

Cloud Operations Center

API Reference

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1 Before You Start

1.1 Overview

Cloud Operations Center (COC) provides a secure, effective, intelligent, and one-stop O&M platform to satisfy centralized O&M requirements of customers. It carries the service scenarios of deterministic SRE of Huawei Cloud and provides core features such as change management and batch O&M to improve the maturity of customers' O&M capabilities and improve cloud O&M efficiency on the premise of 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.
- Provides full-lifecycle resource management, including resource definition, application, provisioning, O&M, configuration change, renewal, and recycling, building a resource management cockpit.
- Change risk control and job trustworthiness accumulated management and control models of best practices of Huawei SRE in secure production, helping you achieve trustworthy, stable, and reliable O&M experience
- Standardized fault management and WarRoom cockpit achieve efficient fault collaboration and quick fault recovery.
- Intelligent chaos drills provide full-stack chaos engineering solution, transforming traditional passive O&M mode to proactive O&M.

1.2 API Calling

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

1.3 VPC endpoint

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

COC is a global service. You do not need to specify an endpoint when you call COC APIs. You only need to specify the user access domain name.

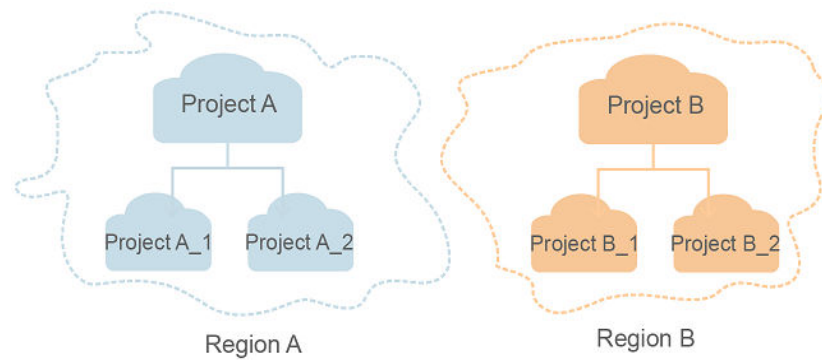
1.4 Constraints

- For more constraints, see API description.

1.5 Concepts

- Account
An account is created upon successful signing up. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity, which should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.
- User
An IAM user is created by an account 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 to group and physically isolate resources (including computing, storage, and network resources) across regions. 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.

Figure 1-1 Project isolation model



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

2 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** as an example to demonstrate how to call an API. The obtained token can then be used to authenticate the calling of other APIs.

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

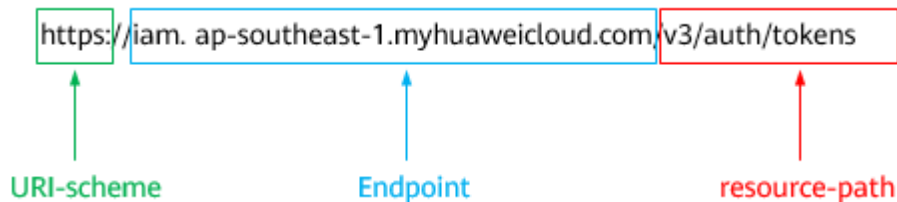
Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS .
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from Regions and Endpoints . For example, the endpoint of IAM in region CN-Hong Kong is iam.ap-southeast-1.myhuaweicloud.com .
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the resource-path of the API used 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 **CN-Hong Kong** region, obtain the endpoint of IAM (`iam.ap-southeast-1.myhuaweicloud.com`) for this region and the resource-path (`/v3/auth/tokens`) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

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

Figure 3-1 Example URI



NOTE

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

Method	Description
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.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
```

Request Header

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

Common request header fields are as follows.

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

Parameter	Description	Mandatory or Not	Example
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
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: MIIPAgYJKoZlhvcNAQc-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 [Authentication](#).

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.ap-southeast-1.myhuaweicloud.com/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 *xxxxxxxxxxxxxxxxxxxx* (project ID) with the actual values, for example, **ap-southeast-1**. Obtain the value from **Regions and Endpoints**.

 **NOTE**

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

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

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

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 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:

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

AK/SK Authentication

NOTE

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

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

- AK: access key ID, 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 [Status Code](#).

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

Response Header

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

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

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

```

connection → keep-alive

content-type → application/json

date → Tue, 12 Feb 2019 06:52:13 GMT

server → Web Server

strict-transport-security → max-age=31536000; includeSubdomains;

transfer-encoding → chunked

via → proxy A

x-content-type-options → nosniff

x-download-options → noopen

x-frame-options → SAMEORIGIN

x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5

x-subject-token
→ MIiYXQYJKoZIhvcNAQcCoIIYJCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6fjIwMTktMDItMTNUMDc6fj3KIs6YgKnpVNRbW2eZ5eb78SZOkqjACgkklQ1wi4JlGzrpd18LGXK5tdfdq4lqHCYb8P4NaYONVejcAgzjVeFYtLWT1GSO0zxKZmlQHqj82HBqHdgIZO9fuEbl5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXI1jipPEGA270g1FruooL6jqglFKNPQuFSOU8+uSsttVwRtnfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbvpvGw-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 or Not	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 CMDDB.
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 must be unique under the same tenant. The value can contain a maximum of 64 characters, including letters, digits, and underscores (_).
- The script content can contain a maximum of 4096 characters.

- A maximum of 20 script parameters are supported.
- 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 parameter

Parameter	Mandatory or Not	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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • SHELL • PYTHON • BAT

Parameter	Mandatory or Not	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 or Not	Type	Description
risk_level	Yes	String	Risk level. LOW : low risk. MEDIUM : medium risk. HIGH : high risk. The value can be: <ul style="list-style-type: none"> • 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 or Not	Type	Description
protocol	No	String	<p>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</p> <p>The value can be:</p> <ul style="list-style-type: none"> • DEFAULT • SMS • EMAIL • DING_TALK • WE_LINK • WECHAT • CALLNOTIFY • NOT_TO_NOTIFY

Table 4-7 ReviewerInfo

Parameter	Mandatory or Not	Type	Description
reviewer_name	Yes	String	<p>Reviewer name (IAM username)</p> <p>Minimum length: 1 character</p> <p>Maximum length: 64 characters</p>
reviewer_id	Yes	String	<p>Reviewer ID (IAM user ID)</p> <p>Minimum length: 0 character</p> <p>Maximum length: 32 characters</p>

Table 4-8 ScriptParamDefine

Parameter	Mandatory or Not	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://coc.myhuaweicloud.com/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**

Contains 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	Contains error information.

Error code

See [Error code](#).

4.2.2 Querying a Script List

Function

This API is used to query custom job script list.

The maximum of 100 script can be queried.

URI

GET /v1/job/scripts

Table 4-10 Query parameters

Parameter	Mandatory or Not	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: <ul style="list-style-type: none"> • LOW • MEDIUM • HIGH

Parameter	Mandatory or Not	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: <ul style="list-style-type: none"> • 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: 9,223,372,036,854,775,807
data	Array of ScriptListModel objects	Data list 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: 9,223,372,036,854,775,807
script_uuid	String	Script UUID. Minimum length: 1 character Maximum length: 25 characters

Parameter	Type	Description
name	String	Script name Minimum length: 1 character Maximum length: 64 characters
type	String	Script type. The options are as follows: SHELL : shell script; PYTHON : Python script; BAT : Bat script. The value can be: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • PENDING_APPROVE • APPROVED • REJECTED
gmt_created	Long	Creation time. Minimum value: 1 Maximum value: 9,223,372,036,854,775,807
gmt_modified	Long	Modification time Minimum value: 1 Maximum value: 9,223,372,036,854,775,807
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: <ul style="list-style-type: none"> • 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, approval 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: <ul style="list-style-type: none"> • 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

Contains error information.

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

Status Code

Status Code	Description
200	Script pagination data.
400	Contains error information.

Error code

See [Error code](#).

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 Path parameters

Parameter	Mandatory or Not	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

Contains error information.

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

Status Code

Status Code	Description
200	Script UUID.
400	Contains error information.

Error code

See [Error code](#).

4.2.4 Modifying a Script

Function

This API is used to modify a custom job script. Constraints: The script name must be unique under the same tenant. The script name can contain a maximum of 64 characters, including letters, digits, and underscores (_). The script content can contain a maximum of 4096 characters. A maximum of 20 script parameters are supported. 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 1024 characters. The regular expression is $^((?!{2,})[a-zA-Z0-9_-/.\|x20??:",=+@[{}]])$. If the modified script has a reviewer, you need to select reviewers again after the modification.

URI

PUT /v1/job/scripts/{script_uuid}

Table 4-18 Path parameters

Parameter	Mandatory or Not	Type	Description
script_uuid	Yes	String	Script UUID. Minimum length: 1 character Maximum length: 25 characters

Request Parameters

Table 4-19 Request body parameter

Parameter	Mandatory or Not	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 or Not	Type	Description
risk_level	Yes	String	Risk level. LOW : low risk; MEDIUM : medium risk; HIGH : high risk The value can be: <ul style="list-style-type: none"> • 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 or Not	Type	Description
protocol	No	String	<p>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</p> <p>The value can be:</p> <ul style="list-style-type: none"> • DEFAULT • SMS • EMAIL • DING_TALK • WE_LINK • WECHAT • CALLNOTIFY • NOT_TO_NOTIFY

Table 4-21 ReviewerInfo

Parameter	Mandatory or Not	Type	Description
reviewer_name	Yes	String	<p>Reviewer name (IAM username)</p> <p>Minimum length: 1 character</p> <p>Maximum length: 64 characters</p>
reviewer_id	Yes	String	<p>Reviewer ID (IAM user ID)</p> <p>Minimum length: 0 character</p> <p>Maximum length: 32 characters</p>

Table 4-22 ScriptParamDefine

Parameter	Mandatory or Not	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://coc.myhuaweicloud.com/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	Contains error information.

Error code

See [Error code](#).

4.2.5 Obtaining Details About a Custom Script

Function

This API is used to query details about a custom script.

URI

GET /v1/job/scripts/{script_uuid}

Table 4-24 Path parameters

Parameter	Mandatory or Not	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: <ul style="list-style-type: none"> ● SHELL ● PYTHON ● BAT

Parameter	Type	Description
content	String	Script content Minimum length: 1 character Maximum length: 4096 characters
script_params	Array of ScriptParam Define 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: <ul style="list-style-type: none"> ● PENDING_APPROVE ● APPROVED ● REJECTED
gmt_created	Long	Creation time. Minimum value: 1 Maximum value: 9,223,372,036,854,775,807
gmt_modified	Long	Update time Minimum value: 1 Maximum value: 9,223,372,036,854,775,807
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
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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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	Details About a Custom Script

Error code

See [Error code](#).

4.2.6 Executing Customized Scripts

Function

This API is used to execute a script.

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 Path parameters

Parameter	Mandatory or Not	Type	Description
script_uuid	Yes	String	Script UUID.

Request Parameters

Table 4-30 Request body parameter

Parameter	Mandatory or Not	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 or Not	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.
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 or Not	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

Parameter	Mandatory or Not	Type	Description
param_value	Yes	String	Value of the script input parameter. Minimum length: 0 character Maximum length: 1,024 characters The value can be: <ul style="list-style-type: none"> • ^((?!\.){2 • })[a-zA-Z0-9_\-\/\.\x20\?:" • =+@\\[\{\}\]]*\$
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 or Not	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: <ul style="list-style-type: none"> • CONTINUE • PAUSE

Table 4-34 ExecuteResourceInstance

Parameter	Mandatory or Not	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
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.

Error code

See [Error code](#).

4.3 Script Tickets

4.3.1 Displaying Basic Information about Script Service Tickets

Function

This API is used to query basic information of 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), and different keys in the consumption tag of different task types.

URI

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

Table 4-36 Path parameters

Parameter	Mandatory or Not	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.

Parameter	Type	Description
status	String	Execution status. The value can be: <ul style="list-style-type: none"> ● READY ● PROCESSING ● ERROR ● PAUSED ● CANCELED ● FINISHED ● ROLLBACKED
properties	JobScriptOrderInfoProp 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.

Parameter	Type	Description
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: <ul style="list-style-type: none"> • <code>^((?!\.}{2</code> • <code>})[a-zA-Z0-9_-\./\.\x20\?:"</code> • <code>=+@\[\{\}\]]*\$</code>
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" : "SCT2023102211473xxxxxxxx",
    "gmt_created" : 1697946452186,
    "gmt_finished" : 1697946763469,
    "execute_costs" : 311282,
    "creator" : "xxxxxxxxxxxxcontainer1",
    "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

Error code

See [Error code](#).

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 Path parameters

Parameter	Mandatory or Not	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: <ul style="list-style-type: none"> ● CONTINUE ● PAUSE
properties	String	Batch label:

Request Example

None

Response Example

None

Status Code

Status Code	Description
200	Batch list

Error code

See [Error code](#).

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 Path parameters

Parameter	Mandatory or Not	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 4-45 Response body parameters

Parameter	Type	Description
total_instance	Integer	Total instances.
execute_statistics	Array of ExecutionStatistic 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 ExecutionStatistic

Parameter	Type	Description
instance_status	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

Error code

See [Error code](#).

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 parameter

URI

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

Table 4-47 Path parameters

Parameter	Mandatory or Not	Type	Description
batch_index	Yes	Integer	Batch index. Minimum value: 1 Maximum value: 20
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 or Not	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: <ul style="list-style-type: none"> • 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

Parameter	Type	Description
execute_instances	Array of ExecutionInstanceModel objects	Execution instance list, pagination

Table 4-50 ExecutionInstanceModel

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: <ul style="list-style-type: none"> ● 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
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

Error code

See [Error code](#).

4.3.5 Displaying the Service Ticket List

Function

This API is used to query the job service ticket list and search for service tickets by page. The filter criteria include the creation start time, creation end time, and 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 or Not	Type	Description
limit	No	Integer	Pagination parameters. Minimum value: 1 Maximum value: 100
marker	No	Long	Pagination parameters. Minimum value: 1 Maximum value: 2147483647
start_time	No	Long	Start time Minimum value: 1 Maximum value: 2147483647

Parameter	Mandatory or Not	Type	Description
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: <ul style="list-style-type: none"> • 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	Record a list on a 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: 9,223,372,036,854,775,807
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: <ul style="list-style-type: none"> ● 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": "xxxxxxxxxxxcontainer1",
        "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": "xxxxxxxxxxxcontainer1",
        "status": "FINISHED",
        "properties": {
          "region_ids": "cn-north-7"
        }
      },
      {
        "order_id": xx,
        "order_name": "xxx",
        "execute_uuid": "SCT2023072217181xxxxxxxxxxxx",
        "gmt_created": 1690017490247,
        "gmt_finished": null,
        "execute_costs": null,
        "creator": "xxxxxxxxxxxcontainer1",
        "status": "ABNORMAL",
        "properties": {
          "region_ids": "cn-north-7"
        }
      },
      {
        "order_id": 71,
        "order_name": "patch_730",
        "execute_uuid": "SCT2023071915xxxxxxxxxxxx",
        "gmt_created": 1689753553241,
        "gmt_finished": 1689753579363,
        "execute_costs": 26122,
        "creator": "xxxxxxxxxxxcontainer1",
        "status": "FINISHED",
        "properties": {
          "region_ids": "cn-north-7"
        }
      },
      {
        "order_id": 70,
        "order_name": "111",
        "execute_uuid": "SCT2023071915xxxxxxxxxxxx",
        "gmt_created": 1689751168547,
        "gmt_finished": null,
        "execute_costs": null,

```

```

    "creator": "xxxxxxxxxxxxcontainer1",
    "status": "ABNORMAL",
    "properties": {
      "region_ids": "cn-north-7"
    }
  ]
}
}

```

Status Code

Status Code	Description
200	Execute pagination data

Error code

See [Error code](#).

4.3.6 Operation Script Service Ticket

Function

This API is used to query the operation type. The options are as follows: cancel Instance, skip batch, cancel entire service ticket, suspend entire service ticket, and continue entire service ticket.

URI

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

Table 4-57 Path parameters

Parameter	Mandatory or Not	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 parameter

Parameter	Mandatory or Not	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: 9,223,372,036,854,775,807
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: <ul style="list-style-type: none"> ● 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

Error code

See [Error code](#).

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 service ticket.

URI

POST /v1/external/incident/create

Request Parameters

Table 4-59 Request body parameter

Parameter	Mandatory	Type	Description
region	No	Array of strings	Region code. This parameter is mandatory if a WarRoom is automatically started. Currently, only one region code is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 characters

Parameter	Mandatory	Type	Description
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 characters
current_cloud_service	Yes	Array of strings	Home application ID. Currently, only one home application ID is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 characters
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: <ul style="list-style-type: none"> • true • false
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

Parameter	Mandatory	Type	Description
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 characters
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
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** (scheduling 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.

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: 100000000
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 100,000,000 characters
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 Accepting an Incident Ticket

Function

This API is used to accept an incident ticket.

URI

POST /v1/external/incident/handle

Remarks: The URIs of operations such as handling, submitting solutions, and verifying solutions are the same.

Request Parameters

Table 4-63 Request body parameter

Parameter	Mandatory	Type	Description
incident_num	Yes	String	Incident ticket number, for example, IM202403181322030178042608. Minimum length: 0 character Maximum length: 255 characters
operator	Yes	String	Operator ID, for example, 00909e0a9c0a49a1b5e1c3eac362e3d7. You can query the operator ID on the Basic Configuration > Personnel Management page. Minimum length: 0 character Maximum length: 255 characters
operate_key	Yes	String	Operation type. The value is fixed to acceptedIncident1 . Minimum length: 0 character Maximum length: 255 characters Fixed value:
parameter	No	Map<String,Object>	Input parameter. Currently, there is no parameter for handling. Leave this parameter empty or leave it empty.

Response Parameters

Status code: **200**

Table 4-64 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: **400**

Table 4-65 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

POST <https://IP:PORT/v1/external/incident/handle>
Request Headers:

```
Content-Type: application/json
X-Auth-Token: MI*****ghkgB
Request body:
{
  "incident_num": "IM202403221515060171753781",
  "operator": "7da46971b7e24eed90cf777cc2ff8b91",
  "operate_key": "acceptedIncident1",
  "parameter": {}
}
```

Response Example

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

Status Code

Status Code	Description
200	response
400	Error response

Error Description

Status Code	Description
The field[operate_key] value[acceptedIncident 111] invalid	Invalid operate_key.
incidentNum size must be between 0 and 255	The value of incident_num is too long.

4.4.1.3 Submitting an Incident Ticket Solution

Function

This API is used to submit the incident ticket solution.

URI

POST /v1/external/incident/handle

Remarks: The URIs of operations such as handling, submitting solutions, and verifying solutions are the same.

Request Parameters

Table 4-66 Request body parameter

Parameter	Mandatory	Type	Description
incident_num	Yes	String	Incident ticket ID Minimum length: 0 character Maximum length: 255 characters
operator	Yes	String	Operator ID Minimum length: 0 character Maximum length: 255 characters
operate_key	Yes	String	Operation type. The value is commitSolution1 . Minimum length: 0 character Maximum length: 255 characters Fixed value
parameter	Yes	Map<String, Object>	Input Parameters
parameter.mtm_type	Yes	String	Incident type For details about the value, see Incident Type .
parameter.is_service_interrupt	Yes	Boolean	Whether the service is interrupted. The value can be true or false .
parameter.cause	Yes	String	Reason. The value contains a maximum of 10000 characters.
parameter.solution	Yes	String	Solution. The value contains a maximum of 10000 characters.

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 request success 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: 400

Table 4-68 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 , error code 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/handle
Request Headers:
Content-Type: application/json
X-Auth-Token: MI*****ghkgB
Request body:
{
```

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

Response Example

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

Status Code

Status Code	Description
200	response
400	Error response

Error description

None

4.4.1.4 Verifying the Incident Handling Result

Function

This API is used to verify the incident ticket.

URI

POST /v1/external/incident/handle

Remarks: The URIs of operations such as handling, submitting solutions, and verifying solutions are the same.

Request Parameters

Table 4-69 Request body parameter

Parameter	Mandatory	Type	Description
incident_num	Yes	String	Incident ticket ID Minimum length: 0 character Maximum length: 255 characters
operator	Yes	String	Operator ID Minimum length: 0 character Maximum length: 255 characters
operate_key	Yes	String	Operation type. The value is confirm . Minimum length: 0 character Maximum length: 255 characters Fixed value
parameter	Yes	Map<String, Object>	Input parameters
parameter.virtual_confirm_result	Yes	Boolean	Verification result. The value can be true (default) or false .
parameter.virtual_confirm_comment	Yes	String	Verification description. The value contains a maximum of 300 characters.

Response Parameters

Status code: **200**

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

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 request success 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: 400

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

Request Example

```
GET https://IP:PORT/v1/external/incident/handle
Request Headers:
Content-Type: application/json
X-Auth-Token: MI*****ghkgB
{
  "incident_num": "IM202403221515060171753781",
  "operator": "7da46971b7e24eed90cf777cc2ff8b91",
  "operate_key": "confirm",
  "parameter": {
    "virtual_confirm_result": false,
    "virtual_confirm_comment": "13"
  }
}
```

Response Example

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

Status Code

Status Code	Description
200	response
400	Error response

Error code

None

4.4.1.5 Querying Incident Ticket Details

Function

This API is used to query incident ticket details.

URI

GET /v1/external/incident/{incident_num}

Table 4-72 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 4-73 Response body parameters

Parameter	Type	Description
provider_code	String	Service ID. Default value: 049 Minimum length: 3 characters Maximum length: 100,000,000 characters
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 4-74 IncidentTicketInfoResponseData

Parameter	Type	Description
incident_num	String	Incident ticket ID Minimum length: 0 character Maximum length: 255 characters
region	Array of strings	Region code. This parameter is mandatory if a WarRoom is automatically started. Currently, only one region code is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 characters
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 characters

Parameter	Type	Description
current_cloud_service	Array of strings	Home application ID. Currently, only one home application ID is supported. Minimum length: 0 character Maximum length: 255 characters Array length: 0 to 1 characters
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: <ul style="list-style-type: none"> • 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
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 characters
assignee_scenario	String	Schedule scenario Minimum length: 0 character Maximum length: 255 characters

Parameter	Type	Description
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 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 4-75 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

Parameter	Type	Description
name_en	String	English name Minimum length: 0 character Maximum length: 255 characters

Status code: 400

Table 4-76 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 4-77 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

Parameter	Type	Description
error_msg	String	Request response description. Minimum length: 0 character Maximum length: 100,000,000 characters
data	CreateExternalIncidentResponseData object	data

Table 4-78 CreateExternalIncidentResponseData

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

Status code: 400

Table 4-79 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/IM2024*****08
Request Headers:
Content-Type: application/json
X-Auth-Token: MI*****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 Code

None

4.4.1.6 Incident-related Enumeration Information

4.4.1.6.1 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

4.4.1.6.2 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_p_middlewares	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

4.4.1.6.3 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

4.4.1.6.4 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

Tenants can integrate their self-developed monitoring systems into the COC based on 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 4-80 URI parameters

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

Request Parameters

Table 4-81 Request body parameter

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

Parameter	Mandatory	Type	Description
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: <ul style="list-style-type: none"> • 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
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

Parameter	Mandatory	Type	Description
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: <ul style="list-style-type: none"> • 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 4-82 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://coc.myhuaweicloud.com/v1/event/huawei/custom/{integration_key}

{
  "alarmId": "18cfxxxxxxxx0f8",
  "alarmName": "CPU Usage Exceeding Threshold",
  "alarmLevel": "Critical",
  "time": 1709118444540,
  "nameSpace": "shanghai",
  "regionId": "cn-north-4",
  "applicationId": "18cfa0a5ef8d",
  "resourceName": "machine-1",
  "resourceId": "18cxxxxxxxxxxxxff68625",
  "alarmDesc": "string",
  "URL": "https://xxx.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.

Status Code	Description
400	Incorrect request body.
401	Authentication error.

5 Appendix

5.1 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.

5.2 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 [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

