

Cloud Operations Center

API Reference

Issue	01
Date	2025-11-21



Copyright © Huawei Cloud Computing Technologies Co., Ltd. 2025. All rights reserved.

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

Trademarks and Permissions



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

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

Notice

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

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

Huawei Cloud Computing Technologies Co., Ltd.

Address: Huawei Cloud Data Center Jiaoxinggong Road
Qianzhong Avenue
Gui'an New District
Gui Zhou 550029
People's Republic of China

Website: <https://www.huaweicloud.com/intl/en-us/>

Contents

- 1 Before You Start..... 1
- 2 API Overview..... 3
- 3 Calling APIs..... 4
 - 3.1 Making an API Request..... 4
 - 3.2 Authentication..... 8
 - 3.3 Response..... 9
- 4 API..... 12
 - 4.1 Application Resource Management..... 12
 - 4.1.1 Querying Tenant Resource Information..... 12
 - 4.2 Script Management..... 14
 - 4.2.1 Creating a Script..... 14
 - 4.2.2 Querying a Script List..... 20
 - 4.2.3 Deleting a Customized Script..... 24
 - 4.2.4 Modifying a Script..... 26
 - 4.2.5 Obtaining Details About a Custom Script..... 30
 - 4.2.6 Executing Customized Scripts..... 35
 - 4.3 Script Tickets..... 39
 - 4.3.1 Displaying Basic Information About a Script Service Ticket..... 39
 - 4.3.2 Displaying the Batch List..... 43
 - 4.3.3 Displaying Instance Status Statistics..... 44
 - 4.3.4 Displaying Batch Details..... 46
 - 4.3.5 Displaying the Service Ticket List..... 50
 - 4.3.6 Performing Operations on a Script Service Ticket..... 54
 - 4.4 Fault Management..... 56
 - 4.4.1 Incident Management..... 56
 - 4.4.1.1 Creating an Incident Ticket..... 56
 - 4.4.1.2 Processing an Incident Ticket..... 61
 - 4.4.1.3 Querying Incident Ticket Details..... 65
 - 4.4.1.4 Incident-related Enumeration Information..... 72
 - 4.4.1.4.1 Incident Level..... 72
 - 4.4.1.4.2 Incident Type..... 73
 - 4.4.1.4.3 Incident Source..... 73

4.4.1.4.4 Incident Status..... 74

4.4.2 Integration Management..... 74

4.5 Patch management..... 78

4.5.1 Querying Patch Compliance Reports..... 78

4.5.2 Querying Compliance Report Details..... 83

5 Appendix.....87

5.1 Status Code..... 87

5.2 Error code..... 88

5.3 Obtaining a Project ID.....89

1 Before You Start

COC is a secure and efficient O&M platform, offering one-stop, AI-powered solutions for all your centralized O&M needs. It encompasses Huawei Cloud deterministic operations scenarios and features essential functionalities such as change management, batch O&M, and chaos drills, to improve cloud O&M efficiency while ensuring security compliance.

COC provides the following functions:

- O&M situation awareness dashboard is the dedicated O&M BI dashboard for different O&M roles to help management in insight decision-making and optimization.
- Full-lifecycle resource management is available. It includes O&M operations such as resource definition, request, provisioning, O&M, configuration change, renewal, and recycling; building a resource management cockpit.
- Change risk control and job trustworthiness are available. The management and control model of best practices of Huawei SRE in secure production helps you achieve trustworthy, stable, and reliable O&M experience.
- Standardized fault management and war room cockpit achieve efficient fault collaboration and quick fault rectification.
- Intelligent chaos drills provide full-stack chaos engineering solutions, transforming traditional passive O&M to proactive O&M.

API Calling

COC provides Representational State Transfer (REST) APIs, and allows you to make API calls over HTTPS.

VPC Endpoint

An endpoint is the **request address** for calling an API. Endpoints vary according to services and regions. For the endpoints of all services, see Regions and Endpoints.

Restrictions and Limitations

For more constraints, see [API](#).

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 in IAM 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 project corresponds to a region. Default projects are defined. Users can be granted permissions in a default project to access all resources under their accounts 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.
- **Enterprise Project**
Enterprise projects group and manage resources across regions. Resources in different enterprise projects are logically isolated.
For details about enterprise projects and about how to obtain enterprise project IDs, see [Enterprise Management User Guide](#).

2 API Overview

COC provides you with APIs related to resource O&M and automatic O&M.

Table 2-1 API description

API Category	Description
Application resource management	Execute tenant entrustment including synchronizing tenant RMS resources for the first time and querying tenant resource information.
Automated O&M	Create, modify, delete, and query customized scripts.
Incident management	Create, process, verify, and query incidents.
Integration management	Transfer the alarms from the user-built monitoring system to COC.
Patch management	Query patch management compliance reports.

3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API request, and uses the IAM API for obtaining a user token for user authentication as an example to describe how to call an API. For details about this API, see [Obtaining a User Token](#).

Request URI

A request URI is in the following format:

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

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

Table 3-1 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 region Dublin is iam.myhuaweicloud.eu .
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 for obtaining a user token is /v3/auth/tokens .

Parameter	Description
query-string	(Optional) Query parameter. Not all APIs have a query parameter. 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 **Dublin** region, obtain the endpoint of IAM (**iam.myhuaweicloud.eu**) 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.myhuaweicloud.eu/v3/auth/tokens
```

NOTE

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

Request Methods

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

Table 3-2 HTTP methods

Method	Description
GET	Requests a server to return specified resources.
PUT	Requests a server to update specified resources.
POST	Requests a 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 resource. If the requested resource does not exist, the server may create a resource using PATCH.

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.myhuaweicloud.eu/v3/auth/tokens
```

Request Header

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

For details about the common request header, see [Table 3-3](#).

Table 3-3 Common request headers

Parameter	Description	Mandatory or Not	Example
Host	Request server information, which is obtained from the URL of a service API. This value is <i>host name[: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	Message body type or format. 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	Length of the request body. The unit is byte.	No	3495
X-Project-Id	Project ID. Obtain it by referring to 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

Parameter	Description	Mandatory or Not	Example
X-Auth-Token	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 details, see "AK/SK Authentication" in .

The [obtain a user token](#) API only requires to add the **Content-Type** because authentication is not required, the request with the added header is as follows:

```
POST https://iam.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json
```

(Optional) Request Body

This part is optional. The body of a request is often sent in a structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The request body transfers content except the request header. If the request body contains full-width characters, these characters must be coded in UTF-8.

Request bodies vary depending on APIs. Some APIs do not require a request body, such as the APIs requested using the GET and DELETE methods.

For the [obtain a user token](#) API, the request parameters and parameter description are available in the request. The following provides an example request with a body included. Replace *username*, *domainname*, ******* (login password), and *xxxxxxxxxxxxxxxxxxx* (project ID) with the actual values, for example, **eu-west-101**. Obtain the value from Regions and Endpoints.

 NOTE

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

```
POST https://iam.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json
```

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

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

3.2 Authentication

You can use either of the following authentication methods to call APIs:

- 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-based Authentication

NOTE

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

A token is used to acquire temporary permissions. 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.

COC 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", //IAM user name
        "password": "*****", //IAM user password
        "domain": {
          "name": "domainname" //Name of the account to which the IAM user belongs
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxx" // Project name
      }
    }
  }
}
```

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

```
GET https://iam.myhuaweicloud.eu/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFG....
```

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, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key, which is 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.

3.3 Response

Status Code

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

A status code is a group of digits ranging from 1xx to 5xx. It indicates the status of a request. For more information, see .

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

Response Header

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

Figure 3-1 shows the response header fields for the API used to [obtain a user token](#). The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 3-1 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
→ MIIYXQYJKoZIhvcNAQcCoIIYJCCEoCAQExDTALBgIghkgB8QMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjIwMTktMDItMTNUMC
fj3KJ56YgKnpVNRbW2eZ5eb78SZOkqjACgklqO1wi4JlGzrpd18LGXK5tdfq4lqHCYb8P4NaY0NYejcAgz/VeFYtLWT1GSO0zxKZmlQHqJ82HBqHdglZO9fuEbL5dMhdavj+33wEI
xHRCe9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FrucL6jagglFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3Hrozv0vN--n5d6Nbxg==

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 used 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.

4 API

4.1 Application Resource Management

4.1.1 Querying Tenant Resource Information

Function

This API is used to query tenant resource information.

URI

GET /v1/resources

Table 4-1 Query parameters

Parameter	Mandatory	Type	Description
resource_id_list	No	Array	Resource ID list
provider	Yes	String	Specifies the cloud service name.
type	Yes	String	Resource type name
limit	Yes	Integer	Maximum number of returned records. The maximum value is 100.
marker	No	String	Pagination parameter. You can use the marker value returned in the previous request as the number of the first page of records to return in this request.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-2 Response body parameters

Parameter	Type	Description
data	Array of data objects	Specifies resource list

Table 4-3 data

Parameter	Type	Description
id	String	Resource ID allocated by CMDB.
resource_id	String	ID of the resource allocated by the cloud service.
name	String	Resource name
provider	String	Specifies the cloud service name.
type	String	Resource type
project_id	String	Project I in OpenStack
region_id	String	region ID
ep_id	String	The enterprise project ID
tags	Map<String,String>	Resource tag
properties	Map<String,Object>	Resource attribute details
agent_id	String	ID allocated by the UniAgent

Status code: 400

Table 4-4 Response body parameters

Parameter	Type	Description
error_code	String	Error code Minimum length: 8 characters Maximum length: 36 characters
error_msg	String	Error description Minimum length: 2 characters Maximum length: 512 characters

Request Example

None

Response Example

None

Status Code

Status Code	Description
200	resource info
400	Error response

4.2 Script Management

4.2.1 Creating a Script

Function

This API is used to create custom job scripts.

- A script with a tag attribute is a high-risk script. When creating such script, you do not need to perform secondary verification on whether it is high-risk.
- Tenants are isolated. For scripts created through the northbound interface, if the reviewer field is not set, review is not required by default.
- Constraints:
- Script name: The script name under the same tenant must be unique. It can contain letters, digits, and underscores (_), with the maximum length of 64 characters.
- The script content can contain a maximum of 4,096 characters.

- A maximum of 20 script parameters are allowed.
- Script description: Enter a maximum of 256 characters.
- The name of a single parameter can contains 64 characters, including only letters, digits, and underscores (_).
- The value of a single parameter can contain a maximum of 1024 characters. The regular expression is `^((?!{2,})[a-zA-Z0-9_-/*\x20?:",=+@\[\{\}])*$`.
- A maximum of five reviewers are supported.
- The maximum size of logs generated by the script can only be 1 MB.

URI

POST /v1/job/scripts

Request Parameters

Table 4-5 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Script name: The value can contain only letters, digits, and underscores (_). Minimum length: 1 character Maximum length: 64 characters
properties	Yes	ScriptPropertiesModel object	Label of the script. • Risk level (value range: LOW, MEDIUM, and HIGH), reviewer, and interpreter
description	Yes	String	Script description Minimum length: 1 character Maximum length: 256 characters
type	Yes	String	Script type, which is distinguished by script name suffixes: SHELL ::sh PYTHON ::py BAT ::bat The value can be: • SHELL • PYTHON • BAT

Parameter	Mandatory	Type	Description
content	Yes	String	Script content Minimum length: 1 character Maximum length: 4096 characters
script_params	No	Array of ScriptParam Define objects	Input parameter Array length: 0 to 20 characters

Table 4-6 ScriptPropertiesModel

Parameter	Mandatory	Type	Description
risk_level	Yes	String	Risk level. LOW : low risk. MEDIUM : medium risk. HIGH : high risk. The value can be: • LOW • MEDIUM • HIGH
version	Yes	String	Script version number. Minimum length: 1 character Maximum length: 10 characters
reviewers	No	Array of ReviewerInfo objects	Approver. If this parameter is not specified, review is not required. Array length: 0 to 5 characters

Parameter	Mandatory	Type	Description
protocol	No	String	Review message notification protocol, which is used to notify reviewers. DEFAULT : default; SMS : SMS; EMAIL : email; DING_TALK : DingTalk; WE_LINK : WeLink; WECHAT : WeChat; CALLNOTIFY : language; NOT_TO_NOTIFY : no notification The value can be: • DEFAULT • SMS • EMAIL • DING_TALK • WE_LINK • WECHAT • CALLNOTIFY • NOT_TO_NOTIFY

Table 4-7 ReviewerInfo

Parameter	Mandatory	Type	Description
reviewer_name	Yes	String	Reviewer name (IAM username) Minimum length: 1 character Maximum length: 64 characters
reviewer_id	Yes	String	Reviewer ID (IAM user ID) Minimum length: 0 character Maximum length: 32 characters

Table 4-8 ScriptParamDefine

Parameter	Mandatory	Type	Description
param_name	Yes	String	The parameter name can contain only letters, digits, and underscores (_). Minimum length: 1 character Maximum length: 64 characters
param_value	Yes	String	Default value. Minimum length: 0 character Maximum length: 1,024 characters
param_description	Yes	String	Description of the parameter. Minimum length: 0 character Maximum length: 256 characters
param_order	Yes	Integer	Parameter sequence. The value starts from 1 and must be consecutive. Minimum value: 1 Maximum value: 20
sensitive	Yes	Boolean	Whether a parameter is sensitive.

Response Parameters

Status code: 400

Table 4-9 Response body parameters

Parameter	Type	Description
error_code	String	Error code Minimum length: 8 characters Maximum length: 36 characters
error_msg	String	Error description Minimum length: 2 characters Maximum length: 512 characters

Request Example

Instance Request Body

```
https://{Endpoint}/v1/job/scripts

{
  "type": "SHELL",
  "content": "echo ${value}",
  "name": "09101112",
  "description": " Instance Script",
  "properties": {
    "risk_level": "HIGH",
    "version": "1.0.0",
    "reviewers": [ {
      "reviewer_name": "test",
      "reviewer_id": "7a8513cd87b7448283a1d5190eb91234"
    } ],
    "protocol": "WECHAT"
  },
  "script_params": [ {
    "param_name": "a",
    "param_value": "string",
    "param_description": "string",
    "param_order": 1,
    "sensitive": true
  } ]
}
```

Response Example

Status code: **200**

Script UUID.

```
{
  "data": "SC2023102521413701c4a8a62"
}
```

Status code: **400**

Error information

```
{
  "error_code": "COC.00040701",
  "error_msg": "script_params size must be between 0 and 50"
}
```

Status Code

Status Code	Description
200	Script UUID.
400	The contained error information is returned.

4.2.2 Querying a Script List

Function

This API is used to query custom job script list.

A maximum of 100 scripts can be queried.

URI

GET /v1/job/scripts

Table 4-10 Query parameters

Parameter	Mandatory	Type	Description
limit	Yes	Integer	Pagination parameter: maximum number of records returned on each page. Minimum value: 1 Maximum value: 100
marker	No	Long	Pagination parameter: ID of the last record on the previous page. Minimum value: 0 Maximum value: 9223372036854775807
name_like	No	String	Script name (fuzzy) Minimum length: 1 character Maximum length: 32 characters
creator	No	String	Creator. Minimum length: 1 character Maximum length: 64 characters
risk_level	No	String	Risk level. LOW : low risk. MEDIUM : medium risk. HIGH : high risk. The value can be: • LOW • MEDIUM • HIGH

Parameter	Mandatory	Type	Description
type	No	String	Script type. The options are as follows: SHELL : shell script; PYTHON : Python script; BAT : Bat script. The value can be: • SHELL • PYTHON • BAT

Request Parameters

None

Response Parameters

Status code: **200**

Table 4-11 Response body parameters

Parameter	Type	Description
total	Long	Total number of records Minimum value: 1 Maximum value: 9223372036854775807
data	Array of ScriptListModel objects	Data listed on a single page. Array length: 1 to 100 characters

Table 4-12 ScriptListModel

Parameter	Type	Description
id	Long	Script auto-increment ID. Minimum value: 1 Maximum value: 9223372036854775807
script_uuid	String	Script UUID. Minimum length: 1 character Maximum length: 25 characters
name	String	Script name. Minimum length: 1 character Maximum length: 64 characters

Parameter	Type	Description
type	String	Script type. The options are as follows: SHELL : shell script; PYTHON : Python script; BAT : Bat script. The value can be: • SHELL • PYTHON • BAT
status	String	Script status. The options are as follows: PENDING_APPROVE : to be approved; APPROVED : normal (approved); REJECTED : rejected (approved by the reviewer) The value can be: • PENDING_APPROVE • APPROVED • REJECTED
gmt_created	Long	Creation time. Minimum value: 1 Maximum value: 9223372036854775807
gmt_modified	Long	Modification time Minimum value: 1 Maximum value: 9223372036854775807
creator	String	Creator. Minimum length: 1 character Maximum length: 64 characters
creator_id	String	Creator ID. Minimum length: 1 character Maximum length: 64 characters
operator	String	Modifier. Minimum length: 1 character Maximum length: 64 characters
properties	ScriptPropertiesModel object	Script label: risk_level (value range: LOW , MEDIUM , and HIGH) and reviewer

Table 4-13 ScriptPropertiesModel

Parameter	Type	Description
risk_level	String	Risk level. LOW : low risk; MEDIUM : medium risk; HIGH : high risk The value can be: • LOW • MEDIUM • HIGH
version	String	Script version number. Minimum length: 1 character Maximum length: 10 characters
reviewers	Array of ReviewerInfo objects	Approver. If this parameter is not specified, review is not required. Array length: 0 to 5 characters
protocol	String	Review message notification protocol, which is used to notify reviewers. DEFAULT : default; SMS : SMS; EMAIL : email; DING_TALK : DingTalk; WE_LINK : WeLink; WECHAT : WeChat; CALLNOTIFY : language; NOT_TO_NOTIFY : no notification The value can be: • DEFAULT • SMS • EMAIL • DING_TALK • WE_LINK • WECHAT • CALLNOTIFY • NOT_TO_NOTIFY

Table 4-14 ReviewerInfo

Parameter	Type	Description
reviewer_name	String	Reviewer name (IAM username) Minimum length: 1 character Maximum length: 64 characters
reviewer_id	String	Reviewer ID (IAM user ID) Minimum length: 0 character Maximum length: 32 characters

Status code: 400

Table 4-15 Response body parameters

Parameter	Type	Description
error_code	String	Error code Minimum length: 8 characters Maximum length: 36 characters
error_msg	String	Error description Minimum length: 2 characters Maximum length: 512 characters

Request Example

None

Response Example

Status code: 400

Error information

```
{  
  "error_code" : "COC.00040701",  
  "error_msg" : "error_msg"  
}
```

Status Code

Status Code	Description
200	Script pagination data.
400	The contained error information is returned.

4.2.3 Deleting a Customized Script

Function

This API is used to delete custom job scripts.

URI

DELETE /v1/job/scripts/{script_uuid}

Table 4-16 URI parameters

Parameter	Mandatory	Type	Description
script_uuid	Yes	String	Script UUID. Minimum length: 1 character Maximum length: 25 characters

Request Parameters

None

Response Parameters

Status code: 400

Table 4-17 Response body parameters

Parameter	Type	Description
error_code	String	Error code Minimum length: 8 characters Maximum length: 36 characters
error_msg	String	Error description Minimum length: 2 characters Maximum length: 512 characters

Request Example

None

Response Example

Status code: 400

Error information

```
{  
  "error_code" : "COC.00040701",  
  "error_msg" : "error_msg"  
}
```

Status Code

Status Code	Description
200	Script UUID.
400	The contained error information is returned.

4.2.4 Modifying a Script

Function

This API is used to modify custom job scripts.

Constraints:

- Script name: The script name under the same tenant must be unique. It can contain letters, digits, and underscores (_), with the maximum length of 64 characters.
- The script content can contain a maximum of 4,096 characters. A maximum of 20 script parameters are allowed.
- Script description: Enter a maximum of 256 characters. The name of a single parameter contains 64 characters, including only letters, digits, and underscores (_). The value of a single parameter can contain a maximum of 1,024 characters. The regular expression is `^((?!{2,})[a-zA-Z0-9_-/.|x20?:",=+@{[]}])`.
- If there is a review for the script to be modified, you need to select the reviewer again after the modification and query the review.

URI

PUT /v1/job/scripts/{script_uuid}

Table 4-18 URI parameters

Parameter	Mandatory	Type	Description
script_uuid	Yes	String	Script UUID. Minimum length: 1 character Maximum length: 25 characters

Request Parameters

Table 4-19 Request body parameters

Parameter	Mandatory	Type	Description
description	Yes	String	Script description Minimum length: 1 character Maximum length: 256 characters
content	Yes	String	Script content Minimum length: 1 character Maximum length: 4096 characters
properties	No	ScriptPropertiesModel object	Risk Level: The value can be LOW , HIGH , or MEDIUM . The reviewer can only modify the risk level.
script_params	No	Array of ScriptParamDefine objects	Input parameter Array length: 0 to 5 characters

Table 4-20 ScriptPropertiesModel

Parameter	Mandatory	Type	Description
risk_level	Yes	String	Risk level. LOW : low risk; MEDIUM : medium risk; HIGH : high risk The value can be: • LOW • MEDIUM • HIGH
version	Yes	String	Script version number. Minimum length: 1 character Maximum length: 10 characters
reviewers	No	Array of ReviewerInfo objects	Approver. If this parameter is not specified, review is not required. Array length: 0 to 5 characters

Parameter	Mandatory	Type	Description
protocol	No	String	Review message notification protocol, which is used to notify reviewers. DEFAULT: default; SMS: SMS; EMAIL: email; DING_TALK: DingTalk; WE_LINK: WeLink; WECHAT: WeChat; CALLNOTIFY: language; NOT_TO_NOTIFY: no notification The value can be: • DEFAULT • SMS • EMAIL • DING_TALK • WE_LINK • WECHAT • CALLNOTIFY • NOT_TO_NOTIFY

Table 4-21 ReviewerInfo

Parameter	Mandatory	Type	Description
reviewer_name	Yes	String	Reviewer name (IAM username) Minimum length: 1 character Maximum length: 64 characters
reviewer_id	Yes	String	Reviewer ID (IAM user ID) Minimum length: 0 character Maximum length: 32 characters

Table 4-22 ScriptParamDefine

Parameter	Mandatory	Type	Description
param_name	Yes	String	The parameter name can contain only letters, digits, and underscores (_). Minimum length: 1 character Maximum length: 64 characters
param_value	Yes	String	Default value. Minimum length: 0 character Maximum length: 1,024 characters
param_description	Yes	String	Description of the parameter. Minimum length: 0 character Maximum length: 256 characters
param_order	Yes	Integer	Parameter sequence. The value starts from 1 and must be consecutive. Minimum value: 1 Maximum value: 20
sensitive	Yes	Boolean	Whether a parameter is sensitive.

Response Parameters

Status code: 400

Table 4-23 Response body parameters

Parameter	Type	Description
error_code	String	Error code Minimum length: 8 characters Maximum length: 36 characters
error_msg	String	Error description Minimum length: 2 characters Maximum length: 512 characters

Request Example

```
https://{Endpoint}/v1/job/scripts/SC2023110211155901a700000
```

```
{
  "type" : "SHELL",
  "content" : "echo ${a}",
  "name" : "019101112",
  "description": "modification",
  "properties" : {
    "risk_level" : "HIGH",
    "version" : "1.1.1",
    "reviewers" : [ ]
  },
  "script_params" : [ {
    "param_name" : "a",
    "param_value" : "string",
    "param_description" : "string",
    "param_order" : 1,
    "sensitive" : true
  } ]
}
```

Response Example

Status code: **200**

Script UUID.

```
{
  "data" : "SC2023110211155901a787af4"
}
```

Status code: **400**

```
{
  "error_code" : "COC.00040701",
  "error_msg" : "error_msg"
}
```

Status Code

Status Code	Description
200	Script UUID.
400	The contained error information is returned.

4.2.5 Obtaining Details About a Custom Script

Function

This API is used to obtain script details.

Constraints: Only details about custom scripts can be queried.

URI

GET /v1/job/scripts/{script_uuid}

Table 4-24 URI parameters

Parameter	Mandatory	Type	Description
script_uuid	Yes	String	Script UUID.

Request Parameters

None

Response Parameters

Status code: **200**

Table 4-25 Response body parameters

Parameter	Type	Description
script_uuid	String	Script UUID. Minimum length: 1 character Maximum length: 25 characters
name	String	Script name. Minimum length: 1 character Maximum length: 64 characters
version	String	Script version number. The field will be discarded later. You are not advised to specify it. Minimum length: 1 character Maximum length: 16 characters
description	String	Script description Minimum length: 1 character Maximum length: 256 characters
type	String	Script type. The options are as follows: SHELL : shell script; PYTHON : Python script; BAT : Bat script. The value can be: • SHELL • PYTHON • BAT
content	String	Script content Minimum length: 1 character Maximum length: 4096 characters

Parameter	Type	Description
script_params	Array of ScriptParamDefine objects	Input parameter Array length: 0 to 20 characters
status	String	Script status. The options are as follows: PENDING_APPROVE : to be approved; APPROVED : normal (approved); REJECTED : rejected (approved by the reviewer) The value can be: • PENDING_APPROVE • APPROVED • REJECTED
gmt_created	Long	Creation time. Minimum value: 1 Maximum value: 9223372036854775807
gmt_modified	Long	Modification time. Minimum value: 1 Maximum value: 9223372036854775807
creator	String	Creator. Minimum length: 1 character Maximum length: 64 characters
creator_id	String	Creator ID. Minimum length: 1 character Maximum length: 32 characters
operator	String	Modifier. Minimum length: 1 character Maximum length: 32 characters
properties	ScriptPropertiesModel object	Script label. Risk level (value range: LOW , MEDIUM , and HIGH), reviewer, and interpreter

Table 4-26 ScriptParamDefine

Parameter	Type	Description
param_name	String	The parameter name can contain only letters, digits, and underscores (_). Minimum length: 1 character Maximum length: 64 characters

Parameter	Type	Description
param_value	String	Default value. Minimum length: 0 character Maximum length: 1,024 characters
param_description	String	Description of the parameter. Minimum length: 0 character Maximum length: 256 characters
param_order	Integer	Parameter sequence. The value starts from 1 and must be consecutive. Minimum value: 1 Maximum value: 20
sensitive	Boolean	Whether a parameter is sensitive.

Table 4-27 ScriptPropertiesModel

Parameter	Type	Description
risk_level	String	Risk level. LOW : low risk; MEDIUM : medium risk; HIGH : high risk The value can be: • LOW • MEDIUM • HIGH
version	String	Script version number. Minimum length: 1 character Maximum length: 10 characters
reviewers	Array of ReviewerInfo objects	Approver. If this parameter is not specified, review is not required. Array length: 0 to 5 characters

Parameter	Type	Description
protocol	String	Review message notification protocol, which is used to notify reviewers. DEFAULT : default; SMS : SMS; EMAIL : email; DING_TALK : DingTalk; WE_LINK : WeLink; WECHAT : WeChat; CALLNOTIFY : language; NOT_TO_NOTIFY : no notification The value can be: • DEFAULT • SMS • EMAIL • DING_TALK • WE_LINK • WECHAT • CALLNOTIFY • NOT_TO_NOTIFY

Table 4-28 ReviewerInfo

Parameter	Type	Description
reviewer_name	String	Reviewer name (IAM username) Minimum length: 1 character Maximum length: 64 characters
reviewer_id	String	Reviewer ID (IAM user ID) Minimum length: 0 character Maximum length: 32 characters

Request Example

None

Response Example

None

Status Code

Status Code	Description
200	Custom script details

4.2.6 Executing Customized Scripts

Function

This API is used to execute scripts.

A maximum of 20 script input parameters, timeout interval, execution user, and resource restriction script input parameters are supported. A maximum of 200 hosts can be delivered at a time. The maximum number of hosts in a batch is 10. The maximum number of batches is 20. The maximum size of logs generated by the script can only be 1 MB.

URI

POST /v1/job/scripts/{script_uuid}

Table 4-29 URI parameters

Parameter	Mandatory	Type	Description
script_uuid	Yes	String	Script UUID.

Request Parameters

Table 4-30 Request body parameters

Parameter	Mandatory	Type	Description
execute_param	Yes	ScriptExecuteParam object	Script execution parameters
execute_batches	Yes	Array of ExecuteInstancesBatchInfo objects	Target instance batch information

Table 4-31 ScriptExecuteParam

Parameter	Mandatory	Type	Description
resourceful	Yes	Boolean	Whether resources are limited. The value true indicates that resources are not limited, and the value false indicates that resources are limited.

Parameter	Mandatory	Type	Description
timeout	Yes	Integer	Timeout interval, in seconds. The value range is to be determined. The value is greater than 5 and less than 1800. Minimum value: 5 Maximum value: 1800
success_rate	Yes	Double	Success rate. The value can contain one decimal place. Minimum value: 1 Maximum value: 100
execute_user	Yes	String	User who executes the script. The script must be executed by user root . Minimum length: 1 character Maximum length: 32 characters
script_params	No	Array of ScriptExecuteInputParam objects	Script input parameter list

Table 4-32 ScriptExecuteInputParam

Parameter	Mandatory	Type	Description
param_name	Yes	String	Name of a script input parameter. The parameter name must be unique in the same script. Minimum length: 1 character Maximum length: 64 characters
param_value	Yes	String	Value of the script input parameter. Minimum length: 0 character Maximum length: 1,024 characters The value can be: • <code>^((?!\\.{2</code> • <code>})[a-zA-Z0-9_\\-\\.\\x20\\?:"</code> • <code>=+@[\\[\\]\\])*\$</code>

Parameter	Mandatory	Type	Description
param_order	Yes	Integer	Parameter sequence. The value starts from 1 and must be consecutive. Minimum value: 1 Maximum value: 20

Table 4-33 ExecuteInstancesBatchInfo

Parameter	Mandatory	Type	Description
batch_index	Yes	Integer	Batch index. The value starts from 1 . Minimum value: 1 Maximum value: 20
target_instances	Yes	Array of ExecuteResourceInstance objects	Target node list Array length: 1 to 10 characters
rotation_strategy	Yes	String	Suspension and resumption policy The value can be: • CONTINUE • PAUSE

Table 4-34 ExecuteResourceInstance

Parameter	Mandatory	Type	Description
resource_id	Yes	String	ECS ID Minimum length: 1 character Maximum length: 64 characters
agent_sn	Yes	String	UniAgent_sn Minimum length: 1 character Maximum length: 32 characters
project_id	Yes	String	Project ID Minimum length: 1 character Maximum length: 32 characters

Parameter	Mandatory	Type	Description
region_id	Yes	String	Region to which the server belongs Minimum length: 1 character Maximum length: 32 characters

Response Parameters

Status code: 204

Table 4-35 Response body parameters

Parameter	Type	Description
error_code	String	Error code Minimum length: 8 characters Maximum length: 36 characters
error_msg	String	Error description Minimum length: 2 characters Maximum length: 512 characters

Request Example

https://coc.myhuawei.com/v1/job/scripts/{script_uuid}

```
{
  "execute_param": {
    "timeout": 300,
    "execute_user": "root",
    "success_rate": "100.0",
    "script_params": [ {
      "param_name": "a",
      "param_value": "key1",
      "param_order": 1
    } ]
  },
  "execute_batches": [ {
    "batch_index": 1,
    "rotation_strategy": "CONTINUE",
    "target_instances": [ {
      "resource_id": "resource_id",
      "agent_sn": "agent_sn",
      "agent_status": "ONLINE",
      "region_id": "cn-north-7",
      "project_id": "project_id"
    } ]
  } ]
}
```

Response Example

Status code: **200**

execute_uuid

```
{  
  "data" : "SCT2023083109562601af694bf"  
}
```

Status code: 204

```
{  
  "error_code" : "COC.00040701",  
  "error_msg" : "error_msg"  
}
```

Status Code

Status Code	Description
200	execute_uuid
204	Error information is included.

4.3 Script Tickets

4.3.1 Displaying Basic Information About a Script Service Ticket

Function

This API is used to query basic information about a script service ticket, including execution type, execution name, creator, creation time, end time, execution status, and tag (script ID, script name, script execution parameters, execution user, timeout duration, and success rate threshold).

Different task types consume different keys in the tag.

URI

GET /v1/job/script/orders/{execute_uuid}

Table 4-36 URI parameters

Parameter	Mandatory	Type	Description
execute_uuid	Yes	String	Execution ID of a script service ticket, which is obtained from the response bodies of executeJobScript and ListJobScriptOrders. Minimum length: 1 character Maximum length: 26 characters

Request Parameters

None

Response Parameters

Status code: **200**

Table 4-37 Response body parameters

Parameter	Type	Description
execute_uuid	String	Execution UUID
gmt_created	Long	Execution creation time
gmt_finished	Long	Execution completion time
execute_costs	Long	Execution duration in seconds.
creator	String	Creator.
status	String	Execution status. The value can be: ● READY ● PROCESSING ● ERROR ● PAUSED ● CANCELED ● FINISHED ● ROLLBACKED
properties	JobScriptOrderInfoProperty object	Attributes: script ID, script name, script execution parameters, execution user, timeout interval, success rate threshold, and index of the current execution batch

Table 4-38 JobScriptOrderInfoProp

Parameter	Type	Description
script_uuid	String	Script UUID.
script_name	Long	Script name.
script_version_uuid	Long	Script version UUID.
script_version_name	String	Script version name.
current_execute_batch_index	Integer	Index of the current execution batch.
execute_param	ScriptExecuteParam object	Script execution parameters, execution user, timeout interval, and success rate threshold

Table 4-39 ScriptExecuteParam

Parameter	Type	Description
resourceful	Boolean	Whether resources are limited. The value true indicates that resources are not limited, and the value false indicates that resources are limited.
timeout	Integer	Timeout interval, in seconds. The value range is to be determined. The value is greater than 5 and less than 1800. Minimum value: 5 Maximum value: 1800
success_rate	Double	Success rate. The value can contain one decimal place. Minimum value: 1 Maximum value: 100
execute_user	String	User who executes the script. The script must be executed by user root . Minimum length: 1 character Maximum length: 32 characters
script_params	Array of ScriptExecuteInputParam objects	Script input parameter list

Table 4-40 ScriptExecuteInputParam

Parameter	Type	Description
param_name	String	Name of a script input parameter. The parameter name must be unique in the same script. Minimum length: 1 character Maximum length: 64 characters
param_value	String	Value of the script input parameter. Minimum length: 0 character Maximum length: 1,024 characters The value can be: • ^((?!\.2 • })[a-zA-Z0-9_-\./\.\x20\?:" • =+@\[\{\}\])*\$
param_order	Integer	Parameter sequence. The value starts from 1 and must be consecutive. Minimum value: 1 Maximum value: 20

Request Example

None

Response Example

Status code: **200**

Basic Execution Information

```
{
  "data": {
    "execute_uuid": "SCT2023102211473xxxxxxxxxx",
    "gmt_created": 1697946452186,
    "gmt_finished": 1697946763469,
    "execute_costs": 311282,
    "creator": "xxxxxxxxxxxcontainer1",
    "status": "CANCELED",
    "properties": {
      "script_uuid": "SC2023101717xxxxxxxxxxxx",
      "script_name": "xjptxxxxxxx",
      "current_execute_batch_index": 1,
      "execute_param": {
        "resourceful": true,
        "timeout": 300,
        "execute_user": "root",
        "success_rate": 100,
        "script_params": [ ]
      },
      "script_source": "CUSTOM_SCRIPT"
    }
  }
}
```

Status Code

Status Code	Description
200	Basic execution information

4.3.2 Displaying the Batch List

Function

This API is used to query the batch index and label.

URI

GET /v1/job/script/orders/{execute_uuid}/batches

Table 4-41 URI parameters

Parameter	Mandatory	Type	Description
execute_uuid	Yes	String	Execution ID of a script service ticket, which is obtained from the response bodies of executeJobScript and ListJobScriptOrders. Minimum length: 1 character Maximum length: 26 characters

Request Parameters

None

Response Parameters

Status code: 200

Table 4-42 Response body parameters

Parameter	Type	Description
[Array]	Array of JobScriptBatchListModel objects	Batch list

Table 4-43 JobScriptBatchListModel

Parameter	Type	Description
batch_index	Integer	Batch index, starting from 1.
total_instances	Integer	Number of instance nodes in a batch
rotation_strategy	String	Suspension and resumption policy The value can be: • CONTINUE • PAUSE
properties	String	Batch label:

Request Example

None

Response Example

None

Status Code

Status Code	Description
200	Batch list

4.3.3 Displaying Instance Status Statistics

Function

This API is used to query instance status statistics.

URI

GET /v1/job/script/orders/{execute_uuid}/statistics

Table 4-44 URI parameters

Parameter	Mandatory	Type	Description
execute_uuid	Yes	String	ID of a script service ticket to be executed. The value can be obtained from the response bodies of executeJobScript and ListJobScriptOrders . Minimum length: 1 character Maximum length: 26 characters

Request Parameters

None

Response Parameters

Status code: **200**

Table 4-45 Response body parameters

Parameter	Type	Description
total_instance	Integer	Total instances.
execute_statistics	Array of ExectuionStatistic objects	Each state has a count, which records the total number of instances in this state and the batch list containing the state.

Table 4-46 ExectuionStatistic

Parameter	Type	Description
instance_statuses	String	Execution instance status
instance_count	Integer	Number of instances executed in this state
batch_indexes	Array of integers	Batch index list in this state

Request Example

None

Response Example

Status code: **200**

```
{
  "data": {
    "total_instance": 1,
    "execute_statistics": [ {
      "instance_status": "READY",
      "instance_count": 0,
      "batch_indexes": [ ]
    }, {
      "instance_status": "PROCESSING",
      "instance_count": 0,
      "batch_indexes": [ ]
    }, {
      "instance_status": "ABNORMAL",
      "instance_count": 0,
      "batch_indexes": [ ]
    }, {
      "instance_status": "CANCELED",
      "instance_count": 1,
      "batch_indexes": [ 1 ]
    }, {
      "instance_status": "FINISHED",
      "instance_count": 0,
      "batch_indexes": [ ]
    }
  ]
}
```

Status Code

Status Code	Description
200	Instance state statistics

4.3.4 Displaying Batch Details

Function

This API is used to query batch details, which is used to obtain the instance list in a batch by page. Filter criteria: pagination parameters.

URI

GET /v1/job/script/orders/{execute_uuid}/batches/{batch_index}

Table 4-47 URI parameters

Parameter	Mandatory	Type	Description
batch_index	Yes	Integer	Batch index. Minimum value: 1 Maximum value: 20

Parameter	Mandatory	Type	Description
execute_uuid	Yes	String	Execution ID of a script service ticket, which is obtained from the response bodies of executeJobScript and ListJobScriptOrders. Minimum length: 1 character Maximum length: 26 characters

Table 4-48 Query parameters

Parameter	Mandatory	Type	Description
status	No	String	Instance execution status. The options are as follows: READY : to be executed; PROCESSING : being executed; ABNORMAL : abnormal; CANCELED : canceled; FINISHED : successful. The value can be: • READY • PROCESSING • ABNORMAL • CANCELED • FINISHED
limit	Yes	Integer	Pagination parameter: maximum number of records returned on each page. Minimum value: 1 Maximum value: 50
marker	Yes	Long	Pagination parameter: ID of the last record on the previous page. Minimum value: 0 Maximum value: 2147483647

Request Parameters

None

Response Parameters

Status code: **200**

Table 4-49 Response body parameters

Parameter	Type	Description
batch_index	Integer	Batch index, starting from 1 .
total_instances	Integer	Number of instances executed in a batch
execute_instances	Array of ExectionInstanceModel objects	Execution instance list, pagination

Table 4-50 ExectionInstanceModel

Parameter	Type	Description
id	Long	Primary key ID
target_instance	ResourceInstance object	New instance
gmt_created	Long	Creation time.
gmt_finished	Long	Completion time
execute_costs	Long	Timeout interval, in seconds.
status	String	Instance execution status The value can be: • READY • PROCESSING • ABNORMAL • CANCELED • FINISHED • ROLLBACKED
message	String	Instance execution logs

Table 4-51 ResourceInstance

Parameter	Type	Description
resource_id	String	Host ID of an ECS

Parameter	Type	Description
agent_sn	String	Agent management ID.
agent_status	String	Agent management status
properties	ResourceInstanceProp object	Additional attributes of the host

Table 4-52 ResourceInstanceProp

Parameter	Type	Description
host_name	String	Host name
fixed_ip	String	IP address of the internal network
floating_ip	String	Elastic IP Address (EIP)
region_id	String	Region ID
zone_id	String	AZ
application	String	CloudCmdb application. This parameter has a value only in the CloudCmdb application view, which is similar to the cloud services on the management plane.
group	String	CloudCmdb group. This parameter has a value only in the CloudCmdb application view, which is similar to the schema of the management plane.
project_id	String	Project ID of an instance. Consumption is required. This parameter is mandatory.

Request Example

None

Response Example

Status code: **200**

Response

```
{
  "data": {
    "batch_index": 1,
    "total_instances": 1,
    "execute_instances": [ {
      "id": 1588,
```

```
"target_instance" : {  
  "resource_id" : "resource_id",  
  "agent_sn" : "agent_sn",  
  "agent_status" : null,  
  "region_id" : null,  
  "project_id" : null,  
  "properties" : {  
    "host_name" : "host_name",  
    "fixed_ip" : "x.x.x.x",  
    "floating_ip" : null,  
    "region_id" : "cn-north-7",  
    "zone_id" : "cn-north-7c",  
    "application" : null,  
    "group" : null,  
    "project_id" : null  
  }  
},  
"gmt_created" : 1697946452436,  
"gmt_finished" : 1697946763467,  
"execute_costs" : 311031,  
"status" : "CANCELED",  
"message" : "Script execution result"  
}]  
}  
}
```

Status Code

Status Code	Description
200	Response

4.3.5 Displaying the Service Ticket List

Function

This API is used to query the job service tickets from the ticket list by page. The filter criteria include the creation start time, creation end time, and the creator. The returned information includes the ID, script name, region, creator, creation time, end time, total duration, and status.

URI

GET /v1/job/script/orders

Table 4-53 Query parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Pagination parameters. Minimum value: 1 Maximum value: 100

Parameter	Mandatory	Type	Description
marker	No	Long	Pagination parameters. Minimum value: 1 Maximum value: 2147483647
start_time	No	Long	Start time Minimum value: 1 Maximum value: 2147483647
end_time	No	Long	End time Minimum value: 1 Maximum value: 2147483647
creator	No	String	Creator. Minimum length: 1 character Maximum length: 64 characters
status	No	String	Service ticket status. The options are as follows: READY : to be executed; PROCESSING : being executed; ABNORMAL : abnormal; PAUSED : suspended; CANCELED : canceled; FINISHED : successful The value can be: • READY • PROCESSING • ABNORMAL • PAUSED • CANCELED • FINISHED

Request Parameters

None

Response Parameters

Status code: **200**

Table 4-54 Response body parameters

Parameter	Type	Description
total	Long	Total number of records
data	JobScriptOrderListModel object	Data listed on a single page.

Table 4-55 JobScriptOrderListModel

Parameter	Type	Description
order_id	Long	Primary key ID, corresponding to the primary key of job_order_do . Minimum value: 1 Maximum value: 9223372036854775807
order_name	String	Service ticket name Minimum length: 1 character Maximum length: 64 characters
execute_uuid	String	This UUID is used when the list is redirected to the details page, which corresponds to execute_uuid of execute_data_do .
gmt_created	Long	Creation time.
gmt_finished	Long	Completion time
execute_costs	Long	Execution duration in seconds.
creator	String	Creator.
status	String	Ticket status. The value can be: • READY • PROCESSING • ABNORMAL • PAUSED • CANCELED • FINISHED
properties	JobScriptOrderListProp object	Label: region and other information

Table 4-56 JobScriptOrderListProp

Parameter	Type	Description
region_ids	String	Region ID of the CloudCmdb service instance. There may be multiple region IDs.

Request Example

None

Response Example

Status code: **200**

Execute pagination data

```
{
  "data": {
    "total": 222,
    "data": [
      {
        "order_id": 74,
        "order_name": "071201",
        "execute_uuid": "SCT20230724201xxxxxxxxxxxx",
        "gmt_created": 1690200829451,
        "gmt_finished": 1690200850293,
        "execute_costs": 20842,
        "creator": "xxxxxxxxxxcontainer1",
        "status": "CANCELED",
        "properties": {
          "region_ids": "cn-north-7"
        }
      },
      {
        "order_id": 73,
        "order_name": "071201",
        "execute_uuid": "SCT2023072411xxxxxxxxxxxx",
        "gmt_created": 1690168434460,
        "gmt_finished": 1690168443277,
        "execute_costs": 8817,
        "creator": "xxxxxxxxxxcontainer1",
        "status": "FINISHED",
        "properties": {
          "region_ids": "cn-north-7"
        }
      },
      {
        "order_id": xx,
        "order_name": "xxx",
        "execute_uuid": "SCT2023072217181xxxxxxxxxx",
        "gmt_created": 1690017490247,
        "gmt_finished": null,
        "execute_costs": null,
        "creator": "xxxxxxxxxxcontainer1",
        "status": "ABNORMAL",
        "properties": {
          "region_ids": "cn-north-7"
        }
      },
      {
        "order_id": 71,
        "order_name": "patch_730",
        "execute_uuid": "SCT2023071915xxxxxxxxxxxx",

```

```
{
  "gmt_created": 168975353241,
  "gmt_finished": 1689753579363,
  "execute_costs": 26122,
  "creator": "xxxxxxxxxxcontainer1",
  "status": "FINISHED",
  "properties": {
    "region_ids": "cn-north-7"
  }
},
{
  "order_id": 70,
  "order_name": "111",
  "execute_uuid": "SCT2023071915xxxxxxxxxxxxxx",
  "gmt_created": 1689751168547,
  "gmt_finished": null,
  "execute_costs": null,
  "creator": "xxxxxxxxxxcontainer1",
  "status": "ABNORMAL",
  "properties": {
    "region_ids": "cn-north-7"
  }
}
]
```

Status Code

Status Code	Description
200	Execute pagination data

4.3.6 Performing Operations on a Script Service Ticket

Function

This API is used to perform operations on a script ticket.

The operation types include cancelling instances, skipping a batch, cancelling an entire service ticket, suspending an entire service ticket, and continuing a service ticket.

URI

PUT /v1/job/script/orders/{execute_uuid}/operation

Table 4-57 URI parameters

Parameter	Mandatory	Type	Description
execute_uuid	Yes	String	Execution ID of a script service ticket, which is obtained from the response bodies of executeJobScript and ListJobScriptOrders. Minimum length: 1 character Maximum length: 26 characters

Request Parameters

Table 4-58 Request body parameters

Parameter	Mandatory	Type	Description
batch_index	No	Integer	Applicable to batch operations Minimum value: 1 Maximum value: 20
instance_id	No	Long	Applicable to instance operations. Minimum value: 1 Maximum value: 9223372036854775807
operation_type	Yes	String	Operation type. The options are as follows: CANCEL_INSTANCE : canceling an instance; SKIP_BATCH : skipping a batch; CANCEL_ORDER : canceling an entire service ticket; PAUSE_ORDER : suspending an entire service ticket; CONTINUE_ORDER : continuing an entire service ticket. The value can be: • CANCEL_INSTANCE • SKIP_BATCH • CANCEL_ORDER • PAUSE_ORDER • CONTINUE_ORDER

Response Parameters

None

Request Example

```
{
  "batch_index" : "1",
  "instance_id" : 383,
  "operation_type" : "RETRY_INSTANCE"
}
```

Response Example

None

Status Code

Status Code	Description
200	execution_uuid

4.4 Fault Management

4.4.1 Incident Management

4.4.1.1 Creating an Incident Ticket

Function

This API is used to create an incident ticket.

URI

POST /v1/external/incident/create

Request Parameters

Table 4-59 Request body parameters

Parameter	Mandatory	Type	Description
region	No	Array of strings	Region code. This parameter is mandatory if a war room is automatically started. Currently, only one region code is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 character
enterprise_project	No	Array of strings	Enterprise project ID. Currently, only one enterprise project ID is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 character
current_cloud_service	Yes	Array of strings	ID of the Application to which this ticket belongs. Currently, only one application ID is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 character
incident_level	Yes	String	Incident level. For details about the incident level, see Incident Level . Minimum length: 0 character Maximum length: 255 characters
is_service_interrupt	Yes	Boolean	Whether the service is interrupted. The value can be true or false . The value can be: • true • false

Parameter	Mandatory	Type	Description
incident_type	Yes	String	Incident type. For details about the event type, see Incident Type . Minimum length: 0 character Maximum length: 255 characters
incident_title	Yes	String	Incident title. The value contains a maximum of 200 characters. Minimum length: 0 character Maximum length: 200 characters
incident_description	Yes	String	Incident description. The value can contain a maximum of 600 characters. Minimum length: 0 character Maximum length: 600 characters
incident_source	Yes	String	Incident source. For details about the incident source, see Incident Source . Minimum length: 0 character Maximum length: 255 characters
incident_assignee	No	Array of strings	The owner. Either of the scheduling scenario or scheduling role must be set (scheduling scenario and scheduling role are combined fields). Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 character
assignee_scenario	No	String	The scheduling scenario. Either of the scheduling scenario or scheduling role must be set (scheduling scenario and scheduling role are combined fields). Minimum length: 0 characters Maximum length: 255 characters

Parameter	Mandatory	Type	Description
assignee_role	No	String	Scheduling role, whose value varies according to that of the scheduling scenario. Minimum length: 0 character Maximum length: 255 characters
creator	Yes	String	Ticket creator Minimum length: 0 character Maximum length: 255 characters

 CAUTION

One of **incident_assignee** (owner), **assignee_scene** (scheduling scenario), **assignee_role** (shift role) must be set. If **incident_assignee** is set, **assignee_scene** and **assignee_role** can be left empty. The **assignee_scene** and **assignee_role** are bound together.

If no personnel are added to **assignee_role**, the large tenant is added to **incident_assignee** as the incident owner by default.

Response Parameters

Status code: **200**

Table 4-60 Response body parameters

Parameter	Type	Description
provider_code	String	Service ID. Default value: 049 Minimum length: 3 characters Maximum length: 100,000,000 characters
error_code	String	Request response code. The value ranges from 0000 to 9999 . The value is 0 in normal cases. Default value: GOM.00000000 Minimum length: 1 character Maximum length: 100,000,000 characters
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 100,000,000 characters

Parameter	Type	Description
data	CreateExternalIncidentResponseData object	data

Table 4-61 CreateExternalIncidentResponseData

Parameter	Type	Description
incident_num	String	Incident ticket ID Minimum length: 0 character Maximum length: 255 characters

Status code: 400**Table 4-62** Response body parameters

Parameter	Type	Description
provider_code	String	Service ID. Default value: 049 Minimum length: 3 characters Maximum length: 100,000,000 characters
error_code	String	Request response code. The value ranges from 0000 to 9999 . The value is 0 in normal cases. Default value: GOM.00000000 Minimum length: 1 character Maximum length: 100,000,000 characters
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 100,000,000 characters

Request Example

```
GET https://IP:PORT/v1/external/incident/create
Request Headers:
Content-Type: application/json
X-Auth-Token: MI*****ghkgB
Request Body:
{
  "region": [
    "cn-southwest-252"
  ],
  "enterprise_project": [
```



```
"ab080d9f-6b97-4e73-8679-b6d76057f274"
],
"current_cloud_service": [
  "65659ae2f42bf80e5f3f0635"
],
"incident_level": "level_50",
"is_service_interrupt": "true",
"incident_type": "inc_type_p_security_issues",
"incident_title": "Test Time Ticket No. 10001",
"incident_description": "Test time Ticket No. 10001",
"incident_source": "incident_source_manual",
"incident_assignee": ["7da46971b7e24eed90cf777cc2ff8b91"],
"creator": "7da46971b7e24eed90cf777cc2ff8b91",
"assignee_scene": "",
"assignee_role": ""
}
```

Response Example

```
{
  "provider_code": "049",
  "error_code": "GOM.00000000",
  "error_msg": null,
  "data": {
    "incident_num": "IM202403221515060171753781"
  }
}
```

4.4.1.2 Processing an Incident Ticket

Function

This API is used to execute the event ticket process. Currently, only the following functions are supported: accepting an event ticket, submitting an event ticket solution, and verifying the event handling result.

URI

POST /v1/external/incident/handle

Request Parameters

Table 4-63 Request body parameters

Parameter	Mandatory	Type	Description
incident_num	Yes	String	Event ticket number.
operator	Yes	String	Operator ID.
operate_key	Yes	String	Operation type

Parameter	Mandatory	Type	Description
parameter	No	Map<String,Object>	Input parameter. The input parameter verification varies depending on the scenario, and the required parameter keys are different. • Handling, optional, not transferred or null • Submit the incident ticket solution, which is mandatory. The following fields are added: • mtm_type: event type, which is an enumerated value and is mandatory. • is_service_interrupt: indicates whether the service is interrupted. This parameter is mandatory. The value is Boolean. The options are true and false. • cause: mandatory. The value is a character string containing a maximum of 10,000 characters. • Solution: mandatory. The value is a string of a maximum of 10,000 characters. • Verification event handling result, which is mandatory. The following fields are added: • virtual_confirm_result: (mandatory) verification result. The value is of the Boolean type. The options are true (default) and false. • virtual_confirm_comment: verification description, which is mandatory. The value is a character string containing a maximum of 300 characters.

Response Parameters

Status code: 200

Table 4-64 Response body parameters

Parameter	Type	Description
provider_code	String	Definition: Service ID. Value range: N/A Default value: 049
error_code	String	Definition: Request response code. Value range: GOM.00000000~GOM.00009999999 Default value: GOM.00000000
error_msg	String	Definition: Response description for a request. Value range: N/A
data	Object	Information returned after different actions are performed. Currently, the value is fixed to null.

Status code: 400**Table 4-65** Response body parameters

Parameter	Type	Description
provider_code	String	Definition: Service ID. Value range: N/A Default value: 049

Parameter	Type	Description
error_code	String	Definition: Request response code. Value range: GOM.00000000~GOM.00009999999 Default value: GOM.00000000
error_msg	String	Definition: Response description for a request. Value range: N/A

Example Requests

- Accept the incident ticket.

```
https://{Endpoint}/v1/external/incident/handle
```

```
{
  "incident_num" : "IM202403221515060171753781",
  "operator" : "7da46971b7e24eed90cf777cc2ff8b91",
  "operate_key" : "acceptedIncident1",
  "parameter" : { }
}
```

- Submit a solution to the incident ticket.

```
https://{Endpoint}/v1/external/incident/handle
```

```
{
  "incident_num" : "IM202403221515060171753781",
  "operator" : "7da46971b7e24eed90cf777cc2ff8b91",
  "operate_key" : "commitSolution1",
  "parameter" : {
    "mtm_type" : "inc_type_p_config_issues",
    "is_service_interrupt" : true,
    "cause" : "100001",
    "solution" : "20001"
  }
}
```

- Verify the event handling result.

```
https://{Endpoint}/v1/external/incident/handle
```

```
{
  "incident_num" : "IM202403221515060171753781",
  "operator" : "7da46971b7e24eed90cf777cc2ff8b91",
  "operate_key" : "confirm",
  "parameter" : {
    "virtual_confirm_result" : false,
    "virtual_confirm_comment" : "13"
  }
}
```

Example Responses

Status code: 200

Request succeeded.

For more status codes, see [Status Codes](#).

```
{
  "error_code" : "GOM.00000000",
  "error_msg" : null,
  "provider_code" : 4,
  "data" : null
}
```

Status code: 400

The request failed to be processed due to bad syntax.

For more status codes, see [Status Codes](#).

```
{
  "error_code" : "GOM.00007256",
  "error_msg" : "Invalid parameters",
  "provider_code" : 4,
  "data" : null
}
```

Status Codes

Status Code	Description
200	Request succeeded. For more status codes, see Status Codes .
400	The request failed to be processed due to bad syntax. For more status codes, see Status Codes .

Error Codes

See [Error Codes](#).

4.4.1.3 Querying Incident Ticket Details

Function

This API is used to obtain details about an incident ticket.

URI

GET /v1/external/incident/{incident_num}

Table 4-66 URI parameters

Parameter	Mandatory	Type	Description
incident_num	Yes	String	Incident ticket ID Minimum length: 0 character Maximum length: 255 characters

Request Parameters

None

Response Parameters

Status code: **200****Table 4-67** Response body parameters

Parameter	Type	Description
provider_code	String	Service ID. Default value: 049 Minimum length: 3 characters Maximum length: 100,000,000 characters
error_code	String	Request response code. The value ranges from 0000 to 9999 . The value is 0 in normal cases. Default value: GOM.00000000 Minimum length: 1 character Maximum length: 100,000,000 characters
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 100,000,000 characters
data	IncidentTicketInfoResponseData object	data

Table 4-68 IncidentTicketInfoResponseData

Parameter	Type	Description
incident_num	String	Incident ticket ID Minimum length: 0 character Maximum length: 255 characters

Parameter	Type	Description
region	Array of strings	Region code. This parameter is mandatory if a war room is automatically started. Currently, only one region code is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 character
enterprise_project	Array of strings	Enterprise project ID. Currently, only one enterprise project ID is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 character
current_cloud_service	Array of strings	ID of the Application to which this ticket belongs. Currently, only one application ID is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 character
incident_level	String	Incident level. For details about the incident level, see Incident Level . Minimum length: 0 character Maximum length: 255 characters
is_service_interrupt	Boolean	Whether the service is interrupted. The value can be true or false . The value can be: • true • false
incident_type	String	Incident type. For details about the event type, see Incident Type . Minimum length: 0 character Maximum length: 255 characters
incident_title	String	Incident title. The value contains a maximum of 200 characters. Minimum length: 0 character Maximum length: 200 characters
incident_description	String	Incident description. The value can contain a maximum of 600 characters. Minimum length: 0 character Maximum length: 600 characters

Parameter	Type	Description
incident_source	String	Incident source. For details about the incident source, see Incident Source . Minimum length: 0 character Maximum length: 255 characters
incident_assignee	Array of strings	Owner Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 character
assignee_scenario	String	Schedule scenario Minimum length: 0 character Maximum length: 255 characters
assignee_role	String	Schedule role Minimum length: 0 character Maximum length: 255 characters
warroom_id	String	warroom_id Minimum length: 0 character Maximum length: 255 characters
handle_time	Long	Timestamp of the latest solution submission. Minimum value: 1 Maximum value: 9999999999
status	String	Status key. For details, see 4.4.1.4.4 Incident Status . Minimum length: 0 character Maximum length: 255 characters
create_time	Long	Timestamp for ticket creation Minimum value: 0 Maximum value: 9999999999
creator	String	Ticket creator Minimum length: 0 character Maximum length: 255 characters
enum_data_list	Array of TicketInfoEnumData objects	Enumerated values Array length: 0 to 100,000,000 characters

Table 4-69 TicketInfoEnumData

Parameter	Type	Description
filed_key	String	Field Key. Minimum length: 0 character Maximum length: 255 characters
enum_key	String	Enumeration Key Minimum length: 0 character Maximum length: 255 characters
name_zh	String	Chinese name Minimum length: 0 character Maximum length: 255 characters
name_en	String	English name Minimum length: 0 character Maximum length: 255 characters

Status code: 400**Table 4-70** Response body parameters

Parameter	Type	Description
provider_code	String	Service ID. Default value: 049 Minimum length: 3 characters Maximum length: 100,000,000 characters
error_code	String	Request response code. The value ranges from 0000 to 9999 . The value is 0 in normal cases. Default value: GOM.00000000 Minimum length: 1 character Maximum length: 100,000,000 characters
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 100,000,000 characters

Status code: 200

Table 4-71 Response body parameters

Parameter	Type	Description
provider_code	String	Service ID. Default value: 049 Minimum length: 3 characters Maximum length: 100,000,000 characters
error_code	String	Request response code. The value ranges from 0000 to 9999 . The value is 0 in normal cases. Default value: GOM.00000000 Minimum length: 1 character Maximum length: 100,000,000 characters
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 100,000,000 characters
data	CreateExternalIncidentResponseData object	data

Table 4-72 CreateExternalIncidentResponseData

Parameter	Type	Description
incident_num	String	Incident ticket ID Minimum length: 0 character Maximum length: 255 characters

Status code: 400**Table 4-73** Response body parameters

Parameter	Type	Description
provider_code	String	Service ID. Default value: 049 Minimum length: 3 characters Maximum length: 100,000,000 characters

Parameter	Type	Description
error_code	String	Request response code. The value ranges from 0000 to 9999 . The value is 0 in normal cases. Default value: GOM.00000000 Minimum length: 1 character Maximum length: 100,000,000 characters
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 100,000,000 characters

Request Example

```
GET https://IP:PORT/v1/external/incident/IM2024*****08
Request Headers:
Content-Type: application/json
X-Auth-Token: MJ*****ghkgB
```

Response Example

```
{
  "provider_code": "049",
  "error_code": "GOM.00000000",
  "error_msg": null,
  "data": {
    "incident_num": "IM202403181322030178042608",
    "region": [
      ""
    ],
    "enterprise_project": [
      "0"
    ],
    "current_cloud_service": [
      "6470681a31da2a47ed50a919"
    ],
    "incident_level": "level_50",
    "is_service_interrupt": true,
    "incident_type": "inc_type_p_function_issues",
    "incident_title": "tet",
    "incident_description": "25819b46251b46218bf6ad238ddd860c",
    "incident_source": "incident_source_manual",
    "incident_assignee": [
      "25819b46251b46218bf6ad238ddd860c"
    ],
    "assignee_scene": "",
    "assignee_role": "",
    "warroom_id": "WR202403181334366050100030",
    "handle_time": null,
    "status": "INCIDENT_STATUS_ACKNOWLEDGED",
    "create_time": 1710739323172,
    "creator": "1",
    "enum_data_list": [
      {
        "filed_key": "current_cloud_service_id",
        "enum_key": "6470681a31da2a47ed50a919",
        "name_zh": "COC",
        "name_en": "COC"
      },
      {
        "filed_key": "creator",
```

```
      "enum_key": "25819b46251b46218bf6ad238ddd860c",
      "name_zh": "coc-cim-user",
      "name_en": "coc-cim-user"
    },
    {
      "filed_key": "level_id",
      "enum_key": "level_50",
      "name_zh": "P5",
      "name_en": "P5"
    },
    {
      "filed_key": "work_flow_status",
      "enum_key": "INCIDENT_STATUS_ACKNOWLEDGED",
      "name_zh": "xxx",
      "name_en": "ACKNOWLEDGED"
    },
    {
      "filed_key": "mtm_type",
      "enum_key": "inc_type_p_function_issues",
      "name_zh": "xxx",
      "name_en": "function issues"
    },
    {
      "filed_key": "source_id",
      "enum_key": "incident_source_manual",
      "name_zh": "xxx",
      "name_en": "Manual Creation"
    },
    {
      "filed_key": "assignee",
      "enum_key": "25819b46251b46218bf6ad238ddd860c",
      "name_zh": "coc-cim-user",
      "name_en": "coc-cim-user"
    }
  ]
}
```

Status Code

Status Code	Description
200	response
400	Error response

Error Codes

None

4.4.1.4 Incident-related Enumeration Information

4.4.1.4.1 Incident Level

KEY	Chinese Name	English Name
level_10	P1	P1

level_20	P2	P2
level_30	P3	P3
level_40	P4	P4
level_50	P5	P5

4.4.1.4.2 Incident Type

KEY	Chinese Name	English Name
inc_type_p_security_issues	Security Issues	Security issues
inc_type_p_function_issues	Function issues	function issues
inc_type_p_reliability_issues	Performance/ reliability Issues	reliability issues
inc_type_p_config_issues	Configuration issues	config issues
inc_type_pmiddleware_issues	Middleware issues	middleware issues
inc_type_p_hardware_issues	Hardware issues	hardware issues
inc_type_p_networking_issues	Network issues	networking issues
inc_type_p_shelter_issues	Equipment room issues	shelter issues
inc_type_p_monitoring_issues	Monitoring issues	monitoring issues
inc_type_p_consulting_issues	Consultation issues	consulting issues
inc_type_p_suppliers_issues	Supplier issues	suppliers issues
inc_type_p_ohter_issues	Other	Other issues
inc_type_p_change_issues	Change operation issues	Change operation problem

4.4.1.4.3 Incident Source

KEY	Chinese Name	English Name
incident_source_manual	Manual creation	Manual Creation
incident_source_forwarding	Transfer creation	Transfer creation

incident_source_alarm	Alarm	alarm
------------------------------	-------	-------

4.4.1.4.4 Incident Status

status KEY	Chinese Name	English Name
incident_draft	Draft	DRAFT
INCIDENT_STATUS_TRIGGERED	Unaccepted	TRIGGERED
INCIDENT_STATUS_ACKNOWLEDGED	Accepted	ACKNOWLEDGED
INCIDENT_STATUS_REJECTED	Rejected	REJECTED
INCIDENT_STATUS_RESOLVED	To-be-verified	RESOLVED
INCIDENT_STATUS_COMPLETED	Completed	COMPLETED

4.4.2 Integration Management

This API is used by users to access the alarm data.

Function

This API is used for tenants to integrate their own monitoring systems into COC based on certain standards. After the integration, alarms are reported to the COC alarm center in the standard format.

URI

POST /v1/event/huawei/custom/{integration_key}

Table 4-74 URI parameters

Parameter	Mandatory	Type	Description
integration_key	Yes	String	Integration ID. Minimum length: 1 character Maximum length: 255 characters

Request Parameters

Table 4-75 Request body parameters

Parameter	Mandatory	Type	Description
alarmId	Yes	String	Alarm id Minimum length: 1 character Maximum length: 255 characters
alarmName	Yes	String	Alarm name Minimum length: 1 character Maximum length: 255 characters
alarmLevel	Yes	String	Alarm severity. The value can be Critical , Major , Minor , or Info . Minimum length: 1 character Maximum length: 255 characters The value can be: • Critical • Major • Minor • Info
time	Yes	Long	Time when an alarm is generated
nameSpace	Yes	String	Namespace of a service Minimum length: 1 character Maximum length: 255 characters
regionId	No	String	ID of the region where the alarm is generated Minimum length: 0 character Maximum length: 255 characters
applicationId	Yes	String	Application ID Minimum length: 1 character Maximum length: 255 characters

Parameter	Mandatory	Type	Description
resourceName	No	String	Resource name Minimum length: 0 character Maximum length: 255 characters
resourceId	No	String	Resource ID Minimum length: 0 character Maximum length: 255 characters
alarmDesc	Yes	String	Alarm description Minimum length: 1 character Maximum length: 255 characters
URL	No	String	Original alarm URL Minimum length: 0 character Maximum length: 255 characters
alarmStatus	No	String	Alarm status. The value can be alarm (in alarm) or ok (alarm restored). Minimum length: 0 character Maximum length: 255 characters The value can be: • alarm • ok
alarmSource	Yes	String	Alarm Sources Minimum length: 1 character Maximum length: 255 characters
additional	No	Object	Supplementary information about the alarm

Response Parameters

Status code: **200**

Table 4-76 Response body parameters

Parameter	Type	Description
provider_code	String	Service ID. Default value: 049 Minimum length: 0 character Maximum length: 256 characters
error_code	String	Request response code. The value ranges from 0000 to 9999 . The value is 0 in normal cases. Default: 0 Minimum length: 0 character Maximum length: 256 characters
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 256 characters

Request Example

```
https://{Endpoint}/v1/event/huawei/custom/{integration_key}

{
  "alarmId" : "18cfxxxxxxxx0f8",
  "alarmName": "CPU Usage Exceeding Threshold",
  "alarmLevel" : "Critical",
  "time" : 1709118444540,
  "nameSpace" : "shanghai",
  "regionId" : "eu-west-0",
  "applicationId" : "18cfa0a5ef8d",
  "resourceName" : "machine-1",
  "resourceId" : "18cxxxxxxxxff68625",
  "alarmDesc" : "string",
  "URL" : "https://example.com",
  "alarmStatus" : "alarm",
  "alarmSource" : "coc",
  "additional" : { }
}
```

Response Example

Status code: **200**

The request is successful.

```
{
  "error_code" : "COC.00000000",
  "error_msg" : "success",
  "data" : null,
  "provider_code" : "049"
}
```

Status code: **400**

Incorrect request body.

```
{
  "error_code" : "COC.00000001",
```

```
{
  "error_msg" : "alarmName must not be null | alarmId must not be null",
  "data" : null,
  "provider_code" : "049"
}
```

Status code: 401

Authentication error.

```
{
  "error_code" : "common.01010001",
  "error_msg" : "Token missing or invalid.",
  "data" : null,
  "provider_code" : "049"
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Incorrect request body.
401	Authentication error.

4.5 Patch management

4.5.1 Querying Patch Compliance Reports

Function

This API is used to obtain node compliance reports by page.

URI

GET /v1/patch/instance/compliant

Table 4-77 Query parameters

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Enterprise project ID
name	No	String	Name
instance_id	No	String	ECS instance ID
ip	No	String	Internal network IP address
eip	No	String	Elastic IP address

Parameter	Mandatory	Type	Description
operating_system	No	String	OS • HuaweiCloudEulerOS • CentOS • EulerOS
region	No	String	Region
group	No	String	Group
compliant_status	No	String	Compliance status • non_compliant: not compliant • compliant: compliant
order_id	No	String	Service ticket ID
offset	No	Integer	Offset Minimum value: 1 Maximum value: 1000000 Default value: 1
limit	No	Integer	Number of records on each page Minimum value: 1 Maximum value: 100 Default value: 10
sort_dir	No	String	Sorting order • asc: The query results are displayed in the ascending order. • desc: The query results are displayed in the descending order.
sort_key	No	String	Sorting field • report_time: report time
report_scene	No	String	Report scenario. The options are listed as follows: • CCE • ECS
cce_info_id	No	String	CCE cluster information ID

Request Parameters

None

Response Parameters

Status code: **200**

Table 4-78 Response body parameters

Parameter	Type	Description
count	Long	Total number of records
instance_compliant	Array of InstanceCompliant objects	Node compliance report Array length: 0 to 1,000 elements

Table 4-79 InstanceCompliant

Parameter	Type	Description
compliant_summary	CompliantSummary object	Compliance patch information
non_compliant_summary	NonCompliantSummary object	Non-compliant patch information
execution_summary	ExecutionSummary object	Execution information
id	String	id
enterprise_project_id	String	Enterprise project ID
name	String	Node name
instance_id	String	Node ID
node_id	String	CCE cluster node ID
ip	String	Node IP address
eip	String	Elastic IP address
region	String	Region
group	String	Group
report_scene	String	Reporting scenario (CCE and ECS)
cce_info_id	String	CCE cluster information ID
status	String	Compliance status
baseline_id	String	Baseline ID
baseline_name	String	Baseline name

Parameter	Type	Description
rule_type	String	Baseline rule type
operating_system	String	OS

Table 4-80 CompliantSummary

Parameter	Type	Description
compliant_count	Integer	Number of compliant patches
severity_summary	SeveritySummary object	Compliance summary

Table 4-81 NonCompliantSummary

Parameter	Type	Description
non_compliant_count	Integer	Number of non-compliant patches
severity_summary	SeveritySummary object	Compliance summary

Table 4-82 SeveritySummary

Parameter	Type	Description
critical_count	Integer	Number of major compliance reports
high_count	Integer	Number of high compliance reports
informational_count	Integer	Number of informational compliance reports
low_count	Integer	Number of low compliance reports
medium_count	Integer	Number of medium compliance reports
unspecified_count	Integer	Number of unspecified compliance reports

Table 4-83 ExecutionSummary

Parameter	Type	Description
order_id	String	Service ticket ID
job_id	String	Script execution ID
report_time	Long	Reporting time

Status code: 500

Table 4-84 Response body parameters

Parameter	Type	Description
error_code	String	Error code Minimum length: 8 characters Maximum length: 64 characters
error_msg	String	Error description Minimum length: 2 characters Maximum length: 512 characters

Request Example

Querying the list of non-compliant ECS reports

```
/v1/patch/instance/compliant?offset=1&limit=10&compliant_status=non_compliant&report_scene=ECS
```

Response Example

Status code: **200**

Node compliance report information is returned.

```
{
  "count" : 1,
  "instance_compliant" : [ {
    "baseline_id" : "JX-f2d85e2554f7385cbbf2c23a01f41",
    "baseline_name" : "COC-EulerOSDefaultPatchBaseline",
    "cce_info_id" : null,
    "compliant_summary" : {
      "compliant_count" : 264,
      "severity_summary" : {
        "critical_count" : 0,
        "high_count" : 0,
        "informational_count" : 0,
        "low_count" : 0,
        "medium_count" : 0,
        "unspecified_count" : 264
      }
    }
  } ],
  "eip" : null,
  "enterprise_project_id" : "string",
  "execution_summary" : {
```

```
{
  "job_id" : "string",
  "order_id" : "string",
  "report_time" : 1715308575000
},
"group" : null,
"id" : "string",
"instance_id" : "string",
"ip" : "string",
"name" : "string",
"node_id" : "",
"non_compliant_summary" : {
  "non_compliant_count" : 204,
  "severity_summary" : {
    "critical_count" : 0,
    "high_count" : 0,
    "informational_count" : 0,
    "low_count" : 0,
    "medium_count" : 0,
    "unspecified_count" : 0
  }
},
"operating_system" : "EulerOS",
"region" : "string",
"report_scene" : "ECS",
"rule_type" : "standard",
"status" : "non_compliant"
}]
}
```

Status code: **500**

An error message is returned.

```
{
  "error_code" : "string",
  "error_msg" : "string"
}
```

Status Codes

Status Code	Description
200	Node compliance report information is returned.
500	An error message is returned.

4.5.2 Querying Compliance Report Details

Function

This API is used to obtain patch details of a node by page.

URI

GET /v1/patch/instance/compliant/{instance_compliant_id}

Table 4-85 URI parameters

Parameter	Mandatory	Type	Description
instance_compliant_id	Yes	String	Compliance report ID

Table 4-86 Query parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Offset Minimum value: 1 Maximum value: 1000000 Default value: 1
limit	No	Integer	Number of records on each page Minimum value: 1 Maximum value: 100 Default value: 10
title	No	String	Patch name
sort_dir	No	String	Sorting order • asc: The query results are displayed in the ascending order. • desc: The query results are displayed in the descending order.
sort_key	No	String	Sorting field: installed_time (patch installation time)
patch_status	No	String	Patch status. The options are as follows: INSTALLED (installed), INSTALLED_OTHER (Other patches have been installed.), MISSING (missing), REJECT (rejected), FAILED (failed), PENDING_REBOOT (installed and to be restarted).
classification	No	String	Category
severity_level	No	String	Severity level
compliance_level	No	String	Compliance level

Request Parameters

None

Response Parameters

Status code: **200**

Table 4-87 Response body parameters

Parameter	Type	Description
count	Long	Total number of records
compliance_items	Array of ComplianceItem objects	Patch compliance information Array length: 0 to 1,000 elements

Table 4-88 ComplianceItem

Parameter	Type	Description
instance_id	String	Node ID
title	String	Patch name
classification	String	Category
severity_level	String	Severity level
compliance_level	String	Compliance level
patch_detail	PatchDetail object	Patch details

Table 4-89 PatchDetail

Parameter	Type	Description
installed_time	Long	Installation time
patch_baseline_id	String	Patch baseline ID
patch_baseline_name	String	Patch baseline name
patch_status	String	Patch status

Status code: **500**

Table 4-90 Response body parameters

Parameter	Type	Description
error_code	String	Error code Minimum length: 8 characters Maximum length: 64 characters
error_msg	String	Error description Minimum length: 2 characters Maximum length: 512 characters

Request Example

Requests patch information in a specified report

```
/v1/patch/instance/compliant/3f5f3c944f50da3a7038457c5ff76c66?offset=1&limit=10
```

Response Example

Status code: **200**

Node patch information is returned.

```
{
  "count" : 1,
  "compliance_items" : [ {
    "classification" : "",
    "compliance_level" : "UNSPECIFIED",
    "instance_id" : "string",
    "patch_detail" : {
      "installed_time" : 1713864585000,
      "patch_baseline_id" : "JX-f2d85e2554f7385cbbf2c23a01f41",
      "patch_baseline_name" : "COC-EulerOSDefaultPatchBaseline",
      "patch_status" : "PENDING_REBOOT"
    },
    "severity_level" : "",
    "title" : "string"
  } ]
}
```

Status code: **500**

An error message is returned.

```
{
  "error_code" : "string",
  "error_msg" : "string"
}
```

Status Code

Status Code	Description
200	Node patch information is returned.
500	An error message is returned.

5 Appendix

5.1 Status Code

- Normal

Return Value		Description
200	OK	Request succeeded.
201	Created	Request processed.
202	Accepted	A task has been successfully delivered. However, it will be postponed because the system is busy currently.
204	No Content	The task is successfully delivered.

- Abnormal

Return Value		Description
300	multiple choices	The requested resource has multiple available responses.
400	Bad Request	The request failed to be processed due to bad syntax.
401	Unauthorized	You must enter a username and the password to access the requested page.
403	Forbidden	Access to the requested page is forbidden.
404	Not Found	The requested page was not found.
405	Method Not Allowed	The request method is not allowed.

Return Value		Description
406	Not Acceptable	Response generated by the server is not acceptable to the client.
407	Proxy Authentication Required	The client must first authenticate itself with the proxy.
408	Request Timeout	The request timed out.
409	Conflict	The request is not processed due to a conflict.
429	Request Entity Too Large	The request throttling threshold is reached.
500	Unsupported Media Type	The request is not completed because there is an exception.
501	Too Many Requests	The request is not completed because the server does not support the requested function.
502	Internal Server Error	The request is not completed because the server receives an invalid response from the upstream server.
503	Not Implemented	The request is not completed because the system is temporarily abnormal.
504	Service Unavailable	The server has waited too long for a response from an upstream server.

5.2 Error code

Error code

Status Code	Error code	Error Message	Description	Measure
400	COC.00040601	Exist script with same name: test1111_param.	A script with the same name exists.	Modify the script name.
400	COC.00040701	Internal server error	Service internal error.	Contact customer service.
400	COC.00040601	The paramValue is invalid.	Invalid script parameter.	Modify the script parameters to meet the requirements.

5.3 Obtaining a Project ID

Scenario

A project ID is required for some URLs when an API is called. You need to obtain a project ID in advance. You can obtain the project ID in either of the following ways:

- [Obtaining a Project ID by Calling an API](#)
- [Obtaining the Project ID on the Console](#)

Obtaining a Project ID by Calling an API

You can obtain a project ID by calling the API used to query projects based on specified criteria. For details, see [Querying Project Information](#).

The API used to obtain a project ID is **GET https://{Endpoint}/v3/projects**, where *{Endpoint}* indicates the IAM endpoint. You can obtain the IAM endpoint from Regions and Endpoints. For details about API authentication, see [3.2 Authentication](#).

The following is an example response. The value of **id** is the project ID to be obtained.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "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"
  }
}
```

Obtaining the Project ID on the Console

Procedure

1. Log in to the management console.
2. Click the username and choose **My Credentials** from the drop-down list.
On the **API Credentials** page, view the project ID in the project list.
3. Click the username and choose **My Credential** from the drop-down list.

On the **My Credentials** page, view the project ID (the value in the **Project ID** column).

Figure 5-1 Viewing the project ID

