:list	-
PUT /v1/resources/host-groups/{group_id}	codeartsdeploy:resource:update	-
DELETE /v1/resources/host-groups/{group_id}	codeartsdeploy:resource:delete	-
DELETE /v2/host-groups/{group_id}/hosts/{host_id}	codeartsdeploy:resource:delete	-
PUT /v2/host-groups/{group_id}/hosts/{host_id}	codeartsdeploy:resource:update	-
GET /v2/host-groups/{group_id}/hosts/{host_id}	codeartsdeploy:resource:get	-

API	Action	Dependencies
DELETE /v1/ applications/ {application_id}/ environments/ {environment_id}/ {host_id}	codeartsdeploy:environmen t:delete	-
DELETE /v1/ applications/ {application_id}/ environments/ {environment_id}	codeartsdeploy:environmen t:delete	-
GET /v1/ applications/ {application_id}/ environments/ {environment_id}	codeartsdeploy:environmen t:get	-
PUT /v1/ applications/ {application_id}/ environments/ {environment_id}	codeartsdeploy:environmen t:update	-
GET /v1/ applications/ {application_id}/ host-groups/base/ infos	codeartsdeploy:environmen t:list	-
POST /v1/ applications/ {application_id}/ environments	codeartsdeploy:environmen t:create	-
GET /v1/ applications/ {application_id}/ environments	codeartsdeploy:environmen t:list	-
POST /v1/ applications/ {application_id}/ environments/ {environment_id}/ hosts/import	codeartsdeploy:environmen t:update	-

API	Action	Dependencies
GET /v1/applications/{application_id}/environments/{environment_id}/hosts	codeartsdeploy:environment:get	-

Resources

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

Conditions

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

7 Appendixes

- Status Codes
- Error Codes
- Obtaining a Project ID
- Obtaining an Account ID

7.1 Status Codes

Table 7-1 Status codes

Status Code	Message	Error Code Description
100	Continue	The client should continue with its request. This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server.
101	Switching Protocols	Switch protocols. A protocol can only be switched to a more advanced protocol. For example, the protocol in use is switched to a later version of HTTP.
201	Created	The request has been fulfilled and resulted in a new resource being created.
202	Accepted	The request has been accepted for processing, but the processing has not been completed.
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.

Status Code	Message	Error Code Description
204	NoContent	The server has successfully processed the request, but does not return any response. The status code is returned in response to an HTTP OPTIONS request.
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.
206	Partial Content	The server has fulfilled the partial GET request for the resource.
300	Multiple Choices	There are multiple choices for a requested resource. A list of resource characteristics and addresses is returned for the client such as a browser to choose from.
301	Moved Permanently	This and all future requests have been permanently moved to the given URI indicated in this response.
302	Found	The requested resource has been temporarily moved.
303	See Other	Retrieve another URL, 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 not repeat the request without modifications.
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.

Status Code	Message	Error Code Description
404	NotFound	The requested resource cannot be found. The client should not repeat the request without modifications.
405	MethodNotAllowed	The method specified in the request is not allowed for the requested resource. The client should not repeat the request without modifications.
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 Retry-After 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.

Status Code	Message	Error Code Description
416	Requested range not satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the Expect 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 Retry-After 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 not repeat the request without modifications.
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 during API calling, no result will be returned. Identify the error cause based on the error codes of each API. The returned message body contains the specific error code and information.

Error Response Body Format

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

```
{
  "error": {
    "code": "DEV.CH.10001",
```

```
"message": "Param invalid"
},
"status": "failed"
}
```

In the response message body, **error_code** is an error code, and **error_msg** provides information about the error.

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 Codes	Error Message	Description	Solution
403	Deploy.00011154	Insufficient permissions or not authorized. Check your permissions or apply for higher or the required permissions.	Insufficient permissions or not authorized. Check your permissions or apply for higher or the required permissions.	Check whether you have the permission to perform this operation.
400	Deploy.00011001	The application name is already in use in the project. Try another name.	The application name is already in use in the project. Try another name.	Ensure that the application name is correct and try again.
404	Deploy.00011020	No such application, or application has been deleted. Change to another application.	No such application, or application has been deleted. Change to another application.	Ensure that the application exists and try again.
400	Deploy.00011027	The application is being deployed.	The application is being deployed.	Try again later.
400	Deploy.00011042	The draft application cannot be executed.	The draft application cannot be executed.	Save the draft as a formal application and try again.
400	Deploy.00011129	Too many applications for the tenant.	Too many applications for the tenant.	Delete some applications and try again.

Status Code	Error Codes	Error Message	Description	Solution
403	Deploy.00011155	Real-time authentication incomplete.	Real-time authentication incomplete.	Please perform real-name authentication before access.
400	Deploy.00011156	No atomic operations enabled.	No atomic operations enabled.	Ensure that the atomic operation is correct and try again later.
400	Deploy.00011161	The application is being deployed. End the current deployment job first.	The application is being deployed. End the current deployment job first.	Stop deploying the application and try again.
404	Deploy.00011602	No templates found.	No templates found.	Ensure that the template exists and try again.
400	Deploy.00015002	One or more request parameters are invalid.	One or more request parameters are invalid.	Ensure that the parameters are correct and try again.
400	Deploy.00015829	The application is being deployed.	The application is being deployed.	Try again after the application deployment is complete.
400	Deploy.00015901	Invalid time range: \${start_date} - \${end_date}	Invalid time range: \${start_date} - \${end_date}	Check the time range. For example, the start time cannot be later than the end time.
400	Deploy.00015902	Exceeds \${max_time_range}	Exceeds \${max_time_range}	Check whether the time span exceeds the maximum range.
403	Deploy.00015903	Non-project member.	Non-project member.	Check whether the current user is a project member.
400	Deploy.00015904	Invalid date format: \${invalid_input_date}	Invalid date format: \${invalid_input_date}	Check the input date format.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.00015905	Non-static parameters of host clusters and enumeration types cannot be empty.	Non-static parameters of host clusters and enumeration types cannot be empty.	Check whether the non-static parameters of host clusters and enumeration types are empty.
404	Deploy.00016902	Project not found.	Project not found.	Check the project ID and try again.
400	Deploy.00016903	Invalid project name.	Invalid project name.	Check the project name and try again.
400	Deploy.00016905	Parameter type required with parameter name.	Parameter type required with parameter name.	Check whether the parameter type is correct.
400	Deploy.00016906	Incorrect enumerated value.	Incorrect enumerated value.	Check whether the entered enumerated value exists.
400	Deploy.00021008	Invalid password input.	Invalid password input.	Enter a correct password.
400	Deploy.00015158	Role not found.	Role not found.	Confirm the role before performing the operation.
404	Deploy.00011303	No execution records.	No execution records.	Perform the operation after confirmation.
403	Deploy.00060221	Insufficient permissions for this self-hosted agent pool.	Insufficient permissions for this self-hosted agent pool.	Apply for the permission first.
403	Deploy.00015834	Not enough time for deployment. Upgrade the package.	Not enough time for deployment. Upgrade the package.	Upgrade the package.

Status Code	Error Codes	Error Message	Description	Solution
409	Deploy.0001 5840	Free trial unavailable. CodeArts package already exists.	Free trial unavailable. CodeArts package already exists.	Trial already enabled.
400	Deploy.0001 5841	Free trial unavailable. No single service package enabled yet.	Free trial unavailable. No single service package enabled yet.	Enable a package first.
400	Deploy.0001 5842	Trial has expired.	Trial has expired.	Contact technical support.
403	Deploy.0001 5853	The tenant account is frozen and its functions are unavailable. To restore functionality, contact the tenant administrator to unfreeze it.	The tenant account is frozen and its functions are unavailable. To restore functionality, contact the tenant administrator to unfreeze it.	Contact the tenant administrator to unfreeze it.
400	Deploy.0001 6901	Max. 500 characters.	Max. 500 characters.	Confirm the custom parameter description first.
400	Deploy.0006 0013	Query permissions failed.	Query permissions failed.	Check whether you have the permission to perform this operation.
400	Deploy.0006 0014	Maintain permissions failed.	Maintain permissions failed.	Contact technical support.
400	Deploy.0006 0015	Query role information failed.	Query role information failed.	Perform the operation after confirmation.
403	Deploy.0006 0016	DevUC authentication failed.	DevUC authentication failed.	Contact technical support.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.0006 0017	Operation type not found.	Operation type not found.	Perform the operation after confirmation.
404	Deploy.0006 0021	No basic application information.	No basic application information.	Check whether the application exists.
404	Deploy.0006 0022	No deployed application.	No deployed application.	Check whether the application information is correct.
404	Deploy.0006 0023	No application orchestration information.	No application orchestration information.	Check whether the application information is correct.
403	Deploy.0006 0031	No modify permission.	No modify permission.	Disable the project permissions of the application first.
409	Deploy.0006 0032	Project-level permission not changed.	Project-level permission not changed.	Perform the operation after confirmation.
400	Deploy.0006 0103	Max. 128 characters.	Max. 128 characters.	Reduce the length of the application name.
400	Deploy.0006 0104	Max. 128 characters.	Max. 128 characters.	Reduce the length of the template name.
400	Deploy.0006 0108	Select an environment first.	Select an environment first.	Select an environment first.
400	Deploy.0006 0109	Select an application first.	Select an application first.	Select an application first.
400	Deploy.0006 0110	Select a component first.	Select a component first.	Select a component first.
400	Deploy.0006 0111	Select a component instance first.	Select a component instance first.	Select a component instance first.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.0006 0203	Duplicate name.	Duplicate name.	Check whether the name already exists.
400	Deploy.0006 0204	Too many groups (Max. 200)	Too many groups (Max. 200)	Delete unnecessary groups and try again.
400	Deploy.0006 0205	Max. 3 group layers.	Max. 3 group layers.	Delete unnecessary layers and try again.
404	Deploy.0006 0207	No such group.	No such group.	Confirm and then try again.
400	Deploy.0006 0209	Group cannot be moved.	Group cannot be moved.	Confirm and then try again.
403	Deploy.0006 0211	Insufficient permissions.	Insufficient permissions.	Contact your administrator.
400	Deploy.0006 0212	Invalid project ID.	Invalid project ID.	Check the project ID and try again.
404	Deploy.0006 0217	Requested path not found	Requested path not found	Confirm and then try again.
400	Deploy.0006 0218	The environment is being deployed. Stop this deployment or try again later.	The environment is being deployed. Stop this deployment or try again later.	Stop the deployment task that is being executed and try again.
403	Deploy.0006 0220	Application disabled.	Application disabled.	Check the application permission and try again.
400	Deploy.0006 0222	Some application permissions in this project are being updated. Try again later.	Some application permissions in this project are being updated. Try again later.	Try again later.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.0002 1102	Duplicate host cluster name.	Duplicate host cluster name.	Change the host cluster name and try again.
400	Deploy.0002 1106	Duplicate host name.	Duplicate host name.	Change the host name and try again.
404	Deploy.0002 1108	Host not found.	Host not found.	Ensure that the host to be queried exists in the host cluster.
400	Deploy.0002 1111	Delete host cluster failed. Host cluster contains host.	Delete host cluster failed. Host cluster contains host.	Delete host from host cluster first.
400	Deploy.0002 1112	Only host in this host cluster can be selected.	Only host in this host cluster can be selected.	Select host in this host cluster and try again.
400	Deploy.0002 1113	Too many host clusters are deployed in the project.	Too many host clusters are deployed in the project.	Delete unnecessary host clusters and try again.
400	Deploy.0002 1114	Inconsistent host OS and cluster OS.	Inconsistent host OS and cluster OS.	Ensure that the host and host cluster use the same OS and try again.
400	Deploy.0002 1115	Max. hosts in host cluster: 1,000	Max. hosts in host cluster: 1,000	Delete unnecessary hosts and try again.
400	Deploy.0002 1116	Duplicate IP addresses and port numbers in the host cluster.	Duplicate IP addresses and port numbers in the host cluster.	Ensure that the IP address is correct and try again.
400	Deploy.0002 1117	Host of this agent not deleted.	Host of this agent not deleted.	Delete the host of this agent first.
404	Deploy.0002 1119	The proxies of some hosts do not exist.	The proxies of some hosts do not exist.	Ensure that the agent exists and try again.

Status Code	Error Codes	Error Message	Description	Solution
404	Deploy.0002 1123	Host selected not found in current cluster.	Host selected not found in current cluster.	Ensure that the host to be modified is in the current host cluster and try again.
400	Deploy.0002 1124	There is already a host with this IP address in the application or environment. Add a host with another IP address.	There is already a host with this IP address in the application or environment. Add a host with another IP address.	Ensure that all hosts have unique IP addresses in the host cluster and try again.
400	Deploy.0002 1132	Test up to 100 hosts at a time.	Test up to 100 hosts at a time.	Ensure that the number of hosts in a connectivity test does not exceed 100 and try again.
400	Deploy.0002 1135	The value of auth_region is inconsistent with the transferred region information.	The value of auth_region is inconsistent with the transferred region information.	Ensure that the transferred region information is correct.
403	Deploy.0002 1200	Insufficient permissions to create a host cluster.	Insufficient permissions to create a host cluster.	Confirm the permission and try again.
403	Deploy.0002 1201	Insufficient permissions to delete a host cluster.	Insufficient permissions to delete a host cluster.	Add the permission and try again.
403	Deploy.0002 1202	Insufficient permissions to modify host cluster.	Insufficient permissions to modify host cluster.	Add the permission and try again.
403	Deploy.0002 1203	Insufficient permissions.	Insufficient permissions.	Apply for the permission and try again.

Status Code	Error Codes	Error Message	Description	Solution
401	Deploy.0002 1204	Real-time authentication incomplete.	Real-time authentication incomplete.	Authenticate your real name and try again.
403	Deploy.0002 1205	Insufficient permissions to create a host.	Insufficient permissions to create a host.	Apply for the permission and try again.
403	Deploy.0002 1206	Insufficient permissions to delete a host.	Insufficient permissions to delete a host.	Add the permission and try again.
403	Deploy.0002 1207	Insufficient permissions to update a host.	Insufficient permissions to update a host.	Add the permission and try again.
403	Deploy.0002 1209	Insufficient permissions to copy a host.	Insufficient permissions to copy a host.	Add the permission and try again.
403	Deploy.0002 1404	Insufficient permissions.	Insufficient permissions.	Add the permission and try again.
400	Deploy.0002 1412	Current host cluster not associated with any application.	Current host cluster not associated with any application.	Associate applications and try again.
400	Deploy.0002 1413	Duplicate host under the application.	Duplicate host under the application.	Ensure that no duplicate host exists in the application and try again.
404	Deploy.0002 1414	Query application information failed.	Query application information failed.	Ensure that the application exists and try again.
404	Deploy.0002 1415	Agent host not found.	Agent host not found.	Ensure that the agent host exists and try again.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.0002 1419	Host cluster type and application resource pool type do not match.	Host cluster type and application resource pool type do not match.	Ensure that the type of the host cluster is the same as that of the application resource pool and try again.
404	Deploy.0002 1420	No such application, or application has been deleted. Change to another application.	No such application, or application has been deleted. Change to another application.	Ensure that the application exists and try again.
400	Deploy.0002 1421	Host cluster associated with applications.	Host cluster associated with applications.	Ensure that the host cluster is not associated with any application and try again.
400	Deploy.0002 1422	Duplicate host cluster name.	Duplicate host cluster name.	Change the host cluster name and try again.
404	Deploy.0002 1423	Host cluster not found.	Host cluster not found.	Ensure that the host cluster exists and try again.
403	Deploy.0002 1426	Insufficient permissions to update the host cluster.	Insufficient permissions to update the host cluster.	Add the permission and try again.
403	Deploy.0002 1427	Insufficient permissions to delete the host cluster.	Insufficient permissions to delete the host cluster.	Add the permission and try again.
400	Deploy.0002 1429	Only create agent servers and bind hosts to agent servers in a host cluster for agent mode.	Only create agent servers and bind hosts to agent servers in a host cluster for agent mode.	Ensure that the host type meets the requirements and try again.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.0002 1430	Cannot create agent servers or bind hosts to agent servers in a host cluster for non-agent mode.	Cannot create agent servers or bind hosts to agent servers in a host cluster for non-agent mode.	Ensure that the host type meets the requirements and try again.
400	Deploy.0002 1431	The cluster has been associated with an existing environment. Delete the environment first.	The cluster has been associated with an existing environment. Delete the environment first.	Ensure that the host cluster is not associated with any environment and try again.
400	Deploy.0002 1432	The cluster contains hosts. Remove the hosts first.	The cluster contains hosts. Remove the hosts first.	Delete all hosts from the host cluster and try again.
403	Deploy.0002 1435	Insufficient permissions to create an environment.	Insufficient permissions to create an environment.	Add the permission and try again.
403	Deploy.0002 1436	Insufficient permissions to edit an environment.	Insufficient permissions to edit an environment.	Add the permission and try again.
403	Deploy.0002 1437	Insufficient permissions to delete an environment.	Insufficient permissions to delete an environment.	Add the permission and try again.
404	Deploy.0002 1438	The environment does not exist.	The environment does not exist.	Ensure that the environment exists and try again.
400	Deploy.0002 1442	Max. 100 environments in application.	Max. 100 environments in application.	Ensure that the number of environments in the app does not exceed the upper limit and try again.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.0002 1443	There is already an environment with this name in the application. Try another name.	There is already an environment with this name in the application. Try another name.	Change the environment name and try again.
403	Deploy.0002 1445	Insufficient permissions to query an environment.	Insufficient permissions to query an environment.	Add the permission and try again.
400	Deploy.0002 1447	Host of this agent not deleted.	Host of this agent not deleted.	Delete the proxied host and try again.
403	Deploy.0002 1448	Insufficient permissions to import a host.	Insufficient permissions to import a host.	Add the permission and try again.
403	Deploy.0002 1452	Insufficient permissions to check an imported host.	Insufficient permissions to check an imported host.	Add the permission and try again.
400	Deploy.0002 1454	Duplicate data in imported host.	Duplicate data in imported host.	Ensure that no duplicate data exists and try again.
400	Deploy.0002 1455	The current host is already in use in another environment of the application. Import another host.	The current host is already in use in another environment of the application. Import another host.	Do not import data repeatedly.
400	Deploy.0002 1456	Import agent failed.	Import agent failed.	Import a non-agent.
404	Deploy.0002 1457	Imported host not found.	Imported host not found.	Ensure that the host to be imported exists and try again.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.0002 1458	Max. 200 imported hosts in environment.	Max. 200 imported hosts in environment.	Ensure that the number of hosts in the environment does not reach the upper limit and try again.
400	Deploy.0002 1459	Different environment OS and the host cluster OS.	Different environment OS and the host cluster OS.	Ensure that the environment OS is the same as that of the host cluster and try again.
400	Deploy.0002 1461	The agent is being used.	The agent is being used.	Ensure that the agent is not in use and try again.
400	Deploy.0002 1462	Agent and host IP addresses must be different.	Agent and host IP addresses must be different.	Ensure that the IP address of the agent is different from that of the target host and try again.
403	Deploy.0002 1463	Insufficient permissions to create host in target cluster.	Insufficient permissions to create host in target cluster.	Add the permission and try again.
404	Deploy.0002 1464	Host selected not found in current cluster.	Host selected not found in current cluster.	Ensure that the host cluster contains hosts and try again.
400	Deploy.0002 1465	Duplicate hosts exist in the hosts (IP & port) to be copied.	Duplicate hosts exist in the hosts (IP & port) to be copied.	Ensure that the IP address and port number of the host to be copied are unique and try again.
400	Deploy.0002 1466	Inconsistent host OS and cluster OS.	Inconsistent host OS and cluster OS.	Ensure that the host OS is the same as that of the host cluster and try again.

Status Code	Error Codes	Error Message	Description	Solution
400	Deploy.0002 1467	Duplicate host (same IP address, port number, and login user).	Duplicate host (same IP address, port number, and login user).	Ensure that the same host does not exist in the host cluster and try again.
400	Deploy.0002 1468	Hosts to be cloned do not meet requirements.	Hosts to be cloned do not meet requirements.	Ensure that the host to be cloned meets the requirements and try again.
400	Deploy.0002 1469	Host cluster has too many hosts.	Host cluster has too many hosts.	Ensure that the number of hosts in the host cluster does not exceed 200 and try again.
400	Deploy.0002 1470	Project's host cluster has too many (>1000) hosts.	Project's host cluster has too many (>1000) hosts.	Ensure that the number of host clusters in the project does not exceed 1,000 and try again.
403	Deploy.0002 1471	Insufficient permissions to check an application.	Insufficient permissions to check an application.	Add the permission and try again.
404	Deploy.0002 1472	Invalid region.	Invalid region.	Ensure that the region is normal and try again.
403	Deploy.0002 1473	Target project and current project do not belong to same tenant.	Target project and current project do not belong to same tenant.	Ensure that the target project and the current project belong to the same tenant and try again.
400	Deploy.0002 1474	Duplicate agent name.	Duplicate agent name.	Use a unique agent name and try again.
403	Deploy.0002 1476	Intranet secure access enabled. Use executor from self-hosted agent pool.	Intranet secure access enabled. Use executor from self-hosted agent pool.	Use executor from self-hosted agent pool and try again.

Status Code	Error Codes	Error Message	Description	Solution
404	Deploy.0002 1478	Project not found.	Project not found.	Use an existing project and try again.
404	Deploy.0002 1479	Role not found.	Role not found.	Use a normal role and try again.
409	Deploy.0002 1481	Cloning target hosts to the target cluster. Try again later.	Cloning target hosts to the target cluster. Try again later.	Try again later.
403	Deploy.0002 1482	Application disabled.	Application disabled.	Cancel the disabling and try again.
403	Deploy.0002 1484	Insufficient permissions for this self-hosted agent pool.	Insufficient permissions for this self-hosted agent pool.	Add the permission and try again.
403	Deploy.0001 5835	Your package is frozen since expiring.	Your package is frozen since expiring.	Renew it to restore functionality.
403	Deploy.0001 5836	Frozen resource for legal reasons. Related functions are unavailable.	Frozen resource for legal reasons. Related functions are unavailable.	Contact technical support.
403	Deploy.0001 5837	Frozen resource for security reasons. Related functions are unavailable.	Frozen resource for security reasons. Related functions are unavailable.	Contact technical support.
403	Deploy.0001 5838	Frozen tenant of this project. Related functions are unavailable.	Frozen tenant of this project. Related functions are unavailable.	Contact the tenant administrator to unfreeze the tenant and try again.

Status Code	Error Codes	Error Message	Description	Solution
403	Deploy.00015839	Expired tenant package of current project. Related functions have been frozen.	Expired tenant package of current project. Related functions have been frozen.	Contact the tenant administrator to renew the subscription and try again.
403	Deploy.00015850	Frozen account for legal reasons. Related functions are unavailable.	Frozen account for legal reasons. Related functions are unavailable.	Contact technical support.
403	Deploy.00015851	Frozen account for security reasons. Related functions are unavailable.	Frozen account for security reasons. Related functions are unavailable.	Contact technical support.
403	Deploy.00015852	Frozen account due to no real-name authentication. Related functions are unavailable.	Frozen account due to no real-name authentication. Related functions are unavailable.	Authenticate your real name and try again.
404	Deploy.00021141	Target cluster not found.	Target cluster not found.	Ensure that the target host cluster exists and try again.
403	Deploy.00021485	IAM authentication failed.	IAM authentication failed.	Check whether you have the required IAM permissions.
400	Deploy.00021486	agency_urn: Mandatory.	The value of agency_urn cannot be empty.	After IAM 5.0 is enabled, associate an agency URN when creating or editing an application.

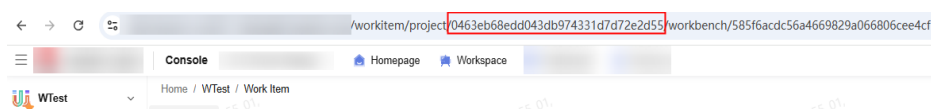
Status Code	Error Codes	Error Message	Description	Solution
403	Deploy.0002 1487	Only use agencies associated with the current tenant.	Only agencies of the current tenant can be associated.	When creating or editing an application, associate an agency of the current tenant.
400	Deploy.0002 1488	CodeArts Deploy was not delegated or the agency was not found.	The agency was not found or the delegated party is not CodeArts Deploy.	When creating or editing an application, associate an agency whose delegated party is CodeArts Deploy.
400	Deploy.0002 1001	Abnormal parameter.	Request parameters are abnormal.	Check whether the request parameters meet the requirements.
400	Deploy.0002 1801	runtime does not exist.	runtime does not exist.	Ensure that the runtime exists and try again.
400	Deploy.0002 1803	The deployment resource does not exist.	The deployment resource does not exist.	Ensure that the deployment resource exists and try again.
400	Deploy.0002 1804	The environment does not exist.	The environment does not exist.	Ensure that the environment exists and try again.
400	Deploy.0002 1805	The deployment instance does not exist.	The deployment instance does not exist.	Ensure that the deployment instance exists and try again.
400	Deploy.0002 1806	GitOps deployment task already exists.	GitOps deployment task already exists.	Ensure that the GitOps deployment task is unique and try again.
429	Deploy.0001 0429	The current request is too frequent. Try again later.	The current request is too frequent. Try again later.	Try again later.

7.3 Obtaining a Project ID

7.3.1 Obtaining a CodeArts Project ID

Obtaining a Project ID from a URL

- Step 1** [Log in to the Huawei Cloud console](#) with your Huawei Cloud account.
- Step 2** Click  in the upper left corner and choose **Developer Services > CodeArts** from the service list.
- Step 3** Click **Go to Workspace** in the upper right corner to access the CodeArts workspace.
- Step 4** Go to the specified project. In the following figure, the content in the red box is the CodeArts project ID.



----End

7.3.2 Obtaining an IAM Project ID

Obtaining a Project ID by Calling an API

A project ID can be obtained by calling a specific API. For details, see [Querying Project Information](#).

The API used to obtain a project ID is **GET https://{Endpoint}/v4/projects/**, where *{Endpoint}* indicates the Req endpoint. You can obtain the Req endpoint from [Regions and Endpoints](#). For details about API authentication, see [Authentication](#).

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

```
{
  "projects": [ {
    "project_num_id": 3183801,
    "project_id": "41bd3eab86544863b8fc92ffcd35e3c8",
    "project_name": "demo_project",
    "description": "demo",
    "created_time": 1576114296000,
    "updated_time": 1576114296000,
    "project_type": "xboard",
    "creator": {
      "user_num_id": 4097,
      "user_id": "c4bd39f0573a436589714bedbcca8536",
      "user_name": "modile_user",
      "domain_id": "2489d8cbba804db8bcd35384685ff3ac",
      "domain_name": "modile_user",
      "nick_name": "Tom.M.Riddle"
    }
  }
],
}
```

```
"total" : 10  
}
```

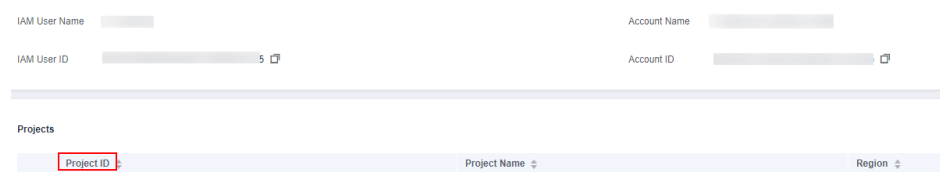
Obtaining an IAM Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Hover over the username in the upper right corner and click **My Credentials** from the drop-down list.

On the **API Credentials** page, view the project ID in the project list.

Figure 7-1 Viewing an IAM project ID



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 the username and choose **My Credentials** from the drop-down list.

On the displayed **API Credentials** page, view **Account ID**.