

SoftWare Repository for Container

API Reference

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1 Before You Start

1.1 Overview

Welcome to use SoftWare Repository for Container (SWR). SWR provides easy, secure, and reliable management over container images throughout their lifecycles, facilitating the deployment of containerized applications.

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

If you plan to access SWR through APIs, ensure that you are familiar with SWR concepts. For details, see [Introduction](#).

1.2 API Calling

SWR supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS.

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

1.3 Endpoints

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

Select an endpoint based on your service requirements.

1.4 Constraints

- The number of SWR organizations that you can create is determined by your quota, as shown in [Table 1-1](#).

Table 1-1 Quota

| Resource | Quota |
|-------------------------|-------|
| Number of organizations | 5 |

For details about how to increase a quota, see [How Do I Apply for a Higher Quota?](#)

- For more constraints, see API description.

1.5 Concepts

- **Account**

An account is created upon successful signing up. 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, which should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.
- **User**

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

API authentication requires information such as the account name, username, and password.
- **Region**

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

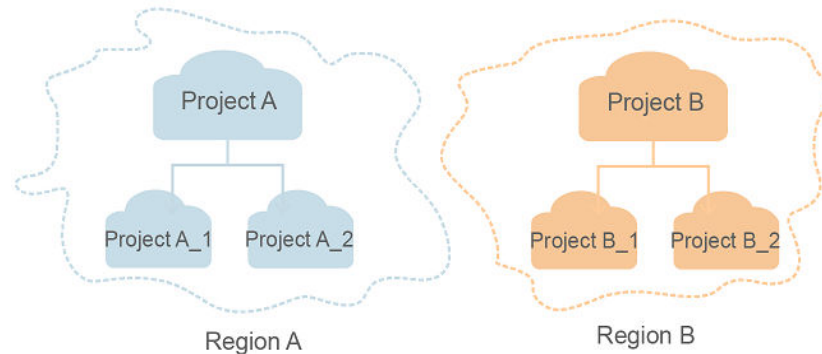
For details, see [Region and AZ](#).
- **AZ**

An AZ comprises of one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Computing, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.
- **Project**

A region corresponds to a project. Default projects are defined to group and physically isolate resources (including computing, storage, and network resources) across regions. You can grant users permissions in a default project to access all resources in the region associated with the project. If you need more refined access control, create subprojects under a default project and

create resources in subprojects. Then you can assign users the permissions required to access only the resources in the specific subprojects.

Figure 1-1 Project isolation model



- **Enterprise project**
Enterprise projects group and manage resources across regions. Resources in different enterprise projects are logically isolated. An enterprise project can contain resources of multiple regions, and resources can be added to or removed from enterprise projects.
For details about enterprise projects and about how to obtain enterprise project IDs, see [Enterprise Management User Guide](#).

2 Calling APIs

2.1 Making an API Request

This section describes the structure of a RESTful API request, and uses the IAM API for [creating an IAM user](#) as an example to describe how to call an API.

Request URI

A request URI is in the following format:

{URI-scheme}://{Endpoint}/{resource-path}?{query-string}

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

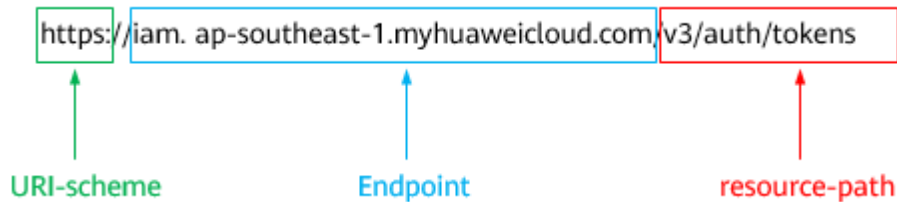
Table 2-1 URI parameter description

| Parameter | Description |
|---------------|---|
| URI-scheme | Protocol used to transmit requests. All APIs use HTTPS. |
| Endpoint | Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from Regions and Endpoints . For example, the endpoint of IAM in the CN-Hong Kong region is iam.ap-southeast-1.myhuaweicloud.com . |
| resource-path | Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the resource-path of the API used to obtain a user token is /v3/auth/tokens . |
| query-string | Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of <i>Parameter name=Parameter value</i> . For example, ?limit=10 indicates that a maximum of 10 data records will be displayed. |

For example, to obtain an IAM token in the **CN-Hong Kong** region, obtain the endpoint of IAM (**iam.ap-southeast-1.myhuaweicloud.com**) for this region and the **resource-path (/v3/auth/tokens)** in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

```
https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
```

Figure 2-1 Example URI



NOTE

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

Request Methods

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

Table 2-2 HTTP methods

| Method | Description |
|--------|---|
| GET | Requests the server to return specified resources. |
| PUT | Requests the server to update specified resources. |
| POST | Requests the server to add resources or perform special operations. |
| DELETE | Requests the server to delete specified resources, for example, an object. |
| HEAD | Same as GET except that the server must return only the response header. |
| PATCH | Requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created. |

For example, in the case of the API used to **obtain a user token**, the request method is **POST**. The request is as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
```

Request Header

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

Common request header fields are as follows.

Table 2-3 Common request header fields

| Parameter | Description | Mandatory | Example Value |
|----------------|---|---|--|
| Host | Specifies the server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of <i>Hostname:Port number</i> . If the port number is not specified, the default port is used. The default port number for https is 443 . | No This field is mandatory for AK/SK authentication. | code.test.com or code.test.com:443 |
| Content-Type | Specifies the type (or format) of the message body. The default value application/json is recommended. Other values of this field will be provided for specific APIs if any. | Yes | application/json |
| Content-Length | Specifies the length of the request body. The unit is byte. | No | 3495 |

| Parameter | Description | Mandatory | Example Value |
|--------------|--|---|---|
| X-Project-Id | Specifies the project ID. Obtain the project ID by following the instructions in Obtaining a Project ID . | No This field is mandatory for requests that use AK/SK authentication in the Dedicated Cloud (DeC) scenario or multi-project scenario. | e9993fc787d94b6c886cb aa340f9c0f4 |
| X-Auth-Token | Specifies the user token. It is a response to the API for obtaining a user token (This is the only API that does not require authentication). After the request is processed, the value of X-Subject-Token in the response header is the token value. | No This field is mandatory for token authentication. | The following is part of an example token: MIIPAgYJKoZIhvcNAQc- Co...ggg1BBIINPXsidG9rZ |

 **NOTE**

In addition to supporting authentication using tokens, APIs support authentication using AK/SK, which uses SDKs to sign a request. During the signature, the **Authorization** (signature authentication) and **X-Sdk-Date** (time when a request is sent) headers are automatically added in the request.

For more details, see "Authentication Using AK/SK" in [Authentication](#).

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

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

(Optional) Request Body

This part is optional. A request body is generally sent in a structured format (for example, JSON or XML), corresponding to **Content-Type** in the request header, and is used to transfer content other than the request header. If the request body contains full-width characters, these characters must be coded in UTF-8.

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

In the case of the API used to [obtain a user token](#), the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace *username*, *domainname*, ******* (login password), and *xxxxxxxxxxxxxxxxxxxx* (project name) with the actual values. Obtain a project name from [Regions and Endpoints](#).

NOTE

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see [Obtaining a User Token](#).

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

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

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

2.2 Authentication

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

- Token authentication: Requests are authenticated using tokens.
- AK/SK authentication: Requests are encrypted using AK/SK pairs. AK/SK authentication is recommended because it is more secure than token authentication.

Token Authentication

NOTE

The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API. You can obtain a token by calling the [Obtaining a User Token](#) API.

A cloud service can be deployed as either a project-level service or global service, where,

- For a project-level service, you need to obtain a project-level token. When you call the API, set **auth.scope** in the request body to **project**.
- For a global service, you need to obtain a global token. When you call the API, set **auth.scope** in the request body to **domain**.

SWR is a project-level service. When you call the API, 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....** can be added to a request as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK Authentication

NOTE

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

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

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

 **NOTE**

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

2.3 Response

Status Code

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

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

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

Response Header

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

[Figure 2-2](#) 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 2-2 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]
[REDACTED]
x-xss-protection → 1; mode=block;

```

(Optional) Response Body

The body of a response is often returned in a structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The response body transfers content except the response header.

The following is part of the response body for the API to **obtain a user token**.

```

{
  "token": {
    "expires_at": "2019-02-13T06:52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "az-01",
            .....

```

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

```

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

```

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

3 API Overview

You can query information about organizations, image repositories, and images, and manage organizations, image repositories, and images by using APIs provided by SWR.

Organization Management

| API | Description |
|--|---|
| Creating an Organization | Creates an organization. |
| Deleting an Organization | Deletes an organization. |
| Querying Organizations | Queries the list of organizations. |
| Querying Details About an Organization | Queries details about an organization, including its ID, name, creator, and user permissions. |

Image Repository Management

| API | Description |
|---|--|
| Creating an Image Repository in an Organization | Creates an image repository in an organization. |
| Deleting an Image Repository from an Organization | Deletes an image repository in an organization. |
| Updating the Brief Information on an Image Repository | Updates the brief information on an image repository in an organization, including the category , is_public , and description . |

| | |
|---|--|
| Querying the Brief Information on an Image Repository | Queries the brief information on an image repository in an organization, including the image's repository ID, organization ID, repository name, description of the repository, the creator and capacity of the repository, and the image pull address. |
| Querying Image Repositories | Queries the image repository list. |
| Viewing Shared Images | Views the list of shared images. |

Image Tag Management

| API | Description |
|--|--|
| Querying Image Tags | Queries all image tags of an image repository. |
| Deleting an Image with a Specified Tag | Deletes the image with a specified tag in an image repository. |

Shared Account Management

| API | Description |
|---|--|
| Creating an Account Used for Image Sharing | Creates an account used for image sharing. You can share your private images with other users, granting them permissions to pull the images. |
| Deleting an Account Used for Image Sharing | Deletes an account used for image sharing. |
| Updating an Account Used for Image Sharing | Updates an account used for image sharing. |
| Checking the Existence of an Account Used for Image Sharing | Check whether an account used for image sharing exists. |
| Querying Accounts Used for Image Sharing | Queries the list of accounts used for image sharing. |

API Version

| API | Description |
|---|--|
| Querying All API Versions | Queries all available API versions of SWR. |

| | |
|---|--------------------------------------|
| Querying a Specific API Version | Query a specific API version of SWR. |
|---|--------------------------------------|

Organization Permission Management

| API | Description |
|---|--|
| Creating Organization Permissions | Grants permissions of an organization to certain users so that they can manage, edit, and read images from the organization. |
| Deleting Organization Permissions | Deletes the organization operation permissions of certain users. |
| Updating Organization Permissions | Updates the organization operation permission types for certain users. |
| Querying Organization Permissions | Queries organization permissions. |

Image Permission Management

| API | Description |
|--|--|
| Creating Image Permissions | Grants permissions of an image to certain users so that they can manage, edit, and read the image. |
| Deleting Image Permissions | Deletes the image operation permissions of certain users. |
| Updating Image Permissions | Updates the image operation permission types for certain users. |
| Querying Image Permissions | Queries image permissions. |

Automatic Image Synchronization Task Management

| API | Description |
|--|---|
| Querying Details About an Automatic Image Synchronization Task | Queries details about an image synchronization task. You can use this API to check whether an image synchronization task is successful. |
| Querying Automatic Image Synchronization Tasks | Queries all automatic image synchronization tasks of a repository. |

| | |
|--|---|
| Creating an Automatic Image Synchronization Task | Creates an automatic image synchronization task. New images and image updates can be automatically synchronized between regions. Existing images must be manually synchronized. For details, see Manually Synchronizing Images . |
| Deleting an Automatic Image Synchronization Task | Deletes a specified automatic image synchronization task based on the target region and organization. |
| Manually Synchronizing Images | Existing images must be manually synchronized. Check whether image synchronization succeeded using either of the two ways: <ul style="list-style-type: none"> • If the response status code is 200 and no errors are reported, the image synchronization succeeded. • Use the SWR console or call the Querying the Brief Information on an Image Repository API. If the synchronized image tag exists in the target organization of the target region, the image synchronization succeeded. |

Trigger Management

| API | Description |
|--|--|
| Creating a Trigger | Creates a trigger. |
| Querying Triggers of a Specific Image Repository | Queries the trigger list of a specific image repository. |
| Deleting a Trigger | Deletes a trigger. |
| Querying Details About a Trigger | Queries details about a trigger. |
| Updating the Status of a Trigger | Updates the status of a trigger. |

Image Retention Policy Management

| API | Description |
|--|---|
| Creating an Image Retention Policy | Creates an image retention policy. |
| Querying Image Retention Policies | Queries the list of image retention policies. |

| | |
|---|--|
| Deleting an Image Retention Policy | Deletes an image retention policy. |
| Querying Image Retention Policy Records | Queries the records of image retention policies. |
| Modifying an Image Retention Policy | Modifies an image retention policy. |
| Querying Image Retention Records | Queries image retention records. |

Temporary Login Command

| API | Description |
|--|---|
| Generating a Temporary Login Command | Generates a temporary login command using the value of X-Swr-Dockerlogin in the response header and the value of host in the response body. |

Quota Management

| API | Description |
|---------------------------------|----------------------------|
| Querying Quotas | Queries quota information. |

4 API

4.1 Organization Management

4.1.1 Creating an Organization

Description

Create an organization.

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces

Request Parameters

Table 4-1 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 application/json The default value is application/json . |

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

Table 4-2 Request body parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

Response Parameters

N/A

Example Request

```
POST https://{endpoint}/v2/manage/namespaces
{
  "namespace" : "group"
}
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class CreateNamespaceSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        CreateNamespaceRequest request = new CreateNamespaceRequest();
        CreateNamespaceRequestBody body = new CreateNamespaceRequestBody();
        body.withNamespace("group");
        request.withBody(body);
        try {
            CreateNamespaceResponse response = client.createNamespace(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
    .with_credentials(credentials) \
    .with_region(SwrRegion.value_of("cn-north-4")) \
    .build()

try:
    request = CreateNamespaceRequest()
    request.body = CreateNamespaceRequestBody(
        namespace="group"
    )
    response = client.create_namespace(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.CreateNamespaceRequest{}
    request.Body = &model.CreateNamespaceRequestBody{
        Namespace: "group",
    }
    response, err := client.CreateNamespace(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|---|
| 201 | Organization created. |
| 400 | The request is incorrect or the number of namespaces exceeds the upper limit. |
| 401 | Authentication failed. |
| 409 | The resource already exists. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.1.2 Querying Organizations

Description

Query organizations.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces

Table 4-3 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| namespace | No | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed and multiple consecutive hyphens are allowed. |
| filter | No | String | Set this parameter to namespace::<i>{namespace}</i> mode::<i>{mode}</i> . namespace indicates the organization name. If mode is not set, the list of authorized organizations is displayed. If mode is set to visible , the list of visible organizations is displayed. (Some organizations can be viewed by the repository, but cannot by the organization.) |

Request Parameters

Table 4-4 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 application/json . The default value is application/json . |

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

 **NOTE**

By default, all organizations will be returned.

Response Parameters

Status code: 200

Table 4-5 Response body parameter

| Parameter | Type | Description |
|------------|--|--------------------|
| namespaces | Array of ShowNames pace objects | Organization list. |

Table 4-6 ShowNamespace

| Parameter | Type | Description |
|--------------|---------|--|
| id | Integer | id |
| name | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| creator_name | String | IAM username. |
| auth | Integer | User role. 7 : admin. 3 : edit. 1 : view. |

Example Request

GET <https://{endpoint}/v2/manage/namespaces?filter=namespace::{namespace}>

Example Response

Status code: 200

The list of organizations has been obtained.

```
{
  "namespaces" : [ {
    "id" : 1422,
    "name" : "group",
    "creator_name" : "username",
    "auth" : 7
  } ]
}
```

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class ListNamespacesSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        ListNamespacesRequest request = new ListNamespacesRequest();
        request.withNamespace("<namespace>");
        request.withFilter("<filter>");
        try {
            ListNamespacesResponse response = client.listNamespaces(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
        }
    }
}
```

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

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = ListNamespacesRequest()
        request.namespace = "<namespace>"
        request.filter = "<filter>"
        response = client.list_namespaces(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
```

```

swr.SwrClientBuilder().
    WithRegion(region.ValueOf("cn-north-4")).
    WithCredential(auth).
    Build())

request := &model.ListNamespacesRequest{}
namespaceRequest:= "<namespace>"
request.Namespace = &namespaceRequest
filterRequest:= "<filter>"
request.Filter = &filterRequest
response, err := client.ListNamespaces(request)
if err == nil {
    fmt.Printf("%v\n", response)
} else {
    fmt.Println(err)
}
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | The list of organizations has been obtained. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.1.3 Deleting an Organization

Description

Delete an organization.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}

Table 4-7 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

Request Parameters

Table 4-8 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

N/A

Example Request

DELETE https://{endpoint}/v2/manage/namespaces/{namespace}

Example Response

N/A

Status Codes

| Status Code | Description |
|-------------|--|
| 204 | Deletion succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization does not exist. |
| 406 | The organization cannot be deleted because it contains images. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.1.4 Obtaining Details About an Organization

Description

Obtain details about an organization.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}

Table 4-9 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

Request Parameters

Table 4-10 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-11 Response body parameters

| Parameter | Type | Description |
|-----------|---------|-------------|
| id | Integer | id |

| Parameter | Type | Description |
|--------------|---------|--|
| name | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| creator_name | String | IAM username. |
| auth | Integer | User role. 7 : admin. 3 : edit. 1 : view. |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}
```

Example Response

Status code: 200

Query succeeded.

```
{
  "id" : 1422,
  "name" : "huawei",
  "creator_name" : "liugenping",
  "auth" : 7
}
```

Status Codes

| Status Code | Description |
|-------------|----------------------------------|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.2 Managing Image Repositories

4.2.1 Creating an Image Repository in an Organization

Description

Create an image repository in an organization.

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/repos

Table 4-12 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Regular expression: [a-z0-9]+(?:[._] _ [-])* |

Request Parameters

Table 4-13 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |

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

Table 4-14 Request body parameters

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| is_public | Yes | Boolean | Whether the repository is a public repository. When the value is true , it indicates the repository is public. When the value is false , it indicates the repository is private. |
| category | No | String | Repository type. The value can be app_server , linux , framework_app , database , lang , other , windows , or arm . |
| description | No | String | Brief description of the image repository. |

Response Parameters

N/A

Example Request

```
POST https://{endpoint}/v2/manage/namespaces/{namespace}/repos
{
  "repository": "busybox",
  "category": "linux",
  "description": "this is a busybox repository",
  "is_public": true
}
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class CreateRepoSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("<YOUR REGION>"))
            .build();
        CreateRepoRequest request = new CreateRepoRequest();
        request.withNamespace("{namespace}");
        CreateRepoRequestBody body = new CreateRepoRequestBody();
        body.withDescription("this is a busybox repository");
        body.withCategory(CreateRepoRequestBody.CategoryEnum.fromValue("linux"));
        body.withIsPublic(true);
        body.withRepository("busybox");
        request.withBody(body);
        try {
            CreateRepoResponse response = client.createRepo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        }
    }
}
```

```

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

```

Python

```

# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateRepoRequest()
        request.body = CreateRepoRequestBody(
            description="this is a busybox repository",
            category="linux",
            is_public=True,
            repository="busybox"
        )
        response = client.create_repo(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
    swr.SwrClientBuilder().
        WithRegion(region.ValueOf("cn-north-4")).
        WithCredential(auth).
        Build())

request := &model.CreateRepoRequest{
descriptionCreateRepoRequestBody:= "this is a busybox repository"
categoryCreateRepoRequestBody:= model.GetCreateRepoRequestBodyCategoryEnum().LINUX
request.Body = &model.CreateRepoRequestBody{
    Description: &descriptionCreateRepoRequestBody,
    Category: &categoryCreateRepoRequestBody,
    IsPublic: true,
    Repository: "busybox",
}
response, err := client.CreateRepo(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|------------------------------|
| 200 | Creation succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 409 | The image repository exists. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.2.2 Deleting an Image Repository from an Organization

Description

Delete an image repository in an organization.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}/repos/{repository}

Table 4-15 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-16 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

N/A

Example Request

```
DELETE https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}
```

Example Response

N/A

Status Codes

| Status Code | Description |
|-------------|---|
| 204 | The brief information about the image repository is successfully deleted. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The image repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.2.3 Updating the Brief Information on an Image Repository

Description

Update the brief information on an image in an organization of a tenant, including the **category**, **is_public**, and **description**.

Constraints

None

API Calling

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

URI

PATCH /v2/manage/namespaces/{namespace}/repos/{repository}

Table 4-17 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-18 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-19 Request body parameters

| Parameter | Mandatory | Type | Description |
|-------------|-----------|---------|--|
| is_public | Yes | Boolean | Whether the repository is a public repository. When the value is true , it indicates the repository is public. When the value is false , it indicates the repository is private. |
| category | No | String | Repository type. The value can be app_server , linux , framework_app , database , lang , other , windows , or arm . |
| description | No | String | Brief description of the image repository. |

Response Parameters

N/A

Example Request

```
PATCH https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}
{
  "category" : "database",
  "description" : "this is a busybox repository",
  "is_public" : false
}
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class UpdateRepoSolution {
    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);

SwrClient client = SwrClient.newBuilder()
    .withCredential(auth)
    .withRegion(SwrRegion.valueOf("cn-north-4"))
    .build();

UpdateRepoRequest request = new UpdateRepoRequest();
UpdateRepoRequestBody body = new UpdateRepoRequestBody();
body.withDescription("this is a busybox repository");
body.withCategory(UpdateRepoRequestBody.CategoryEnum.fromValue("database"));
body.withIsPublic(false);
request.withBody(body);
try {
    UpdateRepoResponse response = client.updateRepo(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = UpdateRepoRequest()
        request.body = UpdateRepoRequestBody(
            description="this is a busybox repository",
            category="database",
```

```
        is_public=False
    )
    response = client.update_repo(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.UpdateRepoRequest{}
    descriptionUpdateRepoRequestBody := "this is a busybox repository"
    categoryUpdateRepoRequestBody := model.GetUpdateRepoRequestBodyCategoryEnum().DATABASE
    request.Body = &model.UpdateRepoRequestBody{
        Description: &descriptionUpdateRepoRequestBody,
        Category: &categoryUpdateRepoRequestBody,
        IsPublic: false,
    }
    response, err := client.UpdateRepo(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|---|
| 201 | The brief information about the image repository is successfully updated. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The image repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.2.4 Querying the Brief Information on an Image Repository

Description

Query the brief information on an image repository.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}

Table 4-20 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-21 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |

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

Response Parameters

Status code: 200

Table 4-22 Response body parameters

| Parameter | Type | Description |
|---------------|---------|---|
| id | Long | Repository ID. |
| ns_id | Long | Organization ID. |
| name | String | Repository name. |
| category | String | Repository category (to be changed; one image will have multiple labels). |
| description | String | Repository description. |
| creator_id | String | Repository creator ID. |
| creator_name | String | Repository creator. |
| size | Long | Repository size. |
| is_public | Boolean | Whether the repository is public. When the value is true , it indicates the repository is public. When the value is false , it indicates the repository is private. |
| num_images | Long | Number of images in the repository, ranging from 0 to 9,223,372,036,854,775,807. |
| num_downloads | Long | Download times. |
| url | String | URL of the repository logo (not in use). |
| path | String | External image pull address, for example, swr.cn-north-1.myhuaweicloud.com/namespace/repository . |
| internal_path | String | Internal image pull address, for example, 10.125.0.198:20202/namespace/repository . |

| Parameter | Type | Description |
|-----------|---------|---|
| created | String | Time when a repository is created. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| updated | String | Time when a repository is updated. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| domain_id | String | Account ID. |
| priority | Integer | Image sorting priority. |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}
```

Example Response

Status code: 200

Request succeeded.

```
{
  "id" : 0,
  "ns_id" : 0,
  "name" : "busybox",
  "category" : "other",
  "description" : "containerops",
  "creator_id" : "1",
  "creator_name" : "admin",
  "size" : 2099575,
  "is_public" : false,
  "num_images" : 0,
  "num_download" : 0,
  "url" : "",
  "path" : "swr.cn-north-1.myhuaweicloud.com/namespace/repository",
  "internal_path" : "10.125.0.198:20202/namespace/repository",
  "created" : "2017-08-17T12:00:03.915153267Z",
  "updated" : "2017-08-17T12:00:03.915153267Z",
  "domain_id" : "da44776c316c4a99b3683bb174f8821b",
  "priority" : 0
}
```

Status Codes

| Status Code | Description |
|-------------|------------------------|
| 200 | Request succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |

| Status Code | Description |
|-------------|--------------------------------------|
| 404 | The image repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.2.5 Querying Image Repositories

Description

Query image repositories.

Constraints

None

API Calling

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

URI

GET /v2/manage/repos

Table 4-23 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | No | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| name | No | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| category | No | String | Repository type. The value can be app_server , linux , framework_app , database , lang , windows , arm , or other . |
| limit | No | String | Number of returned records. Parameters offset and limit should always be used together. If this parameter is not specified, 100 records will be returned by default. |
| offset | No | String | Start index. The value must be 0 or a positive number. If this parameter is not specified, the start index is 0 by default. Parameters offset and limit should always be used together. |
| order_column | No | String | Sorting by column. You can set this parameter to updated_time (update time), name , tag_count (number of tags), namespace (organization), or is_public (public or private). Parameters order_column and order_type should always be used together. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|---|
| order_type | No | String | Sorting order. You can set this parameter to desc (descending order) and asc (ascending order). Parameters order_column and order_type should always be used together. |
| is_public | No | String | Whether images in the repository are public or private. true indicates public and false indicates private. |
| filter | No | String | Pass at least one of the following filter parameters: namespace : organization name. It supports fuzzy match. name : image repository name. It supports fuzzy match. category : image repository type. The value can be app_server , linux , framework_app , database , lang , windows , arm , or other . is_public : whether images in the repository are public or private. true indicates public and false indicates private. limit : number of returned records. offset : the start index. Parameters offset and limit should always be used together. order_column : sorting by column. You can set this parameter to updated_time (update time), name , tag_count (number of tags), namespace (organization), or is_public (public or private). order_type : sorting order. The value can be desc (descending order) or asc (ascending order). Parameters order_column and order_type should always be used together. |

Request Parameters

Table 4-24 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-25 Response header parameter

| Parameter | Type | Description |
|---------------|--------|---|
| Content-Range | String | <i>Offset</i> (Start index) - <i>Count</i> (Number of records on the current page) / <i>Total</i> (Total number of records) |

Table 4-26 Response body parameter

| Parameter | Type | Description |
|-----------|--|--------------------|
| [Array] | Array of ShowReposResp objects | Request succeeded. |

Table 4-27 ShowReposResp

| Parameter | Type | Description |
|-----------|--------|------------------|
| name | String | Repository name. |

| Parameter | Type | Description |
|----------------|------------------|---|
| category | String | Repository category. (This parameter is to be replaced with labels. One image can have multiple labels.) |
| description | String | Repository description. |
| size | Long | Repository size. |
| is_public | Boolean | Whether the repository is public. When the value is true , it indicates the repository is public. When the value is false , it indicates the repository is private. |
| num_images | Long | Number of images in the repository, ranging from 0 to 9,223,372,036,854,775,807. |
| num_downloaded | Long | Download times. |
| created_at | String | Time when a repository is created. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| updated_at | String | Time when a repository is updated. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| logo | String | Repository logo address (not in use). |
| url | String | URL of the repository logo (not in use). |
| path | String | External image pull address, for example, swr.cn-north-1.myhuaweicloud.com/namespace/repository . |
| internal_path | String | Internal image pull address, for example, 10.125.0.198:20202/namespace/repository . |
| domain_name | String | Tenant name. |
| namespace | String | Tenant organization. |
| tags | Array of strings | Image tag list. |
| status | Boolean | Query images shared by others: specifies whether the shared images have expired. Query images shared by yourself: The default value is false , which is meaningless. |
| total_range | Long | Total number of records. |

Example Request

```
GET https://{endpoint}/v2/manage/repos
```

Example Response

Status code: 200

Request succeeded.

```
[ {  
  "name" : "nginx",  
  "category" : "linux",  
  "size" : 200977474,  
  "is_public" : false,  
  "num_images" : 2,  
  "num_download" : 0,  
  "created_at" : "2017-01-01T00:00:00Z",  
  "updated_at" : "2017-09-11T03:00:02.542841141Z",  
  "url" : "",  
  "path" : "swr.cn-north-1.myhuaweicloud.com/namespace/repository",  
  "internal_path" : "10.125.0.198:20202/namespace/repository",  
  "domain_name" : "root",  
  "namespace" : "root",  
  "tags" : [ "latest", "log" ],  
  "status" : false,  
  "total_ranage" : 4  
} ]
```

Status Codes

| Status Code | Description |
|-------------|------------------------|
| 200 | Request succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.2.6 Querying Shared Images

Description

Query shared images.

Constraints

None

API Calling

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

URI

GET /v2/manage/shared-repositories

Table 4-28 Query parameters

| Parameter | Mandatory | Type | Description |
|--------------------|-----------|--------|--|
| namespace | No | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| name | No | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| center | Yes | String | The value can only be self or thirdparty . self : images shared by you. thirdparty : images shared with you by others |
| domain_name | No | String | Owner name. |
| status | No | String | false : The sharing has expired. true : The sharing is valid. |

| | | | |
|---------------------|----|--------|---|
| limit | No | String | Number of returned records. Parameters offset and limit should always be used together. If this parameter is not specified, all records will be returned by default. |
| offset | No | String | Start index. The value must be 0 or a positive number. If this parameter is not specified, all records will be returned by default. Parameters offset and limit should always be used together. |
| order_column | No | String | Sorting by column. You can set this parameter to updated_at (update time), name , tag_count (number of tags), namespace (organization), or domain_name (owner). Parameters order_column and order_type should always be used together. |
| order_type | No | String | Sorting order. You can set this parameter to desc (descending order) and asc (ascending order). Parameters order_column and order_type should always be used together. |

| | | | |
|---------------|----|--------|--|
| filter | No | String | <p>Set this parameter to center:: {<i>center</i>} name::{<i>name</i>} limit:: {<i>limit</i>} offset::{<i>offset</i>} namespace::{<i>namespace</i>} order_column:: {<i>order_column</i>} order_type:: {<i>order_type</i>}.</p> <p>Where,</p> <p>center can be set to self (images shared by you) or thirdparty (images shared with you by others).</p> <p>namespace indicates the organization name.</p> <p>name indicates the image repository name.</p> <p>limit indicates the number of returned records.</p> <p>offset indicates the start index.</p> <p>order_column indicates sorting by column. The value can be updated_at (update time), name (image repository name), tag_count (number of tags), namespace (organization), and domain_name (owner).</p> <p>order_type indicates the sorting order. The value can be desc (descending order) or asc (ascending order).</p> |
|---------------|----|--------|--|

Request Parameters

Table 4-29 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | <p>Message body type (format). The value can be application/ json; charset=utf-8 application/json</p> <p>The default value is application/json.</p> |

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

Response Parameters

Status code: 200

Table 4-30 Response header parameter

| Parameter | Type | Description |
|---------------|--------|--|
| Content-Range | String | <i>Offset</i> (Start index) – <i>Count</i> (Number of records on the current page)/ <i>Total</i> (Total number of records) |

Table 4-31 Response body parameter

| Parameter | Type | Description |
|-----------|--|--------------------|
| [Array] | Array of ShowReposResp objects | Request succeeded. |

Table 4-32 ShowReposResp

| Parameter | Type | Description |
|-------------|---------|---|
| name | String | Repository name. |
| category | String | Repository category (to be changed; one image will have multiple labels). |
| description | String | Repository description. |
| size | Long | Repository size. |
| is_public | Boolean | Whether the repository is public. When the value is true , it indicates the repository is public. When the value is false , it indicates the repository is private. |

| Parameter | Type | Description |
|---------------|------------------|---|
| num_images | Long | Number of images in the repository, ranging from 0 to 9,223,372,036,854,775,807. |
| num_download | Long | Download times. |
| created_at | String | Time when a repository is created. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| updated_at | String | Time when a repository is updated. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| logo | String | Repository logo address (not in use). |
| url | String | URL of the repository logo (not in use). |
| path | String | External image pull address, for example, swr.cn-north-1.myhuaweicloud.com/namespace/repository . |
| internal_path | String | Internal image pull address, for example, 10.125.0.198:20202/namespace/repository . |
| domain_name | String | Tenant name. |
| namespace | String | Tenant organization. |
| tags | Array of strings | Image tag list. |
| status | Boolean | Query images shared by others: specifies whether the shared images have expired. Query images shared by yourself: The default value is false , which is meaningless. |
| total_range | Long | Total number of records. |

Example Request

```
GET https://{endpoint}/v2/manage/shared-repositories
```

Example Response

Status code: 200

Request succeeded.

```
[ {
  "name" : "huawei",
  "category" : "other",
  "description" : ""
```

```
"size" : 115645792,
"is_public" : false,
"num_images" : 1,
"num_download" : 0,
"created_at" : "2018-03-21T12:22:37Z",
"updated_at" : "2018-03-21T12:22:37Z",
"logo" : "",
"url" : "",
"path" : "swr.cn-north-1.myhuaweicloud.com/namespace/huawei",
"internal_path" : "100.125.0.198:20202/namespace/huawei",
"domain_name" : "domian",
"namespace" : "namespace",
"tags" : [ "latest" ],
"status" : true
}]
```

Status Codes

| Status Code | Description |
|-------------|------------------------|
| 200 | Request succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.3 Image Tag Management

4.3.1 Querying Image Tags

Description

Query image tags.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/tags

Table 4-33 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Table 4-34 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| limit | No | String | Number of returned records. Parameters offset and limit should always be used together. If this parameter is not specified, all records will be returned by default. |
| offset | No | String | Start index. The value must be 0 or a positive number. If this parameter is not specified, all records will be returned by default. Parameters offset and limit should always be used together. |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| order_column | No | String | Sorting by column. You can set this parameter to updated_at (sorting by update time) or tag (sorting by tag). Parameters order_column and order_type should always be used together. |
| order_type | No | String | Sorting order. You can set this parameter to desc (descending order) and asc (ascending order). Parameters order_column and order_type should always be used together. |
| tag | No | String | Image tag name. |
| filter | No | String | Set this parameter to offset:: { <i>offset</i> } limit:: { <i>limit</i> } order_column:: { <i>order_column</i> } order_type:: { <i>order_type</i> } tag:: { <i>tag</i> }. limit indicates the number of returned records. offset indicates the start index. Parameters offset and limit should always be used together. order_column indicates sorting by column. The value can be updated_at (sorting by update time) or tag (sorting by tag). order_type indicates the sorting order. The value can be desc (descending order) or asc (ascending order). tag indicates the image tag name. |

Request Parameters

Table 4-35 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-36 Response header parameter

| Parameter | Type | Description |
|---------------|--------|---|
| Content-Range | String | <i>Offset</i> (Start index) - <i>Count</i> (Number of records on the current page) / <i>Total</i> (Total number of records) |

Table 4-37 Response body parameter

| Parameter | Type | Description |
|-----------|--|-----------------|
| [Array] | Array of ShowReposTagResp objects | Image tag list. |

Table 4-38 ShowReposTagResp

| Parameter | Type | Description |
|-----------|------|-------------|
| id | Long | Tag ID. |

| Parameter | Type | Description |
|---------------|---------|--|
| repo_id | Long | Repository ID. |
| Tag | String | Image tag name. |
| image_id | String | Image ID. |
| manifest | String | Image manifest. |
| digest | String | Hash value of an image. |
| schema | Long | Docker protocol version. The version can be 1 or 2 . |
| path | String | External image pull address, for example, swr.cn-north-1.myhuaweicloud.com/namespace/repository:tag . |
| internal_path | String | Internal image pull path. For example, 10.125.0.198:20202/namespace/repository:tag . |
| size | Long | Image size, ranging from 0 to 9,223,372,036,854,775,807. |
| is_trusted | Boolean | By default, the value is false . Default value: false |
| created | String | Time when the image is created. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| updated | String | Time when an image is updated. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| deleted | String | Time when an image is deleted. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| domain_id | String | Account ID. |
| scanned | Boolean | Whether the image has been scanned. |
| tag_type | Long | 0 : manifest; 1 : manifest list. |

Example Request

GET https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/tags

Example Response

Status code: 200

The list of image tags is queried successfully.

```
[ {
  "id" : 0,
  "repo_id" : 0,
  "Tag" : "latest",
  "image_id" : "741f24a795d6d93d7c6edd11780d63c13e16c39615dd9d223378a57a836f2ee6",
  "manifest" : "{\"schemaVersion\":2,\"mediaType\":\"application/vnd.docker.distribution.manifest.v2+json\", \"config\":{\"mediaType\":\"application/vnd.docker.container.image.v1+json\", \"size\":\"1862\", \"digest\": \"sha256:741f24a795d6d93d7c6edd11780d63c13e16c39615dd9d223378a57a836f2ee6\"}, \"layers\": [{\"mediaType\":\"application/vnd.docker.image.rootfs.diff.tar.gzip\", \"size\":\"1292800\", \"digest\": \"sha256:8ac8bfaff55af948c796026ee867448c5b5b5d9dd3549f4006d9759b25d4a893\"}, {\"mediaType\": \"application/vnd.docker.image.rootfs.diff.tar.gzip\", \"size\":\"10240\", \"digest\": \"sha256:77dbf3a9fe11e81761a0f9df43a28e3e6f29bbb53c0c8cf71cd7efa69729aed\"}]}\",
  \"digest\" : \"sha256:57b605845a6367c34bfb6ea6477f16852f59aa1861a2b51d10ab77ae0a1dc9c3\",
  \"schema\" : 2,
  \"path\" : \"swr.cn-north-1.myhuaweicloud.com/namespace/busybox:latest\",
  \"internal_path\" : \"10.125.0.198:20202/namespace/busybox:latest\",
  \"size\" : 1304902,
  \"is_trusted\" : false,
  \"created\" : \"2018-07-06T06:18:55Z\",
  \"updated\" : \"2018-07-06T06:18:55Z\",
  \"deleted\" : null,
  \"domain_id\" : \"050*****6d70a960\",
  \"scanned\" : false,
  \"tag_type\" : 0
} ]
```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | The list of image tags is queried successfully. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The image repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.3.2 Creating an Image Tag

Description

Create an image tag.

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/repos/{repository}/tags

Table 4-39 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-40 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| Content-Type | Yes | String | Message body type (format). The value can be application/json or charset=utf-8 application/json . Default value: application/json |
| X-Auth-Token | Yes | String | User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). |

Table 4-41 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|---------|-----------------------|
| source_tag | Yes | String | Original tag name. |
| destination_tag | Yes | String | New tag name. |
| override | No | Boolean | Whether to overwrite. |

Response Parameters

None

Example Request

```
POST https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/tags
{
  "source_tag": "v1",
  "destination_tag": "v2",
  "override": false
}
```

Example Response

None

Status Codes

| Status Code | Description |
|-------------|--|
| 201 | Created. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | Image repository or specified image tag not found. |
| 409 | Image tag already exists. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.3.3 Deleting an Image with a Specified Tag

Description

Delete an image with a specified tag.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}/repos/{repository}/tags/{tag}

Table 4-42 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| tag | Yes | String | Image tag name. |

Request Parameters

Table 4-43 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json; charset=utf-8 application/json The default value is application/json . |

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

Response Parameters

N/A

Example Request

```
DELETE https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/tags/{tag}
```

Example Response

N/A

Status Codes

| Status Code | Description |
|-------------|--|
| 204 | The image with a specified tag is deleted successfully. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The image repository or the image of the specified tag does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.4 Shared Account Management

4.4.1 Creating an Account Used for Image Sharing

Description

Create an account used for image sharing. After pushing a private image, you can share it with other users and grant them permissions to pull the image.

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains

Table 4-44 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-45 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-46 Request body parameters

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--------|--|
| access_domain | Yes | String | Shared tenant name. |
| permit | Yes | String | Currently, only the read permission is supported. |
| deadline | Yes | String | Valid until (UTC). forever indicates permanently valid. |
| description | No | String | Description |

Response Parameters

N/A

Example Request

```
POST https://{endpoint}/v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains
{
  "access_domain": "huawei",
  "permit": "read",
  "deadline": "2018-10-01T16:00:00.000Z",
  "description": "description"
}
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class CreateRepoDomainsSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        CreateRepoDomainsRequest request = new CreateRepoDomainsRequest();
        CreateRepoDomainsRequestBody body = new CreateRepoDomainsRequestBody();
        body.withDescription("description");
        body.withDeadline("2018-10-01T16:00:00.000Z");
        body.withPermit("read");
        body.withAccessDomain("huawei");
        request.withBody(body);
        try {
            CreateRepoDomainsResponse response = client.createRepoDomains(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateRepoDomainsRequest()
        request.body = CreateRepoDomainsRequestBody(
            description="description",
            deadline="2018-10-01T16:00:00.000Z",
            permit="read",
            access_domain="huawei"
        )
        response = client.create_repo_domains(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
```

```
WithRegion(region.ValueOf("cn-north-4")).
WithCredential(auth).
Build()

request := &model.CreateRepoDomainsRequest{}
descriptionCreateRepoDomainsRequestBody:= "description"
request.Body = &model.CreateRepoDomainsRequestBody{
    Description: &descriptionCreateRepoDomainsRequestBody,
    Deadline: "2018-10-01T16:00:00.000Z",
    Permit: "read",
    AccessDomain: "huawei",
}
response, err := client.CreateRepoDomains(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|------------------------------------|
| 201 | Creation succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 409 | The shared account already exists. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.4.2 Querying Accounts Used for Image Sharing

Description

Query accounts used for image sharing.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains

Table 4-47 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-48 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |

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

 NOTE

By default, 100 records will be returned.

Response Parameters

Status code: 200

Table 4-49 Response body parameter

| Parameter | Type | Description |
|-----------|--|-----------------------------|
| [Array] | Array of ShowRepoDomainsResponse objects | The list of shared tenants. |

Table 4-50 ShowRepoDomainsResponse

| Parameter | Type | Description |
|---------------|--------|----------------------|
| namespace | String | Organization. |
| repository | String | Image repository. |
| access_domain | String | Shared tenant name. |
| permit | String | Permissions. |
| deadline | String | Expiration time. |
| description | String | Description. |
| creator_id | String | Creator ID. |
| creator_name | String | Name of the creator. |

| Parameter | Type | Description |
|-----------|---------|--|
| created | String | Time when the image is created. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| updated | String | Time when an image is updated. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| status | Boolean | Status. true : valid; false : expired. |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains
```

Example Response

Status code: 200

The list of shared accounts is queried successfully.

```
[ {
  "namespace" : "huawei",
  "repository" : "paas",
  "access_domain" : "swr",
  "permit" : "read",
  "deadline" : "2018-10-01T16:00:00.000Z",
  "description" : "description",
  "creator_id" : "fb3f175c1fd146ab8cdae3272be6107b",
  "creator_name" : "huawei",
  "created" : "2017-04-08T14:12:23Z",
  "updated" : "2017-04-13T21:01:11Z",
  "status" : false
} ]
```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | The list of image sharing accounts is queried successfully. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.4.3 Deleting an Account Used for Image Sharing

Description

Delete an account used for image sharing.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains/{access_domain}

Table 4-51 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--------|---------------------|
| access_domain | Yes | String | Shared tenant name. |

Request Parameters

Table 4-52 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

N/A

Example Request

```
DELETE https://{endpoint}/v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains/{access_domain}
```

Example Response

N/A

Status Codes

| Status Code | Description |
|-------------|------------------------|
| 204 | Deletion succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |

| Status Code | Description |
|-------------|-----------------|
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.4.4 Updating an Account Used for Image Sharing

Description

Update an account used for image sharing.

Constraints

None

API Calling

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

URI

PATCH /v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains/{access_domain}

Table 4-53 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| access_domain | Yes | String | Name of the account used for image sharing. |

Request Parameters

Table 4-54 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-55 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| permit | Yes | String | Currently, only the read permission is supported. |

| Parameter | Mandatory | Type | Description |
|-------------|-----------|--------|--|
| deadline | Yes | String | Valid until (UTC). forever indicates permanently valid. |
| description | No | String | Description. This parameter is left blank by default. |

Response Parameters

N/A

Example Request

```

PATCH https://{endpoint}/v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains
{
  "permit" : "read",
  "deadline" : "2018-10-01T16:00:00.000Z",
  "description" : "description"
}

```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class UpdateRepoDomainsSolution {

    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);

        SwrClient client = SwrClient.newBuilder()

```

```
        .withCredential(auth)
        .withRegion(SwrRegion.valueOf("cn-north-4"))
        .build();
UpdateRepoDomainsRequest request = new UpdateRepoDomainsRequest();
UpdateRepoDomainsRequestBody body = new UpdateRepoDomainsRequestBody();
body.withDescription("description");
body.withDeadline("2018-10-01T16:00:00.000Z");
body.withPermit("read");
request.withBody(body);
try {
    UpdateRepoDomainsResponse response = client.updateRepoDomains(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = UpdateRepoDomainsRequest()
        request.body = UpdateRepoDomainsRequestBody(
            description="description",
            deadline="2018-10-01T16:00:00.000Z",
            permit="read"
        )
        response = client.update_repo_domains(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.UpdateRepoDomainsRequest{}
    descriptionUpdateRepoDomainsRequestBody := "description"
    request.Body = &model.UpdateRepoDomainsRequestBody{
        Description: &descriptionUpdateRepoDomainsRequestBody,
        Deadline: "2018-10-01T16:00:00.000Z",
        Permit: "read",
    }
    response, err := client.UpdateRepoDomains(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|-----------------------------|
| 201 | The modification succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.4.5 Checking the Existence of an Account Used for Image Sharing

Description

Check whether an account used for image sharing exists.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains/{access_domain}

Table 4-56 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| access_domain | Yes | String | Name of the account used for image sharing. |

Request Parameters

Table 4-57 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-58 Response body parameters

| Parameter | Type | Description |
|---------------|---------|--|
| exist | Boolean | true: Exist. false: Not exist. |
| namespace | String | Organization name. |
| repository | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| access_domain | String | Name of the account used for image sharing. |
| permit | String | Permissions. |
| deadline | String | Expiration time. |
| description | String | Description. |
| creator_id | String | Creator ID. |
| creator_name | String | Name of the creator. |
| created | String | Time when the image is created. It is the UTC standard time. |
| updated | String | Time when an image is updated. It is the UTC standard time. |
| status | Boolean | Status. true: valid; false: expired. |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}/repositories/{repository}/access-domains/{access_domain}
```

Example Response

Status code: 200

Query succeeded.

```
{
  "exist" : true,
  "namespace" : "group",
  "repository" : "busybox",
  "access_domain" : "xxx",
  "permit" : "read",
  "deadline" : "2021-10-01T16:00:00Z",
  "description" : "description",
```

```
"creator_id" : "0504186e6a8010e01f3ec009a7279baa",  
"creator_name" : "xxx",  
"created" : "2021-06-10T08:14:42.56632Z",  
"updated" : "2021-06-10T08:14:42.566325Z",  
"status" : true  
}
```

Status Codes

| Status Code | Description |
|-------------|------------------------|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.5 API Version

4.5.1 Querying All API Versions

Description

Query all API versions.

Constraints

None

API Calling

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

URI

GET /

Request Parameters

Table 4-59 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 application/json Default value: application/json |

Response Parameters

Status code: 200

Table 4-60 Response body parameter

| Parameter | Type | Description |
|-----------|--|-----------------------|
| versions | Array of VersionDetail objects | List of all versions. |

Table 4-61 VersionDetail

| Parameter | Type | Description |
|-----------|-----------------------------|---|
| id | String | Version ID. |
| links | Link object | API URL. |
| version | String | If microversions are supported, set this parameter to the maximum microversion supported. Otherwise, leave this parameter empty. |
| status | String | Version status: CURRENT : The version is the primary version. SUPPORTED : The version is an earlier version, but it is still supported. DEPRECATED : The version is a deprecated version, which may be deleted later. |
| updated | String | The version release time in UTC. For example, the release time of v1 is 2014-06-28T12:20:21Z . |

| Parameter | Type | Description |
|-------------|--------|--|
| min_version | String | If microversions are supported, set this parameter to the minimum microversion supported. Otherwise, leave this parameter empty. |

Table 4-62 Link

| Parameter | Type | Description |
|-----------|--------|--------------|
| href | String | Link. |
| rel | String | Description. |

Example Request

```
GET https://{endpoint}
```

Example Response

Status code: 200

Query succeeded.

```
{
  "versions": [ {
    "id": "v2",
    "links": {
      "href": "https://swr-api.xxx.myhuaweicloud.com/v2/",
      "rel": "self"
    },
    "min_version": "2.0",
    "status": "CURRENT",
    "updated": "2020-07-09T00:00:00Z",
    "version": "2.26"
  } ]
}
```

Status Codes

| Status Code | Description |
|-------------|------------------|
| 200 | Query succeeded. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.5.2 Querying a Specified API Version

Description

Query a specified API version.

Constraints

None

API Calling

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

URI

GET /{api_version}

Table 4-63 Path parameter

| Parameter | Mandatory | Type | Description |
|-------------|-----------|--------|--------------|
| api_version | Yes | String | API version. |

Request Parameters

Table 4-64 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 application/json The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-65 Response body parameter

| Parameter | Type | Description |
|-----------|--------------------------------------|-----------------------------|
| version | VersionDetail object | List of specified versions. |

Table 4-66 VersionDetail

| Parameter | Type | Description |
|-------------|-----------------------------|---|
| id | String | Version ID. |
| links | Link object | API URL. |
| version | String | If microversions are supported, set this parameter to the maximum microversion supported. Otherwise, leave this parameter empty. |
| status | String | Version status: CURRENT : The version is the primary version. SUPPORTED : The version is an earlier version, but it is still supported. DEPRECATED : The version is a deprecated version, which may be deleted later. |
| updated | String | The version release time in UTC. For example, the release time of v1 is 2014-06-28T12:20:21Z . |
| min_version | String | If microversions are supported, set this parameter to the minimum microversion supported. Otherwise, leave this parameter empty. |

Table 4-67 Link

| Parameter | Type | Description |
|-----------|--------|--------------|
| href | String | Link. |
| rel | String | Description. |

Example Request

```
GET https://{endpoint}/{api_version}
```


Example Response

Status code: 200

Query succeeded.

```
{
  "version" : {
    "id" : "v2",
    "links" : {
      "href" : "https://swr-api.xxx.myhuaweicloud.com/v2/",
      "rel" : "self"
    },
    "min_version" : "2.0",
    "status" : "CURRENT",
    "updated" : "2017-12-09T00:00:00Z",
    "version" : "2.26"
  }
}
```

Status Codes

| Status Code | Description |
|-------------|------------------|
| 200 | Query succeeded. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.6 Organization Permission Management

4.6.1 Creating Organization Permissions

Description

Create organization permissions.

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/access

Table 4-68 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

Request Parameters

Table 4-69 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-70 Request body parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|----------------------------------|---|
| [Array] | Yes | Array of UserAuth objects | Information required for creating organization permissions. |

Table 4-71 UserAuth

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| user_id | Yes | String | User ID, which needs to be obtained from IAM. |
| user_name | Yes | String | Username, which needs to be obtained from IAM. |
| auth | Yes | Long | User permissions. 7 : Manage. 3 : Write. 1 : Read. |

Response Parameters

N/A

Example Request

```
POST https://{endpoint}/v2/manage/namespaces/{namespace}/access
[ {
  "user_id" : "fb3f175c1fd146ab8cdae3272be6107b",
  "user_name" : "user01",
  "auth" : 1
} ]
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

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

public class CreateNamespaceAuthSolution {

    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);

SwrClient client = SwrClient.newBuilder()
    .withCredential(auth)
    .withRegion(SwrRegion.valueOf("cn-north-4"))
    .build();
CreateNamespaceAuthRequest request = new CreateNamespaceAuthRequest();
List<UserAuth> listbodyBody = new ArrayList<>();
listbodyBody.add(
    new UserAuth()
        .withUserId("fb3f175c1fd146ab8cdae3272be6107b")
        .withUserName("user01")
        .withAuth(UserAuth.AuthEnum.NUMBER_1)
);
request.withBody(listbodyBody);
try {
    CreateNamespaceAuthResponse response = client.createNamespaceAuth(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateNamespaceAuthRequest()
        listBodybody = [
            UserAuth(
                user_id="fb3f175c1fd146ab8cdae3272be6107b",
                user_name="user01",
                auth=1
            )
        ]
```

```
]
request.body = listBodybody
response = client.create_namespace_auth(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.CreateNamespaceAuthRequest{}
    var listBodybody = []model.UserAuth{
        {
            UserId: "fb3f175c1fd146ab8cdae3272be6107b",
            UserName: "user01",
            Auth: model.GetUserAuthAuthEnum().E_1,
        },
    }
    request.Body = &listBodybody
    response, err := client.CreateNamespaceAuth(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | Creation succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization does not exist. |
| 409 | The organization permission already exists. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.6.2 Deleting Organization Permissions

Description

Delete organization permissions.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}/access

Table 4-72 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

Request Parameters

Table 4-73 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-74 Request body parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------------------|--|
| [Array] | Yes | Array of strings | ID list of users whose permissions need to be deleted. Obtain the list from IAM. |

Response Parameters

N/A

Example Request

```
DELETE https://{endpoint}/v2/manage/namespaces/{namespace}/access  
[ "fb3f175c1fd146ab8cdae3272be6107b" ]
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;  
import com.huaweicloud.sdk.swr.v2.*;  
import com.huaweicloud.sdk.swr.v2.model.*;  
  
import java.util.List;  
import java.util.ArrayList;  
  
public class DeleteNamespaceAuthSolution {  
  
    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);  
  
        SwrClient client = SwrClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(SwrRegion.valueOf("cn-north-4"))  
            .build();  
        DeleteNamespaceAuthRequest request = new DeleteNamespaceAuthRequest();  
        List<String> listbodyBody = new ArrayList<>();  
        listbodyBody.add("fb3f175c1fd146ab8cdae3272be6107b");  
        request.withBody(listbodyBody);  
        try {  
            DeleteNamespaceAuthResponse response = client.deleteNamespaceAuth(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {
```



```

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

```

Python

```

# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = DeleteNamespaceAuthRequest()
        listBodybody = [
            "fb3f175c1fd146ab8cdae3272be6107b"
        ]
        request.body = listBodybody
        response = client.delete_namespace_auth(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
    swr.SwrClientBuilder().
        WithRegion(region.ValueOf("cn-north-4")).
        WithCredential(auth).
        Build())

request := &model.DeleteNamespaceAuthRequest{}
var listBodybody = []string{
    "fb3f175c1fd146ab8cdae3272be6107b",
}
request.Body = &listBodybody
response, err := client.DeleteNamespaceAuth(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|----------------------------------|
| 204 | Deletion succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.6.3 Updating Organization Permissions

Description

Update organization permissions.

Constraints

None

API Calling

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

URI

PATCH /v2/manage/namespaces/{namespace}/access

Table 4-75 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

Request Parameters

Table 4-76 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-77 Request body parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|----------------------------------|--|
| [Array] | Yes | Array of UserAuth objects | Permissions required for updating organization permissions |

Table 4-78 UserAuth

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| user_id | Yes | String | User ID, which needs to be obtained from IAM. |
| user_name | Yes | String | Username, which needs to be obtained from IAM. |
| auth | Yes | Long | User permissions. 7 : Manage. 3 : Write. 1 : Read. |

Response Parameters

N/A

Example Request

```
PATCH https://{endpoint}/v2/manage/namespaces/{namespace}/access
[ {
  "user_id" : "fb3f175c1fd146ab8cdae3272be6107b",
  "user_name" : "liugenping01",
  "auth" : 7
} ]
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;
```

```

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

public class UpdateNamespaceAuthSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        UpdateNamespaceAuthRequest request = new UpdateNamespaceAuthRequest();
        List<UserAuth> listbodyBody = new ArrayList<>();
        listbodyBody.add(
            new UserAuth()
                .withUserId("fb3f175c1fd146ab8cdae3272be6107b")
                .withUserName("liugenping01")
                .withAuth(UserAuth.AuthEnum.NUMBER_7)
        );
        request.withBody(listbodyBody);
        try {
            UpdateNamespaceAuthResponse response = client.updateNamespaceAuth(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}

```

Python

```

# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \

```

```
.with_credentials(credentials) \
.with_region(SwrRegion.value_of("cn-north-4")) \
.build()

try:
    request = UpdateNamespaceAuthRequest()
    listBodybody = [
        UserAuth(
            user_id="fb3f175c1fd146ab8cdae3272be6107b",
            user_name="liugenping01",
            auth=7
        )
    ]
    request.body = listBodybody
    response = client.update_namespace_auth(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.UpdateNamespaceAuthRequest{}
    var listBodybody = []model.UserAuth{
        {
            UserId: "fb3f175c1fd146ab8cdae3272be6107b",
            UserName: "liugenping01",
            Auth: model.GetUserAuthAuthEnum().E_7,
        },
    }
    request.Body = &listBodybody
    response, err := client.UpdateNamespaceAuth(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

```
}  
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|----------------------------------|
| 201 | Update succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.6.4 Querying Organization Permissions

Description

Query organization permissions.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/access

Table 4-79 Path parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

Request Parameters

Table 4-80 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-81 Response body parameters

| Parameter | Type | Description |
|-----------|---------|-------------|
| id | Integer | id |

| Parameter | Type | Description |
|--------------|---------------------------|--|
| name | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| creator_name | String | Organization creator. |
| self_auth | UserAuth object | Permissions of the current user. |
| others_auths | Array of UserAuth objects | Permissions of other users. |

Table 4-82 UserAuth

| Parameter | Type | Description |
|-----------|--------|---|
| user_id | String | User ID, which needs to be obtained from IAM. |
| user_name | String | Username, which needs to be obtained from IAM. |
| auth | Long | User permissions. 7 : Manage. 3 : Write. 1 : Read. |

Example Request

GET https://{endpoint}/v2/manage/namespaces/{namespace}/access

Example Response

Status code: 200

Query succeeded.

```
{
  "id" : 1422,
  "name" : "test",
  "creator_name" : "user01",
  "self_auth" : {
    "user_id" : "3059e6b5562241fda3fa441cca6f228b",
    "user_name" : "user",
    "auth" : 7
  },
  "others_auths" : [ {
    "user_id" : "fb3f175c1fd146ab8cdae3272be6107b",
    "user_name" : "user01",
    "auth" : 7
  } ]
}
```

Status Codes

| Status Code | Description |
|-------------|----------------------------------|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.7 Image Permission Management

4.7.1 Creating Image Permissions

Description

Create image permissions.

Constraints

You can grant permissions to other users (excluding yourself) only when the organization permission is **Edit** or higher or the image repository permission is **Manage**.

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/repos/{repository}/access

Table 4-83 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-84 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |

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

Table 4-85 Request body parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|----------------------------------|--|
| [Array] | Yes | Array of UserAuth objects | Information required for creating image permissions. |

Table 4-86 UserAuth

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| user_id | Yes | String | User ID, which needs to be obtained from IAM. |
| user_name | Yes | String | Username, which needs to be obtained from IAM. |
| auth | Yes | Long | User permissions. 7 : Manage. 3 : Write. 1 : Read. |

Response Parameters

N/A

Example Request

```
POST https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/access
[ {
  "user_id" : "fb3f175c1fd146ab8cdae3272be6107b",
  "user_name" : "user01",
  "auth" : 1
} ]
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

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

public class CreateUserRepositoryAuthSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();

        CreateUserRepositoryAuthRequest request = new CreateUserRepositoryAuthRequest();
        List<UserAuth> listbodyBody = new ArrayList<>();
        listbodyBody.add(
            new UserAuth()
                .withUserId("fb3f175c1fd146ab8cdae3272be6107b")
                .withUserName("user01")
                .withAuth(UserAuth.AuthEnum.NUMBER_1)
        );
        request.withBody(listbodyBody);
        try {
            CreateUserRepositoryAuthResponse response = client.createUserRepositoryAuth(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8
```

```

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateUserRepositoryAuthRequest()
        listBodybody = [
            UserAuth(
                user_id="fb3f175c1fd146ab8cdae3272be6107b",
                user_name="user01",
                auth=1
            )
        ]
        request.body = listBodybody
        response = client.create_user_repository_auth(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).

```

```
Build()  
  
request := &model.CreateUserRepositoryAuthRequest{  
var listBodybody = []model.UserAuth{  
    {  
        UserId: "fb3f175c1fd146ab8cdae3272be6107b",  
        UserName: "user01",  
        Auth: model.GetUserAuthAuthEnum().E_1,  
    },  
}  
request.Body = &listBodybody  
response, err := client.CreateUserRepositoryAuth(request)  
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|---------------------------|
| 201 | Creation succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The image does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.7.2 Deleting Image Permissions

Description

Delete image permissions.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}/repos/{repository}/access

Table 4-87 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-88 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |

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

Table 4-89 Request body parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------------------|---|
| [Array] | Yes | Array of strings | User ID, which needs to be obtained from IAM. |

Response Parameters

N/A

Example Request

```
DELETE https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/access
["fb3f175c1fd146ab8cdae3272be6107b"]
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

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

public class DeleteUserRepositoryAuthSolution {

    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);

SwrClient client = SwrClient.newBuilder()
    .withCredential(auth)
    .withRegion(SwrRegion.valueOf("cn-north-4"))
    .build();
DeleteUserRepositoryAuthRequest request = new DeleteUserRepositoryAuthRequest();
List<String> listbodyBody = new ArrayList<>();
listbodyBody.add("fb3f175c1fd146ab8cdae3272be6107b");
request.withBody(listbodyBody);
try {
    DeleteUserRepositoryAuthResponse response = client.deleteUserRepositoryAuth(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
}

```

Python

```

# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = DeleteUserRepositoryAuthRequest()
        listbodybody = [
            "fb3f175c1fd146ab8cdae3272be6107b"
        ]
        request.body = listbodybody
        response = client.delete_user_repository_auth(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.DeleteUserRepositoryAuthRequest{}
    var listBodybody = []string{
        "fb3f175c1fd146ab8cdae3272be6107b",
    }
    request.Body = &listBodybody
    response, err := client.DeleteUserRepositoryAuth(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|---------------------|
| 204 | Deletion succeeded. |
| 400 | Request error. |

| Status Code | Description |
|-------------|---------------------------|
| 401 | Authentication failed. |
| 404 | The image does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.7.3 Updating Image Permissions

Description

Update image permissions.

Constraints

None

API Calling

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

URI

PATCH /v2/manage/namespaces/{namespace}/repos/{repository}/access

Table 4-90 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-91 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-92 Request body parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|----------------------------------|--|
| [Array] | Yes | Array of UserAuth objects | Information required for creating image permissions. |

Table 4-93 UserAuth

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| user_id | Yes | String | User ID, which needs to be obtained from IAM. |
| user_name | Yes | String | Username, which needs to be obtained from IAM. |
| auth | Yes | Long | User permissions. 7 : Manage. 3 : Write. 1 : Read. |

Response Parameters

N/A

Example Request

```
PATCH https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/access
[ {
  "user_id" : "fb3f175c1fd146ab8cdae3272be6107b",
  "user_name" : "liugenping01",
  "auth" : 7
} ]
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

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

public class UpdateUserRepositoryAuthSolution {

    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);

SwrClient client = SwrClient.newBuilder()
    .withCredential(auth)
    .withRegion(SwrRegion.valueOf("cn-north-4"))
    .build();
UpdateUserRepositoryAuthRequest request = new UpdateUserRepositoryAuthRequest();
List<UserAuth> listbodyBody = new ArrayList<>();
listbodyBody.add(
    new UserAuth()
        .withUserId("fb3f175c1fd146ab8cdae3272be6107b")
        .withUserName("liugenping01")
        .withAuth(UserAuth.AuthEnum.NUMBER_7)
);
request.withBody(listbodyBody);
try {
    UpdateUserRepositoryAuthResponse response = client.updateUserRepositoryAuth(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = UpdateUserRepositoryAuthRequest()
        listbodybody = [
            UserAuth(
                user_id="fb3f175c1fd146ab8cdae3272be6107b",
                user_name="liugenping01",
                auth=7
            )
        ]
```

```
]
request.body = listBodybody
response = client.update_user_repository_auth(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.UpdateUserRepositoryAuthRequest{}
    var listBodybody = []model.UserAuth{
        {
            UserId: "fb3f175c1fd146ab8cdae3272be6107b",
            UserName: "liugenping01",
            Auth: model.GetUserAuthAuthEnum().E_7,
        },
    }
    request.Body = &listBodybody
    response, err := client.UpdateUserRepositoryAuth(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|---------------------------|
| 201 | Update succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The image does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.7.4 Querying Image Permissions

Description

Query image permissions.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/access

Table 4-94 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-95 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 application/json The default value is application/json . |

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

Response Parameters

Status code: 200

Table 4-96 Response body parameters

| Parameter | Type | Description |
|--------------|----------------------------------|--|
| id | Integer | id |
| name | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| self_auth | UserAuth object | Permissions of the current user. |
| others_auths | Array of UserAuth objects | Permissions of other users. |

Table 4-97 UserAuth

| Parameter | Type | Description |
|-----------|--------|---|
| user_id | String | User ID, which needs to be obtained from IAM. |
| user_name | String | Username, which needs to be obtained from IAM. |
| auth | Long | User permissions. 7 : Manage. 3 : Write. 1 : Read. |

Example Request

GET <https://{{endpoint}}/v2/manage/amespaces/{{namespace}}/repos/{{repository}}/access>

Example Response

Status code: 200

Query succeeded.

```
{
  "id" : 1422,
  "name" : "group",
  "self_auth" : {
    "user_id" : "3059e6b5562241fda3fa441cca6f228b",
    "user_name" : "liugenping",
    "auth" : 7
  },
  "others_auths" : [ {
    "user_id" : "fb3f175c1fd146ab8cdae3272be6107b",
    "user_name" : "liugenping01",
    "auth" : 7
  } ]
}
```

Status Codes

| Status Code | Description |
|-------------|---------------------------|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The image does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.8 Image Synchronization Management

4.8.1 Querying Details About an Automatic Image Synchronization Task

Description

Obtain information required for an image synchronization task.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/sync_job

Table 4-98 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Table 4-99 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| filter | Yes | String | Set this parameter to limit:: <i>{limit}</i> offset:: <i>{offset}</i> order:: <i>{order}</i> . limit indicates the number of returned records. offset indicates the start index. Parameters offset and limit are mandatory and should always be used together. {order} indicates the sorting order (optional). The value can be desc (descending order) or asc (ascending order). |

Request Parameters

Table 4-100 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-101 Response header parameter

| Parameter | Type | Description |
|---------------|--------|--|
| Content-Range | String | <i>Offset</i> (Start index) - <i>Count</i> (Number of records on the current page)/ <i>Total</i> (Total number of records) |

Table 4-102 Response body parameter

| Parameter | Type | Description |
|-----------|---------------------------------|------------------|
| [Array] | Array of SyncJob objects | Query succeeded. |

Table 4-103 SyncJob

| Parameter | Type | Description |
|------------------|---------|---|
| createdAt | String | Creation time. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| domainID | String | Tenant ID. |
| domainName | String | Tenant name. |
| id | Integer | ID |
| namespace | String | Organization name. |
| override | Boolean | Whether to overwrite. |
| remoteNameSpace | String | Target organization. |
| remoteRegionId | String | Target region. |
| repoName | String | Repository name. |
| status | String | Synchronization status. The value can be waiting, running, success, failed, timeout, cancel, or existed. |
| syncOperatorId | String | Operator account ID. |
| syncOperatorName | String | Operator account name. |
| tag | String | Image tag. |

| Parameter | Type | Description |
|-----------|--------|-------------|
| updatedAt | String | updatedAt |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/sync_job
```

Example Response

Status code: 200

Query succeeded.

```
[ {
  "createdAt" : "2020-03-12T08:11:36.518144Z",
  "domainID" : "0657*****f60",
  "domainName" : "h*****4",
  "id" : 1,
  "namespace" : "test",
  "override" : false,
  "remoteNamespace" : "remtens",
  "remoteRegionId" : "cn-north-1",
  "repoName" : "testrepo",
  "status" : "success",
  "syncOperatorId" : "065*****10",
  "syncOperatorName" : "h*****4",
  "tag" : "8",
  "updatedAt" : "2020-03-12T08:11:41.505499Z"
} ]
```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization, image repository, or task does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.8.2 Querying Automatic Image Synchronization Tasks

Description

Query all automatic image synchronization tasks of a repository.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/sync_repo

Table 4-104 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-105 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 application/json The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

 **NOTE**

By default, 100 records will be returned.

Response Parameters

Status code: 200

Table 4-106 Response body parameter

| Parameter | Type | Description |
|-----------|---|-------------------|
| [Array] | Array of SyncRepo objects | Auto sync policy. |

Table 4-107 SyncRepo

| Parameter | Type | Description |
|------------|--------|---|
| createdAt | String | Creation time. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |
| domainID | String | Tenant ID. |
| domainName | String | Tenant name. |

| Parameter | Type | Description |
|---------------------|---------|---|
| id | Integer | ID |
| namespace | String | Organization name. |
| override | Boolean | Whether to overwrite. |
| remoteName space | String | Target organization. |
| remoteRegion Id | String | Target region. |
| repoName | String | Repository name. |
| syncAuto | Boolean | Automatic synchronization. |
| updatedAt | String | Update time. It is the UTC standard time. Users need to calculate the offset based on the local time. For example, GMT+8 is 8 hours ahead the GMT time. |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/sync_repo
{
  "remoteRegionId" : "cn-north-208",
  "remoteNamespace" : "sdsad"
}
```

Example Response

Status code: 200

Query succeeded.

```
[ {
  "createdAt" : "2020-04-17T02:11:03.53183Z",
  "domainID" : "8b1e81*****633fb",
  "domainName" : "p*****59",
  "id" : 45,
  "namespace" : "test",
  "override" : true,
  "remoteNamespace" : "sdsad",
  "remoteRegionId" : "cn-north-1",
  "repoName" : "grpc-helloworld",
  "syncAuto" : true,
  "updatedAt" : "2020-04-17T02:11:03.531831Z"
} ]
```

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class ListImageAutoSyncReposDetailsSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        ListImageAutoSyncReposDetailsRequest request = new ListImageAutoSyncReposDetailsRequest();
        try {
            ListImageAutoSyncReposDetailsResponse response = client.listImageAutoSyncReposDetails(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
```

```
.with_region(SwrRegion.value_of("cn-north-4")) \
.build()

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

Go

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

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

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|------------------|
| 200 | Query succeeded. |

| Status Code | Description |
|-------------|--|
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization or the repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.8.3 Creating an Automatic Image Synchronization Task

Description

Create an automatic image synchronization task. New images and image updates can be automatically synchronized between regions. Existing images must be manually synchronized. For details, see [Manually Synchronizing Images](#).

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/repos/{repository}/sync_repo

Table 4-108 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-109 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-110 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|--------|----------------------|
| remoteRegionId | Yes | String | Target region ID. |
| remoteNamespace | Yes | String | Target organization. |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|---------|--|
| syncAuto | No | Boolean | Automatic synchronization. The default value is false . |
| override | No | Boolean | Whether to overwrite. The default value is false , which indicates not to overwrite any nonidentical image that has the same name in the target organization. |

Response Parameters

N/A

Example Request

```
POST https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/sync_repo
{
  "remoteRegionId" : "string",
  "remoteNamespace" : "string",
  "syncAuto" : true,
  "override" : true
}
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class CreateImageSyncRepoSolution {

    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);

SwrClient client = SwrClient.newBuilder()
    .withCredential(auth)
    .withRegion(SwrRegion.valueOf("cn-north-4"))
    .build();
CreateImageSyncRepoRequest request = new CreateImageSyncRepoRequest();
CreateImageSyncRepoRequestBody body = new CreateImageSyncRepoRequestBody();
body.withOverride(true);
body.withSyncAuto(true);
body.withRemoteNamespace("string");
body.withRemoteRegionId("string");
request.withBody(body);
try {
    CreateImageSyncRepoResponse response = client.createImageSyncRepo(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getHttpStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateImageSyncRepoRequest()
        request.body = CreateImageSyncRepoRequestBody(
            override=True,
            sync_auto=True,
            remote_namespace="string",
            remote_region_id="string"
        )
        response = client.create_image_sync_repo(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.CreateImageSyncRepoRequest{}
    overrideCreateImageSyncRepoRequestBody:= true
    syncAutoCreateImageSyncRepoRequestBody:= true
    request.Body = &model.CreateImageSyncRepoRequestBody{
        Override: &overrideCreateImageSyncRepoRequestBody,
        SyncAuto: &syncAutoCreateImageSyncRepoRequestBody,
        RemoteNamespace: "string",
        RemoteRegionId: "string",
    }
    response, err := client.CreateImageSyncRepo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|---------------------|
| 200 | Creation succeeded. |

| Status Code | Description |
|-------------|--|
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization or the repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.8.4 Deleting an Automatic Image Synchronization Task

Description

Delete a specified automatic image synchronization task based on the target region and organization.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}/repos/{repository}/sync_repo

Table 4-111 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-112 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-113 Request body parameters

| Parameter | Mandatory | Type | Description |
|------------------|-----------|--------|----------------------|
| remoteRegionId | Yes | String | Target region ID. |
| remoteNamespaces | Yes | String | Target organization. |

Response Parameters

N/A

Example Request

```
DELETE https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/sync_repo
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class DeleteImageSyncRepoSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        DeleteImageSyncRepoRequest request = new DeleteImageSyncRepoRequest();
        try {
            DeleteImageSyncRepoResponse response = client.deleteImageSyncRepo(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = DeleteImageSyncRepoRequest()
        response = client.delete_image_sync_repo(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.DeleteImageSyncRepoRequest{}
    response, err := client.DeleteImageSyncRepo(request)
```

```
if err == nil {  
    fmt.Printf("%+v\n", response)  
} else {  
    fmt.Println(err)  
}  
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | Deletion succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization, image repository, or task does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.8.5 Manually Synchronizing Images

Description

Existing images must be manually synchronized. Check whether image synchronization succeeded using either of the two ways: 1. If the response status code is 200 and no errors are reported, the image synchronization succeeded. 2. Use the SWR console or call the API of querying image repository information, if the synchronized image tag exists in the target organization of the target region, the image synchronization succeeded.

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/repos/{repository}/sync_images

Table 4-114 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-115 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |

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

Table 4-116 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------------|-----------|------------------|--|
| imageTag | Yes | Array of strings | Image tag list. |
| override | No | Boolean | Whether to overwrite. The default value is false , which indicates not to overwrite any nonidentical image that has the same name in the target organization. |
| remoteNameSpace | Yes | String | Target organization. |
| remoteRegionId | Yes | String | Target region ID. |

Response Parameters

Status code: 200

Table 4-117 Response body parameters

| Parameter | Type | Description |
|-----------|------------------|--|
| [Array] | Array of strings | Image tags that are synchronized successfully. |

Status code: default

Table 4-118 Response body parameter

| Parameter | Type | Description |
|-----------|------------------|--|
| [Array] | Array of strings | Image tags that fail to be synchronized. |

Example Request

```
POST https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/sync_images
{
  "imageTag" : [ "V1" ],
  "override" : true,
  "remoteNamespace" : "sdsad",
  "remoteRegionId" : "cn-north-208"
}
```

Example Response

```
[]
```

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

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

public class CreateManualImageSyncRepoSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();

        CreateManualImageSyncRepoRequest request = new CreateManualImageSyncRepoRequest();
        CreateManualImageSyncRepoRequestBody body = new CreateManualImageSyncRepoRequestBody();
```

```
List<String> listbodyImageTag = new ArrayList<>();
listbodyImageTag.add("V1");
body.withRemoteRegionId("cn-north-208");
body.withRemoteNamespace("sdsad");
body.withOverride(true);
body.withImageTag(listbodyImageTag);
request.withBody(body);
try {
    CreateManualImageSyncRepoResponse response = client.createManualImageSyncRepo(request);
    System.out.println(response.toString());
} catch (ConnectionException e) {
    e.printStackTrace();
} catch (RequestTimeoutException e) {
    e.printStackTrace();
} catch (ServiceResponseException e) {
    e.printStackTrace();
    System.out.println(e.getStatusCode());
    System.out.println(e.getRequestId());
    System.out.println(e.getErrorCode());
    System.out.println(e.getErrorMsg());
}
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateManualImageSyncRepoRequest()
        listImageTagbody = [
            "V1"
        ]
        request.body = CreateManualImageSyncRepoRequestBody(
            remote_region_id="cn-north-208",
            remote_namespace="sdsad",
            override=True,
            image_tag=listImageTagbody
        )
        response = client.create_manual_image_sync_repo(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.CreateManualImageSyncRepoRequest{}
    var listImageTagbody = []string{
        "v1",
    }
    overrideCreateManualImageSyncRepoRequestBody := true
    request.Body = &model.CreateManualImageSyncRepoRequestBody{
        RemoteRegionId: "cn-north-208",
        RemoteNamespace: "sdsad",
        Override: &overrideCreateManualImageSyncRepoRequestBody,
        ImageTag: listImageTagbody,
    }
    response, err := client.CreateManualImageSyncRepo(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | Image tags that fail to be synchronized. |
| 400 | Request error. |

| Status Code | Description |
|-------------|--|
| 401 | Authentication failed. |
| 404 | The organization or the repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.9 Trigger Management

4.9.1 Creating a Trigger

Description

Create a trigger.

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/repos/{repository}/triggers

Table 4-119 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-120 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-121 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| action | Yes | String | Action to trigger. The value is update . |
| app_type | Yes | String | Application type. The value can be deployments or statefulsets . |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|---|
| application | Yes | String | Application name. |
| cluster_id | No | String | Cluster ID. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_name | No | String | Cluster name. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_ns | Yes | String | Namespace where the application is located. |
| condition | Yes | String | Trigger condition. If type is set to all , the value is .* . If type is set to tag , the value is a tag name. If type is set to regular , the value is a regular expression. |
| container | No | String | Name of the container to be updated. By default, all containers using this image are updated. |
| enable | Yes | String | Whether to enable the trigger. |
| name | Yes | String | Trigger name. |
| trigger_mode | No | String | Trigger type. The value can be cce or cci . The default value is cce . |
| trigger_type | Yes | String | Trigger condition. The value can be all , tag , or regular . |

Response Parameters

N/A

Example Request

POST https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/triggers

```
{
  "action": "update",
  "app_type": "deployments",
  "application": "adsfa",
  "cluster_id": "5b28c12f-dc10-11e9-97b3-0255ac1001b5",
  "cluster_name": "test",
  "cluster_ns": "default",
  "condition": ".*",
  "container": "",
  "enable": "true",
  "name": "test",
  "trigger_mode": "cce",
```

```
"trigger_type" : "all"  
}
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;  
import com.huaweicloud.sdk.swr.v2.*;  
import com.huaweicloud.sdk.swr.v2.model.*;  
  
public class CreateTriggerSolution {  
    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);  
  
        SwrClient client = SwrClient.newBuilder()  
            .withCredential(auth)  
            .withRegion(SwrRegion.valueOf("cn-north-4"))  
            .build();  
        CreateTriggerRequest request = new CreateTriggerRequest();  
        CreateTriggerRequestBody body = new CreateTriggerRequestBody();  
        body.withTriggerType("all");  
        body.withTriggerMode("cce");  
        body.withName("test");  
        body.withEnable("true");  
        body.withContainer("");  
        body.withCondition(".*");  
        body.withClusterNs("default");  
        body.withClusterName("test");  
        body.withClusterId("5b28c12f-dc10-11e9-97b3-0255ac1001b5");  
        body.withApplication("adsfa");  
        body.withAppType("deployments");  
        body.withAction("update");  
        request.withBody(body);  
        try {  
            CreateTriggerResponse response = client.createTrigger(request);  
            System.out.println(response.toString());  
        } catch (ConnectionException e) {  
            e.printStackTrace();  
        } catch (RequestTimeoutException e) {  
            e.printStackTrace();  
        } catch (ServiceResponseException e) {
```



```

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

```

Python

```

# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateTriggerRequest()
        request.body = CreateTriggerRequestBody(
            trigger_type="all",
            trigger_mode="cce",
            name="test",
            enable="true",
            container="",
            condition="*",
            cluster_ns="default",
            cluster_name="test",
            cluster_id="5b28c12f-dc10-11e9-97b3-0255ac1001b5",
            application="adsfa",
            app_type="deployments",
            action="update"
        )
        response = client.create_trigger(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

    request := &model.CreateTriggerRequest{
        triggerModeCreateTriggerRequestBody:= "cce"
        containerCreateTriggerRequestBody:= ""
        clusterNameCreateTriggerRequestBody:= "test"
        clusterIdCreateTriggerRequestBody:= "5b28c12f-dc10-11e9-97b3-0255ac1001b5"
        request.Body = &model.CreateTriggerRequestBody{
            TriggerType: "all",
            TriggerMode: &triggerModeCreateTriggerRequestBody,
            Name: "test",
            Enable: "true",
            Container: &containerCreateTriggerRequestBody,
            Condition: ".*",
            ClusterNs: "default",
            ClusterName: &clusterNameCreateTriggerRequestBody,
            ClusterId: &clusterIdCreateTriggerRequestBody,
            Application: "adsfa",
            AppType: "deployments",
            Action: "update",
        }
    }
    response, err := client.CreateTrigger(request)
    if err == nil {
        fmt.Printf("%v\n", response)
    } else {
        fmt.Println(err)
    }
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|--|
| 201 | Creation succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization or the repository does not exist. |

| Status Code | Description |
|-------------|-----------------------------|
| 409 | The trigger already exists. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.9.2 Querying Triggers of a Specific Image Repository

Description

Query triggers of a specific image repository.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/triggers

Table 4-122 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-123 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-124 Response body parameter

| Parameter | Type | Description |
|-----------|---------------------------------|---------------|
| [Array] | Array of Trigger objects | Trigger list. |

Table 4-125 Trigger

| Parameter | Type | Description |
|-----------------|--|---|
| action | String | Action to trigger. The value is update . |
| app_type | String | Application type. The value can be deployments or statefulsets . |
| application | String | Application name. |
| cluster_id | String | Cluster ID. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_name | String | Cluster name. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_ns | String | Namespace where the application is located. |
| condition | String | Trigger condition. If type is set to all , the value is .* . If type is set to tag , the value is a tag name. If type is set to regular , the value is a regular expression. |
| container | String | Name of the container to be updated. By default, all containers using this image are updated. |
| created_at | String | Creation time. |
| creator_name | String | Creator. |
| enable | String | Whether to enable the trigger. |
| name | String | Trigger name. |
| trigger_history | Array of TriggerHistories objects | Trigger history. |
| trigger_mode | String | Trigger type. The value can be cce or cci . |
| trigger_type | String | Trigger condition. The value can be all , tag , or regular . |

Table 4-126 TriggerHistories

| Parameter | Type | Description |
|--------------|--------|---|
| action | String | Action to trigger. The value is update . |
| app_type | String | Application type. The value can be deployments or statefulsets . |
| application | String | Application name. |
| cluster_id | String | Cluster ID. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_name | String | Cluster name. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_ns | String | Namespace where the application is located. |
| condition | String | Trigger condition. If type is set to all , the value is .* . If type is set to tag , the value is a tag name. If type is set to regular , the value is a regular expression. |
| container | String | Name of the container to be updated. By default, all containers using this image are updated. |
| created_at | String | Creation time. |
| creator_name | String | Creator. |
| detail | String | Details. |
| result | String | Update result. The value can be success or failed . |
| tag | String | Triggered version number. |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/triggers
```

Example Response

Status code: 200

Query succeeded.

```
[{
  "action": "update",
  "app_type": "deployments",
  "application": "abcde",
  "cluster_id": "*****",
  "cluster_name": "test123",
  "cluster_ns": "default",
  "condition": ".*",
  "container": "",
  "created_at": "2020-04-16T02:04:55.922236Z",
```

```
"creator_name" : "*****",  
"enable" : "true",  
"name" : "test1",  
"trigger_history" : null,  
"trigger_mode" : "cce",  
"trigger_type" : "all"  
} ]
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization or the repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.9.3 Deleting a Trigger

Description

Delete a trigger.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}/repos/{repository}/triggers/
{trigger}

Table 4-127 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| trigger | Yes | String | Trigger name. |

Request Parameters

Table 4-128 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json; charset=utf-8 application/json The default value is application/json . |

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

Response Parameters

N/A

Example Request

DELETE https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/triggers/{trigger}

Example Response

N/A

Status Codes

| Status Code | Description |
|-------------|--|
| 204 | Deletion succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization, image repository, or trigger does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.9.4 Querying Details About a Trigger

Description

Query details about a trigger.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/triggers/{trigger}

Table 4-129 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| trigger | Yes | String | Trigger name. |

Request Parameters

Table 4-130 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-131 Response body parameters

| Parameter | Type | Description |
|--------------|--------|---|
| action | String | Action to trigger. The value is update . |
| app_type | String | Application type. The value can be deployments or statefulsets . |
| application | String | Application name. |
| cluster_id | String | Cluster ID. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_name | String | Cluster name. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_ns | String | Namespace where the application is located. |
| condition | String | Trigger condition. If type is set to all , the value is .* . If type is set to tag , the value is a tag name. If type is set to regular , the value is a regular expression. |
| container | String | Name of the container to be updated. By default, all containers using this image are updated. |

| Parameter | Type | Description |
|-----------------|---|---|
| created_at | String | Creation time. |
| creator_name | String | Creator. |
| enable | String | Whether to enable the trigger. |
| name | String | Trigger name. |
| trigger_history | Array of TriggerHistories objects | Trigger history. |
| trigger_mode | String | Trigger type. The value can be cce or cci . |
| trigger_type | String | Trigger condition. The value can be all , tag , or regular . |

Table 4-132 TriggerHistories

| Parameter | Type | Description |
|--------------|--------|---|
| action | String | Action to trigger. The value is update . |
| app_type | String | Application type. The value can be deployments or statefulsets . |
| application | String | Application name. |
| cluster_id | String | Cluster ID. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_name | String | Cluster name. When trigger_mode is set to cci , leave this parameter blank. |
| cluster_ns | String | Namespace where the application is located. |
| condition | String | Trigger condition. If type is set to all , the value is .* . If type is set to tag , the value is a tag name. If type is set to regular , the value is a regular expression. |
| container | String | Name of the container to be updated. By default, all containers using this image are updated. |
| created_at | String | Creation time. |
| creator_name | String | Creator. |
| detail | String | Details. |
| result | String | Update result. The value can be success or failed . |

| Parameter | Type | Description |
|-----------|--------|---------------------------|
| tag | String | Triggered version number. |

Example Request

GET https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/triggers/{trigger}

Example Response

Status code: 200

Query succeeded.

```
{
  "action": "update",
  "app_type": "deployments",
  "application": "cci-deployment-20204161",
  "cluster_id": "",
  "cluster_name": "",
  "cluster_ns": "cci-namespace-21539491",
  "condition": ".*",
  "container": "",
  "created_at": "2020-04-16T01:35:08.639589Z",
  "creator_name": "paas_swr_z00232859",
  "enable": "true",
  "name": "test",
  "trigger_history": [ {
    "action": "update",
    "app_type": "deployments",
    "application": "cci-deployment-20204161",
    "cluster_id": "",
    "cluster_name": "",
    "cluster_ns": "",
    "condition": ".*",
    "container": "",
    "created_at": "2020-04-16T01:36:36.155119Z",
    "creator_name": "*****",
    "detail": "xxxxxxxxxxxx",
    "result": "failed",
    "tag": "test"
  } ],
  "trigger_mode": "cci",
  "trigger_type": "all"
}
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization, image repository, or trigger does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.9.5 Updating the Status of a Trigger

Description

Update the status of a trigger.

Constraints

None

API Calling

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

URI

PATCH /v2/manage/namespaces/{namespace}/repos/{repository}/triggers/{trigger}

Table 4-133 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| trigger | Yes | String | Trigger name. |

Request Parameters

Table 4-134 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-135 Request body parameter

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| enable | Yes | String | Whether to enable the function, true : enable; false : disable. |

Response Parameters

N/A

Example Request

```
PATCH https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/triggers/{trigger}
{
  "enable": "true"
}
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class UpdateTriggerSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();

        UpdateTriggerRequest request = new UpdateTriggerRequest();
        UpdateTriggerRequestBody body = new UpdateTriggerRequestBody();
        body.withEnable("true");
        request.withBody(body);
        try {
            UpdateTriggerResponse response = client.updateTrigger(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
        }
    }
}
```



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

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = UpdateTriggerRequest()
        request.body = UpdateTriggerRequestBody(
            enable="true"
        )
        response = client.update_trigger(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
    swr.SwrClientBuilder().
        WithRegion(region.ValueOf("cn-north-4")).
        WithCredential(auth).
        Build())

request := &model.UpdateTriggerRequest{}
request.Body = &model.UpdateTriggerRequestBody{
    Enable: "true",
}
response, err := client.UpdateTrigger(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|--|
| 201 | Update succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization, image repository, or trigger does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.10 Image Retention Policy Management

4.10.1 Creating an Image Retention Policy

Description

Create an image retention policy.

Constraints

None

API Calling

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

URI

POST /v2/manage/namespaces/{namespace}/repos/{repository}/retentions

Table 4-136 Path parameters

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-137 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Table 4-138 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------------------------------|--|
| algorithm | Yes | String | Retention policy matching rule. The value is or . |
| rules | Yes | Array of Rule objects | Image retention policy. |

Table 4-139 Rule

| Parameter | Mandatory | Type | Description |
|---------------|-----------|-------------------------------------|---|
| template | Yes | String | Retention policy type. The value can be date_rule and tag_rule . |
| params | Yes | Object | If template is set to date_rule , set params to {"days": "xxx"} . If template is set to tag_rule , set params to {"num": "xxx"} . |
| tag_selectors | Yes | Array of TagSelector objects | Exception images. |

Table 4-140 TagSelector

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| kind | Yes | String | Matching rule. The value can be label or regexp . |
| pattern | Yes | String | If kind is set to label , set this parameter to the image tag. If kind is set to regexp , set this parameter to a regular expression. |

Response Parameters

Status code: 201

Table 4-141 Response body parameter

| Parameter | Type | Description |
|-----------|---------|----------------------------|
| id | Integer | Image retention policy ID. |

Example Request

```
POST https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/retentions
{
  "algorithm": "string",
  "rules": [ {
    "params": { },
    "tag_selectors": [ {
      "kind": "string",
      "pattern": "string"
    } ],
    "template": "string"
  } ]
}
```

Example Response

Status code: 201

Creation succeeded.

```
{
  "id": 34
}
```

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

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

public class CreateRetentionSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();

        CreateRetentionRequest request = new CreateRetentionRequest();
        CreateRetentionRequestBody body = new CreateRetentionRequestBody();
        List<TagSelector> listRulesTagSelectors = new ArrayList<>();
        listRulesTagSelectors.add(
            new TagSelector()
                .withKind("string")
                .withPattern("string")
        );
        List<Rule> listbodyRules = new ArrayList<>();
        listbodyRules.add(
            new Rule()
                .withTemplate(Rule.TemplateEnum.fromValue("string"))
                .withParams(new Object())
                .withTagSelectors(listRulesTagSelectors)
        );
        body.withRules(listbodyRules);
        body.withAlgorithm("string");
        request.withBody(body);
        try {
            CreateRetentionResponse response = client.createRetention(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateRetentionRequest()
        listTagSelectorsRules = [
            TagSelector(
                kind="string",
                pattern="string"
            )
        ]
        listRulesbody = [
            Rule(
                template="string",
                params={},
                tag_selectors=listTagSelectorsRules
            )
        ]
        request.body = CreateRetentionRequestBody(
            rules=listRulesbody,
            algorithm="string"
        )
        response = client.create_retention(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
    swr.SwrClientBuilder().
        WithRegion(region.ValueOf("cn-north-4")).
        WithCredential(auth).
        Build())

request := &model.CreateRetentionRequest{}
var listTagSelectorsRules = []model.TagSelector{
    {
        Kind: "string",
        Pattern: "string",
    },
}
paramsRules:= make(map[string]string)
var paramsRulesInterface interface{} = paramsRules
var listRulesbody = []model.Rule{
    {
        Template: model.GetRuleTemplateEnum().STRING,
        Params: &paramsRulesInterface,
        TagSelectors: listTagSelectorsRules,
    },
}
request.Body = &model.CreateRetentionRequestBody{
    Rules: listRulesbody,
    Algorithm: "string",
}
response, err := client.CreateRetention(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|--|
| 201 | Creation succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization or the repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.10.2 Querying Image Retention Policies

Description

Query image retention policies.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/retentions

Table 4-142 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Request Parameters

Table 4-143 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling an IAM API. The value of X-Subject-Token in the response header is the user token. |

 **NOTE**

By default, 100 records will be returned.

Response Parameters

Status code: 200

Table 4-144 Response body parameter

| Parameter | Type | Description |
|-----------|-----------------------------------|------------------|
| [Array] | Array of Retention objects | Query succeeded. |

Table 4-145 Retention

| Parameter | Type | Description |
|-----------|------------------------------|--|
| algorithm | String | Retention policy matching rule. The value is or . |
| id | Integer | ID |
| rules | Array of Rule objects | Image retention policy. |
| scope | String | Reserved field. |

Table 4-146 Rule

| Parameter | Type | Description |
|---------------|-------------------------------------|---|
| template | String | Retention policy type. The value can be date_rule and tag_rule . |
| params | Object | If template is set to date_rule , set params to {"days": "xxx"} . If template is set to tag_rule , set params to {"num": "xxx"} . |
| tag_selectors | Array of TagSelector objects | Exception images. |

Table 4-147 TagSelector

| Parameter | Type | Description |
|-----------|--------|---|
| kind | String | Matching rule. The value can be label or regexp . |
| pattern | String | If kind is set to label , set this parameter to the image tag. If kind is set to regexp , set this parameter to a regular expression. |

Example Request

GET <https://{{endpoint}}/v2/manage/namespaces/{namespace}/repos/{repository}/retentions>

Example Response

Status code: 200

Query succeeded.

```
[{
  "algorithm": "or",
  "id": 222,
  "rules": [{
    "params": {
      "days": "30"
    },
    "tag_selectors": [{
      "kind": "label",
      "pattern": "v5"
    }, {
      "kind": "label",
      "pattern": "1.0.1"
    }, {
      "kind": "regexp",
      "pattern": "^123$"
    }
  ],
  "template": "date_rule"
}],
"scope": ""
}]
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization or the repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.10.3 Deleting an Image Retention Policy

Description

Delete an image retention policy.

Constraints

None

API Calling

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

URI

DELETE /v2/manage/namespaces/{namespace}/repos/{repository}/retentions/{retention_id}

Table 4-148 Path parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|---------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| retention_id | Yes | Integer | Image retention policy ID. |

Request Parameters

Table 4-149 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

N/A

Example Request

```
DELETE https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/retentions/{retention_id}
```

Example Response

N/A

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | Deletion succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization, image repository, or policy does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.10.4 Querying Image Retention Policy Records

Description

Query the records of image retention policies.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/retentions/
{retention_id}

Table 4-150 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|--------------|-----------|---------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| retention_id | Yes | Integer | Image retention policy ID. |

Request Parameters

Table 4-151 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-152 Response body parameters

| Parameter | Type | Description |
|-----------|------------------------------|--|
| algorithm | String | Retention policy matching rule. The value is or . |
| id | Integer | ID |
| rules | Array of Rule objects | Image retention policy. |
| scope | String | Reserved field. |

Table 4-153 Rule

| Parameter | Type | Description |
|---------------|-------------------------------------|---|
| template | String | Retention policy type. The value can be date_rule and tag_rule . |
| params | Object | If template is set to date_rule , set params to {"days": "xxx"} . If template is set to tag_rule , set params to {"num": "xxx"} . |
| tag_selectors | Array of TagSelector objects | Exception images. |

Table 4-154 TagSelector

| Parameter | Type | Description |
|-----------|--------|---|
| kind | String | Matching rule. The value can be label or regexp . |
| pattern | String | If kind is set to label , set this parameter to the image tag. If kind is set to regexp , set this parameter to a regular expression. |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/retentions/{retention_id}
```

Example Response

Status code: 200

Query succeeded.

```
{
  "algorithm": "or",
  "id": 222,
  "rules": [ {
```

```
"params" : {  
  "days" : "30"  
},  
"tag_selectors" : [ {  
  "kind" : "label",  
  "pattern" : "v5"  
}, {  
  "kind" : "label",  
  "pattern" : "1.0.1"  
}, {  
  "kind" : "regexp",  
  "pattern" : "^123$"  
}],  
"template" : "date_rule"  
}],  
"scope" : ""  
}
```

Status Codes

| Status Code | Description |
|-------------|---|
| 200 | Query succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization, image repository, or policy does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.10.5 Modifying an Image Retention Policy

Description

Modify an image retention policy.

Constraints

None

API Calling

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

URI

PATCH /v2/manage/namespaces/{namespace}/repos/{repository}/retentions/{retention_id}

Table 4-155 Path parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|---------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |
| retention_id | Yes | Integer | Image retention policy ID. |

Request Parameters

Table 4-156 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json; charset=utf-8 application/json The default value is application/json . |

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

Table 4-157 Request body parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|------------------------------|--|
| algorithm | Yes | String | Retention policy matching rule. The value is or . |
| rules | Yes | Array of Rule objects | Image retention policy. |

Table 4-158 Rule

| Parameter | Mandatory | Type | Description |
|---------------|-----------|-------------------------------------|---|
| template | Yes | String | Retention policy type. The value can be date_rule and tag_rule . |
| params | Yes | Object | If template is set to date_rule , set params to {"days": "xxx"} . If template is set to tag_rule , set params to {"num": "xxx"} . |
| tag_selectors | Yes | Array of TagSelector objects | Exception images. |

Table 4-159 TagSelector

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| kind | Yes | String | Matching rule. The value can be label or regexp . |

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| pattern | Yes | String | If kind is set to label , set this parameter to the image tag. If kind is set to regexp , set this parameter to a regular expression. |

Response Parameters

N/A

Example Request

```
PATCH https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/retentions/{retention_id}
{
  "algorithm": "or",
  "rules": [ {
    "params": {
      "days": "30"
    },
    "tag_selectors": [ {
      "kind": "label",
      "pattern": "v5"
    }, {
      "kind": "label",
      "pattern": "1.0.1"
    }, {
      "kind": "regexp",
      "pattern": "^123$"
    } ],
    "template": "date_rule"
  } ]
}
```

Example Response

None

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

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

```
public class UpdateRetentionSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        UpdateRetentionRequest request = new UpdateRetentionRequest();
        UpdateRetentionRequestBody body = new UpdateRetentionRequestBody();
        List<TagSelector> listRulesTagSelectors = new ArrayList<>();
        listRulesTagSelectors.add(
            new TagSelector()
                .withKind("label")
                .withPattern("v5")
        );
        listRulesTagSelectors.add(
            new TagSelector()
                .withKind("label")
                .withPattern("1.0.1")
        );
        listRulesTagSelectors.add(
            new TagSelector()
                .withKind("regexp")
                .withPattern("^123$")
        );
        List<Rule> listbodyRules = new ArrayList<>();
        listbodyRules.add(
            new Rule()
                .withTemplate(Rule.TemplateEnum.fromValue("date_rule"))
                .withParams("{\"days\":\"30\"}")
                .withTagSelectors(listRulesTagSelectors)
        );
        body.withRules(listbodyRules);
        body.withAlgorithm("or");
        request.withBody(body);
        try {
            UpdateRetentionResponse response = client.updateRetention(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
```

```
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = UpdateRetentionRequest()
        listTagSelectorsRules = [
            TagSelector(
                kind="label",
                pattern="v5"
            ),
            TagSelector(
                kind="label",
                pattern="1.0.1"
            ),
            TagSelector(
                kind="regexp",
                pattern="^123$"
            )
        ]
        listRulesbody = [
            Rule(
                template="date_rule",
                params="{\"days\": \"30\"}",
                tag_selectors=listTagSelectorsRules
            )
        ]
        request.body = UpdateRetentionRequestBody(
            rules=listRulesbody,
            algorithm="or"
        )
        response = client.update_retention(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
    swr.SwrClientBuilder().
        WithRegion(region.ValueOf("cn-north-4")).
        WithCredential(auth).
        Build())

request := &model.UpdateRetentionRequest{}
var listTagSelectorsRules = []model.TagSelector{
    {
        Kind: "label",
        Pattern: "v5",
    },
    {
        Kind: "label",
        Pattern: "1.0.1",
    },
    {
        Kind: "regexp",
        Pattern: "^123$",
    },
}
paramsRules:= "{\"days\": \"30\"}"
var paramsRulesInterface interface{} = paramsRules
var listRulesbody = []model.Rule{
    {
        Template: model.GetRuleTemplateEnum().DATE_RULE,
        Params: &paramsRulesInterface,
        TagSelectors: listTagSelectorsRules,
    },
}
request.Body = &model.UpdateRetentionRequestBody{
    Rules: listRulesbody,
    Algorithm: "or",
}
response, err := client.UpdateRetention(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
}

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|-------------------|
| 201 | Update succeeded. |

| Status Code | Description |
|-------------|---|
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization, image repository, or policy does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.10.6 Querying Image Retention Records

Description

Query image retention records.

Constraints

None

API Calling

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

URI

GET /v2/manage/namespaces/{namespace}/repos/{repository}/retentions/histories

Table 4-160 Path parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|--|
| namespace | Yes | String | Organization name. Enter 1 to 64 characters, starting with a lowercase letter and ending with a lowercase letter or digit. Only lowercase letters, digits, periods (.), underscores (_), and hyphens (-) are allowed. Periods, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. |

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|--|
| repository | Yes | String | Image repository name. Enter 1 to 128 characters. It must start and end with a lowercase letter or digit. Only lowercase letters, digits, periods (.), slashes (/), underscores (_), and hyphens (-) are allowed. Periods, slashes, underscores, and hyphens cannot be placed next to each other. A maximum of two consecutive underscores are allowed. Replace a slash (/) with a dollar sign (\$) before you send the request. |

Table 4-161 Query parameters

| Parameter | Mandatory | Type | Description |
|-----------|-----------|--------|---|
| limit | No | String | Number of returned records. Parameters offset and limit should always be used together. |
| offset | No | String | Start index. The value must be 0 or a positive number. Parameters offset and limit should always be used together. |
| filter | No | String | Set this parameter to limit::<i>{limit}</i>offset::<i>{offset}</i> . limit indicates the number of returned records. offset indicates the start index. Parameters offset and limit should always be used together. |

Request Parameters

Table 4-162 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-163 Response header parameter

| Parameter | Type | Description |
|---------------|--------|---|
| Content-Range | String | <i>Offset</i> (Start index) - <i>Count</i> (Number of records on the current page) / <i>Total</i> (Total number of records) |

Table 4-164 Response body parameters

| Parameter | Type | Description |
|---------------|--------------------------------------|----------------------|
| retention_log | Array of RetentionLog objects | Image retention log. |
| total | Integer | Total number. |

Table 4-165 RetentionLog

| Parameter | Type | Description |
|------------|--------|----------------|
| created_at | String | Creation time. |

| Parameter | Type | Description |
|--------------|---------|----------------------------|
| id | Integer | ID |
| namespace | String | Organization name. |
| repo | String | Image repository name. |
| retention_id | Integer | Image retention policy ID. |
| rule_type | String | Policy. |
| tag | String | Image tag. |

Example Request

```
GET https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/retentions/histories
```

Example Response

Status code: 200

Request succeeded.

```
{
  "retention_log" : [ {
    "created_at" : "2020-04-17T08:01:09.658309Z",
    "id" : 9088,
    "namespace" : "hwstaff_l00283074",
    "repo" : "experience_2048",
    "retention_id" : 91,
    "rule_type" : "{\"template\":\"tag_rule\",\"params\":{\"num\":\"7\"},\"tag_selectors\":[]}",
    "tag" : "4"
  } ],
  "total" : 1
}
```

Status Codes

| Status Code | Description |
|-------------|--|
| 200 | Request succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 404 | The organization or the repository does not exist. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.11 Temporary Login Command

4.11.1 Generating a Temporary Login Command

Description

Generate a temporary login command using the value of **X-Swr-Dockerlogin** in the response header and the value of **host** in the response body.

Constraints

None

API Calling

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

URI

POST /v2/manage/utils/secret

Table 4-166 Query parameter

| Parameter | Mandatory | Type | Description |
|-------------|-----------|--------|--|
| projectname | No | String | Project name. The default value is the region name, for example, cn-north-1 . |

Request Parameters

Table 4-167 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 or application/json . The default value is application/json . |

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

Response Parameters

Status code: 200

Table 4-168 Response header parameter

| Parameter | Type | Description |
|-------------------|--------|---|
| X-Swr-Dockerlogin | String | A docker login command, for example, docker login -u cn-north-1@OW*****FPUKBXI -p 6f0779072*****863d1ae3cce921b7f33 . |

Table 4-169 Response body parameter

| Parameter | Type | Description |
|-----------|----------------------|-----------------------------|
| auths | Map<String,AuthInfo> | Authentication information. |

Table 4-170 AuthInfo

| Parameter | Type | Description |
|-----------|--------|--|
| auth | String | Base64-encoded authentication information. |

Example Request

POST https://{endpoint}/v2/manage/utis/secret

POST https://{endpoint}/v2/manage/utis/secret

Example Response

Status code: 200

Creation succeeded.

```
{
  "auths" : {
    "swr.xxx" : {
      "auth" : "Y24tbm9ydGg*****hhMTgzMGVmN2RhZjJm"
    }
  }
}
```

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class CreateSecretSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        CreateSecretRequest request = new CreateSecretRequest();
        request.withProjectname("<projectname>");
        try {
            CreateSecretResponse response = client.createSecret(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getRequestId());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = CreateSecretRequest()
        request.projectname = "<projectname>"
        response = client.create_secret(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
        swr.SwrClientBuilder().
            WithRegion(region.ValueOf("cn-north-4")).
            WithCredential(auth).
            Build())

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



```
projectnameRequest:= "<projectname>"
request.Projectname = &projectnameRequest
response, err := client.CreateSecret(request)
if err == nil {
    fmt.Printf("%+v\n", response)
} else {
    fmt.Println(err)
}
```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Code | Description |
|-------------|------------------------|
| 200 | Creation succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.12 Quota Management

4.12.1 Querying Quotas

Description

Query quota information.

Constraints

None

API Calling

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

URI

GET /v2/manage/projects/{project_id}/quotas

Table 4-171 Path parameter

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|-------------|
| project_id | Yes | String | Project ID. |

Request Parameters

Table 4-172 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). The value can be application/json;charset=utf-8 application/json The default value is application/json . |
| X-Auth-Token | Yes | String | User token. The token can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is the user token. |

Response Parameters

Status code: 200

Table 4-173 Response body parameter

| Parameter | Type | Description |
|-----------|--|-----------------|
| quotas | Array of ShowQuota objects | List of quotas. |

Table 4-174 ShowQuota

| Parameter | Type | Description |
|-------------|---------|--------------|
| quota_limit | Integer | Quota limit. |
| quota_key | String | Quota type. |
| unit | String | Unit. |

| Parameter | Type | Description |
|-----------|---------|-------------|
| used | Integer | Used quota. |

Example Request

```
GET https://{endpoint}/v2/manage/projects/{project_id}/quotas
```

Example Response

Status code: 200

The quota information is returned successfully.

```
{
  "quotas" : [ {
    "quota_limit" : 15,
    "quota_key" : "namespace",
    "unit" : "",
    "used" : 1
  } ]
}
```

SDK Sample Code

The following are SDK sample code:

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.swr.v2.region.SwrRegion;
import com.huaweicloud.sdk.swr.v2.*;
import com.huaweicloud.sdk.swr.v2.model.*;

public class ListQuotasSolution {

    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);

        SwrClient client = SwrClient.newBuilder()
            .withCredential(auth)
            .withRegion(SwrRegion.valueOf("cn-north-4"))
            .build();
        ListQuotasRequest request = new ListQuotasRequest();
        try {
            ListQuotasResponse response = client.listQuotas(request);
        }
    }
}
```

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

Python

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkswr.v2.region.swr_region import SwrRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkswr.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 = SwrClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(SwrRegion.value_of("cn-north-4")) \
        .build()

    try:
        request = ListQuotasRequest()
        response = client.list_quotas(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"
    swr "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/swr/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 := swr.NewSwrClient(
    swr.SwrClientBuilder().
        WithRegion(region.ValueOf("cn-north-4")).
        WithCredential(auth).
        Build())

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

```

More

For SDK sample code in other programming languages, see the **Sample Code** tab in the [API Explorer](#).

Status Codes

| Status Codes | Description |
|--------------|------------------------|
| 200 | Succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.13 Other

4.13.1 Querying the Tenant Resource Overview

Description

Query the tenant resource overview.

Constraints

None

API Calling

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

URI

GET /v2/manage/overview

Request Parameters

Table 4-175 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). Possible values: application/json;charset=utf-8 application/json |
| X-Auth-Token | Yes | String | User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). |

Response Parameters

Status code: 200

Table 4-176 Response body parameters

| Parameter | Type | Description |
|---------------|---------|---------------------------------------|
| domain_id | String | Tenant ID. |
| domain_name | String | Tenant name. |
| namespace_num | Integer | Number of namespaces of the tenant. |
| repo_num | Integer | Number of repositories of the tenant. |
| image_num | Integer | Number of images of the tenant. |
| store_space | Double | Storage size of the tenant. |
| downflow_size | Double | Download traffic of the tenant. |

Example Request

```
GET https://{endpoint}/v2/manage/overview
```

Example Response

Status code: 200

Query the tenant resource overview.

```
{
  "domain_id" : "08d35*****113760",
  "domain_name" : "",
  "namespace_num" : 36,
  "repo_num" : 20,
  "image_num" : 36,
  "store_space" : 99.21,
  "downflow_size" : 0
}
```

Status Codes

| Status Code | Description |
|-------------|------------------------|
| 200 | Succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.13.2 Querying Tenant Resource Statistics

Description

Query tenant resource statistics.

Constraints

None

API Calling

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

URI

```
GET /v2/manage/reports/{resource_type}/{frequency}
```

Table 4-177 Path parameters

| Parameter | Mandatory | Type | Description |
|---------------|-----------|--------|-----------------|
| resource_type | Yes | String | Resource type. |
| frequency | Yes | String | Frequency type. |

Request Parameters

Table 4-178 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| Content-Type | Yes | String | Message body type (format). Possible values: application/json;charset=utf-8 application/json |
| X-Auth-Token | Yes | String | User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). |

Response Parameters

Status code: 200

Table 4-179 Response body parameter

| Parameter | Type | Description |
|----------------|------------------------------------|-------------|
| <i>[Array]</i> | Array of ReportData objects | Statistics. |

Table 4-180 ReportData

| Parameter | Type | Description |
|-----------|--------|-------------|
| date | String | Time point. |
| value | Double | Statistics. |

Example Request

```
GET https://{endpoint}/v2/reports/{resource_type}/{frequency}
```

Example Response

Status code: 200

Query tenant resource statistics.

```
[ {  
  "date" : "2024-09-01",  
  "value" : 0  
}, {  
  "date" : "2024-09-02",  
  "value" : 0  
}]
```

Status Codes

| Status Codes | Description |
|--------------|------------------------|
| 200 | Succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

4.13.3 Querying Service Feature Status

Description

Query service feature status.

Constraints

None

API Calling

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

URI

```
GET /v2/manage/projects/{project_id}/feature-gates
```

Table 4-181 Path parameter

| Parameter | Mandatory | Type | Description |
|------------|-----------|--------|-------------|
| project_id | Yes | String | Project ID. |

Request Parameters

Table 4-182 Request header parameters

| Parameter | Mandatory | Type | Description |
|--------------|-----------|--------|--|
| X-Auth-Token | Yes | String | User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header). |

Response Parameters

Status code: 200

Table 4-183 Response body parameters

| Parameter | Type | Description |
|--------------------|---------|--|
| enable_experience | Boolean | Whether the experience center is enabled. |
| enable_hss_service | Boolean | Whether interconnection with HSS is enabled. |
| enable_image_scan | Boolean | Whether image scanning is enabled. |
| enable_sm3 | Boolean | Whether SM algorithms are enabled. |
| enable_image_sync | Boolean | Whether image synchronization is enabled. |
| enable_cci_service | Boolean | Whether interconnection with CCI is enabled. |
| enable_image_label | Boolean | Whether image tagging is enabled. |
| enable_pipeline | Boolean | Whether the pipeline service is enabled. |

Example Request

```
GET https://{endpoint}/v2/manage/projects/{project_id}/feature-gates
```

Example Response

Status code: 200

Query service feature status.

```
{
  "enable_experience" : true,
  "enable_hss_service" : true,
  "enable_image_scan" : true,
  "enable_sm3" : true,
  "enable_image_sync" : true,
  "enable_cci_service" : true,
  "enable_image_label" : false,
  "enable_pipeline" : false
}
```

Status Codes

| Status Code | Description |
|-------------|------------------------|
| 200 | Succeeded. |
| 400 | Request error. |
| 401 | Authentication failed. |
| 500 | Internal error. |

Error Codes

For details, see [Error Codes](#).

5 Example Applications

5.1 Creating an Image Repository

Scenario

This section describes how to create and delete an image repository using APIs. For details on how to call APIs, see [Calling APIs](#).

Involved APIs

In this example, the following APIs are used to:

- [Create an Organization](#)
- [Query the List of Organizations](#)
- [Create an Image Repository](#)
- [Query the Brief Information on an Image Repository](#)

Endpoints

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

Procedure

1. Create an organization.
 - URI format
POST /v2/manage/namespaces
For details, see [Creating an Organization](#).
 - Example request
POST https://{*endpoint*}/v2/manage/namespaces
Body:

```
{
  "namespace": "group"
}
```

- Example response


```
{}
```
- 2. Query the list of organizations.
 - URI format

GET /v2/manage/namespaces?filter=namespace::{*namespace*}

For details, see [Querying Organizations](#).
 - Example request

GET https://{*endpoint*}/v2/manage/namespaces?filter=namespace::group
 - Example response


```
{
  "namespaces": [
    {
      "auth": 7,
      "creator_name": "test",
      "id": 7,
      "name": "group"
    }
  ]
}
```
- 3. Create an image repository.
 - URI format

POST /v2/manage/namespaces/{*namespace*}/repos

For details, see [Creating an Image Repository in an Organization](#).
 - Example request

POST https://{*endpoint*}/v2/manage/namespaces/{*namespace*}/repos?repository=test&category=linux&description=test&is_public=false
 - Example response


```
{}
```
- 4. Query the brief information on an image repository.
 - URI format

GET /v2/manage/namespaces/{*namespace*}/repos/{*repository*}

For details, see [Querying the Brief Information on an Image Repository](#).
 - Example request

GET https://{*endpoint*}/v2/manage/namespaces/{*namespace*}/repos/{*repository*}
 - Example response


```
{
  "category": "other",
  "created": "2020-10-30T11:35:02.939134Z",
  "creator_id": "ff4f44473a1d4ab3847906410af2d152",
  "creator_name": "test",
  "description": "",
  "domain_id": "8b1e*****b633fb",
  "id": 379367,
  "internal_path": "swr.cn-north-4.myhuaweicloud.com/group/test",
  "is_public": true,
  "name": "test",
  "ns_id": 7,
  "num_download": 3,
  "num_images": 1,
  "path": "swr.cn-north-4.myhuaweicloud.com/group/test",
  "priority": 0,
}
```

```
"size": 1304902,  
"updated": "2020-10-30T11:47:46.084808Z",  
"url": ""  
}
```

5.2 Adding Image Permissions

Scenario

This section describes how to add image permissions using APIs. For details on how to call APIs, see [Calling APIs](#).

Involved APIs

In this example, the following APIs are used to:

- [Creating Image Permissions](#)
- [Querying Image Permissions](#)

Endpoints

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

Prerequisites

An image repository has been created. For details on how to create an image repository, see [Creating an Image Repository](#).

Procedure

1. Create image permissions.
 - URI format
POST `/v2/manage/namespaces/{namespace}/repos/{repository}/access`
For details, see [Creating Image Permissions](#)
 - Example request
POST `https://{endpoint}/v2/manage/namespaces/group/repos/test/access`
Body:

```
[  
  {  
    "user_id": "fb3f175c1fd146ab8cdae3272be*****",  
    "user_name": "test",  
    "auth": 7  
  }  
]
```
 - Example response

```
{}
```
2. Query image permissions.
 - URI format
GET `https://{endpoint}/v2/manage/namespaces/{namespace}/repos/{repository}/access`

For details, see [Querying Image Permissions](#).

- Example request

GET /v2/manage/namespaces/group/repos/test/access

- Example response

```
{
  "id": 385550,
  "name": "test",
  "others_auths": [
    {
      "auth": 7,
      "user_id": "fb3f175c1fd146ab8cdae3272be*****",
      "user_name": "test"
    }
  ],
  "self_auth": {
    "auth": 7,
    "user_id": "fb3f175c1fd146ab8cdae3272be*****",
    "user_name": "test"
  }
}
```

5.3 Adding an Image Retention Policy

Scenario

This section describes how to add an image retention policy using APIs. For details on how to call APIs, see [Calling APIs](#).

Involved APIs

In this example, the following APIs are used to:

- [Adding an Image Retention Policy](#)
- [Deleting an Image Retention Policy](#)

Endpoints

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

Procedure

1. Add an image retention policy.

- URI format

POST /v2/manage/namespaces/{*namespace*}/repos/{*repository*}/retentions

For details, see [Adding an Image Retention Policy](#)

- Example request

POST https://{*endpoint*}/v2/manage/namespaces/group/repos/test/retentions

Body:

```
{
  "algorithm": "or",
```

```
"rules": [  
  {  
    "template": "date_rule",  
    "params": {  
      "days": "30"  
    },  
    "tag_selectors": [  
      {  
        "kind": "label",  
        "pattern": "v5"  
      },  
      {  
        "kind": "label",  
        "pattern": "1.0.1"  
      },  
      {  
        "kind": "regexp",  
        "pattern": "^123$"  
      }  
    ]  
  }  
]
```

– Example response

```
{  
  "id": 34  
}
```

2. Delete an image retention policy.

– URI format

DELETE /v2/manage/namespaces/{*namespace*}/repos/{*repository*}/retentions/{*retention_id*}

For details, see [Deleting an Image Retention Policy](#)

– Example request

DELETE https://{*endpoint*}/v2/manage/namespaces/group/repos/test/retentions/34

– Example response

```
{}
```


6 Appendixes

6.1 Status Codes

- Normal

| Returned Value | Description |
|----------------|---|
| 200 OK | The results of GET and PUT operations are returned as expected. |
| 201 Created | The results of the POST operation are returned as expected. |
| 202 Accepted | The request has been accepted for processing. |
| 204 No Content | The results of the DELETE operation are returned as expected. |

- Abnormal

| Returned Value | Description |
|------------------------|--|
| 400 Bad Request | The server failed to process the request. |
| 401 Unauthorized | You must enter a username and password to access the requested page. |
| 403 Forbidden | You are forbidden to access the requested page. |
| 404 Not Found | The server cannot find the requested page. |
| 405 Method Not Allowed | You are not allowed to use the method specified in the request. |
| 406 Not Acceptable | The response generated by the server cannot be accepted by the client. |

| Returned Value | Description |
|-----------------------------------|--|
| 407 Proxy Authentication Required | You must use the proxy server for authentication so that the request can be processed. |
| 408 Request Timeout | The request timed out. |
| 409 Conflict | The request could not be processed due to a conflict. |
| 500 Internal Server Error | The request failed because of a service error. |
| 501 Not Implemented | The request failed because the server does not support the requested function. |
| 502 Bad Gateway | The request failed because the request is invalid. |
| 503 Service Unavailable | The request failed because the service is unavailable. |
| 504 Gateway Timeout | A gateway timeout error occurred. |

6.2 Introduction

If an error occurs during API calling, no results will be returned. Identify the causes of errors based on the error codes of each API. If an error occurs in API calling, HTTP status code 4xx or 5xx is returned. The response body contains the specific error code and information. If you are unable to identify the cause of an error, contact customer service and provide the error code so that we can help you solve the problem as soon as possible.

Format of an Error Response Body

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

```
[
  {
    "errorCode": "SVCSTG.SWR.4001048",
    "errorMessage": "Failed to get Token from Context",
    "detail": ""
  }
]
```

In the preceding information, **errorCode** indicates an error code, **errorMessage** indicates error description, and **detail** provides error details.

Error Codes

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](#).

| Stat us Code | Error Code | Description | Solution |
|--------------------|--------------------|--|--|
| 401 | SVCSTG.SWR.4010000 | Authentication failed. The possible cause is that the token has expired. | Obtain a new token and try again later. |
| 500 | SVCSTG.SWR.5000001 | Internal server error: Failed to obtain the application description. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SWR.5000002 | Internal server error: Failed to obtain the image information. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SWR.5000003 | Internal server error: Failed to obtain the image list. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SWR.4040004 | The software package does not exist. | Check whether the package exists. If not, obtain it. |
| 500 | SVCSTG.SWR.5000005 | Internal server error: Deletion failed. | Rectify the issue based on the error details or contact technical support. |
| 409 | SVCSTG.SWR.4090006 | The image already exists. | Check whether the image already exists. |
| 500 | SVCSTG.SWR.5000007 | Internal server error: Obtain failed. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SWR.5000008 | Internal server error: Failed to obtain the list. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SWR.4040009 | The image list cannot be found. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SWR.4040010 | The image does not exist. | Check whether the image exists. |
| 500 | SVCSTG.SWR.5000011 | Internal server error: Update failed. | Rectify the issue based on the error details or contact technical support. |
| 406 | SVCSTG.SWR.4060074 | The organization cannot be deleted because there are images in it. | Delete images from the organization first. |
| 400 | SVCSTG.SWR.4000013 | Invalid digest. | Use an invalid digest. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|---|---|
| 400 | SVCSTG.SW R.4000014 | Invalid API parameters. | Modify the request body based on the error details and the SWR API documentation, or contact technical support. |
| 400 | SVCSTG.SW R.4000015 | Invalid package name. | Modify the request body based on the error details and the SWR API documentation, or contact technical support. |
| 400 | SVCSTG.SW R.4000016 | Invalid version number. | Modify the request body based on the error details and the SWR API documentation, or contact technical support. |
| 500 | SVCSTG.SW R.5000017 | Internal server error: Application signing is disabled. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000018 | Internal server error: Failed to read public keys. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000019 | Internal server error: Failed to find local files. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000020 | Internal server error: Failed to obtain session locks. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000021 | Internal server error: Failed to synchronize files. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000022 | Internal server error: Failed to synchronize meta files. | Rectify the issue based on the error details or contact technical support. |
| 406 | SVCSTG.SW R.4060012 | Failed to delete the image repository because there are images in it. | Delete images from the repository first. |
| 409 | SVCSTG.SW R.4090023 | The system is busy. | Try again later. |
| 500 | SVCSTG.SW R.5000024 | Internal server error: Failed to generate an SHA value. | Rectify the issue based on the error details or contact technical support. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|---|--|
| 413 | SVCSTG.SW R.4130025 | The file is too large. | Upload a smaller file. |
| 500 | SVCSTG.SW R.5000027 | Internal server error: Failed to decompress the package. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4000028 | Invalid image format. | Use a valid format. |
| 400 | SVCSTG.SW R.4000029 | Inconsistent image names. | Use a consistent image name. |
| 500 | SVCSTG.SW R.5000030 | Internal server error: Failed to locate the file pointer. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4000031 | Invalid AK/SK. | Use valid AK/SK. |
| 500 | SVCSTG.SW R.5000032 | Internal server error: JSON conversion failed. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000033 | Internal server error: Failed to save the application file. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000034 | Internal server error: Failed to delete the application. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000035 | Internal server error: Failed to save the application to the database. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000036 | Internal server error: Failed to update the application database. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000037 | Internal server error: Failed to create the signature. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000038 | Internal server error: Failed to delete the signature. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4000039 | Invalid session ID. | Check whether the session ID is valid. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|--|--|
| 500 | SVCSTG.SW R.5000040 | Failed to update status. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000041 | Internal server error: Failed to read the session. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000042 | Internal server error: Failed to reclaim the session. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4040043 | The session does not exist. | Check whether the session ID exists. |
| 500 | SVCSTG.SW R.5000044 | Internal server error: Failed to generate the session. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4000045 | Internal server error: Failed to bind the session. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000046 | Internal server error: Create failed. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4000047 | This version is not supported. | Use a supported version. |
| 404 | SVCSTG.SW R.4040048 | The image tag does not exist. | Check whether the image tag exists. |
| 500 | SVCSTG.SW R.5000049 | Internal server error: Failed to delete the image. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000050 | Internal server error: Failed to generate the digest. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000051 | Internal server error: Failed to obtain the SHA list. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000052 | Internal server error: Failed to reduce image references. | Rectify the issue based on the error details or contact technical support. |
| 406 | SVCSTG.SW R.4060053 | Delete failed. | Delete the software package first. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|--------------------|---|---|
| 500 | SVCSTG.SWR.5000054 | Internal server error: Save failed. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SWR.4000055 | No search criteria. | Enter search criteria. |
| 400 | SVCSTG.SWR.4000056 | Invalid page size. | Use the correct size. |
| 500 | SVCSTG.SWR.5000057 | Internal server error: Failed to obtain the organization. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SWR.4040058 | The organization does not exist. | Check whether the organization exists. |
| 500 | SVCSTG.SWR.5000059 | Internal server error: Failed to create the organization. | Rectify the issue based on the error details or contact technical support. |
| 409 | SVCSTG.SWR.4090060 | The organization already exists. | Check whether the organization already exists. |
| 500 | SVCSTG.SWR.5000061 | Failed to obtain the IP address of the software instance. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SWR.5000062 | Failed to obtain the local IP address of the software. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SWR.5000063 | Failed to obtain the tag list. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SWR.4000064 | Invalid image: The manifest file contains empty RepoTags. | Modify the request body based on the error details and the SWR API documentation, or contact technical support. |
| 400 | SVCSTG.SWR.4000065 | Invalid image: The manifest file does not have layer information. | Modify the request body based on the error details and the SWR API documentation, or contact technical support. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|---|---|
| 400 | SVCSTG.SW R.4000066 | Invalid image: The manifest file does not have configuration information. | Modify the request body based on the error details and the SWR API documentation, or contact technical support. |
| 400 | SVCSTG.SW R.4000067 | Invalid image package: The image package does not have a manifest file. | Check whether the image package format is correct. |
| 400 | SVCSTG.SW R.4000068 | Invalid image: Failed to parse the manifest file. | Modify the request body based on the error details and the SWR API documentation, or contact technical support. |
| 400 | SVCSTG.SW R.4000069 | Invalid image: The image format is incorrect or not supported. | Modify the request body based on the error details and the SWR API documentation, or contact technical support. |
| 507 | SVCSTG.SW R.5070070 | Your OBS service is disabled or an error occurs on it. | Check whether your OBS service is available. |
| 500 | SVCSTG.SW R.5000071 | Internal server error: Failed to obtain the user list. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000073 | Internal server error: Restore failed. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000075 | Internal server error: Failed to update the organization. | Rectify the issue based on the error details or contact technical support. |
| 409 | SVCSTG.SW R.4090076 | The organization permission already exists. | Check whether the organization permission already exists. |
| 500 | SVCSTG.SW R.5000077 | Internal server error: Failed to obtain the organization permission. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4040078 | The organization permission does not exist. | Check whether the organization permission exists. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|--|--|
| 500 | SVCSTG.SW R.5000079 | Internal server error: Failed to update the organization permission. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000080 | Internal server error: Failed to create the organization permission. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000081 | Internal server error: Failed to delete the organization permission. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000082 | Internal server error: Failed to parse the JSON file. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4040083 | The requested URL cannot be found. | Check whether the URL is correct. |
| 500 | SVCSTG.SW R.5000084 | Internal server error: Failed to obtain the service. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000085 | Internal server error: Failed to create the tag. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000086 | Internal server error: Failed to update the tag. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000087 | Internal server error: Failed to obtain the image layer. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5000088 | Internal server error: Failed to delete the image layer from UDS. | Rectify the issue based on the error details or contact technical support. |
| 409 | SVCSTG.SW R.4090089 | The permission already exists. | Check whether the permission already exists. |
| 500 | SVCSTG.SW R.5000090 | Internal server error: Failed to obtain the permission. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4040091 | The permission does not exist. | Check whether the permission exists. |
| 500 | SVCSTG.SW R.5000092 | Internal server error: Failed to update the permission. | Rectify the issue based on the error details or contact technical support. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|--|--|
| 500 | SVCSTG.SW R.5000093 | Internal server error: Failed to create the permission. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4000097 | The maximum number of organizations has been exceeded. | Submit a service ticket to increase the quota. |
| 400 | SVCSTG.SW R.4000098 | The maximum number of images has been exceeded. | Change the number of images and try again. |
| 400 | SVCSTG.SW R.4000099 | The maximum number of image tags has been exceeded. | Change the number of image tags and try again. |
| 500 | SVCSTG.SW R.5000112 | Internal server error. Failed to obtain the image. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4040113 | The image does not exist. | Check whether the image exists. |
| 500 | SVCSTG.SW R.5000114 | Internal server error. Failed to obtain the image tag. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4040115 | The image tag does not exist. | Check whether the image tag exists. |
| 400 | SVCSTG.SW R.4001000 | Content-Type must be set to multipart/form-data . | Check whether the value of Content-Type is multipart/ form-data . |
| 413 | SVCSTG.SW R.4131001 | The request exceeds the maximum size allowed. | The request body is too large. Change the body to a smaller size and try again. |
| 500 | SVCSTG.SW R.5001002 | Internal server error: The external address is disabled. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001003 | Failed to obtain the form file. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001004 | type must be set to app . | Change the value of type to app . |
| 400 | SVCSTG.SW R.4001005 | Failed to parse the form. | Rectify the issue based on the error details or contact technical support. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|--|---|
| 400 | SVCSTG.SW R.4001006 | Invalid meta file format. | Use a valid format. |
| 400 | SVCSTG.SW R.4001008 | Invalid organization or name. | Use a valid organization or name. |
| 400 | SVCSTG.SW R.4001009 | is_public must be set to true or false . | Change the value of is_public to true or false . |
| 400 | SVCSTG.SW R.4001010 | type must be set to app or image . | Change the value of type to app or image . |
| 400 | SVCSTG.SW R.4001011 | type must be set to app or image , or left blank. | Change the value of type to app or image , or left it blank. |
| 413 | SVCSTG.SW R.4131012 | The description exceeds the maximum length allowed. | Shorten the description. |
| 400 | SVCSTG.SW R.4001013 | ak and sk cannot be left blank. | Enter an AK and SK. |
| 400 | SVCSTG.SW R.4001014 | Mandatory parameters must be configured. | Configure all mandatory parameters. |
| 400 | SVCSTG.SW R.4001015 | The form file cannot be found. | Check whether the form file is missing. |
| 400 | SVCSTG.SW R.4001016 | is_public and manifests must be configured. | Check whether is_public and manifests are configured. |
| 400 | SVCSTG.SW R.4001018 | Invalid request body type. | Use a valid body type. |
| 400 | SVCSTG.SW R.4001019 | Failed to parse the form file. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001020 | Internal server error: Failed to read the form file. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001021 | The version number cannot be left blank. | Check whether the version number is left blank. |
| 400 | SVCSTG.SW R.4001022 | Invalid file type. | Use a valid file type. |
| 400 | SVCSTG.SW R.4001023 | The file type is not supported. | Use a supported file type. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|--|--|
| 400 | SVCSTG.SW R.4001024 | Failed to query parameters. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001025 | Invalid parameters. | Modify the query parameters based on the API documentation. |
| 500 | SVCSTG.SW R.5001026 | Failed to obtain the manifest file. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001027 | Status must be set to done or error . | Change the value of status to done or error . |
| 400 | SVCSTG.SW R.4001028 | Invalid organization name. | Use a valid organization name. |
| 400 | SVCSTG.SW R.4001029 | Invalid image name. | Use a valid image name. |
| 400 | SVCSTG.SW R.4001030 | Invalid package. | Change the value of package . |
| 403 | SVCSTG.SW R.4031032 | The number of requests exceeds the maximum number allowed. | Rectify the issue based on the error details or contact technical support. |
| 403 | SVCSTG.SW R.4031033 | Unavailable request. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001035 | Invalid filtering criteria. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001036 | Parameters are lost. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001037 | The registration center type is not supported. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001038 | The registration center is unavailable. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001039 | Search failed. | Rectify the issue based on the error details or contact technical support. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|--|--|
| 400 | SVCSTG.SW R.4001041 | Invalid domain. | Change the value of domain . |
| 403 | SVCSTG.SW R.4031042 | There are too many requests. | Rectify the issue based on the error details or contact technical support. |
| 403 | SVCSTG.SW R.4031043 | Invalid JWT token request. | Rectify the issue based on the error details or contact technical support. |
| 401 | SVCSTG.SW R.4011044 | The image has been created by another user. You do not have permission to upload it. | Check whether you have permission to upload the image. |
| 400 | SVCSTG.SW R.4001045 | The SWRServer parameter is missing. | Check whether the SWRServer parameter is missing. |
| 500 | SVCSTG.SW R.5001046 | Internal server error: Failed to check the organization. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001047 | Internal server error: Failed to save the organization. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4001048 | Failed to obtain the token. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001049 | Internal server error: Failed to delete the organization. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001050 | Internal server error: Failed to obtain the image layer. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4041051 | The image layer does not exist. | Check whether the image layer exists. |
| 500 | SVCSTG.SW R.5001052 | Internal server error: Invalid image layer. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001053 | Internal server error: Invalid upload of an image layer. | Rectify the issue based on the error details or contact technical support. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|--|--|
| 500 | SVCSTG.SW R.5001054 | Internal server error: Failed to create the image layer path. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001055 | Internal server error: Failed to save the image layer. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4041056 | The image tag does not exist. | Check whether the image tag exists. |
| 500 | SVCSTG.SW R.5001056 | Internal server error: Failed to obtain the tag list. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4041057 | The tag list does not exist. | Check whether the tag list exists. |
| 500 | SVCSTG.SW R.5001058 | Internal server error: Failed to save the image. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001059 | Internal server error: Failed to obtain the image. | Rectify the issue based on the error details or contact technical support. |
| 404 | SVCSTG.SW R.4041060 | The manifest file does not exist. | Check whether the manifest file exists. |
| 404 | SVCSTG.SW R.4041061 | The organization does not exist. | Check whether the organization exists. |
| 500 | SVCSTG.SW R.5001062 | Internal server error: Failed to update the organization. | Rectify the issue based on the error details or contact technical support. |
| 500 | SVCSTG.SW R.5001063 | Internal server error: Failed to delete the image layer. | Rectify the issue based on the error details or contact technical support. |
| 401 | SVCSTG.SW R.4011064 | Cross-account error. For example, you do not have permission to access or operate resources of other accounts. | Check whether you have the required permission. |
| 400 | SVCSTG.SW R.4001065 | Invalid organization permissions. | Change organization permissions. |
| 400 | SVCSTG.SW R.4001066 | Invalid permissions. | Change permissions. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|--------------------|--|--|
| 400 | SVCSTG.SWR.4001067 | Invalid username. | Use a valid username. |
| 500 | SVCSTG.SWR.5001076 | Failed to obtain the service token. | Rectify the issue based on the error details or contact technical support. |
| 401 | SVCSTG.S2I.4019000 | Authentication error: No user token or user AK/SK information found. | Check whether you have the required permission. |
| 403 | SVCSTG.SWR.4039001 | You cannot apply for or operate the resources that do not belong to you. | Check whether you have the required permission. |
| 403 | SVCSTG.SWR.4039002 | You do not have the permission to perform this operation. | Check whether you have the required permission. |
| 400 | SVCSTG.SWR.4009010 | Invalid organization. | Use a valid organization. |
| 400 | SVCSTG.SWR.4009011 | Invalid image name. | Use a valid image name. |
| 400 | SVCSTG.SWR.4009012 | Invalid code source type. | Use a valid code source type. |
| 400 | SVCSTG.SWR.4009013 | Invalid ID. | Use a valid ID. |
| 400 | SVCSTG.SWR.4009014 | Invalid filtering criteria. | Use valid filter criteria. |
| 400 | SVCSTG.SWR.4009015 | Failed to parse the build task. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SWR.4009016 | Invalid file path. | Use a valid file path. |
| 400 | SVCSTG.SWR.4009017 | Invalid source code owner. | Use a valid source code owner. |
| 400 | SVCSTG.SWR.4009018 | Invalid source code repository. | Use a valid code source repository. |
| 400 | SVCSTG.SWR.4009019 | Invalid source code repository ID. | Use a valid code source repository ID. |
| 400 | SVCSTG.SWR.4009020 | Invalid source code branch. | Use a valid code source branch. |

| Stat us Code | Error Code | Description | Solution |
|--------------------|------------------------|--|--|
| 400 | SVCSTG.SW R.4009021 | Invalid image tag. | Use a valid image tag. |
| 400 | SVCSTG.SW R.4009022 | Invalid source code username. | Use a valid code source user name. |
| 400 | SVCSTG.SW R.4009023 | Invalid commit ID. | Use a valid commit ID. |
| 400 | SVCSTG.SW R.4006030 | Failed to execute the build task. | Rectify the issue based on the error details or contact technical support. |
| 400 | SVCSTG.SW R.4006031 | The build record already exists. | Check whether the build record already exists. |
| 404 | SVCSTG.SW R.4046032 | The build record does not exist. | Check whether the build record exists. |
| 500 | SVCSTG.SW R.5006033 | Failed to obtain the build record from the database. | Rectify the issue based on the error details or contact technical support. |
| 403 | SVCSTG.SW R.4037017 | You do not have permission to modify or manage any organization. | Create an organization or obtain permission to modify and manage other organizations. |
| 403 | SVCSTG.SW R.4037018 | You do not have permission to modify or manage any images. | Create an image or obtain permission to modify and manage other images. |
| 500 | SVCSTG.SW R.5007019 | Failed to create the image. The maximum number of images have been reached. | Rectify the issue based on the error details or contact technical support. |
| 403 | SVCSTG.SW R.4037020 | You do not have permission to operate resources in the repository. | Elevate your permissions in the organization. |
| 400 | SVCSTG.SW R.4001091 | Invalid parameter: permission. | Change the value of permission . |

6.3 Obtaining a Project ID

Scenarios

A project ID is required for some URLs when an API is called. Therefore, you need to obtain a project ID in advance. Two methods are available:

- [Obtain the Project ID by Calling an API](#)
- [Obtain a Project ID from the Console](#)

Obtain the Project ID by Calling an API

You can obtain the project ID by calling the API used to [query for projects based on specified criteria](#).

The API used to obtain a project ID is **GET https://{Endpoint}/v3/projects**. *{Endpoint}* is the IAM endpoint and can be obtained from [Regions and Endpoints](#). For details about API authentication, see [Authentication](#).

The following is an example response. The value of **id** is the project ID.

```
{
  "projects": [
    {
      "domain_id": "65382*****14e684b",
      "is_domain": false,
      "parent_id": "65382*****14e684b",
      "name": "project_name",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6b99",
      "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

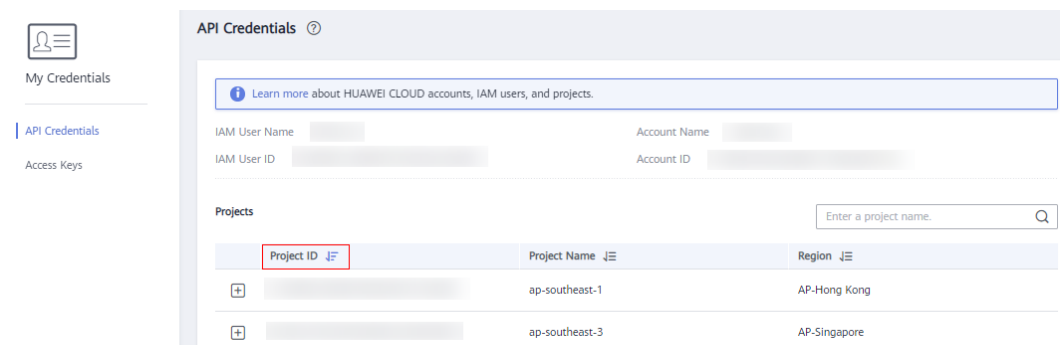
Obtain a Project ID from the Console

To obtain a project ID from the console, perform the following operations:

1. Log in to the management console.
2. Click the username and select **My Credentials** from the drop-down list.

On the **API Credentials** page, view the project ID in the project list.

Figure 6-1 Viewing the project ID



6.4 Obtaining the Username and User ID

Scenarios

When calling APIs, you need to fill in your domain name and domain ID in certain URLs. To do so, you need to obtain domain name and domain ID on the console first. For details, see [Procedure](#).

Procedure

1. Log in to the management console.
2. Hover the mouse pointer over the username in the upper right corner and choose **My Credentials** from the drop-down list.

On the displayed **API Credentials** page, view the IAM username and IAM user ID.

Figure 6-2 API credentials

