

Application Operations Management

API Reference

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1

Before You Start

1.1 Overview

Welcome to use Application Operations Management (AOM). Application Operations Management (AOM) is a one-stop, multi-dimensional O&M management platform for cloud applications. It provides one-stop observability analysis. By collecting metrics, logs, and performance data from the cloud and local devices, AOM enables you to monitor real-time running status of applications, resources, and services and detect faults in a timely manner, improving O&M automation capability and efficiency.

This document describes how to use APIs to perform operations on AOM, such as creation, deletion, and query. For details about all supported operations, see [2 API Overview](#).

If you plan to call AOM APIs, ensure that you are familiar with AOM concepts.

1.2 API Calling

AOM supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see [3 Calling APIs](#).

1.3 Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. To obtain the regions and endpoints, contact the enterprise administrator.

1.4 Concepts

- **IAM user**

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

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

- **Region**

Regions are geographic areas isolated from each other. Resources are region-specific and cannot be used across regions through internal network connections. For low network latency and quick resource access, select the nearest region.

- **AZ**

An AZ contains one or more physical data centers. Each AZ has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an AZ, computing, network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.

2 API Overview

AOM provides alarm, monitoring, log, and APIs, helping you quickly and cost-effectively maintain applications.

Table 2-1 API overview

Type	API
Alarm APIs	Alarm APIs, including the APIs for adding, updating, and deleting event alarm rules.
Monitoring APIs	Monitoring APIs, including the APIs for querying metrics, and querying and adding monitoring data.
Log APIs	Log APIs, including the API for querying logs.

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 the request header, most programming languages or frameworks require the request URI to be transmitted separately.

- **URI-scheme:** Protocol used to transmit requests. All APIs use HTTPS.
- **Endpoint:** Domain name or IP address of the server where the REST service is deployed. The endpoint varies depending on services and regions.

For example, the endpoint of IAM in the **my-kualalumpur-1** region is **iam.my-kualalumpur-1.cloudalphai4.tmone.com.my**.

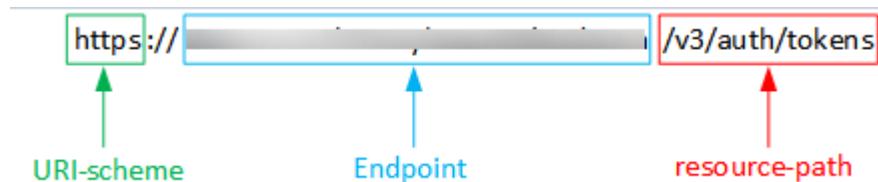
NOTICE

For monitoring, log, and auto scaling APIs, use AOM endpoints. For APM APIs, use APM endpoints. For details, see [1.3 Endpoints](#).

- **resource-path:** Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the **resource-path** of the API used to obtain a user token is **/v3/auth/tokens**.
- **query-string:** Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of "Parameter name=Parameter value". For example, **? limit=10** indicates that a maximum of 10 data records will be displayed.

For example, to obtain an IAM token in the *xxx* region, obtain the endpoint of IAM for this region and the **resource-path** in the URI of the API used to obtain a user token. Then, construct the URI as follows:

Figure 3-1 Example URI



NOTE

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

Request Methods

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

- **GET**: requests the server to return specified resources.
- **PUT**: requests the server to update specified resources.
- **POST**: requests the server to add resources or perform special operations.
- **DELETE**: requests the server to delete specified resources, for example, an object.
- **HEAD**: requests the server to return the response header only.
- **PATCH**: requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

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

```
POST https://Endpoint/v3/auth/tokens
```

Request Header

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

Common request header fields are as follows:

- **Content-Type**: specifies the request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.
- **X-Auth-Token**: specifies a user token only for token-based API authentication. The user token is a response to the API used to obtain a user token. This API is the only one that does not require authentication.

NOTE

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

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

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

```
POST https://Endpoint/v3/auth/tokens
Content-Type: application/json
```

Request Body

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

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

In the case of the API used to obtain a user token, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace *username*, *domainname*, ***** (login password), and xxxxxxxxxxxxxxxxx (project ID) with the actual values. To learn how to obtain a project ID, see [7.3 Obtaining an Account ID and Project ID](#).

NOTE

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account.

```
POST https://Endpoint/v3/auth/tokens
Content-Type: application/json
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "password": "*****",
          "domain": {
            "name": "domainname"
          }
        }
      }
    },
    "scope": {
      "project": {
        "id": "xxxxxxxxxxxxxxxxxxxx"
      }
    }
  }
}
```

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

3.2 Authentication

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

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair.

Token-based Authentication



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 used to obtain a user token.

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

In [3.1 Making an API Request](#), the process of calling the API used to obtain a user token is described. When calling an API to obtain a user token, you must set **auth.scope** in the request body to **project**.

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

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

```
GET https://Endpoint/v3/auth/projects  
Content-Type: application/json  
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

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

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

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

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests.

CAUTION

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 [7.1 Status Codes](#).

If status code **201** is returned for the calling of the API for obtaining a user token, the request is successful.

Response Header

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

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 → noopener
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token
→ MIIXQVJKoZlhvcNAQcCoIYTjCCGEoCAQEExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgg hacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6ljlwMTktMDItMTNUMDfj3KUs6YgJknPVNRbW2eZ5eb78SZOkqjACgkIqO1wi4JlGzrpdi8LGXK5bxldfq4lqHCYb8P4NaY0NYejcAgzJVeFIytLWT1GSO0zxKZmlQHQj82H8qHdgIzO9fuEbL5dMhdavj+33wElxHRC9187o+k9-j+CMZSEB7bUGd5Uj6eRASX1jipPEGA270g1FruloL6jqglFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUvHvpxk8pxiX1wTEboXRzT6MUbpvGw-oPNFYxJECKnOHzRozv0vN--n5d6Nbvg=-
x-xss-protection → 1; mode=block;
```

Response Body

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

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

```
{
  "token": {
    "expires_at": "2019-02-13T06:52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "xx-xxxxxx-1",
.....
```

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

```
{
  "errorCode": "SVCSTG_AMS_4000001",
  "errorMessage": "Request param invalid"
}
```

In the response body, **errorCode** is an error code, and **errorMessage** provides information about the error.

4 APIs

4.1 Alarm

4.1.1 Querying the Event Alarm Rule List

Function

This API is used to query the event alarm rule list.

Calling Method

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

URI

GET /v2/{project_id}/event2alarm-rule

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 0 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Response Parameters

Status code: 200

Table 4-3 Response body parameters

Parameter	Type	Description
[items]	Array of Event2alarm RuleBody objects	OK: The request is successful.

Table 4-4 Event2alarmRuleBody

Parameter	Type	Description
user_id	String	Project ID. Minimum: 32 Maximum: 32
name	String	Rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, underscores (_), and hyphens (-) are allowed. Minimum: 1 Maximum: 100

Parameter	Type	Description
description	String	Rule description. Enter a maximum of 1024 characters and do not start or end with an underscore (_) or hyphen (-). Only letters, digits, and special characters (_->=,.) are allowed. Minimum: 0 Maximum: 1024
create_time	Integer	Creation time. Minimum: 0 Maximum: 9999999999999
update_time	Integer	Update time. Minimum: 0 Maximum: 9999999999999
resource_provider	String	Event source. Minimum: 0 Maximum: 64
metadata	metadata object	Source data.
enable	Boolean	Whether to enable the rule.
trigger_policies	Array of trigger_policies objects	Trigger policy. Array Length: 0 - 1024
alarm_type	String	Alarm type. notification: direct alarm reporting. denoising: alarm noise reduction. Minimum: 0 Maximum: 32 Enumeration values: <ul style="list-style-type: none">• notification• denoising
action_rule	String	Alarm action rule. Minimum: 0 Maximum: 128
inhibit_rule	String	Alarm suppression rule. Minimum: 0 Maximum: 128

Parameter	Type	Description
route_group_rule	String	Alarm grouping rule. Minimum: 0 Maximum: 128
event_names	Array of strings	Event name.
migrated	Boolean	Whether to migrate to AOM 2.0.
topics	Array of SmnTopics objects	SMN information.

Table 4-5 metadata

Parameter	Type	Description
customField	Array of strings	Custom tag. Minimum: 0 Maximum: 1024 Array Length: 0 - 1024

Table 4-6 trigger_policies

Parameter	Type	Description
id	Integer	ID. Minimum: 0 Maximum: 128
name	String	Event name. Minimum: 0 Maximum: 128
trigger_type	String	Trigger type. accumulative: Accumulated trigger. immediately: Immediate trigger. Minimum: 0 Maximum: 128 Enumeration values: <ul style="list-style-type: none">• accumulative• immediately

Parameter	Type	Description
period	Integer	Trigger cycle. Minimum: 1 Maximum: 86400
operator	String	Comparison operator. Minimum: 0 Maximum: 8
count	Integer	Number of trigger times. Minimum: 1 Maximum: 100
level	String	Alarm severity. Minimum: 0 Maximum: 32

Table 4-7 SmnTopics

Parameter	Type	Description
display_name	String	Topic display name, which will be the name of an email sender. Max.: 192 bytes. This parameter is left blank by default. Minimum: 1 Maximum: 64
name	String	Name of the topic. Enter 1 to 255 characters starting with a letter or digit. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum: 1 Maximum: 255
push_policy	Integer	SMN message push policy. Options: 0 and 1. Minimum: 0 Maximum: 1

Parameter	Type	Description
status	Integer	<p>Status of the topic subscriber. 0: The topic has been deleted or the subscription list of this topic is empty. 1: The subscription object is in the subscribed state. 2: The subscription object is in the unsubscribed or canceled state.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 0 • 1 • 2
topic_urn	String	<p>Unique resource identifier of the topic.</p> <p>Minimum: 1</p> <p>Maximum: 100</p>

Status code: 400

Table 4-8 Response body parameters

Parameter	Type	Description
error_code	String	<p>Error code.</p> <p>Minimum: 12</p> <p>Maximum: 12</p>
error_msg	String	<p>Error message.</p> <p>Minimum: 0</p> <p>Maximum: 1024</p>
error_type	String	<p>Error type.</p> <p>Minimum: 0</p> <p>Maximum: 128</p>
trace_id	String	<p>Request ID.</p> <p>Minimum: 32</p> <p>Maximum: 32</p>

Status code: 401

Table 4-9 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-10 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-11 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Example Requests

Query the event alarm rule list.

```
https://{endpoint}/v2/{project_id}/event2alarm-rule
```

Example Responses

Status code: 200

OK: The request is successful.

```
[ {  
    "action_rule" : "1",  
    "alarm_type" : "notification",  
    "create_time" : 1701442632968,  
    "description" : "",  
    "enable" : true,  
    "event_names" : [ ],  
    "inhibit_rule" : "",  
    "metadata" : {  
        "customField" : [ "xxx" ]  
    },  
    "migrated" : false,  
    "name" : "1jB5h6GnbY",  
    "resource_provider" : "AOM",  
    "route_group_rule" : "",  
    "topics" : [ ],  
    "trigger_policies" : [ {  
        "count" : 99,  
        "id" : 0,  
        "level" : "",  
        "name" : "",  
        "operator" : ">=",  
        "period" : 300,  
        "trigger_type" : "accumulative"  
    } ],  
    "update_time" : 0,  
    "update_user" : ""  
}, {  
    "action_rule" : "1",  
    "alarm_type" : "notification",  
    "create_time" : 1701442632968,  
    "description" : "",  
    "enable" : true,  
    "event_names" : [ ],  
    "inhibit_rule" : "",  
    "metadata" : {  
        "customField" : [ "xxx" ]  
    },  
    "migrated" : false,  
    "name" : "1jB5h6GnbY",  
    "resource_provider" : "AOM",  
    "route_group_rule" : "",  
    "topics" : [ ],  
    "trigger_policies" : [ {  
        "count" : 99,  
        "id" : 0,  
        "level" : "",  
        "name" : "",  
        "operator" : ">=",  
        "period" : 300,  
        "trigger_type" : "accumulative"  
    } ],  
    "update_time" : 0,  
    "update_user" : ""  
}]
```

```
        "user_id" : "2a473356cca5487f8373be891bffc1cf"  
    } ]
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.02007102",  
    "error_msg" : "this Threshold has been existed",  
    "error_type" : "BAD_REQUEST",  
    "trace_id" : "8fb508e9e31b44279016f708e1c60e4c"  
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
    "error_code" : "SVCSTG.AMS.2000051",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0403",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code" : "AOM.02007500",  
    "error_msg" : "the system has some problem",  
    "error_type" : "SC_INTERNAL_SERVER_ERROR",  
    "trace_id" : "8fb508e9e31b44279016f708e1c60e4c"  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

Status Code	Description
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.2 Adding an Event Alarm Rule

Function

This API is used to add an event alarm rule.

Calling Method

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

URI

POST /v2/{project_id}/event2alarm-rule

Table 4-12 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-13 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 0 Maximum: 40960

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	<p>Content type, which is application/json.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • application/json

Table 4-14 Request body parameters

Parameter	Mandatory	Type	Description
user_id	Yes	String	<p>Project ID.</p> <p>Minimum: 32</p> <p>Maximum: 32</p>
name	Yes	String	<p>Rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, underscores (_), and hyphens (-) are allowed.</p> <p>Minimum: 1</p> <p>Maximum: 100</p>
description	No	String	<p>Rule description. Enter a maximum of 1024 characters and do not start or end with an underscore (_) or hyphen (-). Only letters, digits, and special characters (_-<>=.) are allowed.</p> <p>Minimum: 0</p> <p>Maximum: 1024</p>
create_time	Yes	Integer	<p>Creation time.</p> <p>Minimum: 0</p> <p>Maximum: 99999999999999</p>
update_time	No	Integer	<p>Update time.</p> <p>Minimum: 0</p> <p>Maximum: 99999999999999</p>
resource_provider	No	String	<p>Event source.</p> <p>Minimum: 0</p> <p>Maximum: 64</p>
metadata	Yes	metadata object	Source data.

Parameter	Mandatory	Type	Description
enable	Yes	Boolean	Whether to enable the rule.
trigger_policies	Yes	Array of trigger_policies objects	Trigger policy. Array Length: 0 - 1024
alarm_type	Yes	String	Alarm type. notification: direct alarm reporting. denoising: alarm noise reduction. Minimum: 0 Maximum: 32 Enumeration values: <ul style="list-style-type: none">• notification• denoising
action_rule	Yes	String	Alarm action rule. Minimum: 0 Maximum: 128
inhibit_rule	No	String	Alarm suppression rule. Minimum: 0 Maximum: 128
route_group_rule	No	String	Alarm grouping rule. Minimum: 0 Maximum: 128
event_names	No	Array of strings	Event name.
migrated	No	Boolean	Whether to migrate to AOM 2.0.
topics	No	Array of SmnTopics objects	SMN information.

Table 4-15 metadata

Parameter	Mandatory	Type	Description
customField	No	Array of strings	Custom tag. Minimum: 0 Maximum: 1024 Array Length: 0 - 1024

Table 4-16 trigger_policies

Parameter	Mandatory	Type	Description
id	No	Integer	ID. Minimum: 0 Maximum: 128
name	No	String	Event name. Minimum: 0 Maximum: 128
trigger_type	No	String	Trigger type. accumulative: Accumulated trigger. immediately: Immediate trigger. Minimum: 0 Maximum: 128 Enumeration values: • accumulative • immediately
period	No	Integer	Trigger cycle. Minimum: 1 Maximum: 86400
operator	No	String	Comparison operator. Minimum: 0 Maximum: 8
count	No	Integer	Number of trigger times. Minimum: 1 Maximum: 100
level	No	String	Alarm severity. Minimum: 0 Maximum: 32

Table 4-17 SmnTopics

Parameter	Mandatory	Type	Description
display_name	No	String	Topic display name, which will be the name of an email sender. Max.: 192 bytes. This parameter is left blank by default. Minimum: 1 Maximum: 64
name	Yes	String	Name of the topic. Enter 1 to 255 characters starting with a letter or digit. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum: 1 Maximum: 255
push_policy	Yes	Integer	SMN message push policy. Options: 0 and 1. Minimum: 0 Maximum: 1
status	No	Integer	Status of the topic subscriber. 0: The topic has been deleted or the subscription list of this topic is empty. 1: The subscription object is in the subscribed state. 2: The subscription object is in the unsubscribed or canceled state. Enumeration values: <ul style="list-style-type: none">• 0• 1• 2
topic_urn	Yes	String	Unique resource identifier of the topic. Minimum: 1 Maximum: 100

Response Parameters

Status code: 400

Table 4-18 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 401

Table 4-19 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-20 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500**Table 4-21** Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Example Requests

Add an event alarm rule whose user ID is "xxxx", name is "scl_test_event", and event source is "AOM".

```
https://{{endpoint}}/v2/{{project_id}}/event2alarm-rule
```

```
{  
    "user_id": "xxxx",  
    "name": "scl_test_event",  
    "description": "",  
    "create_time": 1669276173427,  
    "update_time": 0,  
    "resource_provider": "AOM",  
    "metadata": {  
        "customField": [ "xxx=xxx" ]  
    },  
    "enable": true,  
    "trigger_policies": [ {  
        "id": 0,  
        "name": "",  
        "trigger_type": "accumulative",  
        "period": 300,  
        "operator": ">=",  
        "count": 99,  
        "level": ""  
    } ],  
    "alarm_type": "notification",  
    "action_rule": "111111",  
    "inhibit_rule": "",  
    "route_group_rule": ""  
}
```

Example Responses

Status code: 204

OK: The request is successful.

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
    "error_code": "AOM.02021003",  
    "error_msg": "input alarm rule or description is invalid",  
    "trace_id": ""  
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
    "error_code": "SVCSTG.AMS.2000051",  
    "error_msg": "auth failed.",  
    "error_type": "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code": "AOM.0403",  
    "error_msg": "auth failed.",  
    "error_type": "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code" : "AOM.02007500",  
    "error_msg" : "the system has some problem",  
    "error_type" : "SC_INTERNAL_SERVER_ERROR",  
    "trace_id" : "8fb508e9e31b44279016f708e1c60e4c"  
}
```

Status Codes

Status Code	Description
204	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.3 Modifying an Event Alarm Rule

Function

This API is used to modify an event alarm rule.

Calling Method

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

URI

PUT /v2/{project_id}/event2alarm-rule

Table 4-22 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-23 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token obtained from IAM. Minimum: 0 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-24 Request body parameters

Parameter	Mandatory	Type	Description
user_id	Yes	String	Project ID. Minimum: 32 Maximum: 32
name	Yes	String	Rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, underscores (_), and hyphens (-) are allowed. Minimum: 1 Maximum: 100

Parameter	Mandatory	Type	Description
description	No	String	Rule description. Enter a maximum of 1024 characters and do not start or end with an underscore (_) or hyphen (-). Only letters, digits, and special characters (_-<>=,.) are allowed. Minimum: 0 Maximum: 1024
create_time	Yes	Integer	Creation time. Minimum: 0 Maximum: 9999999999999
update_time	No	Integer	Update time. Minimum: 0 Maximum: 9999999999999
resource_provider	No	String	Event source. Minimum: 0 Maximum: 64
metadata	Yes	metadata object	Source data.
enable	Yes	Boolean	Whether to enable the rule.
trigger_policies	Yes	Array of trigger_policies objects	Trigger policy. Array Length: 0 - 1024
alarm_type	Yes	String	Alarm type. notification: direct alarm reporting. denoising: alarm noise reduction. Minimum: 0 Maximum: 32 Enumeration values: <ul style="list-style-type: none">• notification• denoising
action_rule	Yes	String	Alarm action rule. Minimum: 0 Maximum: 128
inhibit_rule	No	String	Alarm suppression rule. Minimum: 0 Maximum: 128

Parameter	Mandatory	Type	Description
route_group_rule	No	String	Alarm grouping rule. Minimum: 0 Maximum: 128
event_names	No	Array of strings	Event name.
migrated	No	Boolean	Whether to migrate to AOM 2.0.
topics	No	Array of SmnTopics objects	SMN information.

Table 4-25 metadata

Parameter	Mandatory	Type	Description
customField	No	Array of strings	Custom tag. Minimum: 0 Maximum: 1024 Array Length: 0 - 1024

Table 4-26 trigger_policies

Parameter	Mandatory	Type	Description
id	No	Integer	ID. Minimum: 0 Maximum: 128
name	No	String	Event name. Minimum: 0 Maximum: 128
trigger_type	No	String	Trigger type. accumulative: Accumulated trigger. immediately: Immediate trigger. Minimum: 0 Maximum: 128 Enumeration values: • accumulative • immediately

Parameter	Mandatory	Type	Description
period	No	Integer	Trigger cycle. Minimum: 1 Maximum: 86400
operator	No	String	Comparison operator. Minimum: 0 Maximum: 8
count	No	Integer	Number of trigger times. Minimum: 1 Maximum: 100
level	No	String	Alarm severity. Minimum: 0 Maximum: 32

Table 4-27 SmnTopics

Parameter	Mandatory	Type	Description
display_name	No	String	Topic display name, which will be the name of an email sender. Max.: 192 bytes. This parameter is left blank by default. Minimum: 1 Maximum: 64
name	Yes	String	Name of the topic. Enter 1 to 255 characters starting with a letter or digit. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum: 1 Maximum: 255
push_policy	Yes	Integer	SMN message push policy. Options: 0 and 1. Minimum: 0 Maximum: 1

Parameter	Mandatory	Type	Description
status	No	Integer	<p>Status of the topic subscriber. 0: The topic has been deleted or the subscription list of this topic is empty. 1: The subscription object is in the subscribed state. 2: The subscription object is in the unsubscribed or canceled state.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 0 • 1 • 2
topic_urn	Yes	String	<p>Unique resource identifier of the topic.</p> <p>Minimum: 1</p> <p>Maximum: 100</p>

Response Parameters

Status code: 400

Table 4-28 Response body parameters

Parameter	Type	Description
error_code	String	<p>Error code.</p> <p>Minimum: 12</p> <p>Maximum: 12</p>
error_msg	String	<p>Error message.</p> <p>Minimum: 0</p> <p>Maximum: 1024</p>
error_type	String	<p>Error type.</p> <p>Minimum: 0</p> <p>Maximum: 128</p>
trace_id	String	<p>Request ID.</p> <p>Minimum: 32</p> <p>Maximum: 32</p>

Status code: 401

Table 4-29 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-30 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-31 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Example Requests

Update an event alarm rule whose user ID is "xxxxxx", event source is "AOM", and name is "scl_test_event".

https://{endpoint}/v2/{project_id}/event2alarm-rule

```
{
  "user_id": "xxxxxx",
  "name": "scl_test_event",
  "description": "",
  "create_time": 1669276304343,
  "update_time": 1669276304343,
  "resource_provider": "AOM",
  "metadata": {
    "customField": [ "xxx" ]
  },
  "enable": true,
  "trigger_policies": [ {
    "id": 0,
    "name": "",
    "trigger_type": "accumulative",
    "period": 300,
    "operator": ">=",
    "count": 99,
    "level": ""
  }],
  "alarm_type": "notification",
  "action_rule": "111111",
  "inhibit_rule": "",
  "route_group_rule": ""
}
```

Example Responses

Status code: 204

OK: The request is successful.

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
  "error_code" : "AOM.02021003",  
  "error_msg" : "input alarm rule or description is invalid",  
  "trace_id" : ""  
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
  "error_code" : "SVCSTG.AMS.2000051",  
  "error_msg" : "auth failed.",  
  "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
  "error_code" : "AOM.0403",  
  "error_msg" : "auth failed.",  
  "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
  "error_code" : "AOM.02021500",  
  "error_message" : "SC_INTERNAL_SERVER_ERROR",  
  "trace_id" : ""  
}
```

Status Codes

Status Code	Description
204	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

Status Code	Description
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.4 Deleting an Event Alarm Rule

Function

This API is used to delete an event alarm rule.

Calling Method

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

URI

DELETE /v2/{project_id}/event2alarm-rule

Table 4-32 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-33 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-34 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	Name of the rule to be deleted.

Response Parameters

Status code: 400

Table 4-35 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 401

Table 4-36 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-37 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-38 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Example Requests

Delete event alarm rule "aomTestLts".

```
https://{endpoint}/v2/{project_id}/event2alarm-rule
[ "aomTestLts" ]
```

Example Responses

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
  "error_code" : "AOM.02007102",
  "error_msg" : "this Threshold has been existed",
  "error_type" : "BAD_REQUEST",
  "trace_id" : "8fb508e9e31b44279016f708e1c60e4c"
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{
  "error_code" : "SVCSTG.AMS.2000051",
  "error_msg" : "auth failed.",
  "error_type" : "AUTH_FAILED"
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0403",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code" : "AOM.02007500",  
    "error_msg" : "the system has some problem",  
    "error_type" : "SC_INTERNAL_SERVER_ERROR",  
    "trace_id" : "8fb508e9e31b44279016f708e1c60e4c"  
}
```

Status Codes

Status Code	Description
204	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.5 Obtaining the Alarm Sending Result

Function

This API is used to obtain the alarm sending result.

Calling Method

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

URI

GET /v2/{project_id}/alarm-notified-histories

Table 4-39 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Table 4-40 Query Parameters

Parameter	Mandatory	Type	Description
event_sn	No	String	Alarm serial number.

Request Parameters

Table 4-41 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: • application/json

Response Parameters

Status code: 200

Table 4-42 Response body parameters

Parameter	Type	Description
notified_histories	Array of NotifiedHistoriesResult objects	Historical notification list.

Table 4-43 NotifiedHistoriesResult

Parameter	Type	Description
event_sn	String	Alarm serial number. Minimum: 19 Maximum: 19
notifications	Array of Notifications objects	Notification result. Array Length: 0 - 100

Table 4-44 Notifications

Parameter	Type	Description
action_rule	String	Alarm action rule name. Minimum: 1 Maximum: 100
notifier_channel	String	Notification type. SMN: Simple Message Notification. Enumeration values: • SMN
smn_channel	SmnResponse object	Notification result details.

Table 4-45 SmnResponse

Parameter	Type	Description
sent_time	Long	Sending time. Minimum: 0 Maximum: 9999999999
smn_notified_history	Array of SmnInfo objects	Content of a notification. Array Length: 1 - 100
smn_request_id	String	ID for requesting SMN. Minimum: 32 Maximum: 32
smn_response_body	String	Information returned after the SMN service is invoked. Minimum: 0 Maximum: 1024

Parameter	Type	Description
smn_response_code	String	HTTP status code returned after the SMN service is invoked. Minimum: 3 Maximum: 3
smn_topic	String	SMN topic. Minimum: 1 Maximum: 100

Table 4-46 SmnInfo

Parameter	Type	Description
smn_notified_content	String	SMN message content. Minimum: 1 Maximum: 9999999
smn_subscription_status	String	SMN subscription status. Minimum: 1 Maximum: 1
smn_subscription_type	String	SMN subscription type. Minimum: 1 Maximum: 100

Status code: 400

Table 4-47 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Status code: 401

Table 4-48 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-49 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-50 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Obtain the sending result of the alarm whose serial number is 1044686593798963201.

https://{{Endpoint}}/v2/{{project_id}}/alarm-notified-histories?event_sn=1044686593798963201

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "notified_histories": [ {
    "event_sn": "1044686593798963201",
    "notifications": [ {
      "action_rule": "lhy_alarm_action_test01",
      "notifier_channel": "SMN",
      "smn_channel": {
        "sent_time": 1669114269797,
        "smn_notified_history": [ {
          "smn_notified_content": "<style> span { display: inline-block; float: left; font-size: 14px; } b { display: inline-block; float: left; color: #252B3A; font-size: 14px }</style><table border='0' cellpadding='0' cellspacing='0' style='font-family:HuaweiFont,Helvetica,Arial,PingFangSC-Regular,Hiragino Sans GB;border-spacing:0px 14px;font-size:14px;padding-left: 30px;line-height:25px;'> <thead> <tr style='font-size:14px;'> <td colspan='2' style='line-height:28px;color:#6e6e6e;font-size:14px;'> <b>Dear </b>
<b>users</b> <b>&ampnbsp</b> </td> </tr> </thead> <tr> <td colspan='2' style='line-height:28px;color:#6e6e6e;font-size:14px;'> <b>generated</b> <span>&ampnbspin region ***</span> <b>&ampnbspbased on action rule lhy_alarm_action_test01.</b> <span></span>
<span><span>The alarm rule is&ampnbsp</span><span>. For more information, go to the AOM console.</span>
<span> <br> <br> </td> </tr> <tr style='font-size:14px;'> <td colspan='2' style='margin-bottom: -20px; margin-top: -26px;'> <span style='color:#252B3A;line-height:24px;'>Here are the details.</span> </td> </tr>
<td><div>Account: kaifatest;<br>Notification Type: alarm;<br>CAS Application Name: app-1;<br>Severity: Critical;<br>Name: lhy_test_001;<br>Occurred: 2022-11-22 18:51:05 GMT+08:00;<br>Source: AOM;<br>Resource Type: Application;<br>Resource Identifier: <br>&nbsp;&nbsp;casApplicationID: 2d216a2b-9a58-452e-9a82-fc0c7cbcd322;<br>&nbsp;&nbsp;casApplicationName: app-1;<br>Possible Cause: If the specified metric value crosses the threshold and the alarm severity is \\"critical\\\", an alarm is triggered.;<br>Link: https://console.xxx/aom/alarmlist;<br>Additional Info: The threshold rule lhy_test_001 status changes from \\"init\\"

```

```
" to \\\"alarm\\\". The value of \\\"cpuCoreLimit\\\" is \\\"0.250\\\" and meets the threshold criterion \\\">=0\\\".  
<br>Suggestion: NA;  
<br><div/></td> </table>,  
    "smn_subscription_status" : 1,  
    "smn_subscription_type" : "email"  
}, {  
    "smn_notified_content" : "[AOM][Critical_alarm_generated] \nAlert Name: lhy_test_001;\nCAS Application Name: app-1;\nOccurrence Time: 2022-11-22 18:51:05 GMT+08:00;\nLink: https://console.xxx/aom/alarmlist;\nAlert Content: The threshold rule lhy_test_001 status changes from \"init\" to \"alarm\". The value of \"cpuCoreLimit\" is \"0.250\" and meets the threshold criterion \">=0\".;\nThis message is configured in an AOM alarm rule by kaifatest. For more information, go to the AOM console.\",  
    "smn_subscription_status" : 0,  
    "smn_subscription_type" : "sms"  
}, {  

```

Status code: 400

Bad Request: Invalid request. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.08003001",  
    "error_msg" : "bad request",  
    "trace_id" : ""  
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
    "error_code" : "SVCSTG.AMS.2000051",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0403",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code": "AOM.08001002",  
    "error_msg": "SC_INTERNAL_SERVER_ERROR",  
    "trace_id": ""  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: Invalid request. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.6 Deleting a Silence Rule

Function

This API is used to delete a silence rule.

Calling Method

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

URI

DELETE /v2/{project_id}/alert/mute-rules

Table 4-51 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-52 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-53 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of DeleteMuteRuleName objects	Name of the rule to be deleted.

Table 4-54 DeleteMuteRuleName

Parameter	Mandatory	Type	Description
name	Yes	String	Name of the silence rule to be deleted. Minimum: 1 Maximum: 100

Response Parameters

Status code: 400

Table 4-55 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13

Parameter	Type	Description
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Status code: 401

Table 4-56 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-57 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024

Parameter	Type	Description
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-58 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Delete silent rule "1112222".

```
https://{{Endpoint}}/v2/{{project_id}}/alert/mute-rules
```

```
[ {
  "name" : "1112222"
}]
```

Example Responses

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
  "error_code" : "AOM.08003001",
  "error_msg" : "bad request",
  "trace_id" : ""
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
    "error_code" : "SVCSTG.AMS.2000051",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0403",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code" : "AOM.08003500",  
    "error_message" : "SC_INTERNAL_SERVER_ERROR",  
    "trace_id" : ""  
}
```

Status Codes

Status Code	Description
204	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.7 Adding a Silence Rule

Function

This API is used to add a silence rule.

Calling Method

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

URI

POST /v2/{project_id}/alert/mute-rules

Table 4-59 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-60 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-61 Request body parameters

Parameter	Mandatory	Type	Description
create_time	No	Long	Creation time. Minimum: 0 Maximum: 99999999999999
desc	No	String	Rule description. Minimum: 0 Maximum: 1024
match	Yes	Array<Array< Match >>	Match condition of the rule. Up to 10 serial or parallel conditions can be created. Array Length: 1 - 10
mute_config	Yes	MuteConfig object	Time when the rule takes effect.
name	Yes	String	Rule name. Enter a maximum of 100 characters and do not start or end with an underscore (_). Only letters, digits, and underscores are allowed. Minimum: 1 Maximum: 100
timezone	Yes	String	Time zone. Minimum: 1 Maximum: 32
update_time	No	Long	Modification time. Minimum: 0 Maximum: 99999999999999
user_id	No	String	User ID. Minimum: 32 Maximum: 32

Table 4-62 Match

Parameter	Mandatory	Type	Description
key	Yes	String	Key specified in the metadata for matching. Minimum: 1 Maximum: 128

Parameter	Mandatory	Type	Description
operate	Yes	String	<p>Match mode. EXIST: Exist. REGEX: Regular expression. EQUALS: Equal to.</p> <p>Minimum: 1 Maximum: 100 Enumeration values:</p> <ul style="list-style-type: none"> • EQUALS • REGEX • EXIST
value	No	Array of strings	<p>Value corresponding to the key. If operate is set to EXIST, this parameter is left empty.</p> <p>Minimum: 1 Maximum: 256 Array Length: 0 - 5</p>

Table 4-63 MuteConfig

Parameter	Mandatory	Type	Description
ends_at	No	Long	<p>End time of the silence rule. Minimum: 0 Maximum: 999999999</p>
scope	No	Array of integers	<p>When type is set to WEEKLY or MONTHLY, scope cannot be empty. Minimum: 0 Maximum: 31 Array Length: 1 - 100</p>
starts_at	Yes	Long	<p>Start time of the silence rule. Minimum: 0 Maximum: 999999999</p>

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Type of the time for the silence rule to take effect. FIXED: Fixed time. DAILY: Certain time every day. WEEKLY: Certain time every week. MONTHLY: Certain time every month.</p> <p>Minimum: 1 Maximum: 100 Enumeration values:</p> <ul style="list-style-type: none"> • FIXED • DAILY • WEEKLY • MONTHLY

Response Parameters

Status code: 400

Table 4-64 Response body parameters

Parameter	Type	Description
error_code	String	<p>Response code. Minimum: 13 Maximum: 13</p>
error_msg	String	<p>Response message. Minimum: 1 Maximum: 100</p>
trace_id	String	<p>Response ID. Minimum: 12 Maximum: 12</p>

Status code: 401

Table 4-65 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-66 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-67 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Add a silence rule whose name is "32255" and user ID is "xxxxxxxxxxxxxxxxxxxxxxcf".

[https://\[Endpoint\]/v2/\[project_id\]/alert/mute-rules](https://[Endpoint]/v2/[project_id]/alert/mute-rules)

```
{
  "create_time": 1668147671966,
  "desc": "",
  "match": [ [ {
    "key": "event_severity",
    "operate": "EQUALS",
    "value": [ "Info" ]
  } ],
  "mute_config": {
    "ends_at": 86399,
    "scope": [ ],
    "starts_at": 0,
    "type": "DAILY"
  },
  "name": "32255",
  "timezone": "xxx",
  "update_time": 1668147671966,
  "user_id": "xxxxxxxxxxxxxxxxxxxxxxcf"
}
```

Example Responses

Status code: 400

Bad Request: Invalid request. The client should not repeat the request without modifications.

```
{
  "error_code": "AOM.08002001",
  "error_msg": "bad request",
  "trace_id": ""
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
    "error_code" : "SVCSTG.AMS.2000051",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0403",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code" : "AOM.08002500",  
    "error_msg" : "SC_INTERNAL_SERVER_ERROR",  
    "trace_id" : ""  
}
```

Status Codes

Status Code	Description
204	OK: Operation successful.
400	Bad Request: Invalid request. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.8 Modifying a Silence Rule

Function

This API is used to modify a silence rule.

Calling Method

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

URI

PUT /v2/{project_id}/alert/mute-rules

Table 4-68 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-69 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-70 Request body parameters

Parameter	Mandatory	Type	Description
create_time	No	Long	Creation time. Minimum: 0 Maximum: 99999999999999
desc	No	String	Rule description. Minimum: 0 Maximum: 1024

Parameter	Mandatory	Type	Description
match	Yes	Array<Array< Match >>	Match condition of the rule. Up to 10 serial or parallel conditions can be created. Array Length: 1 - 10
mute_config	Yes	MuteConfig object	Time when the rule takes effect.
name	Yes	String	Rule name. Enter a maximum of 100 characters and do not start or end with an underscore (_). Only letters, digits, and underscores are allowed. Minimum: 1 Maximum: 100
timezone	Yes	String	Time zone. Minimum: 1 Maximum: 32
update_time	No	Long	Modification time. Minimum: 0 Maximum: 99999999999999
user_id	No	String	User ID. Minimum: 32 Maximum: 32

Table 4-71 Match

Parameter	Mandatory	Type	Description
key	Yes	String	Key specified in the metadata for matching. Minimum: 1 Maximum: 128

Parameter	Mandatory	Type	Description
operate	Yes	String	<p>Match mode. EXIST: Exist. REGEX: Regular expression. EQUALS: Equal to.</p> <p>Minimum: 1 Maximum: 100 Enumeration values:</p> <ul style="list-style-type: none"> • EQUALS • REGEX • EXIST
value	No	Array of strings	<p>Value corresponding to the key. If operate is set to EXIST, this parameter is left empty.</p> <p>Minimum: 1 Maximum: 256 Array Length: 0 - 5</p>

Table 4-72 MuteConfig

Parameter	Mandatory	Type	Description
ends_at	No	Long	<p>End time of the silence rule. Minimum: 0 Maximum: 999999999</p>
scope	No	Array of integers	<p>When type is set to WEEKLY or MONTHLY, scope cannot be empty. Minimum: 0 Maximum: 31 Array Length: 1 - 100</p>
starts_at	Yes	Long	<p>Start time of the silence rule. Minimum: 0 Maximum: 999999999</p>

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Type of the time for the silence rule to take effect. FIXED: Fixed time. DAILY: Certain time every day. WEEKLY: Certain time every week. MONTHLY: Certain time every month.</p> <p>Minimum: 1 Maximum: 100 Enumeration values:</p> <ul style="list-style-type: none"> • FIXED • DAILY • WEEKLY • MONTHLY

Response Parameters

Status code: 400

Table 4-73 Response body parameters

Parameter	Type	Description
error_code	String	<p>Response code. Minimum: 13 Maximum: 13</p>
error_msg	String	<p>Response message. Minimum: 1 Maximum: 100</p>
trace_id	String	<p>Response ID. Minimum: 12 Maximum: 12</p>

Status code: 401

Table 4-74 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-75 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-76 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Modify a silence rule whose name is "32255", time zone is "xxx", and user ID is "xxxxxxxxxxxxxxxxxxxxxxxxxxxxcf".

`https://{endpoint}/v2/{project_id}/alert/mute-rules`

```
{
  "create_time": 1668147671966,
  "desc": "",
  "match": [ [ {
    "key": "event_severity",
    "operate": "EQUALS",
    "value": [ "Info" ]
  } ],
  "mute_config": {
    "ends_at": 86399,
    "scope": [ ],
    "starts_at": 0,
    "type": "DAILY"
  },
  "name": "32255",
  "timezone": "xxx",
  "update_time": 1668147671966,
  "user_id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxcf"
}
```

Example Responses

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
  "error_code": "AOM.08004001",
  "error_msg": "bad request",
  "trace_id": ""
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
    "error_code" : "SVCSTG.AMS.2000051",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0403",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code" : "AOM.08004500",  
    "error_msg" : "SC_INTERNAL_SERVER_ERROR",  
    "trace_id" : ""  
}
```

Status Codes

Status Code	Description
204	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.9 Obtaining the Silence Rule List

Function

This API is used to obtain the silence rule list.

Calling Method

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

URI

GET /v2/{project_id}/alert/mute-rules

Table 4-77 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-78 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Response Parameters

Status code: 200

Table 4-79 Response body parameters

Parameter	Type	Description
[items]	Array of MuteRule objects	OK: The request is successful.

Table 4-80 MuteRule

Parameter	Type	Description
create_time	Long	Creation time. Minimum: 0 Maximum: 9999999999999
desc	String	Rule description. Minimum: 0 Maximum: 1024
match	Array<Array< Match >>	Match condition of the rule. Up to 10 serial or parallel conditions can be created. Array Length: 1 - 10
mute_config	MuteConfig object	Time when the rule takes effect.
name	String	Rule name. Enter a maximum of 100 characters and do not start or end with an underscore (_). Only letters, digits, and underscores are allowed. Minimum: 1 Maximum: 100
timezone	String	Time zone. Minimum: 1 Maximum: 32
update_time	Long	Modification time. Minimum: 0 Maximum: 9999999999999
user_id	String	User ID. Minimum: 32 Maximum: 32

Table 4-81 Match

Parameter	Type	Description
key	String	Key specified in the metadata for matching. Minimum: 1 Maximum: 128

Parameter	Type	Description
operate	String	<p>Match mode. EXIST: Exist. REGEX: Regular expression. EQUALS: Equal to.</p> <p>Minimum: 1</p> <p>Maximum: 100</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • EQUALS • REGEX • EXIST
value	Array of strings	<p>Value corresponding to the key. If operate is set to EXIST, this parameter is left empty.</p> <p>Minimum: 1</p> <p>Maximum: 256</p> <p>Array Length: 0 - 5</p>

Table 4-82 MuteConfig

Parameter	Type	Description
ends_at	Long	<p>End time of the silence rule.</p> <p>Minimum: 0</p> <p>Maximum: 999999999</p>
scope	Array of integers	<p>When type is set to WEEKLY or MONTHLY, scope cannot be empty.</p> <p>Minimum: 0</p> <p>Maximum: 31</p> <p>Array Length: 1 - 100</p>
starts_at	Long	<p>Start time of the silence rule.</p> <p>Minimum: 0</p> <p>Maximum: 999999999</p>

Parameter	Type	Description
type	String	<p>Type of the time for the silence rule to take effect. FIXED: Fixed time. DAILY: Certain time every day. WEEKLY: Certain time every week. MONTHLY: Certain time every month.</p> <p>Minimum: 1</p> <p>Maximum: 100</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • FIXED • DAILY • WEEKLY • MONTHLY

Status code: 400

Table 4-83 Response body parameters

Parameter	Type	Description
error_code	String	<p>Response code.</p> <p>Minimum: 13</p> <p>Maximum: 13</p>
error_msg	String	<p>Response message.</p> <p>Minimum: 1</p> <p>Maximum: 100</p>
trace_id	String	<p>Response ID.</p> <p>Minimum: 12</p> <p>Maximum: 12</p>

Status code: 401

Table 4-84 Response body parameters

Parameter	Type	Description
error_code	String	<p>Error code.</p> <p>Minimum: 12</p> <p>Maximum: 12</p>

Parameter	Type	Description
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-85 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-86 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13

Parameter	Type	Description
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Obtain the silence rule list.

https://{{Endpoint}}/v2/{{project_id}}/alert/mute-rules

Example Responses

Status code: 200

OK: The request is successful.

```
[ {
  "create_time": 1668147671966,
  "desc": "",
  "match": [ [ {
    "key": "event_severity",
    "operate": "EQUALS",
    "value": [ "Info" ]
  } ],
  "mute_config": {
    "ends_at": 86399,
    "scope": [],
    "starts_at": 0,
    "type": "DAILY"
  },
  "name": "32255",
  "timezone": "xxx",
  "update_time": 1668147671966,
  "user_id": "2a473356cca5487f8373be891bffc1cf"
} ]
```

Status code: 400

Bad Request: Invalid request. The client should not repeat the request without modifications.

```
{
  "error_code": "AOM.08005001",
  "error_msg": "bad request",
  "trace_id": ""
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{
  "error_code": "SVCSTG.AMS.2000051",
  "error_msg": "auth failed."
```

```
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0403",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code" : "AOM.08005500",  
    "error_msg" : "SC_INTERNAL_SERVER_ERROR",  
    "trace_id" : ""  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: Invalid request. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.10 Querying an Alarm Action Rule Based on Rule Name

Function

This API is used to query an alarm action rule based on the rule name.

Calling Method

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

URI

GET /v2/{project_id}/alert/action-rules/{rule_name}

Table 4-87 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32
rule_name	Yes	String	Alarm rule name. Minimum: 1 Maximum: 100

Request Parameters

Table 4-88 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Response Parameters

Status code: 200

Table 4-89 Response body parameters

Parameter	Type	Description
rule_name	String	Rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, and underscores (_) are allowed. Minimum: 1 Maximum: 100
project_id	String	Project ID. Minimum: 32 Maximum: 32
user_name	String	Member account name. Minimum: 1 Maximum: 100
desc	String	Rule description. Enter a maximum of 1024 characters and do not start or end with an underscore (_). Only digits, letters, underscores (_), asterisk (*), and spaces are allowed. Minimum: 0 Maximum: 1024
type	String	Action type. Default: Notification. Minimum: 1 Maximum: 1 Enumeration values: <ul style="list-style-type: none">• 1• 2
notification_template	String	Message template. Minimum: 1 Maximum: 100
create_time	Long	Creation time. Minimum: 0 Maximum: 99999999999999
update_time	Long	Modification time Minimum: 0 Maximum: 99999999999999
time_zone	String	Time zone. Minimum: 1 Maximum: 100

Parameter	Type	Description
smn_topics	Array of SmnTopics objects	SMN topic. The total number of topics cannot exceed 5. Array Length: 1 - 5

Table 4-90 SmnTopics

Parameter	Type	Description
display_name	String	Topic display name, which will be the name of an email sender. Max.: 192 bytes. This parameter is left blank by default. Minimum: 1 Maximum: 64
name	String	Name of the topic. Enter 1 to 255 characters starting with a letter or digit. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum: 1 Maximum: 255
push_policy	Integer	SMN message push policy. Options: 0 and 1. Minimum: 0 Maximum: 1
status	Integer	Status of the topic subscriber. 0: The topic has been deleted or the subscription list of this topic is empty. 1: The subscription object is in the subscribed state. 2: The subscription object is in the unsubscribed or canceled state. Enumeration values: <ul style="list-style-type: none">• 0• 1• 2
topic_urn	String	Unique resource identifier of the topic. Minimum: 1 Maximum: 100

Status code: 400

Table 4-91 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Status code: 401

Table 4-92 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-93 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-94 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Query the details of the alarm action rule named 1112222.

`https://{{Endpoint}}/v2/{{project_id}}/alert/action-rules/1112222`

Example Responses

Status code: 200

OK: The request is successful.

```
{  
    "create_time": 1665991889597,  
    "notification_template": "aom.built-in.template.zh",  
    "project_id": "2xxxxxxxxxxxxxxxxxxxxxxf",  
    "rule_name": "1112222",  
    "smn_topics": [ {  
        "display_name": "",  
        "name": "gxxxxxt",  
        "push_policy": 0,  
        "status": 0,  
        "topic_urn": "urn:smn:xxx:2xxxxxxxxxxxxxxxxxxxxxxf:gxxxxxt"  
    } ],  
    "time_zone": "xxx",  
    "type": "1",  
    "update_time": 1665991889597,  
    "user_name": "kxxxxxxxt"  
}
```

Status code: 400

Bad Request: Invalid request. The client should not repeat the request without modifications.

```
{  
    "error_code": "AOM.08001001",  
    "error_msg": "bad request",  
    "trace_id": ""  
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
    "error_code": "SVCSTG.AMS.2000051",  
    "error_msg": "auth failed.",  
    "error_type": "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code": "AOM.0403",  
    "error_msg": "auth failed.",  
    "error_type": "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code": "AOM.08001500",  
    "error_msg": "SC_INTERNAL_SERVER_ERROR",  
    "trace_id": ""  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: Invalid request. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.11 Adding an Alarm Action Rule

Function

This API is used to add an alarm action rule.

Calling Method

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

URI

POST /v2/{project_id}/alert/action-rules

Table 4-95 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-96 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: • application/json

Table 4-97 Request body parameters

Parameter	Mandatory	Type	Description
rule_name	Yes	String	Rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, and underscores (_) are allowed. Minimum: 1 Maximum: 100
project_id	Yes	String	Project ID. Minimum: 32 Maximum: 32
user_name	Yes	String	Member account name. Minimum: 1 Maximum: 100
desc	No	String	Rule description. Enter a maximum of 1024 characters and do not start or end with an underscore (_). Only digits, letters, underscores (_), asterisk (*), and spaces are allowed. Minimum: 0 Maximum: 1024

Parameter	Mandatory	Type	Description
type	Yes	String	Action type. Default: Notification. Minimum: 1 Maximum: 1 Enumeration values: <ul style="list-style-type: none">• 1• 2
notification_template	Yes	String	Message template. Minimum: 1 Maximum: 100
create_time	No	Long	Creation time. Minimum: 0 Maximum: 99999999999999
update_time	No	Long	Modification time Minimum: 0 Maximum: 99999999999999
time_zone	No	String	Time zone. Minimum: 1 Maximum: 100
smn_topics	Yes	Array of SmnTopics objects	SMN topic. The total number of topics cannot exceed 5. Array Length: 1 - 5

Table 4-98 SmnTopics

Parameter	Mandatory	Type	Description
display_name	No	String	Topic display name, which will be the name of an email sender. Max.: 192 bytes. This parameter is left blank by default. Minimum: 1 Maximum: 64

Parameter	Mandatory	Type	Description
name	Yes	String	Name of the topic. Enter 1 to 255 characters starting with a letter or digit. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum: 1 Maximum: 255
push_policy	Yes	Integer	SMN message push policy. Options: 0 and 1. Minimum: 0 Maximum: 1
status	No	Integer	Status of the topic subscriber. 0: The topic has been deleted or the subscription list of this topic is empty. 1: The subscription object is in the subscribed state. 2: The subscription object is in the unsubscribed or canceled state. Enumeration values: <ul style="list-style-type: none">• 0• 1• 2
topic_urn	Yes	String	Unique resource identifier of the topic. Minimum: 1 Maximum: 100

Response Parameters

Status code: 400

Table 4-99 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13

Parameter	Type	Description
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Status code: 401

Table 4-100 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-101 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024

Parameter	Type	Description
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-102 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Add an alarm action rule whose name is "66666", username is "kxxxxxxxxt", user ID is "21xxxxxxxxxxxxxx47c", and notification template is "aom.built-in.template.en".

```
https://{{Endpoint}}/v2/{{project_id}}/alert/action-rules
{
  "desc" : "1111",
  "notification_template" : "aom.built-in.template.zh",
  "project_id" : "21xxxxxxxxxxxxxx47c",
  "rule_name" : "66666",
  "smn_topics" : [ {
    "display_name" : "",
    "name" : "xiaohama",
    "push_policy" : 0,
    "status" : 0,
    "topic_urn" : "urn:smn:xxx:21xxxxxxxxxxxxxx47c:xiaohama"
  }],
  "type" : "1",
  "user_name" : "kxxxxxxxxt",
  "time_zone" : "xxx"
}
```

Example Responses

Status code: 400

Bad Request: Invalid request. The client should not repeat the request without modifications.

```
{  
  "error_code" : "AOM.08002001",  
  "error_msg" : "bad request",  
  "trace_id" : ""  
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
  "error_code" : "SVCSTG.AMS.2000051",  
  "error_msg" : "auth failed.",  
  "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
  "error_code" : "AOM.0403",  
  "error_msg" : "auth failed.",  
  "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
  "error_code" : "AOM.08002500",  
  "error_msg" : "SC_INTERNAL_SERVER_ERROR",  
  "trace_id" : ""  
}
```

Status Codes

Status Code	Description
200	OK: Operation successful.
400	Bad Request: Invalid request. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

Status Code	Description
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.12 Deleting an Alarm Action Rule

Function

This API is used to delete an alarm action rule.

Calling Method

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

URI

DELETE /v2/{project_id}/alert/action-rules

Table 4-103 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-104 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none"> • application/json

Table 4-105 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of strings	Name of the rule to be deleted.

Response Parameters

Status code: 400

Table 4-106 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Status code: 401

Table 4-107 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12

Parameter	Type	Description
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-108 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-109 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13

Parameter	Type	Description
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Delete alarm action rule 1112222.

```
https://{{Endpoint}}/v2/{{project_id}}/alert/action-rules  
[ "1112222" ]
```

Example Responses

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
  "error_code" : "AOM.08003001",  
  "error_msg" : "bad request",  
  "trace_id" : ""  
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
  "error_code" : "SVCSTG.AMS.2000051",  
  "error_msg" : "auth failed.",  
  "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
  "error_code" : "AOM.0403",  
  "error_msg" : "auth failed.",  
  "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
  "error_code" : "AOM.08003500",  
}
```

```
"error_msg" : "SC_INTERNAL_SERVER_ERROR",
"trace_id" : ""
}
```

Status Codes

Status Code	Description
204	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.13 Modifying an Alarm Action Rule

Function

This API is used to modify an alarm action rule.

Calling Method

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

URI

PUT /v2/{project_id}/alert/action-rules

Table 4-110 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-111 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: • application/json

Table 4-112 Request body parameters

Parameter	Mandatory	Type	Description
rule_name	Yes	String	Rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, and underscores (_) are allowed. Minimum: 1 Maximum: 100
project_id	Yes	String	Project ID. Minimum: 32 Maximum: 32
user_name	Yes	String	Member account name. Minimum: 1 Maximum: 100
desc	No	String	Rule description. Enter a maximum of 1024 characters and do not start or end with an underscore (_). Only digits, letters, underscores (_), asterisk (*), and spaces are allowed. Minimum: 0 Maximum: 1024

Parameter	Mandatory	Type	Description
type	Yes	String	Action type. Default: Notification. Minimum: 1 Maximum: 1 Enumeration values: <ul style="list-style-type: none">• 1• 2
notification_template	Yes	String	Message template. Minimum: 1 Maximum: 100
create_time	No	Long	Creation time. Minimum: 0 Maximum: 99999999999999
update_time	No	Long	Modification time Minimum: 0 Maximum: 99999999999999
time_zone	No	String	Time zone. Minimum: 1 Maximum: 100
smn_topics	Yes	Array of SmnTopics objects	SMN topic. The total number of topics cannot exceed 5. Array Length: 1 - 5

Table 4-113 SmnTopics

Parameter	Mandatory	Type	Description
display_name	No	String	Topic display name, which will be the name of an email sender. Max.: 192 bytes. This parameter is left blank by default. Minimum: 1 Maximum: 64

Parameter	Mandatory	Type	Description
name	Yes	String	Name of the topic. Enter 1 to 255 characters starting with a letter or digit. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum: 1 Maximum: 255
push_policy	Yes	Integer	SMN message push policy. Options: 0 and 1. Minimum: 0 Maximum: 1
status	No	Integer	Status of the topic subscriber. 0: The topic has been deleted or the subscription list of this topic is empty. 1: The subscription object is in the subscribed state. 2: The subscription object is in the unsubscribed or canceled state. Enumeration values: <ul style="list-style-type: none">• 0• 1• 2
topic_urn	Yes	String	Unique resource identifier of the topic. Minimum: 1 Maximum: 100

Response Parameters

Status code: 400

Table 4-114 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13

Parameter	Type	Description
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Status code: 401

Table 4-115 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-116 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024

Parameter	Type	Description
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-117 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Modify the alarm action rule whose name is "lhy_test01" and user ID is "2xxxxxxxxxxxxxxcf".

https://{{endpoint}}/v2/{{project_id}}/alert/action-rules

```
{
  "project_id" : "2xxxxxxxxxxxxxxcf",
  "rule_name" : "222",
  "desc" : "222",
  "type" : "1",
  "smn_topics" : [ {
    "display_name" : "",
    "name" : "lhy_test01",
    "push_policy" : 0,
    "topic_urn" : "urn:smn:xxx:2xxxxxxxxxxxxxxcf:lhy_test01"
  }],
  "user_name" : "kxxxxxxxxt",
  "notification_template" : "aom.built-in.template.zh",
  "time_zone" : "xxx",
  "create_time" : 1667316727451,
  "update_time" : 1667316727451
}
```

Example Responses

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
  "error_code" : "AOM.08004001",  
  "error_msg" : "bad request",  
  "trace_id" : ""  
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
  "error_code" : "SVCSTG.AMS.2000051",  
  "error_msg" : "auth failed.",  
  "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
  "error_code" : "AOM.0403",  
  "error_msg" : "auth failed.",  
  "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error

The server is able to receive the request but unable to understand the request.

```
{  
  "error_code" : "AOM.08004500",  
  "error_msg" : "SC_INTERNAL_SERVER_ERROR",  
  "trace_id" : ""  
}
```

Status Codes

Status Code	Description
204	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

Status Code	Description
500	Internal Server Error The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.14 Querying the Alarm Action Rule List

Function

This API is used to query the alarm action rule list.

Calling Method

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

URI

GET /v2/{project_id}/alert/action-rules

Table 4-118 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters. Minimum: 32 Maximum: 32

Request Parameters

Table 4-119 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1 Maximum: 40960

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none"> • application/json

Response Parameters

Status code: 200

Table 4-120 Response body parameters

Parameter	Type	Description
action_rules	Array of ActionRule objects	Alarm action rule list. Array Length: 0 - 1000

Table 4-121 ActionRule

Parameter	Type	Description
rule_name	String	Rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, and underscores (_) are allowed. Minimum: 1 Maximum: 100
project_id	String	Project ID. Minimum: 32 Maximum: 32
user_name	String	Member account name. Minimum: 1 Maximum: 100
desc	String	Rule description. Enter a maximum of 1024 characters and do not start or end with an underscore (_). Only digits, letters, underscores (_), asterisk (*), and spaces are allowed. Minimum: 0 Maximum: 1024

Parameter	Type	Description
type	String	Action type. Default: Notification. Minimum: 1 Maximum: 1 Enumeration values: <ul style="list-style-type: none">• 1• 2
notification_template	String	Message template. Minimum: 1 Maximum: 100
create_time	Long	Creation time. Minimum: 0 Maximum: 9999999999999
update_time	Long	Modification time Minimum: 0 Maximum: 9999999999999
time_zone	String	Time zone. Minimum: 1 Maximum: 100
smn_topics	Array of SmnTopics objects	SMN topic. The total number of topics cannot exceed 5. Array Length: 1 - 5

Table 4-122 SmnTopics

Parameter	Type	Description
display_name	String	Topic display name, which will be the name of an email sender. Max.: 192 bytes. This parameter is left blank by default. Minimum: 1 Maximum: 64
name	String	Name of the topic. Enter 1 to 255 characters starting with a letter or digit. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum: 1 Maximum: 255

Parameter	Type	Description
push_policy	Integer	SMN message push policy. Options: 0 and 1. Minimum: 0 Maximum: 1
status	Integer	Status of the topic subscriber. 0: The topic has been deleted or the subscription list of this topic is empty. 1: The subscription object is in the subscribed state. 2: The subscription object is in the unsubscribed or canceled state. Enumeration values: <ul style="list-style-type: none">• 0• 1• 2
topic_urn	String	Unique resource identifier of the topic. Minimum: 1 Maximum: 100

Status code: 400

Table 4-123 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Status code: 401

Table 4-124 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 403

Table 4-125 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 12 Maximum: 12
error_msg	String	Error message. Minimum: 0 Maximum: 1024
error_type	String	Error type. Minimum: 0 Maximum: 128
trace_id	String	Request ID. Minimum: 32 Maximum: 32

Status code: 500

Table 4-126 Response body parameters

Parameter	Type	Description
error_code	String	Response code. Minimum: 13 Maximum: 13
error_msg	String	Response message. Minimum: 1 Maximum: 100
trace_id	String	Response ID. Minimum: 12 Maximum: 12

Example Requests

Query all alarm action rules.

https://{{Endpoint}}/v2/{{project_id}}/alert/action-rules

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "action_rules" : [ {
    "create_time" : 1665991889597,
    "notification_template" : "aom.built-in.template.zh",
    "project_id" : "xxxxxxxxxxxxxxxxxxxxxx",
    "rule_name" : "1112222",
    "smn_topics" : [ {
      "display_name" : "",
      "name" : "gcmtest",
      "push_policy" : 0,
      "status" : 0,
      "topic_urn" : "urn:smn:xxx:xxxxxxxxxxxxxxxxxxxxf:gcmtest"
    }],
    "time_zone" : "xxx",
    "type" : "1",
    "update_time" : 1665991889597,
    "user_name" : "kxxxxxt"
  }]
}
```

Status code: 400

Bad Request: Invalid request. The client should not repeat the request without modifications.

```
{
  "error_code" : "AOM.08005001",
  "error_msg" : "bad request",
  "trace_id" : ""
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{  
    "error_code" : "SVCSTG.AMS.2000051",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0403",  
    "error_msg" : "auth failed.",  
    "error_type" : "AUTH_FAILED"  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
    "error_code" : "AOM.08005500",  
    "error_msg" : "SC_INTERNAL_SERVER_ERROR",  
    "trace_id" : ""  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: Invalid request. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

4.1.15 Querying Events and Alarms

Function

This API is used to query events and alarms of a user.

Calling Method

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

URI

POST /v2/{project_id}/events

Table 4-127 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-128 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Type of information to be queried. active_alert: Active alarms are to be queried. history_alert: Historical alarms are to be queried. If this parameter is not transferred or other values are transferred, information that meets the specified search criteria will be returned. Enumeration values: <ul style="list-style-type: none">• history_alert• active_alert

Request Parameters

Table 4-129 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-130 Request body parameters

Parameter	Mandatory	Type	Description
time_range	Yes	String	<p>Time range specified to query data of the last N minutes when the client time is inconsistent with the server time. It can also be used to accurately query the data of a specified period.</p> <p>Example:</p> <ul style="list-style-type: none"> • -1.-1.60: indicates that the data of the latest 60 minutes is queried. This query is based on the server time regardless of the current client time. • 1650852000000.165085230000.5: indicates the five minutes from 10:00:00 to 10:05:00 on April 25, 2022 GMT+08:00. <p>Format:</p> <p>startTimeInMillis.endTimeInMillis.durationInMinutes</p> <p>Parameter description:</p> <ul style="list-style-type: none"> • startTimeInMillis: Start time of the query, in milliseconds. If this parameter is set to -1, the server calculates the start time as follows: endTimeInMillis – durationInMinutes x 60 x 1000. For example, -1.1650852300000.5 is equivalent to 1650852000000.165085230000.5. • endTimeInMillis: End time of the query, in milliseconds. If this parameter is set to -1, the server calculates the end time as follows: startTimeInMillis + durationInMinutes x 60 x 1000. If the calculated end time is later than the

Parameter	Mandatory	Type	Description
			<p>current system time, the current system time is used. For example, 1650852000000.-1.5 is equivalent to 1650852000000.165085230000.5.</p> <ul style="list-style-type: none"> durationInMinutes: Time span, in minutes. The value must be greater than 0 and greater than or equal to the result of "(endTimeInMillis – startTimeInMillis)/(60 x 1000) – 1". If both the start time and end time are set to -1, the system sets the end time to the current UTC time (in milliseconds) and calculates the start time as follows: endTimeInMillis – durationInMinutes x 60 x 1000. For example, -1.-1.60 indicates the latest 60 minutes. <p>Constraint: In a single request, the following condition must be met: durationInMinutes x 60/period ≤ 1440</p>
step	No	Long	Statistical step (unit: ms). For example, if the statistical step is one minute, set this parameter to 60,000.
search	No	String	Field specified for fuzzy query, which can be left blank. If this field is not left blank, fuzzy query can be performed accordingly. In that case, the metadata field is mandatory.
sort	No	sort object	Sorting order, which can be left blank.
metadata_relation	No	Array of RelationModel objects	Combination of search criteria, which can be left blank.

Table 4-131 sort

Parameter	Mandatory	Type	Description
order_by	No	Array of strings	List of sorted fields. Fields in this list are sorted based on the specified order.
order	No	String	Sorting order. asc: ascending order. desc: descending order. Enumeration values: <ul style="list-style-type: none">• asc• desc

Table 4-132 RelationModel

Parameter	Mandatory	Type	Description
key	No	String	Key specified for query, which corresponds to the key in the metadata.
value	No	Array of strings	Value of the specified key in the search criterion.
relation	No	String	Relationship between search criteria. Values: AND: All criteria must be met. OR: One of the criteria needs to be met. NOT: None of the criteria can be met. Enumeration values: <ul style="list-style-type: none">• AND• OR• NOT

Response Parameters

Status code: 200

Table 4-133 Response body parameters

Parameter	Type	Description
events	Array of EventModel objects	Event or alarm details.

Table 4-134 EventModel

Parameter	Type	Description
starts_at	Long	Time when an event or alarm is generated (CST timestamp precise down to the millisecond).
ends_at	Long	Time when an event or alarm is cleared (CST timestamp precise down to the millisecond). 0: The event or alarm is not deleted.
timeout	Long	Duration (in milliseconds) at which an alarm is automatically cleared. For example, if an alarm needs to be automatically cleared in one minute, set this parameter to 60000. The default value is 3 days (that is, 3 days x 24 hours x 60 minutes x 1000 ms = 4,320,000 ms).
metadata	Map<String,St ring>	Details of an event or alarm. The value is a key-value pair. The following fields are mandatory: <ul style="list-style-type: none"> • event_name: event or alarm name, which is a string. • event_severity: event severity, which is an enumerated value with string elements. Options: Critical, Major, Minor, and Info. • event_type: event type, which is an enumerated value with string elements. Options: event and alarm. • resource_provider: name of a cloud service corresponding to an event, which is a string. • resource_type: type of the resource corresponding to an event, which is a string. • resource_id: resource ID corresponding to an event, which is a string.
annotations	Map<String,O bject>	Additional field for an event or alarm, which can be left blank.
attach_rule	Map<String,O bject>	Reserved field for an event or alarm, which can be left blank.

Parameter	Type	Description
id	String	Event or alarm ID, which is automatically generated by the system.

Status code: 400

Table 4-135 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Status code: 401

Table 4-136 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Status code: 403

Table 4-137 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Status code: 500

Table 4-138 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Status code: 503

Table 4-139 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Example Requests

Query the events and alarms of a specified user.

```
https://{{endpoint}}/v2/{{project_id}}/events

{
  "time_range" : "-1..1.30",
  "metadata_relation" : [ {
    "key" : "event_type",
    "relation" : "AND",
    "value" : [ "alarm" ]
  }, {
    "key" : "event_severity",
    "relation" : "AND",
    "value" : [ "Critical", "Major", "Minor", "Info" ]
  }],
  "search" : "",
  "sort" : {
    "order_by" : [ "starts_at" ],
    "order" : "desc"
  }
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "events" : [ {
    "annotations" : {
      "alarm_probableCause_zh_cn" : "Possible Causes",
      "message" : "Alarm Details",
      "alarm_fix_suggestion_zh_cn" : "Suggestions"
    }
  } ]
}
```

```
        },
        "attach_rule" : { },
        "ends_at" : 0,
        "id" : "6775161208461480000",
        "metadata" : {
            "event_type" : "alarm",
            "event_severity" : "Major",
            "resource_type" : "vm",
            "event_name" : "test",
            "resource_id" : "ecs123",
            "resource_provider" : "ecs"
        },
        "starts_at" : 16377362908000,
        "timeout" : 60000
    } ]
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
    "error_code" : "AOM.0400",
    "error_message" : "param error",
    "error_type" : "SC_BAD_REQUEST"
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{
    "error_code" : "AOM.0401",
    "error_message" : "you dont have permission",
    "error_type" : "SC_UNAUTHORIZED"
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{
    "error_code" : "AOM.0403",
    "error_message" : "you dont have permission",
    "error_type" : "SC_FORBIDDEN"
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{
    "error_code" : "AOM.0500",
    "error_message" : "SC_INTERNAL_SERVER_ERROR",
    "error_type" : "SC_INTERNAL_SERVER_ERROR"
}
```

Status code: 503

Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

```
{
    "error_code" : "AOM.0503",
```

```
"error_message" : "SC_NOT_IMPLEMENTED",
"error_type" : "SC_NOT_IMPLEMENTED"
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.1.16 Counting Events and Alarms

Function

This API is used to count events and alarms that meet specified conditions.

Calling Method

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

URI

POST /v2/{project_id}/events/statistic

Table 4-140 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-141 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Type of information to be queried. active_alert: Active alarms are to be queried. history_alert: Historical alarms are to be queried. If this parameter is not transferred or other values are transferred, information that meets the specified search criteria will be returned. Enumeration values: <ul style="list-style-type: none">• history_alert• active_alert

Request Parameters

Table 4-142 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-143 Request body parameters

Parameter	Mandatory	Type	Description
time_range	Yes	String	<p>Time range specified to query data of the last N minutes when the client time is inconsistent with the server time. It can also be used to accurately query the data of a specified period.</p> <p>Example:</p> <ul style="list-style-type: none"> • -1.-1.60: indicates that the data of the latest 60 minutes is queried. This query is based on the server time regardless of the current client time. • 1650852000000.165085230000.5: indicates the five minutes from 10:00:00 to 10:05:00 on April 25, 2022 GMT+08:00. <p>Format:</p> <p>startTimeInMillis.endTimeInMillis.durationInMinutes</p> <p>Parameter description:</p> <ul style="list-style-type: none"> • startTimeInMillis: Start time of the query, in milliseconds. If this parameter is set to -1, the server calculates the start time as follows: endTimeInMillis – durationInMinutes x 60 x 1000. For example, -1.1650852300000.5 is equivalent to 1650852000000.165085230000.5. • endTimeInMillis: End time of the query, in milliseconds. If this parameter is set to -1, the server calculates the end time as follows: startTimeInMillis + durationInMinutes x 60 x 1000. If the calculated end time is later than the

Parameter	Mandatory	Type	Description
			<p>current system time, the current system time is used. For example, 1650852000000.-1.5 is equivalent to 1650852000000.165085230000.5.</p> <ul style="list-style-type: none"> durationInMinutes: Time span, in minutes. The value must be greater than 0 and greater than or equal to the result of "(endTimeInMillis – startTimeInMillis)/(60 x 1000) – 1". If both the start time and end time are set to -1, the system sets the end time to the current UTC time (in milliseconds) and calculates the start time as follows: endTimeInMillis – durationInMinutes x 60 x 1000. For example, -1.-1.60 indicates the latest 60 minutes. <p>Constraint: In a single request, the following condition must be met: durationInMinutes x 60/period ≤ 1440</p>
step	Yes	Long	Statistical step (unit: ms). For example, if the statistical step is one minute, set this parameter to 60,000.
search	No	String	Field specified for fuzzy query, which can be left blank. If this field is not left blank, the system will return metadata's mandatory fields that are fuzzily matched.
sort	No	sort object	Sorting order, which can be left blank.
metadata_relation	No	Array of RelationModel objects	Combination of search criteria, which can be left blank.

Table 4-144 sort

Parameter	Mandatory	Type	Description
order_by	No	Array of strings	List of sorted fields. Fields in this list are sorted based on the specified order.
order	No	String	Sorting order. asc: ascending order. desc: descending order. Enumeration values: <ul style="list-style-type: none">• asc• desc

Table 4-145 RelationModel

Parameter	Mandatory	Type	Description
key	No	String	Key specified for query, which corresponds to the key in the metadata.
value	No	Array of strings	Value of the specified key in the search criterion.
relation	No	String	Relationship between search criteria. Values: AND: All criteria must be met. OR: One of the criteria needs to be met. NOT: None of the criteria can be met. Enumeration values: <ul style="list-style-type: none">• AND• OR• NOT

Response Parameters

Status code: 200

Table 4-146 Response body parameters

Parameter	Type	Description
step	Long	Statistical step (unit: ms). For example, if the statistical step is one minute, set this parameter to 60,000.
timestamps	Array of longs	Time series object corresponding to the statistical result.
series	Array of EventSeries objects	Statistical results of a time series object's different severities of events or alarms.

Table 4-147 EventSeries

Parameter	Type	Description
event_severity	String	Enumerated values of event or alarm severities. Enumeration values: <ul style="list-style-type: none">• Critical• Major• Minor• Info
values	Array of integers	Event or alarm statistical result.

Status code: 400

Table 4-148 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Status code: 401

Table 4-149 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Status code: 403

Table 4-150 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Status code: 500

Table 4-151 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Status code: 503

Table 4-152 Response body parameters

Parameter	Type	Description
error_code	String	Response code.
error_msg	String	Error description.
error_type	String	API call failure type.

Example Requests

Query the events and alarms on the step basis in a specified time range.

```
https://{{endpoint}}/v2/{{project_id}}/events/statistic
{
  "time_range": "-1.-1.5",
  "step": 60000
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "series": [ {
    "event_severity": "Minor",
    "values": [ 0, 0, 0, 0, 0, 0 ]
  }, {
    "event_severity": "Info",
    "values": [ 0, 0, 0, 0, 0, 0 ]
  }],
  "step": 60000,
  "timestamps": [ 1642820700000, 1642820760000, 1642820820000, 1642820880000, 1642820940000,
  1642821000000 ]
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
  "error_code": "AOM.0400",
  "error_message": "param error",
  "error_type": "SC_BAD_REQUEST"
}
```

Status code: 401

Unauthorized: The authentication information is incorrect or invalid.

```
{
  "error_code": "AOM.0401",
  "error_message": "you dont have permission",
  "error_type": "SC_UNAUTHORIZED"
}
```

Status code: 403

Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code": "AOM.0403",
  "error_message": "you dont have permission",
  "error_type": "SC_FORBIDDEN"
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{
  "error_code": "AOM.0500",
  "error_message": "SC_INTERNAL_SERVER_ERROR",
```

```
        "error_type" : "SC_INTERNAL_SERVER_ERROR"  
    }
```

Status code: 503

Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.0503",  
    "error_message" : "SC_NOT_IMPLEMENTED",  
    "error_type" : "SC_NOT_IMPLEMENTED"  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.1.17 Reporting Events and Alarms

Function

This API is used to report events and alarms of a user.

Calling Method

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

URI

PUT /v2/{project_id}/push/events

Table 4-153 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-154 Query Parameters

Parameter	Mandatory	Type	Description
action	No	String	<p>Requested action. clear: The alarm is to be cleared. If this parameter is not transferred or other values are transferred, the alarm is reported by default.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • clear

Request Parameters

Table 4-155 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	<p>Content type, which is application/json.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • application/json
x-enterprise-project-id	No	String	ID of the enterprise project to which the alarm belongs.

Table 4-156 Request body parameters

Parameter	Mandatory	Type	Description
events	Yes	Array of EventModel objects	Event or alarm details.

Table 4-157 EventModel

Parameter	Mandatory	Type	Description
starts_at	No	Long	Time when an event or alarm is generated (CST timestamp precise down to the millisecond).
ends_at	No	Long	Time when an event or alarm is cleared (CST timestamp precise down to the millisecond). 0: The event or alarm is not deleted.
timeout	No	Long	Duration (in milliseconds) at which an alarm is automatically cleared. For example, if an alarm needs to be automatically cleared in one minute, set this parameter to 60000. The default value is 3 days (that is, 3 days x 24 hours x 60 minutes x 1000 ms = 4,320,000 ms).

Parameter	Mandatory	Type	Description
metadata	No	Map<String, String>	<p>Details of an event or alarm. The value is a key-value pair. The following fields are mandatory:</p> <ul style="list-style-type: none"> • event_name: event or alarm name, which is a string. • event_severity: event severity, which is an enumerated value with string elements. Options: Critical, Major, Minor, and Info. • event_type: event type, which is an enumerated value with string elements. Options: event and alarm. • resource_provider: name of a cloud service corresponding to an event, which is a string. • resource_type: type of the resource corresponding to an event, which is a string. • resource_id: resource ID corresponding to an event, which is a string.
annotations	No	Map<String, Object>	Additional field for an event or alarm, which can be left blank.
attach_rule	No	Map<String, Object>	Reserved field for an event or alarm, which can be left blank.
id	No	String	Event or alarm ID, which is automatically generated by the system.

Response Parameters

None

Example Requests

Report an alarm named "test".

```
https://{{EndPoint}}/v2/{{project_id}}/push/events
```

```
{  
  "events" : [ {  
    "starts_at" : 1605232501000,  
    "timeout" : 60000,  
    "metadata" : {  
      "event_name" : "test",  
      "event_severity" : "Major",  
      "event_type" : "alarm",  
      "resource_provider" : "ecs",  
      "resource_type" : "vm",  
      "resource_id" : "ecs123"  
    },  
    "annotations" : {  
      "alarm_probableCause_zh_cn" : "Possible Causes",  
      "alarm_fix_suggestion_zh_cn" : "Suggestions",  
      "message" : "Alarm Details"  
    },  
    "attach_rule" : { }  
  } ]  
}
```

Example Responses

None

Status Codes

Status Code	Description
204	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2 Monitoring

4.2.1 Querying Time Series Objects

Function

This API is used to query the time series objects that can be monitored in the system. You can specify a namespace, name, dimension, and resource ID (format: resType_resId). You can also specify the start position and the maximum number of returned records for a pagination query.

Calling Method

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

URI

POST /v2/{project_id}/series

Table 4-158 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-159 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	String	Maximum number of returned records. Value range: 1–1000. Default value: 1000.
offset	No	String	Start position of a pagination query. The value is a non-negative integer.

Request Parameters

Table 4-160 Request body parameters

Parameter	Mandatory	Type	Description
series	Yes	Array of QuerySeries OptionParam objects	Array for querying time series objects.

Table 4-161 QuerySeriesOptionParam

Parameter	Mandatory	Type	Description
namespace	Yes	String	Namespace of time series objects. Value range: PAAS.CONTAINER, PAAS.NODE, PAAS.SLA, PAAS.AGGR, or CUSTOMMETRICS. PAAS.CONTAINER: namespace of application time series objects. PAAS.NODE: namespace of node time series objects. PAAS.SLA: namespace of SLA time series objects. PAAS.AGGR: namespace of cluster time series objects. CUSTOMMETRICS: namespace of custom time series objects.
metric_name	No	String	Time series name. Length: 1 to 255 characters. Values: cpuUsage: CPU usage. cpuCoreUsed: used CPU cores. Custom time series names.
dimensions	No	Array of DimensionSeries objects	List of time series dimensions. You can call the /v2/{project_id}/series API to query the time series dimension list by namespace and metric_name.

Table 4-162 DimensionSeries

Parameter	Mandatory	Type	Description
name	No	String	Dimension name.
value	No	String	Dimension value.

Response Parameters

Status code: 200

Table 4-163 Response body parameters

Parameter	Type	Description
series	Array of SeriesQueryItemResult objects	List of time series objects.
meta_data	MetaDataSeries object	Metadata, including pagination information.

Table 4-164 SeriesQueryItemResult

Parameter	Type	Description
namespace	String	Namespace.
dimensions	Array of DimensionSeries objects	Dimension list.
metric_name	String	Time series name.
unit	String	Time series unit.
dimension_value_hash	String	Time series hash value.

Table 4-165 DimensionSeries

Parameter	Type	Description
name	String	Dimension name.
value	String	Dimension value.

Table 4-166 MetaDataSeries

Parameter	Type	Description
count	Integer	Number of returned records.
offset	Integer	Start of the next page, which is used for pagination. null: No more data.
total	Integer	Total number of records.
nextToken	Integer	Offset.

Status code: 400

Table 4-167 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
error_type	String	Error type.

Example Requests

Query time series objects by namespace and metric_name.

```
https://{{Endpoint}}/v2/{{project_id}}/series
{
  "series" : [ {
    "namespace" : "PAAS.CONTAINER",
    "metric_name" : "aom_process_cpu_usage"
  } ]
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "meta_data" : {
    "count" : 1,
    "offset" : null,
    "total" : 1,
    "nextToken" : 0
  },
  "series" : [ {
    "namespace" : "PAAS.CONTAINER",
    "metric_name" : "cpuUsage",
    "unit" : "Percent",
    "dimensions" : [ {
      "name" : "appName",
      "value" : "appValue"
    } ]
  } ]
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
  "error_code" : "AOM.04007001",
  "error_msg" : "please check request param",
  "error_type" : "BAD_REQUEST"
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.2 Querying Time Series Data

Function

This API is used to query time series data within a specified time period. You can specify a dimension or period to query.

Calling Method

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

URI

POST /v2/{project_id}/samples

Table 4-168 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-169 Query Parameters

Parameter	Mandatory	Type	Description
fill_value	No	String	Value filled for breakpoints in time series data. Default value: -1. -1: Breakpoints are filled with -1. 0: Breakpoints are filled with 0. null: Breakpoints are filled with null. average: Breakpoints are filled with the average value of the adjacent valid data. If there is no valid data, breakpoints are filled with null.

Request Parameters

Table 4-170 Request body parameters

Parameter	Mandatory	Type	Description
samples	Yes	Array of QuerySample objects	List of time series objects. A JSON array can contain up to 20 objects.
statistics	Yes	Array of strings	Statistic. Values: maximum, minimum, sum, average, and sampleCount.
period	Yes	Integer	Granularity for monitoring data, which is an enumerated value. Values: 60: The data monitoring granularity is 1 minute. 300: The data monitoring granularity is 5 minutes. 900: The data monitoring granularity is 15 minutes. 3600: The data monitoring granularity is 1 hour.

Parameter	Mandatory	Type	Description
time_range	Yes	String	<p>Time range specified to query data of the last N minutes when the client time is inconsistent with the server time. It can also be used to accurately query the data of a specified period.</p> <p>Example:</p> <ul style="list-style-type: none"> • -1.-1.60: indicates that the data of the latest 60 minutes is queried. This query is based on the server time regardless of the current client time. • 1650852000000.165085230000.5: indicates the five minutes from 10:00:00 to 10:05:00 on April 25, 2022 GMT+08:00. <p>Format:</p> <pre>startTimeInMillis.endTimeInMillis.durationInMinutes</pre> <p>Parameter description:</p> <ul style="list-style-type: none"> • startTimeInMillis: Start time of the query, in milliseconds. If this parameter is set to -1, the server calculates the start time as follows: endTimeInMillis - durationInMinutes x 60 x 1000. For example, -1.1650852300000.5 is equivalent to 1650852000000.165085230000.5. • endTimeInMillis: End time of the query, in milliseconds. If this parameter is set to -1, the server calculates the end time as follows: startTimeInMillis + durationInMinutes x 60 x 1000. If the calculated end time is later than the current system time, the current system time is used.

Parameter	Mandatory	Type	Description
			<p>For example, 1650852000000.-1.5 is equivalent to 1650852000000.165085230000.5.</p> <ul style="list-style-type: none"> durationInMinutes: Time span, in minutes. The value must be greater than 0 and greater than or equal to the result of $(\text{endTimeInMillis} - \text{startTimeInMillis}) / (60 \times 1000) - 1$. If both the start time and end time are set to -1, the system sets the end time to the current UTC time (in milliseconds) and calculates the start time as follows: $\text{endTimeInMillis} - \text{durationInMinutes} \times 60 \times 1000$. For example, -1.-1.60 indicates the latest 60 minutes. <p>Constraint: In a single request, the following condition must be met: $\text{durationInMinutes} \times 60 / \text{period} \leq 1440$</p>

Table 4-171 QuerySample

Parameter	Mandatory	Type	Description
namespace	Yes	String	Namespace of time series objects. Value range: PAAS.CONTAINER, PAAS.NODE, PAAS.SLA, PAAS.AGGR, or CUSTOMMETRICS. PAAS.CONTAINER: namespace of application time series objects. PAAS.NODE: namespace of node time series objects. PAAS.SLA: namespace of SLA time series objects. PAAS.AGGR: namespace of cluster time series objects. CUSTOMMETRICS: namespace of custom time series objects.
dimensions	Yes	Array of DimensionSeries objects	List of time series dimensions. You can call the /v2/{project_id}/series API to query the time series dimension list by namespace and metric_name.
metric_name	Yes	String	Time series name. Length: 1 to 255 characters. Values: cpuUsage: CPU usage. cpuCoreUsed: used CPU cores. Custom time series names.

Table 4-172 DimensionSeries

Parameter	Mandatory	Type	Description
name	No	String	Dimension name.
value	No	String	Dimension value.

Response Parameters

Status code: 200

Table 4-173 Response body parameters

Parameter	Type	Description
samples	Array of SampleDataValue objects	List of time series objects.

Table 4-174 SampleDataValue

Parameter	Type	Description
sample	QuerySample object	List of time series objects.
data_points	Array of MetricDataPoints objects	Time series data.

Table 4-175 QuerySample

Parameter	Type	Description
namespace	String	Namespace of time series objects. Value range: PAAS.CONTAINER, PAAS.NODE, PAAS.SLA, PAAS.AGGR, or CUSTOMMETRICS. PAAS.CONTAINER: namespace of application time series objects. PAAS.NODE: namespace of node time series objects. PAAS.SLA: namespace of SLA time series objects. PAAS.AGGR: namespace of cluster time series objects. CUSTOMMETRICS: namespace of custom time series objects.
dimensions	Array of DimensionSeries objects	List of time series dimensions. You can call the /v2/{project_id}/series API to query the time series dimension list by namespace and metric_name.
metric_name	String	Time series name. Length: 1 to 255 characters. Values: cpuUsage: CPU usage. cpuCoreUsed: used CPU cores. Custom time series names.

Table 4-176 DimensionSeries

Parameter	Type	Description
name	String	Dimension name.
value	String	Dimension value.

Table 4-177 MetricDataPoints

Parameter	Type	Description
statistics	Array of StatisticValue objects	Statistic.
timestamp	Long	Timestamp.
unit	String	Time series unit.

Table 4-178 StatisticValue

Parameter	Type	Description
statistic	String	Statistic.
value	Double	Statistical result.

Status code: 400

Table 4-179 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
error_type	String	Error type.

Example Requests

Query time series data in the last five minutes by namespace, metric_name, and dimensions.

```
https://{{Endpoint}}/v2/{{project_id}}/samples
{
  "samples": [
    {
      "namespace": "PAAS.CONTAINER",
      "metric_name": "aom_process_cpu_usage",
      "dimensions": [
        {
          "name": "appName",
          "value": "aomApp"
        }
      ]
    }
  ]
}
```

```
        ],
        "period": 60,
        "time_range": "-1.-1.5",// Last 5 minutes
        "statistics": [
            "sum"
        ]
    }
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
    "samples" : [ {
        "sample" : {
            "namespace" : "PAAS.CONTAINER",
            "metric_name" : "aom_process_cpu_usage",
            "dimensions" : [ {
                "name" : "appName",
                "value" : "aomApp"
            } ]
        },
        "data_points" : [ {
            "timestamp" : "1694673300000",
            "unit" : "Percent",
            "statistics" : [ {
                "statistic" : "sum",
                "value" : "23"
            } ]
        } ]
    } ]
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
    "error_code" : "AOM.04008001",
    "error_msg" : "please check request param",
    "error_type" : "BAD_REQUEST"
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.

Status Code	Description
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.3 Querying Metrics

Function

This API is used to query the metrics that can be monitored in the system. You can query specific metrics by specifying a namespace, metric name, dimension, and resource ID (format: resType_resId). You can also specify the start position and the maximum number of returned records for a pagination query.

Calling Method

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

URI

POST /v1/{project_id}/ams/metrics

Table 4-180 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-181 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Metric query mode.
limit	No	String	Maximum number of returned records. Value range: 1-1000. Default value: 1000. Minimum: 0 Maximum: 4

Parameter	Mandatory	Type	Description
start	No	String	Start position of a pagination query. The value is a non-negative integer.

Request Parameters

Table 4-182 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-183 Request body parameters

Parameter	Mandatory	Type	Description
inventoryId	No	String	Resource ID, which must be in the format of resType_resId. Enumerated values of resType: host, application, instance, container, process, network, storage, and volume. When type (a URI parameter) is inventory, this parameter instead of metricItems is used for associated metric queries.
metricItems	No	Array of QueryMetricItemOptionParam objects	If the value of type in the URI is not inventory, metrics are queried based on the information carried by metricItems.

Table 4-184 QueryMetricItemOptionParam

Parameter	Mandatory	Type	Description
dimensions	No	Array of Dimension objects	List of metric dimensions.
metricName	No	String	Metric name. Length: 1 to 255 characters. Value range: cpuUsage, cpuCoreUsed, and other basic metrics provided by AOM. cpuUsage: CPU usage. cpuCoreUsed: used CPU cores. Custom metrics.
namespace	Yes	String	Metric namespace. Values: PAAS.CONTAINER: namespace of component, instance, process, and container metrics. PAAS.NODE: namespace of host, network, disk, and file system metrics. PAAS.SLA: namespace of SLA metrics. PAAS.AGGR: namespace of cluster metrics. CUSTOMMETRICS: default namespace of custom metrics. Enumeration values: <ul style="list-style-type: none"> • PAAS.CONTAINER • PAAS.NODE • PAAS.SLA • PAAS.AGGR • CUSTOMMETRICS

Table 4-185 Dimension

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

Response Parameters

Status code: 200

Table 4-186 Response body parameters

Parameter	Type	Description
metaData	MetaDataSet object	Metadata, including pagination information.
metrics	Array of MetricItemResultAPI objects	Metric list.

Table 4-187 MetaDataSet

Parameter	Type	Description
count	Integer	Number of returned records.
offset	Integer	Start of the next page, which is used for pagination. null: No more data.
total	Integer	Total number of records.
nextToken	Integer	Offset.

Table 4-188 MetricItemResultAPI

Parameter	Type	Description
dimensions	Array of Dimension objects	List of metric dimensions.
dimensionValueHash	String	Metric hash value.
metricName	String	Metric name.
namespace	String	Namespace.
unit	String	Metric unit.

Table 4-189 Dimension

Parameter	Type	Description
name	String	Dimension name.
value	String	Dimension value.

Example Requests

- Query metrics by inventory ID.

```
https://{{Endpoint}}/v1/{{project_id}}/ams/metrics
```

```
{  
  "metricItems": [ {  
    "namespace": "PAAS.CONTAINER",  
    "dimensions": [ {  
      "name": "appName",  
      "value": "aomApp"  
    }, {  
      "name": "clusterName",  
      "value": "aomCluster"  
    } ]  
  } ]  
}
```

- Query metrics by namespace, appName, and clusterName.

```
https://{{Endpoint}}/v1/{{project_id}}/ams/metrics?type=inventory
```

```
{  
  "inventoryId": "application_xxxxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxx3fee10"  
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "errorCode": "SVCSTG_AMS_2000000",  
  "errorMessage": "success",  
  "metaData": {  
    "count": 1,  
    "nextToken": null,  
    "total": 1  
  },  
  "metrics": [ {  
    "namespace": "PAAS.CONTAINER",  
    "metricName": "aom_process_cpu_usage",  
    "unit": "Percent",  
    "dimensions": [ {  
      "name": "appName",  
      "value": "aomApp"  
    } ]  
  } ]  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.

Status Code	Description
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.4 Querying Monitoring Data

Function

This API is used to query monitoring data of metrics within a specified time period. You can specify a dimension or period to query.

Calling Method

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

URI

POST /v1/{project_id}/ams/metricdata

Table 4-190 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-191 Query Parameters

Parameter	Mandatory	Type	Description
fillValue	No	String	<p>Value filled for breakpoints in monitoring data. Default value: -1. -1: Breakpoints are filled with -1. 0: Breakpoints are filled with 0. null: Breakpoints are filled with null. average: Breakpoints are filled with the average value of the adjacent valid data. If there is no valid data, breakpoints are filled with null.</p> <p>Default: -1</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • -1 • 0 • null • average

Request Parameters

Table 4-192 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	<p>Content type, which is application/json.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • application/json

Table 4-193 Request body parameters

Parameter	Mandatory	Type	Description
metrics	Yes	Array of MetricQuery MeritParam objects	Metric list. A JSON array can contain up to 20 objects.

Parameter	Mandatory	Type	Description
period	Yes	Integer	Granularity for monitoring data, which is an enumerated value. Values: 60: The data monitoring granularity is 1 minute. 300: The data monitoring granularity is 5 minutes. 900: The data monitoring granularity is 15 minutes. 3600: The data monitoring granularity is 1 hour.
statistics	Yes	Array of strings	Statistic. Values: maximum, minimum, sum, average, and sampleCount.

Parameter	Mandatory	Type	Description
timerange	Yes	String	<p>Time range specified to query data of the last N minutes when the client time is inconsistent with the server time. It can also be used to accurately query the data of a specified period.</p> <p>Example:</p> <ul style="list-style-type: none"> • -1.-1.60: indicates that the data of the latest 60 minutes is queried. This query is based on the server time regardless of the current client time. • 1650852000000.165085230000.5: indicates the five minutes from 10:00:00 to 10:05:00 on April 25, 2022 GMT+08:00. <p>Format:</p> <pre>startTimeInMillis.endTimeInMillis.durationInMinutes</pre> <p>Parameter description:</p> <ul style="list-style-type: none"> • startTimeInMillis: Start time of the query, in milliseconds. If this parameter is set to -1, the server calculates the start time as follows: endTimeInMillis - durationInMinutes x 60 x 1000. For example, -1.1650852300000.5 is equivalent to 1650852000000.165085230000.5. • endTimeInMillis: End time of the query, in milliseconds. If this parameter is set to -1, the server calculates the end time as follows: startTimeInMillis + durationInMinutes x 60 x 1000. If the calculated end time is later than the current system time, the current system time is used.

Parameter	Mandatory	Type	Description
			<p>For example, 1650852000000.-1.5 is equivalent to 1650852000000.165085230000.5.</p> <ul style="list-style-type: none">durationInMinutes: Time span, in minutes. The value must be greater than 0 and greater than or equal to the result of "(endTimeInMillis – startTimeInMillis)/(60 x 1000) – 1". If both the start time and end time are set to -1, the system sets the end time to the current UTC time (in milliseconds) and calculates the start time as follows: endTimeInMillis – durationInMinutes x 60 x 1000. For example, -1.-1.60 indicates the latest 60 minutes. <p>Constraint:</p> <p>In a single request, the following condition must be met: durationInMinutes x 60 / period ≤ 1440</p>

Table 4-194 MetricQueryMeritParam

Parameter	Mandatory	Type	Description
dimensions	Yes	Array of Dimension objects	List of metric dimensions. Neither the array nor the name or value of any dimension in the array can be left blank.
metricName	Yes	String	Metric name. Length: 1 to 255 characters. Value range: cpuUsage, cpuCoreUsed, and other basic metrics provided by AOM. cpuUsage: CPU usage. cpuCoreUsed: used CPU cores. Custom metrics.

Parameter	Mandatory	Type	Description
namespace	Yes	String	Metric namespace. Values: PAAS.CONTAINER: namespace of component, instance, process, and container metrics. PAAS.NODE: namespace of host, network, disk, and file system metrics. PAAS.SLA: namespace of SLA metrics. PAAS.AGGR: namespace of cluster metrics. CUSTOMMETRICS: default namespace of custom metrics.

Table 4-195 Dimension

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

Response Parameters

Status code: 200

Table 4-196 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.
metrics	Array of MetricDataValue objects	Metric list.

Table 4-197 MetricDataValue

Parameter	Type	Description
dataPoints	Array of MetricDataPoints objects	Key metric.

Parameter	Type	Description
metric	MetricQuery MeritcParam object	Query parameters.

Table 4-198 MetricDataPoints

Parameter	Type	Description
statistics	Array of StatisticValue objects	Statistic.
timestamp	Long	Timestamp.
unit	String	Time series unit.

Table 4-199 StatisticValue

Parameter	Type	Description
statistic	String	Statistic.
value	Double	Statistical result.

Table 4-200 MetricQueryMeritcParam

Parameter	Type	Description
dimensions	Array of Dimension objects	List of metric dimensions. Neither the array nor the name or value of any dimension in the array can be left blank.
metricName	String	Metric name. Length: 1 to 255 characters. Value range: cpuUsage, cpuCoreUsed, and other basic metrics provided by AOM. cpuUsage: CPU usage. cpuCoreUsed: used CPU cores. Custom metrics.
namespace	String	Metric namespace. Values: PAAS.CONTAINER: namespace of component, instance, process, and container metrics. PAAS.NODE: namespace of host, network, disk, and file system metrics. PAAS.SLA: namespace of SLA metrics. PAAS.AGGR: namespace of cluster metrics. CUSTOMMETRICS: default namespace of custom metrics.

Table 4-201 Dimension

Parameter	Type	Description
name	String	Dimension name.
value	String	Dimension value.

Example Requests

Query the monitoring data of **cpuUsage** in the **PAAS.CONTAINER** namespace in the last five minutes.

```
https://{{Endpoint}}/v1/{{project_id}}/ams/metricdata
```

```
{
  "metrics": [
    {
      "dimensions": [
        {
          "name": "appName",
          "value": "aomApp"
        }
      ],
      "metricName": "cpuUsage",
      "namespace": "PAAS.CONTAINER"
    }
  ],
  "period": 60,
  "statistics": [
    "maximum",
    "minimum",
    "sum"
  ],
  "timerange": "-1.-1.5"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "errorCode": "SVCSTG.AMS.2000",
  "errorMessage": "success",
  "metrics": [
    {
      "metric": {
        "namespace": "PAAS.CONTAINER",
        "metricName": "cpuUsage",
        "dimensions": [
          {
            "name": "appName",
            "value": "aomApp"
          }
        ]
      },
      "dataPoints": [
        {
          "timestamp": "1467892800000",
          "unit": "Percent",
          "statistics": [
            {
              "statistic": "maximum",
              "value": "23"
            }
          ]
        }
      ]
    }
  ]
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.5 Adding Monitoring Data

Function

This API is used to add one or more monitoring data records to a server.

Calling Method

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

URI

POST /v1/{project_id}/ams/report/metricdata

Table 4-202 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Request Parameters

Table 4-203 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-204 Request body parameters

Parameter	Mandatory	Type	Description
[items]	Yes	Array of MetricDataItem objects	Metric parameters.

Table 4-205 MetricDataItem

Parameter	Mandatory	Type	Description
collect_time	Yes	Long	Data collection time (UNIX timestamp, in ms), which ranges from the last 24 hours to the next 0.5 hour. The following requirement needs to be met: Current UTC time – Data collection time ≤ 24 hours, or Data collection time – Current UTC time ≤ 30 minutes If the data reporting time is earlier than 08:00 of the current day, only the data generated after 08:00 of the current day is displayed on the metric monitoring page.
metric	Yes	MetricItemInfo object	Metric details.
values	Yes	Array of ValueData objects	Metric value.

Table 4-206 MetricItemInfo

Parameter	Mandatory	Type	Description
dimensions	Yes	Array of Dimension2 objects	List of metric dimensions. A maximum of 50 dimensions are supported. Each dimension is in JSON format. The structure is as follows: dimension.name: 1–32 characters. dimension.value: 1–64 characters.
namespace	Yes	String	Metric namespace. It cannot contain colons (:). It must be in the format of "service.item". The value must contain 3 to 32 characters starting with a letter. Only letters, digits, and underscores (_) are allowed. In addition, "service" cannot be "PAAS". Minimum: 3 Maximum: 32

Table 4-207 Dimension2

Parameter	Mandatory	Type	Description
name	Yes	String	Dimension name. Minimum: 1 Maximum: 32
value	Yes	String	Dimension value. Minimum: 1 Maximum: 64

Table 4-208 ValueData

Parameter	Mandatory	Type	Description
metric_name	Yes	String	Metric name. Length: 1 to 255 characters.

Parameter	Mandatory	Type	Description
type	No	String	Data type. Values: int and float. Enumeration values: <ul style="list-style-type: none">• int• float
unit	No	String	Data unit. Length: up to 32 characters.
value	Yes	Double	Metric value, which must be of a valid numeric type. Minimum: 0

Response Parameters

Status code: 200

Table 4-209 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.

Example Requests

Add a piece of monitoring data to the server. (In the following example, set "collect_time" to the latest timestamp.)

https://{{Endpoint}}/v1/{{project_id}}/ams/report/metricdata

```
[ {
  "metric" : {
    "namespace" : "NOAA.ESC",
    "dimensions" : [ {
      "name" : "instance_id",
      "value" : "instance-101"
    } ]
  },
  "values" : [ {
    "unit" : "percent",
    "metric_name" : "cpu_util",
    "type" : "int",
    "value" : 35
  }],
  "collect_time" : 1467787152000
}]
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "errorCode" : "SVCSTG_AMS_2000000",  
  "errorMessage" : "success"  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.6 Adding or Modifying One or More Service Discovery Rules

Function

This API is used to add or modify one or more service discovery rules. A maximum of 100 rules can be added to a project.

Calling Method

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

URI

PUT /v1/{project_id}/inv/servicediscoveryrules

Table 4-210 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Request Parameters

Table 4-211 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-212 Request body parameters

Parameter	Mandatory	Type	Description
appRules	No	Array of AppRules objects	Service parameters.

Table 4-213 AppRules

Parameter	Mandatory	Type	Description
createTime	No	String	Creation time. When creating a service discovery rule, leave this parameter blank. When modifying a service discovery rule, enter the returned createTime. Default: 1599098476654
enable	Yes	Boolean	Whether a rule is enabled. Values: true and false.

Parameter	Mandatory	Type	Description
eventName	Yes	String	aom_inventory_rules_event Rule event name. For service discovery, the fixed value is aom_inventory_rules_event.
hostid	No	Array of strings	Host ID. Currently, this parameter is not used and can be left blank.
id	Yes	String	Rule ID. When creating a service discovery rule, leave this parameter blank. When modifying a service discovery rule, enter a rule ID.
name	Yes	String	Rule name, which contains a maximum of 64 characters. It must start with a lowercase letter but cannot end with a hyphen (-). Only digits, lowercase letters, and hyphens are allowed.
projectid	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.
spec	Yes	AppRulesSpec object	Rule details.
desc	No	String	Custom description

Table 4-214 AppRulesSpec

Parameter	Mandatory	Type	Description
appType	Yes	String	Service type, which is used only for rule classification and UI display. You can enter any field. For example, enter Java or Python by technology stack, or enter collector or database by function.
attrList	No	Array of strings	Attribute list. Currently, this parameter is not used and can be left blank. Values: cmdLine and env.

Parameter	Mandatory	Type	Description
detectLog	Yes	String	Whether to enable log collection. Values: true and false.
discoveryRule	Yes	Array of DiscoveryRule objects	Discovery rule. If the array contains multiple conditions, only the processes that meet all the conditions will be matched. If the value of checkType is cmdLine, set the value of checkMode to contain. checkContent is in the format of ["xxx"], indicating that the process must contain the xxx parameter. If the value of checkType is env, set the value of checkMode to contain. checkContent is in the format of ["k1","v1"], indicating that the process must contain the environment variable whose name is k1 and value is v1. If the value of checkType is scope, set the value of checkMode to equals. checkContent is in the format of ["hostId1","hostId2"], indicating that the rule takes effect only on specified nodes. If no nodes are specified, the rule applies to all nodes of the project.
isDefaultRule	Yes	String	Whether the rule is the default one. Values: true and false.
isDetect	Yes	String	Whether the scenario is a pre-check scenario. No rules will be saved in the pre-check scenario. This scenario is designed only to check whether a rule can detect node processes before it is delivered. Values: true and false.
logFileFix	Yes	Array of strings	Log file suffix. Values: log, trace, and out.

Parameter	Mandatory	Type	Description
logPathRule	No	Array of LogPathRule objects	Log path configuration rule. If cmdLineHash is a fixed string, logs in the specified log path or log file are collected. Otherwise, only the files whose names end with .log or .trace are collected. If the value of nameType is cmdLineHash, args is in the format of ["00001"] and value is in the format of ["/xxx/xx.log"], indicating that the log path is /xxx/xx.log when the startup command is 00001.
nameRule	Yes	NameRule object	Naming rules for discovered services and applications.
priority	Yes	Integer	Rule priority. Value range: 1 to 9999. Default value: 9999.
dataSource	No	String	Data source.
editable	No	String	Whether to support editing. Options: true and false.
aom_metric_relabel_configs	No	Object	Metric configuration.

Table 4-215 DiscoveryRule

Parameter	Mandatory	Type	Description
checkContent	Yes	Array of strings	Matched value.
checkMode	Yes	String	Match condition. Values: contain and equals.
checkType	Yes	String	Match type. Values: cmdLine, env, and scope.

Table 4-216 LogPathRule

Parameter	Mandatory	Type	Description
args	Yes	Array of strings	Command.

Parameter	Mandatory	Type	Description
nameType	Yes	String	Value type, which can be cmdLineHash.
value	Yes	Array of strings	Log path.

Table 4-217 NameRule

Parameter	Mandatory	Type	Description
appNameRule	Yes	Array of AppNameRule objects	Service name rule. If there are multiple objects in the array, the character strings extracted from these objects constitute the service name. If the value of nameType is cmdLine, args is in the format of ["start", "end"], indicating that the characters between start and end in the command are extracted. If the value of nameType is cmdLine, args is in the format of ["aa"], indicating that the environment variable named aa is extracted. If the value of nameType is str, args is in the format of ["fix"], indicating that the service name is suffixed with fix. If the value of nameType is cmdLineHash, args is in the format of ["0001"] and value is in the format of ["ser"], indicating that the service name is ser when the startup command is 0001.

Parameter	Mandatory	Type	Description
applicationNameRule	Yes	Array of ApplicationNameRule objects	Application name rule.If the value of nameType is cmdLine, args is in the format of ["start", "end"], indicating that the characters between start and end in the command are extracted.If the value of nameType is cmdLine, args is in the format of ["aa"], indicating that the environment variable named aa is extracted.If the value of nameType is str, args is in the format of ["fix"], indicating that the service name is suffixed with fix.If the value of nameType is cmdLineHash, args is in the format of ["0001"] and value is in the format of ["ser"], indicating that the application name is ser when the startup command is 0001.

Table 4-218 AppNameRule

Parameter	Mandatory	Type	Description
nameType	Yes	String	Value type. Values: cmdLineHash, cmdLine, env, and str.
args	Yes	Array of strings	Input value.
value	No	Array of strings	Service name, which is mandatory only when the value of nameType is cmdLineHash.

Table 4-219 ApplicationNameRule

Parameter	Mandatory	Type	Description
nameType	Yes	String	Value type. Values: cmdLineHash, cmdLine, env, and str.

Parameter	Mandatory	Type	Description
args	Yes	Array of strings	Input value.
value	No	Array of strings	Service name, which is mandatory only when the value of nameType is cmdLineHash.

Response Parameters

Status code: 200

Table 4-220 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.
responseStatus	Integer	Response status code (no longer used).
id	Array of strings	Service discovery rule ID list. This parameter is used during cross-AZ configuration synchronization.
results	Array of Map<String, String> objects	Details about service discovery rules.

Example Requests

Add an application discovery rule whose name is **aom_inventory_rules_event** and project ID is **684fc87a79d7xxxx22e62a7da95b**.

https://{{endpoint}}/v1/{{project_id}}/inv/servicediscoveryrules

```
{
  "appRules" : [ {
    "createTime" : "1694705766730",
    "enable" : true,
    "name" : "ica**nt",
    "eventName" : "aom_inventory_rules_event",
    "hostid" : [ ],
    "id" : "b53a5152-****-****-302367e04c0b",
    "projectid" : "684fc87a79d7xxxx22e62a7da95b",
    "spec" : {
      "detectLog" : "true",
      "editable" : null,
      "logPathRule" : [ ],
      "priority" : 9999,
      "attrList" : [ "cmdLine" ],
      "nameRule" : {
        "name" : "aom_inventory_rules_event"
      }
    }
  }
]
```

```
"appNameRule" : [ {
    "args" : [ "/opt/***** -DNFW=ica**nt" ],
    "nameType" : "cmdLineHash",
    "value" : [ "aicagentserver" ]
} ],
"applicationNameRule" : [ {
    "args" : [ "/opt/***** -DNFW=ica**nt" ],
    "nameType" : "cmdLineHash",
    "value" : [ "aica**nt" ]
} ]
},
"appType" : "",
"aom_metric_relabel_configs" : null,
"logFileFix" : [ "log", "trace", "out" ],
"isDetect" : "false",
"isDefaultRule" : null,
"dataSource" : null,
"discoveryRule" : [ {
    "checkType" : "cmdLine",
    "checkContent" : [ "-DNFW=ica**nt" ],
    "checkMode" : "contain"
} ],
},
"desc" : "Custom description"
} ]
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
    "errorCode" : "SVCSTG.INV.2000000",
    "errorMessage" : null,
    "id" : [ ],
    "results" : [ {
        "name" : "aom_inventory_rules_event",
        "id" : "b53a5152-****-****-****-302367e04c0b"
    } ]
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
    "errorCode" : "SVCSTG.INV.4000115",
    "errorMessage" : "Request param is invalid",
    "id" : [ ],
    "results" : [ ]
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.

Status Code	Description
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.7 Deleting a Service Discovery Rule

Function

This API is used to delete a service discovery rule.

Calling Method

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

URI

DELETE /v1/{project_id}/inv/servicediscoveryrules

Table 4-221 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-222 Query Parameters

Parameter	Mandatory	Type	Description
appRuleIds	Yes	Array	Discovery rule ID. Multiple IDs need to be separated by commas (,). The parameter cannot be empty.

Request Parameters

Table 4-223 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Response Parameters

Status code: 200

Table 4-224 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.
responseStatus	Integer	Response status code (no longer used).
id	Array of strings	Service discovery rule ID list. This parameter is used during cross-AZ configuration synchronization.

Example Requests

Delete a service discovery rule with a specified ID.

```
https://{{Endpoint}}/v1/{{project_id}}/inv/servicediscoveryrules?appRuleIds=b788349e-62b2-xxxx-xxxx-02c611d59801
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
  "errorCode": "SVCSTG.INV.2000000",  
  "errorMessage": null,  
  "id": []  
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
  "errorCode" : "SVCSTG.INV.4000118",  
  "errorMessage" : "Request param is invalid",  
  "id" : []  
}
```

Status code: 404

Not Found: The requested resource could not be found. The client should not repeat this request without modification.

```
{  
  "errorCode" : "SVCSTG.INV.4040000",  
  "errorMessage" : "Inventory does not exists",  
  "id" : []  
}
```

Status code: 500

Internal Server Error: The server is able to receive the request but unable to understand the request.

```
{  
  "error_code" : "APM.00000500",  
  "error_msg" : "Internal Server Error",  
  "trace_id" : ""  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
404	Not Found: The requested resource could not be found. The client should not repeat this request without modification.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Unauthorized: The authentication information is incorrect or invalid.

Error Codes

See [Error Codes](#).

4.2.8 Querying Existing Service Discovery Rules

Function

This API is used to query existing service discovery rules in the system.

Calling Method

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

URI

GET /v1/{project_id}/inv/servicediscoveryrules

Table 4-225 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-226 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	Service discovery rule ID, which corresponds to a service discovery rule. If this parameter is left blank, all service discovery rules in the project are returned.

Request Parameters

Table 4-227 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Response Parameters

Status code: 200

Table 4-228 Response body parameters

Parameter	Type	Description
appRules	Array of AppRules objects	Rule information.
errorCode	String	Response code. AOM_INVENTORY_2000000: Success response.
errorMessage	String	Response message.
id	Array of strings	Service discovery rule ID list. This parameter is used during cross-AZ configuration synchronization.

Table 4-229 AppRules

Parameter	Type	Description
createTime	String	Creation time. When creating a service discovery rule, leave this parameter blank. When modifying a service discovery rule, enter the returned createTime. Default: 1599098476654
enable	Boolean	Whether a rule is enabled. Values: true and false.
eventName	String	aom_inventory_rules_event Rule event name. For service discovery, the fixed value is aom_inventory_rules_event.
hostid	Array of strings	Host ID. Currently, this parameter is not used and can be left blank.
id	String	Rule ID. When creating a service discovery rule, leave this parameter blank. When modifying a service discovery rule, enter a rule ID.
name	String	Rule name, which contains a maximum of 64 characters. It must start with a lowercase letter but cannot end with a hyphen (-). Only digits, lowercase letters, and hyphens are allowed.
projectid	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Parameter	Type	Description
spec	AppRulesSpec object	Rule details.
desc	String	Custom description

Table 4-230 AppRulesSpec

Parameter	Type	Description
appType	String	Service type, which is used only for rule classification and UI display. You can enter any field. For example, enter Java or Python by technology stack, or enter collector or database by function.
attrList	Array of strings	Attribute list. Currently, this parameter is not used and can be left blank. Values: cmdLine and env.
detectLog	String	Whether to enable log collection. Values: true and false.
discoveryRule	Array of DiscoveryRule objects	Discovery rule. If the array contains multiple conditions, only the processes that meet all the conditions will be matched. If the value of checkType is cmdLine, set the value of checkMode to contain. checkContent is in the format of ["xxx"], indicating that the process must contain the xxx parameter. If the value of checkType is env, set the value of checkMode to contain. checkContent is in the format of ["k1","v1"], indicating that the process must contain the environment variable whose name is k1 and value is v1. If the value of checkType is scope, set the value of checkMode to equals. checkContent is in the format of ["hostId1","hostId2"], indicating that the rule takes effect only on specified nodes. If no nodes are specified, the rule applies to all nodes of the project.
isDefaultRule	String	Whether the rule is the default one. Values: true and false.
isDetect	String	Whether the scenario is a pre-check scenario. No rules will be saved in the pre-check scenario. This scenario is designed only to check whether a rule can detect node processes before it is delivered. Values: true and false.

Parameter	Type	Description
logFileFix	Array of strings	Log file suffix. Values: log, trace, and out.
logPathRule	Array of LogPathRule objects	Log path configuration rule. If cmdLineHash is a fixed string, logs in the specified log path or log file are collected. Otherwise, only the files whose names end with .log or .trace are collected. If the value of nameType is cmdLineHash, args is in the format of ["00001"] and value is in the format of ["/xxx/xx.log"], indicating that the log path is /xxx/xx.log when the startup command is 00001.
nameRule	NameRule object	Naming rules for discovered services and applications.
priority	Integer	Rule priority. Value range: 1 to 9999. Default value: 9999.
dataSource	String	Data source.
editable	String	Whether to support editing. Options: true and false.
aom_metric_r elabel_configs	Object	Metric configuration.

Table 4-231 DiscoveryRule

Parameter	Type	Description
checkContent	Array of strings	Matched value.
checkMode	String	Match condition. Values: contain and equals.
checkType	String	Match type. Values: cmdLine, env, and scope.

Table 4-232 LogPathRule

Parameter	Type	Description
args	Array of strings	Command.
nameType	String	Value type, which can be cmdLineHash.
value	Array of strings	Log path.

Table 4-233 NameRule

Parameter	Type	Description
appNameRule	Array of AppNameRule objects	Service name rule. If there are multiple objects in the array, the character strings extracted from these objects constitute the service name. If the value of nameType is cmdLine, args is in the format of ["start", "end"], indicating that the characters between start and end in the command are extracted. If the value of nameType is cmdLine, args is in the format of ["aa"], indicating that the environment variable named aa is extracted. If the value of nameType is str, args is in the format of ["fix"], indicating that the service name is suffixed with fix. If the value of nameType is cmdLineHash, args is in the format of ["0001"] and value is in the format of ["ser"], indicating that the service name is ser when the startup command is 0001.
applicationNameRule	Array of ApplicationNameRule objects	Application name rule. If the value of nameType is cmdLine, args is in the format of ["start", "end"], indicating that the characters between start and end in the command are extracted. If the value of nameType is cmdLine, args is in the format of ["aa"], indicating that the environment variable named aa is extracted. If the value of nameType is str, args is in the format of ["fix"], indicating that the service name is suffixed with fix. If the value of nameType is cmdLineHash, args is in the format of ["0001"] and value is in the format of ["ser"], indicating that the application name is ser when the startup command is 0001.

Table 4-234 AppNameRule

Parameter	Type	Description
nameType	String	Value type. Values: cmdLineHash, cmdLine, env, and str.
args	Array of strings	Input value.
value	Array of strings	Service name, which is mandatory only when the value of nameType is cmdLineHash.

Table 4-235 ApplicationNameRule

Parameter	Type	Description
nameType	String	Value type. Values: cmdLineHash, cmdLine, env, and str.
args	Array of strings	Input value.
value	Array of strings	Service name, which is mandatory only when the value of nameType is cmdLineHash.

Example Requests

None

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "appRules" : [ {
    "createTime" : "1694705814424",
    "enable" : true,
    "name" : "ica**nt",
    "eventName" : "aom_inventory_rules_event",
    "hostid" : [ ],
    "id" : "b53a5152-****-****-302367e04c0b",
    "projectId" : "684fc87a79d7xxxx22e62a7da95b",
    "spec" : {
      "detectLog" : "true",
      "editable" : null,
      "logPathRule" : [ ],
      "priority" : 9999,
      "attrList" : [ "cmdLine" ],
      "nameRule" : {
        "appNameRule" : [ {
          "args" : [ "/opt/***** -DNFW=ica**nt" ],
          "nameType" : "cmdLineHash",
          "value" : [ "aicagentserver" ]
        } ],
        "applicationNameRule" : [ {
          "args" : [ "/opt/***** -DNFW=ica**nt" ],
          "nameType" : "cmdLineHash",
          "value" : [ "aica**nt" ]
        } ]
      },
      "appType" : "",
      "aom_metric_relabel_configs" : null,
      "logFileFix" : [ "log", "trace", "out" ],
      "isDetect" : "false",
      "isDefaultRule" : null,
      "dataSource" : null,
      "discoveryRule" : [ {
        "checkType" : "cmdLine",
        "checkContent" : [ "-DNFW=ica**nt" ],
        "checkMode" : "contain"
      } ]
    },
    "desc" : "Custom description"
  }
}
```

```
    },
    "errorMessage" : null,
    "errorCode" : "SVCSTG.INV.2000000",
    "id" : []
}
```

Status code: 404

Not Found: The requested resource could not be found. The client should not repeat this request without modification.

```
{
  "appRules" : [],
  "errorMessage" : "Inventory does not exists",
  "errorCode" : "SVCSTG.INV.4040000",
  "id" : []
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
404	Not Found: The requested resource could not be found. The client should not repeat this request without modification.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.9 Adding a Threshold Rule

Function

This API is used to add a threshold rule.

Calling Method

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

URI

POST /v2/{project_id}/alarm-rules

Table 4-236 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Request Parameters

Table 4-237 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-238 Request body parameters

Parameter	Mandatory	Type	Description
action_enabled	No	Boolean	Whether to enable notification.
alarm_actions	No	Array of strings	List of alarm notifications.
alarm_advice	No	String	Alarm clearance suggestion. Minimum: 0 Maximum: 255
alarm_description	No	String	Threshold rule description. Minimum: 0 Maximum: 1024

Parameter	Mandatory	Type	Description
alarm_level	Yes	Integer	<p>Alarm severity. Values: 1 (critical), 2 (major), 3 (minor), and 4 (warning).</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3 • 4
alarm_rule_name	Yes	String	Threshold rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, underscores (_), and hyphens (-) are allowed.
comparison_operator	Yes	String	<p>Comparison operator. Options: <: less than the threshold; >: greater than the threshold; <=: less than or equal to the threshold; >=: greater than or equal to the threshold.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • < • > • <= • >=
dimensions	Yes	Array of Dimension objects	List of time series dimensions.
evaluation_periods	Yes	Integer	<p>Interval.</p> <p>Minimum: 1</p> <p>Maximum: 5</p>
is_turn_on	No	Boolean	Whether to enable the threshold rule.
insufficient_data_actions	No	Array of strings	List of insufficient data notifications.
metric_name	Yes	String	Time series name. Length: 1 to 255 characters.
namespace	Yes	String	Time series objects' namespace.

Parameter	Mandatory	Type	Description
ok_actions	No	Array of strings	List of normal status notifications.
period	Yes	Integer	Statistical period. Options: 60000: one minute; 300000: five minutes; 900000: 15 minutes; 3600000: one hour. Enumeration values: <ul style="list-style-type: none">• 60000• 300000• 900000• 36000000
statistic	Yes	String	Statistic. Enumeration values: <ul style="list-style-type: none">• maximum• minimum• average• sum• sampleCount
threshold	Yes	String	Threshold value.
unit	Yes	String	Time series unit.

Table 4-239 Dimension

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

Response Parameters

Status code: 200

Table 4-240 Response body parameters

Parameter	Type	Description
alarm_rule_id	Long	Threshold rule ID.

Status code: 400

Table 4-241 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
error_type	String	Error type.
trace_id	String	Trace ID, which is used to search for logs and locate faults. If 2xx is returned, trace_id is empty. If 4xx , trace_id is not empty.

Example Requests

Add a threshold rule whose name is **testaom**, alarm severity is **3**, namespace is **PAAS.CONTAINER**, and statistical mode is **average**.

```
https://{{Endpoint}}/v2/{{project_id}}/alarm-rules

{
  "is_turn_on" : true,
  "action_enabled" : false,
  "alarm_actions" : [ ],
  "alarm_advice" : "",
  "alarm_description" : "",
  "alarm_level" : 3,
  "alarm_rule_name" : "aom_rule",
  "comparison_operator" : ">=",
  "dimensions" : [ {
    "name" : "appName",
    "value" : "rhm-broker"
  }],
  "evaluation_periods" : 1,
  "insufficient_data_actions" : [ ],
  "metric_name" : "cpuCoreLimit",
  "namespace" : "PAAS.CONTAINER",
  "ok_actions" : [ ],
  "period" : 60000,
  "statistic" : "average",
  "threshold" : 0,
  "unit" : "Core"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{ "alarm_rule_id" : 1134050083814244400 }
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{ "error_code" : "AOM.04001001", }
```

```
"error_msg" : "please check request param",
"error_type" : "BAD_REQUEST"
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.10 Querying the Threshold Rule List

Function

This API is used to query the threshold rule list.

Calling Method

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

URI

GET /v2/{project_id}/alarm-rules

Table 4-242 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-243 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	String	Pagination information.
limit	No	Integer	Maximum number of returned records. Value range: 1–1000. Default value: 1000.

Request Parameters

Table 4-244 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Response Parameters

Status code: 200

Table 4-245 Response body parameters

Parameter	Type	Description
meta_data	MetaData object	Metadata, including pagination information.
thresholds	Array of QueryAlarmResult objects	Parameters specified for querying a threshold rule.

Table 4-246 MetaData

Parameter	Type	Description
count	Integer	Number of returned records.
start	String	Start of the next page, which is used for pagination. null: No more data.
total	Integer	Total number of records.

Table 4-247 QueryAlarmResult

Parameter	Type	Description
action_enabled	Boolean	Whether to enable notification.
alarm_actions	Array of strings	List of alarm notifications.
alarm_advice	String	Alarm clearance suggestion.
alarm_description	String	Threshold rule description.
alarm_level	String	Alarm severity.
alarm_rule_id	String	Threshold rule ID.
alarm_rule_name	String	Threshold rule name.
comparison_operator	String	Comparison operator.
dimensions	Array of Dimension objects	List of time series dimensions.
evaluation_periods	Integer	Interval.
id_turn_on	Boolean	Whether to enable the threshold rule.
insufficient_data_actions	Array of strings	List of insufficient data notifications.
metric_name	String	Time series name.
namespace	String	Time series objects' namespace.
ok_actions	Array of strings	List of normal status notifications.
period	Integer	Statistical period.
policy_name	String	Threshold rule name.
resources	Array of strings	Resource information (discarded).
state_reason	String	Cause description.
state_updated_timestamp	String	Time when the status was updated.
state_value	String	Service status.

Parameter	Type	Description
statistic	String	Statistic.
threshold	String	Threshold value.
type	String	Threshold rule type.
unit	String	Threshold unit.

Table 4-248 Dimension

Parameter	Type	Description
name	String	Dimension name.
value	String	Dimension value.

Status code: 400

Table 4-249 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
error_type	String	Error type.
trace_id	String	Trace ID, which is used to search for logs and locate faults. If 2xx is returned, trace_id is empty. If 4xx , trace_id is not empty.

Example Requests

None

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "meta_data": [ {
    "count": 10,
    "total": 100
  }],
  "thresholds": [ {
    "alarm_actions": null,
    "alarm_advice": null,
    "alarm_description": null,
    "alarm_severity": null
  }]
}
```

```
"alarm_level" : 3,  
"alarm_rule_id" : 2137,  
"alarm_rule_name" : "aom_rule",  
"comparison_operator" : ">=",  
"dimensions" : [ {  
    "name" : "appName"  
}, {  
    "value" : "rhm-broker"  
}],  
"evaluation_periods" : 1,  
"id_turn_on" : true,  
"insufficient_data_actions" : null,  
"metric_name" : "cpuCoreLimit",  
"namespace" : "PAAS.CONTAINER",  
"ok_actions" : null,  
"period" : 60000,  
"policy_name" : "23,",  
"resources" : [ ],  
"state_reason" : null,  
"state_updated_timestamp" : null,  
"state_value" : "alarm",  
"statistic" : "average",  
"threshold" : 0,  
"type" : "single,",  
"unit" : "Core"  
} ]  
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.04003001",  
    "error_msg" : "please check request param",  
    "error_type" : "BAD_REQUEST"  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.11 Modifying a Threshold Rule

Function

This API is used to modify a threshold rule.

Calling Method

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

URI

PUT /v2/{project_id}/alarm-rules

Table 4-250 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Request Parameters

Table 4-251 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-252 Request body parameters

Parameter	Mandatory	Type	Description
action_enabled	No	Boolean	Whether to enable notification.
alarm_actions	No	Array of strings	List of alarm notifications.

Parameter	Mandatory	Type	Description
alarm_advice	No	String	Alarm clearance suggestion, which contains a maximum of 255 characters. Minimum: 0 Maximum: 255
alarm_description	No	String	Threshold rule description, which contains a maximum of 1024 characters. Minimum: 0 Maximum: 1024
alarm_level	Yes	Integer	Alarm severity. Values: 1 (critical), 2 (major), 3 (minor), and 4 (warning). Enumeration values: <ul style="list-style-type: none">• 1• 2• 3• 4
alarm_rule_name	Yes	String	Threshold rule name. Enter a maximum of 100 characters and do not start or end with a special character. Only letters, digits, underscores (_), and hyphens (-) are allowed.
comparison_operator	Yes	String	Comparison operator. Options: <: less than the threshold; >: greater than the threshold; <=: less than or equal to the threshold; >=: greater than or equal to the threshold. Enumeration values: <ul style="list-style-type: none">• <• >• <=• >=
dimensions	Yes	Array of Dimension objects	List of time series dimensions.
evaluation_periods	Yes	Integer	Interval at which data is calculated.

Parameter	Mandatory	Type	Description
is_turn_on	No	Boolean	Whether to enable the threshold rule.
insufficient_data_actions	No	Array of strings	List of insufficient data notifications.
metric_name	Yes	String	Time series name. Length: 1 to 255 characters.
namespace	Yes	String	Namespace of time series objects.
ok_actions	No	Array of strings	List of normal status notifications.
period	Yes	Integer	Statistical period. Options: 60000: one minute; 300000: five minutes; 900000: 15 minutes; 3600000: one hour. Enumeration values: <ul style="list-style-type: none">• 60000• 300000• 900000• 3600000
statistic	Yes	String	Statistic. Enumeration values: <ul style="list-style-type: none">• maximum• minimum• average• sum• sampleCount
threshold	Yes	String	Threshold.
unit	Yes	String	Time series unit.

Table 4-253 Dimension

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

Response Parameters

Status code: 200

Table 4-254 Response body parameters

Parameter	Type	Description
alarm_rule_id	Long	Threshold rule ID.

Status code: 400

Table 4-255 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
error_type	String	Error type.
trace_id	String	Trace ID, which is used to search for logs and locate faults. If 2xx is returned, trace_id is empty. If 4xx , trace_id is not empty.

Example Requests

Modify a threshold rule whose name is **testaom**, alarm severity is **3**, metric name is **cpuCoreLimit**, and namespace is **PAAS.CONTAINER**.

```
https://{{Endpoint}}/v2/{{project_id}}/alarm-rules

{
    "action_enabled": false,
    "alarm_actions": [ ],
    "alarm_advice": "",
    "alarm_description": "",
    "alarm_level": 3,
    "alarm_rule_name": "aom_rule",
    "comparison_operator": ">=",
    "dimensions": [ {
        "name": "appName",
        "value": "rhm-broker"
    }],
    "evaluation_periods": 1,
    "insufficient_data_actions": [ ],
    "metric_name": "cpuCoreLimit",
    "namespace": "PAAS.CONTAINER",
    "ok_actions": [ ],
    "period": 60000,
    "statistic": "average",
    "threshold": 0,
    "unit": "Core"
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{  
    "alarm_rule_id" : 91307490000416600  
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.04003001",  
    "error_msg" : "please check request param",  
    "error_type" : "BAD_REQUEST"  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.12 Deleting a Threshold Rule

Function

This API is used to delete a threshold rule.

Calling Method

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

URI

DELETE /v2/{project_id}/alarm-rules/{alarm_rule_id}

Table 4-256 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.
alarm_rule_id	Yes	String	Threshold rule ID.

Request Parameters

Table 4-257 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Response Parameters

Status code: 400

Table 4-258 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
error_type	String	Error type.
trace_id	String	Trace ID, which is used to search for logs and locate faults. If 2xx is returned, trace_id is empty. If 4xx, trace_id is not empty.

Example Requests

Delete a threshold rule.

https://{{Endpoint}}/v2/{{project_id}}/alarm-rules/{{alarm_rule_id}}

Example Responses

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.04005001",  
    "error_msg" : "please check request param",  
    "error_type" : "BAD_REQUEST"  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.13 Querying a Threshold Rule

Function

This API is used to query a threshold rule.

Calling Method

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

URI

GET /v2/{{project_id}}/alarm-rules/{{alarm_rule_id}}

Table 4-259 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.
alarm_rule_id	Yes	String	Threshold rule ID.

Request Parameters

Table 4-260 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Response Parameters

Status code: 200

Table 4-261 Response body parameters

Parameter	Type	Description
meta_data	MetaData object	Metadata, including pagination information.
thresholds	Array of QueryAlarmResult objects	Threshold rule list.

Table 4-262 MetaData

Parameter	Type	Description
count	Integer	Number of returned records.
start	String	Start of the next page, which is used for pagination. null: No more data.
total	Integer	Total number of records.

Table 4-263 QueryAlarmResult

Parameter	Type	Description
action_enabled	Boolean	Whether to enable notification.
alarm_actions	Array of strings	List of alarm notifications.
alarm_advice	String	Alarm clearance suggestion.
alarm_description	String	Threshold rule description.
alarm_level	String	Alarm severity.
alarm_rule_id	String	Threshold rule ID.
alarm_rule_name	String	Threshold rule name.
comparison_operator	String	Comparison operator.
dimensions	Array of Dimension objects	List of time series dimensions.
evaluation_periods	Integer	Interval.
id_turn_on	Boolean	Whether to enable the threshold rule.
insufficient_data_actions	Array of strings	List of insufficient data notifications.
metric_name	String	Time series name.
namespace	String	Time series objects' namespace.
ok_actions	Array of strings	List of normal status notifications.
period	Integer	Statistical period.
policy_name	String	Threshold rule name.
resources	Array of strings	Resource information (discarded).
state_reason	String	Cause description.
state_updated_timestamp	String	Time when the status was updated.
state_value	String	Service status.

Parameter	Type	Description
statistic	String	Statistic.
threshold	String	Threshold value.
type	String	Threshold rule type.
unit	String	Threshold unit.

Table 4-264 Dimension

Parameter	Type	Description
name	String	Dimension name.
value	String	Dimension value.

Status code: 400

Table 4-265 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
error_type	String	Error type.
trace_id	String	Trace ID, which is used to search for logs and locate faults. If 2xx is returned, trace_id is empty. If 4xx , trace_id is not empty.

Example Requests

None

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "thresholds": [ {
    "alarm_actions": null,
    "alarm_advice": null,
    "alarm_description": null,
    "alarm_level": 3,
    "alarm_rule_id": 2137,
    "alarm_rule_name": "aom_rule",
    "comparison_operator": ">=",
```

```
"dimensions" : [ {  
    "name" : "appName"  
}, {  
    "value" : "rhm-broker"  
}],  
"evaluation_periods" : 1,  
"id_turn_on" : true,  
"insufficient_data_actions" : null,  
"metric_name" : "cpuCoreLimit",  
"namespace" : "PAAS.CONTAINER",  
"ok_actions" : null,  
"period" : 60000,  
"policy_name" : "23,",  
"resources" : [ ],  
"state_reason" : null,  
"state_updated_timestamp" : null,  
"statistic" : "average",  
"threshold" : 0,  
"type" : "single,",  
"unit" : "Core"  
} ]  
}
```

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{  
    "error_code" : "AOM.04004001",  
    "error_msg" : "please check request param",  
    "error_type" : "BAD_REQUEST"  
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.2.14 Deleting Threshold Rules in Batches

Function

This API is used to delete threshold rules in batches.

Calling Method

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

URI

POST /v2/{project_id}/alarm-rules/delete

Table 4-266 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Request Parameters

Table 4-267 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-268 Request body parameters

Parameter	Mandatory	Type	Description
alarm_rules	Yes	Array of strings	Name of the rule to be deleted.

Response Parameters

Status code: 400

Table 4-269 Response body parameters

Parameter	Type	Description
error_code	String	Error code.
error_msg	String	Error message.
error_type	String	Error type.
trace_id	String	Trace ID, which is used to search for logs and locate faults. If 2xx is returned, trace_id is empty. If 4xx , trace_id is not empty.

Example Requests

Delete threshold rules in batches by rule name.

```
https://{{Endpoint}}/v2/{{project_id}}/alarm-rules/delete
```

```
{
  "alarm_rules" : []
}
```

Example Responses

Status code: 400

Bad Request: The request is invalid. The client should not repeat the request without modifications.

```
{
  "error_code" : "AOM.04004001",
  "error_msg" : "please check request param",
  "error_type" : "BAD_REQUEST"
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.

Status Code	Description
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

4.3 Log

4.3.1 Querying Logs

Function

This API is used to query logs by different dimensions, such as by cluster, IP address, or application. Pagination queries are supported.

Calling Method

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

URI

POST /v1/{project_id}/als/action

Table 4-270 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID obtained from IAM. Generally, a project ID contains 32 characters.

Table 4-271 Query Parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Log API call mode. When the value is querylogs, this API is used to query logs.

Request Parameters

Table 4-272 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM.
Content-Type	Yes	String	Content type, which is application/json. Enumeration values: <ul style="list-style-type: none">• application/json

Table 4-273 Request body parameters

Parameter	Mandatory	Type	Description
category	Yes	String	Log type. Values: app_log: application log. node_log: node log. custom_log: log in a custom path.
endTime	Yes	Long	End time of the query (UTC, in ms).
hideSyslog	No	Integer	Whether to hide system logs during log queries. 0: Hide system logs. 1: Show system logs.
keyWord	No	String	Keyword for search. <ol style="list-style-type: none">1. Exact search by keyword is supported. A keyword is between two adjacent delimiters.2. Fuzzy search by keyword is supported. Example: RROR, ERRO?, ROR, ERR*, or ER*OR.3. Exact search by phrase is supported. Example: Start to refresh alm Statistic.4. Search using AND (&&) or OR () is supported. Example: query&&logs or query logs. Note: Default delimiters: , ";=();[]{}@&<>/:\n\t\r

Parameter	Mandatory	Type	Description
lineNum	No	String	Sequence number of the final log in the last query result. This parameter is not required for the first query, but is required for subsequent pagination queries.
pageSize/size	No	String	Number of logs queried each time. Default value: 5000. Recommended value: 100. For the first query, pageSize is used. For subsequent pagination queries, size is used.
searchKey	Yes	SearchKey object	Log filter criteria, which vary according to log sources.
startTime	Yes	Long	Start time of the query (UTC, in ms).
type	No	String	Pagination query. This parameter is not required for the first query, but is required for subsequent pagination queries.
isDesc	No	Boolean	Whether to query logs based on lineNum in ascending or descending order. true: lineNum in descending order (from the latest time to the earliest time) false: lineNum in ascending order (from the earliest time to the latest time)

Table 4-274 SearchKey

Parameter	Mandatory	Type	Description
appName	No	String	Application name.
clusterId	Yes	String	CCE cluster ID.
hostIP	No	String	IP address of the VM where logs are located.
nameSpace	No	String	CCE cluster namespace.
pathFile	No	String	Log file name.

Parameter	Mandatory	Type	Description
podName	No	String	Container instance name.

Response Parameters

Status code: 200

Table 4-275 Response body parameters

Parameter	Type	Description
errorCode	String	Response code. SVCSTG_AMS_2000000: Success response.
errorMessage	String	Response message.
result	String	Metadata, including results and the total number of returned records.

Status code: 400

Table 4-276 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.

Status code: 401

Table 4-277 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.

Status code: 403

Table 4-278 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.

Status code: 500

Table 4-279 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.

Status code: 503

Table 4-280 Response body parameters

Parameter	Type	Description
errorCode	String	Response code.
errorMessage	String	Response message.

Example Requests

- Example 1: Query application logs under a cluster.
`POST https://{endpoint}/v1/{project_id}/als/action?type=querylogs`

```
{  
    "category" : "app_log",  
    "endTime" : 15389000003,  
    "hideSyslog" : 0,  
    "keyWord" : "",  
    "searchKey" : {  
        "clusterId" : "c69xxxc-5xxx-1xxx-8xxx5-02xxxxx40"  
    },  
    "startTime" : 15389000003  
}
```

- Example 2: Perform pagination queries. Notes:
 - For pagination queries, the `lineNum` (sequence number of the final log in the last query result), `type` (value: `next`), and `size` parameters need to be added.
 - The values of `category`, `searchKey`, `keyWord`, `startTime`, and `endTime` must be the same as those in the first query.

- c. To implement another pagination query, change the value of `lineNum` to the sequence number of the final log in the last query result. The rest may be deduced by analogy.

```
/v1/{project_id}/als/action?type=querylogs

{
  "category" : "app_log",
  "searchKey" : {
    "clusterId" : "874xxx9a2-xxxf-xxx-8xxe-02xxxxx3"
  },
  "keyWord" : "",
  "startTime" : 156946300095,
  "endTime" : 15694600008895,
  "lineNum" : "1569463900000047",
  "type" : "next",
  "size" : 100,
  "hideSyslog" : 0
}
```

Example Responses

Status code: 200

OK: The request is successful.

```
{
  "errorCode" : "SVCSTG.ALS.200.200",
  "errorMessage" : "Query data success",
  "result" : [ {
    "data" : [ {
      "appName" : "axxs0712",
      "category" : "apx",
      "clusterId" : "c6xxxx7c-54cd-11e8-8055-025xxx1e40",
      "collectTime" : 153900000983,
      "time" : 153900000983,
      "containerName" : "contssnner-0",
      "hostIP" : "1xx.xxx.0.1xxx",
      "hostId" : "c11xxxxx11-0000b-4925-bef4-d0xxxx9b0",
      "hostName" : "1x2.168.0.xxx",
      "lineNum" : "1xxx23xxxxxx2VW5xxxxxx0ZWdlcg==",
      "logContent" : "warn:2018/10/09 06:57:01 helloworld.go:108: the main process is running now.",
      "logContentSize" : null,
      "loghash" : "4xxxxx0d40a83c17f262540xxxxxxxxfeaa30eb",
      "nameSpace" : "default",
      "pathFile" : "/xxx/xxx/xxx/xxx/xxx/xxx.trxe",
      "podName" : "axxx12-7xxf884-qxxwp",
      "serviceID" : ""
    } ],
    "total" : 5000
  } ]
}
```

Status Codes

Status Code	Description
200	OK: The request is successful.
400	Bad Request: The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized: The authentication information is incorrect or invalid.

Status Code	Description
403	Forbidden: The request is rejected. The server has received the request and understood it, but the server refuses to respond to it. The client should not repeat the request without modifications.
500	Internal Server Error: The server is able to receive the request but unable to understand the request.
503	Service Unavailable: The requested service is invalid. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

5 Examples

5.1 Querying Details About a Specified Alarm Action Rule

Scenario

This section describes how to query an alarm action rule by name.

Obtaining Basic Information

Before querying the details about an alarm action rule, obtain its rule name first. You can call the API for obtaining the alarm action rule list or go to the AOM 2.0 console to obtain the rule name.

Querying Details About a Specified Alarm Action Rule

- URI format
 - URI format: GET /v2/{project_id}/alert/action-rules/{rule_name}
- Example request
 - GET https://{Endpoint}/v2/{project_id}/alert/action-rules/{rule_name}
- Example response

```
{  
    "create_time": 1665991889597,  
    "notification_template": "aom.built-in.template.zh",  
    "project_id": "xxxxxxxxxxxxxxxxxxxxxxf",  
    "rule_name": "1112222",  
    "smn_topics": [  
        {"display_name": "",  
         "name": "gxxxxxt",  
         "push_policy": 0,  
         "status": 0,  
         "topic_urn": "urn:smn:xxxx:xxxxxxxxxxxxxxxxxxxxx:xxxxxt"  
    ],  
    "time_zone": "xx/XXX",  
    "type": "1",  
    "update_time": 1665991889597,
```

```
        "user_name": "kxxxxxxxxt"  
    }
```

6 Permissions Policies and Supported Actions

6.1 Introduction

You can use Identity and Access Management (IAM) for fine-grained permissions management of your AOM. If your account does not need individual IAM users, you can skip this topic.

By default, new IAM users do not have any permissions assigned. You need to add a user to one or more groups, and assign permissions policies or roles to these groups. The user then inherits permissions from the groups it is a member of. This process is called authorization. After authorization, the user can perform specified operations on AOM.

You can grant users permissions by using roles and policies. Roles are provided by IAM to define service-based permissions that match users' job responsibilities. Policies define API-based permissions for operations on specific resources under certain conditions, allowing for more fine-grained, secure access control of cloud resources.

NOTE

If you want to allow or deny the access to an API, use policy-based authorization.

Your account has all the permissions required to call all APIs, but IAM users under your account must be assigned the required permissions. The required permissions are determined by the actions supported by the API. Only users with the policies allowing for those actions can call the API successfully. For example, if an IAM user wants to query metrics using an API, the user must have been granted permissions that allow the **aom:metric:get** action.

Supported Actions

AOM provides system-defined policies that can be directly used in IAM. You can also create custom policies to supplement system-defined policies for more refined access control. Operations supported by policies are specific to APIs. The following are common concepts related to policies:

- Permissions: actions defined in custom policies.

- APIs: REST APIs that can be called by a user who has been granted specific permissions.
- Actions: specific operations that are allowed or denied in a custom policy.
- IAM projects/Enterprise projects: the authorization scope of a custom policy. A custom policy can be applied to IAM projects or enterprise projects or both. Policies that contain actions for both IAM and enterprise projects can be used and applied for both IAM and Enterprise Management. Policies that contain actions only for IAM projects can be used and applied to IAM only. Administrators can check whether an action supports IAM projects or enterprise projects in the action list. .

AOM supports the following actions that can be defined in custom policies:

- **6.2.1 Alarm APIs:** includes the actions supported by alarm APIs, such as the API for querying alarms.
- **6.2.2 Monitoring APIs:** includes the actions supported by monitoring APIs, such as the API for querying metrics.
- **6.2.3 Log APIs:** includes the actions supported by log APIs, such as the API for querying logs.

6.2 Actions Supported by Policy-based Authorization

6.2.1 Alarm APIs



✓: supported; x: not supported

Table 6-1 Alarm APIs

Permission	API	Action	IAM Project	Enterprise Project
Adding an event alarm rule	POST /v2/{project_id}/event2alarm-rule	aom:event2AlarmRule:create	✓	x
Querying the event alarm rule list	GET /v2/{project_id}/event2alarm-rule	aom:event2AlarmRule:list	✓	x
Modifying an event alarm rule	PUT /v2/{project_id}/event2alarm-rule	aom:event2AlarmRule:set	✓	x

Permission	API	Action	IAM Project	Enterprise Project
Deleting an event alarm rule	DELETE /v2/{project_id}/event2alarm-rule	aom:event2AlarmRule:delete	✓	✗
Obtaining the sent alarm content	GET /v2/{project_id}/alarm-notified-histories	aom:alarm:list	✓	✗
Deleting a silence rule	DELETE /v2/{project_id}/alert/mute-rules	aom:muteRule:delete	✓	✓
Adding a silence rule	POST /v2/{project_id}/alert/mute-rules	aom:muteRule:create	✓	✓
Modifying a silence rule	PUT /v2/{project_id}/alert/mute-rules	aom:muteRule:update	✓	✓
Querying the silence rule list	GET /v2/{project_id}/alert/mute-rules	aom:muteRule:list	✓	✓
Querying an alarm action rule by name	GET /v2/{project_id}/alert/action-rules/{rule_name}	aom:actionRule:get	✓	✓
Adding an alarm action rule	POST /v2/{project_id}/alert/action-rules	aom:actionRule:create	✓	✓
Deleting an alarm action rule	DELETE /v2/{project_id}/alert/action-rules	aom:actionRule:delete	✓	✓
Modifying an alarm action rule	PUT /v2/{project_id}/alert/action-rules	aom:actionRule:update	✓	✓

Permission	API	Action	IAM Project	Enterprise Project
Querying the alarm rule list	GET /v2/{project_id}/alert/action-rules	aom:action Rule:list	✓	✓
Querying events and alarms	POST /v2/{project_id}/events	aom:alarm:list	✓	✗
Counting events and alarms	POST /v2/{project_id}/events/statistic	aom:alarm:list	✓	✗
Reporting events and alarms	PUT /v2/{project_id}/push/events	aom:alarm:put	✓	✗

6.2.2 Monitoring APIs



✓: supported; ✗: not supported

Table 6-2 Monitoring APIs

Permission	API	Action	IAM Project	Enterprise Project
Querying time series objects	POST /v2/{project_id}/series	aom:metric:list	✓	✗
Querying time series data	POST /v2/{project_id}/samples	aom:metric:list	✓	✗
Querying metrics	POST /v1/{project_id}/ams/metrics	aom:metric:get	✓	✗
Querying monitoring data	POST /v1/{project_id}/ams/metricdata	aom:metric:get	✓	✗

Permission	API	Action	IAM Project	Enterprise Project
Adding or modifying a service discovery rule	PUT /v1/{project_id}/inv/servicediscoveryrules	aom:discoveryRule:set	✓	✗
Deleting a service discovery rule	DELETE /v1/{project_id}/inv/servicediscoveryrules	aom:discoveryRule:delete	✓	✗
Querying existing service discovery rules	GET /v1/{project_id}/inv/servicediscoveryrules	aom:discoveryRule:list	✓	✗
Adding a threshold rule	POST /v2/{project_id}/alarm-rules	aom:alarmRule:create	✓	✗
Querying the threshold rule list	GET /v2/{project_id}/alarm-rules	aom:alarmRule:get	✓	✗
Modifying a threshold rule	PUT /v2/{project_id}/alarm-rules	aom:alarmRule:set	✓	✗
Deleting a threshold rule	DELETE /v2/{project_id}/alarm-rules/{alarm_rule_id}	aom:alarmRule:delete	✓	✗
Querying a threshold rule	GET /v2/{project_id}/alarm-rules/{alarm_rule_id}	aom:alarmRule:get	✓	✗
Deleting threshold rules in batches	POST /v2/{project_id}/alarm-rules/delete	aom:alarmRule:delete	✓	✗

6.2.3 Log APIs



✓: supported; x: not supported

Table 6-3 Log APIs

Permission	API	Action	IAM Project	Enterprise Project
Querying logs	POST /v1/{project_id}/als/action	aom:log:list	✓	x

7 Appendix

7.1 Status Codes

[Table 7-1](#) describes status codes.

Table 7-1 Status codes

Status Code	Message	Description
100	Continue	The client should continue with its request. This interim response is used to inform the client that the initial part of the requests has been received and not rejected by the server.
101	Switching Protocols	The protocol should be switched. The protocol can only be switched to a more advanced protocol. For example, a new HTTP protocol.
200	OK	The request has succeeded.
201	Created	The request has been fulfilled, resulting in the creation of a new resource.
202	Accepted	The request has been accepted, but the processing has not been completed.
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.
204	No Content	The server has successfully processed the request, but does not return any content. The status code is returned in response to an HTTP OPTIONS request.
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.

Status Code	Message	Description
206	Partial Content	The server has successfully processed a part of the GET request.
300	Multiple Choices	There are multiple options for the location of the requested resource. The response contains a list of resource characteristics and addresses from which a user terminal (such as a browser) can choose the most appropriate one.
301	Moved Permanently	The requested resource has been assigned with a new permanent URI. This new URI is contained in the response.
302	Found	The requested resource resides temporarily under a different URI.
303	See Other	The response to the request can be found under a different URI. It should be retrieved using a GET or POST method.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, it does not return any resources.
305	Use Proxy	The requested resource must be accessed through a proxy.
306	Unused	This HTTP status code is no longer used.
400	Bad Request	The request is invalid. The client should not repeat the request without modifications.
401	Unauthorized	The authorization information provided by the client is incorrect or invalid.
402	Payment Required	This status code is reserved for future use.
403	Forbidden	The request is rejected. The server has received the request and understood it, but the server is refusing to respond to it. The client should not repeat the request without modifications.
404	Not Found	The requested resource cannot be found. The client should not repeat the request without modifications.

Status Code	Message	Description
405	Method Not Allowed	The method specified in the request is not supported by the requested resource. The client should not repeat the request without modifications.
406	Not Acceptable	The server cannot fulfill the request based on the content characteristics of the request.
407	Proxy Authentication Required	This status code is similar to 401, but indicates that the client must authenticate itself with the proxy first.
408	Request Timeout	The client does not produce a request within the time that the server was prepared to wait. The client may repeat the request without modifications later.
409	Conflict	The request cannot be processed due to a conflict. The resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request.
410	Gone	The requested resource cannot be found. The requested resource has been deleted permanently.
411	Length Required	The server refuses to process the request without a defined Content-Length.
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The server refuses to process a request because the request entity is too large. The server may disable the connection to prevent the client from sending requests consecutively. If the server cannot process the request temporarily, the response will contain a Retry-After field.
414	Request-URI Too Long	The request URI is too long for the server to process.
415	Unsupported Media Type	The server cannot process the media format in the request.
416	Requested Range Not Satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the Expect request-header field.

Status Code	Message	Description
422	Unprocessable Entity	The request is well-formed but is unable to be processed due to semantic errors.
429	Too Many Requests	The client sends excessive requests to the server within a given time (exceeding the limit on the access frequency of the client), or the server receives excessive requests within a given time (beyond its processing capability). In this case, the client should repeat requests after the time specified in the Retry-After header of the response expires.
500	Internal Server Error	The server is able to receive the request but unable to understand the request.
501	Not Implemented	The server does not support the function required to fulfill the request.
502	Bad Gateway	The server acting as a gateway or proxy receives an invalid response from a remote server.
503	Service Unavailable	The requested service is invalid. The client should not repeat the request without modifications.
504	Server Timeout	The request cannot be fulfilled within a given time. This status code is returned to the client only when the timeout parameter is specified in the request.
505	HTTP Version Not Supported	The server does not support the HTTP protocol version used in the request.

7.2 Error Codes

Status Code	Error Code	Message	Description	Solution
200	SVCSTG.INV.2000000	null	The request is properly executed.	No action is required after the request is executed.
200	SVCSTG_AMS_2000000	null	The request is properly executed.	No action is required after the request is executed.

Status Code	Error Code	Message	Description	Solution
300	AOM.08001300	The maximum number of rules has been reached.	The maximum number of rules has been reached.	Delete unneeded rules and try again.
400	AOM.0400	Bad request.	Incorrect request parameter.	Check whether the parameter meets requirements.
400	AOM.02001101	Invalid rule name.	Invalid rule name.	Check whether the parameter meets requirements.
400	AOM.02001102	The rule name already exists.	The rule name already exists.	Check whether the parameter meets requirements.
400	AOM.02001103	Invalid description.	Invalid description.	Check whether the parameter meets requirements.
400	AOM.02001104	Invalid threshold.	Invalid threshold.	Check whether the parameter meets requirements.
400	AOM.02001105	Invalid period.	Invalid period.	Check whether the parameter meets requirements.
400	AOM.02001106	Invalid email.	Invalid email.	Check whether the parameter meets requirements.
400	AOM.02001107	The maximum number of rules has been reached.	The maximum number of rules has been reached.	Check whether the parameter meets requirements.
400	AOM.02001108	Invalid time range.	Invalid time range.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02001109	Threshold [xxx] is not exist	Threshold rule xxx does not exist.	Check whether the parameter meets requirements.
400	AOM.02001110	Invalid limit.	Invalid limit.	Check whether the parameter meets requirements.
400	AOM.02001111	Invalid offset.	Invalid offset.	Check whether the parameter meets requirements.
400	AOM.02001112	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02001115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02001118	Invalid number of consecutive periods.	Invalid number of consecutive periods.	Check whether the parameter meets requirements.
400	AOM.02001119	Invalid statistic.	Invalid statistic.	Check whether the parameter meets requirements.
400	AOM.02001120	Invalid comparison operator.	Invalid comparison operator.	Check whether the parameter meets requirements.
400	AOM.02001121	The rule does not exist.	The rule does not exist.	Check whether the parameter meets requirements.
400	AOM.02001400	Bad request.	Bad request.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02002101	Invalid rule.	Invalid rule.	Check whether the parameter meets requirements.
400	AOM.02002102	The rule name already exists.	The rule name already exists.	Check whether the parameter meets requirements.
400	AOM.02002103	Invalid description.	Invalid description.	Check whether the parameter meets requirements.
400	AOM.02002104	Invalid threshold.	Invalid threshold.	Check whether the parameter meets requirements.
400	AOM.02002105	Invalid period.	Invalid period.	Check whether the parameter meets requirements.
400	AOM.02002106	Invalid email.	Invalid email.	Check whether the parameter meets requirements.
400	AOM.02002107	The maximum number of rules has been reached.	The maximum number of rules has been reached.	Check whether the parameter meets requirements.
400	AOM.02002108	Invalid time range.	Invalid time range.	Check whether the parameter meets requirements.
400	AOM.02002109	Invalid project ID.	Invalid project ID.	Check whether the parameter meets requirements.
400	AOM.02002110	Invalid limit.	Invalid limit.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02002111	Invalid offset.	Invalid offset.	Check whether the parameter meets requirements.
400	AOM.02002112	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02002115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02002118	Invalid number of consecutive periods.	Invalid number of consecutive periods.	Check whether the parameter meets requirements.
400	AOM.02002119	Invalid statistic.	Invalid statistic.	Check whether the parameter meets requirements.
400	AOM.02002120	Invalid comparison operator.	Invalid comparison operator.	Check whether the parameter meets requirements.
400	AOM.02002121	The rule does not exist.	The rule does not exist.	Check whether the parameter meets requirements.
400	AOM.02002400	Bad request.	Bad request.	Check whether the parameter meets requirements.
400	AOM.02003101	Invalid rule.	Invalid rule.	Check whether the parameter meets requirements.
400	AOM.02003102	The rule name already exists.	The rule name already exists.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02003103	Invalid description.	Invalid description.	Check whether the parameter meets requirements.
400	AOM.02003104	Invalid threshold.	Invalid threshold.	Check whether the parameter meets requirements.
400	AOM.02003105	Invalid period.	Invalid period.	Check whether the parameter meets requirements.
400	AOM.02003106	Invalid email.	Invalid email.	Check whether the parameter meets requirements.
400	AOM.02003107	The maximum number of rules has been reached.	The maximum number of rules has been reached.	Check whether the parameter meets requirements.
400	AOM.02003108	Invalid time range.	Invalid time range.	Check whether the parameter meets requirements.
400	AOM.02003109	Invalid project ID.	Invalid project ID.	Check whether the parameter meets requirements.
400	AOM.02003110	Invalid limit.	Invalid limit.	Check whether the parameter meets requirements.
400	AOM.02003111	Invalid offset.	Invalid offset.	Check whether the parameter meets requirements.
400	AOM.02003112	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02003115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02003118	Invalid number of consecutive periods.	Invalid number of consecutive periods.	Check whether the parameter meets requirements.
400	AOM.02003119	Invalid statistic.	Invalid statistic.	Check whether the parameter meets requirements.
400	AOM.02003120	Invalid comparison operator.	Invalid comparison operator.	Check whether the parameter meets requirements.
400	AOM.02003121	The rule does not exist.	The rule does not exist.	Check whether the parameter meets requirements.
400	AOM.02003400	Bad request.	Bad request.	Check whether the parameter meets requirements.
400	AOM.02004101	Invalid rule.	Invalid rule.	Check whether the parameter meets requirements.
400	AOM.02004102	The rule name already exists.	The rule name already exists.	Check whether the parameter meets requirements.
400	AOM.02004103	Invalid description.	Invalid description.	Check whether the parameter meets requirements.
400	AOM.02004104	Invalid threshold.	Invalid threshold.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02004105	Invalid period.	Invalid period.	Check whether the parameter meets requirements.
400	AOM.02004106	Invalid email.	Invalid email.	Check whether the parameter meets requirements.
400	AOM.02004107	The maximum number of rules has been reached.	The maximum number of rules has been reached.	Check whether the parameter meets requirements.
400	AOM.02004108	Invalid time range.	Invalid time range.	Check whether the parameter meets requirements.
400	AOM.02004109	Invalid project ID.	Invalid project ID.	Check whether the parameter meets requirements.
400	AOM.02004110	Invalid limit.	Invalid limit.	Check whether the parameter meets requirements.
400	AOM.02004111	Invalid offset.	Invalid offset.	Check whether the parameter meets requirements.
400	AOM.02004112	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02004115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02004118	Invalid number of consecutive periods.	Invalid number of consecutive periods.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02004119	Invalid statistic.	Invalid statistic.	Check whether the parameter meets requirements.
400	AOM.02004120	Invalid comparison operator.	Invalid comparison operator.	Check whether the parameter meets requirements.
400	AOM.02004121	The rule does not exist.	The rule does not exist.	Check whether the parameter meets requirements.
400	AOM.02004400	Bad request.	Bad request.	Check whether the parameter meets requirements.
400	AOM.02005101	Invalid rule.	Invalid rule.	Check whether the parameter meets requirements.
400	AOM.02005102	The rule name already exists.	The rule name already exists.	Check whether the parameter meets requirements.
400	AOM.02005103	Invalid description.	Invalid description.	Check whether the parameter meets requirements.
400	AOM.02005104	Invalid threshold.	Invalid threshold.	Check whether the parameter meets requirements.
400	AOM.02005105	Invalid period.	Invalid period.	Check whether the parameter meets requirements.
400	AOM.02005106	Invalid email.	Invalid email.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02005107	The maximum number of rules has been reached.	The maximum number of rules has been reached.	Check whether the parameter meets requirements.
400	AOM.02005108	Invalid time range.	Invalid time range.	Check whether the parameter meets requirements.
400	AOM.02005109	Invalid project ID.	Invalid project ID.	Check whether the parameter meets requirements.
400	AOM.02005110	Invalid limit.	Invalid limit.	Check whether the parameter meets requirements.
400	AOM.02005111	Invalid offset.	Invalid offset.	Check whether the parameter meets requirements.
400	AOM.02005112	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02005115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.02005118	Invalid number of consecutive periods.	Invalid number of consecutive periods.	Check whether the parameter meets requirements.
400	AOM.02005119	Invalid statistic.	Invalid statistic.	Check whether the parameter meets requirements.
400	AOM.02005120	Invalid comparison operator.	Invalid comparison operator.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.02005121	The rule does not exist.	The rule does not exist.	Check whether the parameter meets requirements.
400	AOM.02005400	Bad request.	Bad request.	Check whether the parameter meets requirements.
400	AOM.04007101	Invalid namespace.	Invalid namespace.	Check whether the parameter meets requirements.
400	AOM.04007102	Invalid inventory ID.	Invalid inventory ID.	Check whether the parameter meets requirements.
400	AOM.04007103	The project ID cannot be left blank.	The project ID cannot be left blank.	Check whether the parameter meets requirements.
400	AOM.04007104	Invalid type.	Invalid type.	Check whether the parameter meets requirements.
400	AOM.04007105	Invalid limit.	Invalid limit.	Check whether the parameter meets requirements.
400	AOM.04007106	Invalid offset.	Invalid offset.	Check whether the parameter meets requirements.
400	AOM.04007107	Invalid parent inventory ID.	Invalid parent inventory ID.	Check whether the parameter meets requirements.
400	AOM.04007108	Invalid type and relation.	Invalid type and relation.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.04007109	Invalid metric name.	Invalid metric name.	Check whether the parameter meets requirements.
400	AOM.04007110	Invalid relation.	Invalid relation.	Check whether the parameter meets requirements.
400	AOM.04007111	The type and relation cannot be left blank.	The type and relation cannot be left blank.	Check whether the parameter meets requirements.
400	AOM.04007112	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.04007115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.04007118	Invalid number of consecutive periods.	Invalid number of consecutive periods.	Check whether the parameter meets requirements.
400	AOM.04007119	Invalid statistic.	Invalid statistic.	Check whether the parameter meets requirements.
400	AOM.04007120	Invalid comparison operator.	Invalid comparison operator.	Check whether the parameter meets requirements.
400	AOM.04007400	Bad request.	Bad request.	Check whether the parameter meets requirements.
400	AOM.04008101	Invalid namespace.	Invalid namespace.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.04008102	Invalid inventory ID.	Invalid inventory ID.	Check whether the parameter meets requirements.
400	AOM.04008103	The project ID cannot be left blank.	The project ID cannot be left blank.	Check whether the parameter meets requirements.
400	AOM.04008104	Invalid type.	Invalid type.	Check whether the parameter meets requirements.
400	AOM.04008105	Invalid limit.	Invalid limit.	Check whether the parameter meets requirements.
400	AOM.04008106	Invalid offset.	Invalid offset.	Check whether the parameter meets requirements.
400	AOM.04008107	Invalid parent inventory ID.	Invalid parent inventory ID.	Check whether the parameter meets requirements.
400	AOM.04008108	Invalid type and relation.	Invalid type and relation.	Check whether the parameter meets requirements.
400	AOM.04008109	Invalid metric name.	Invalid metric name.	Check whether the parameter meets requirements.
400	AOM.04008110	Invalid relation.	Invalid relation.	Check whether the parameter meets requirements.
400	AOM.04008111	The type and relation cannot be left blank.	The type and relation cannot be left blank.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.04008112	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.04008115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	AOM.04008118	Invalid number of consecutive periods.	Invalid number of consecutive periods.	Check whether the parameter meets requirements.
400	AOM.04008119	Invalid statistic.	Invalid statistic.	Check whether the parameter meets requirements.
400	AOM.04008120	Invalid comparison operator.	Invalid comparison operator.	Check whether the parameter meets requirements.
400	AOM.04008400	Bad request.	Bad request.	Check whether the parameter meets requirements.
400	AOM.07001400	Invalid parameter.	Invalid parameter.	Check whether the parameter meets requirements.
400	AOM.11015003	The request body is empty.	The request body is empty.	Check whether the parameter meets requirements.
400	AOM.11015004	Parse request parameter failed.	Parse request parameter failed.	Check whether the parameter meets requirements.
400	AOM.11015005	Too many Prometheus instances.	Too many Prometheus instances.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.11017013	The Prometheus instance ID is empty.	The Prometheus instance ID is empty.	Check whether the parameter meets requirements.
400	AOM.11017014	Prometheus instance not found.	Prometheus instance not found.	Check whether the parameter meets requirements.
400	AOM.11017015	Invalid Prometheus instance name	Invalid Prometheus instance name.	Check whether the parameter meets requirements.
400	AOM.11017016	Invalid Prometheus instance ID.	Invalid Prometheus instance ID.	Check whether the parameter meets requirements.
400	AOM.11017017	Invalid Prometheus instance type.	Invalid Prometheus instance type.	Check whether the parameter meets requirements.
400	AOM.11017018	Invalid Prometheus instance status.	Invalid Prometheus instance status.	Check whether the parameter meets requirements.
400	AOM.11017019	Invalid application name.	Invalid application name.	Check whether the parameter meets requirements.
400	AOM.4001021	Group name repeat.	Duplicate group name.	Check whether the parameter meets requirements.
400	AOM.4001023	Group name must be set.	The group name cannot be empty.	Check whether the parameter meets requirements.
400	AOM.4001024	Record field must be set.	The recording field cannot be empty.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.4001025	Expr filed must be set.	The expression cannot be empty.	Check whether the parameter meets requirements.
400	AOM.4001026	Recording rule format invalid.	Invalid recording rule format.	Check whether the parameter meets requirements.
400	AOM.4001028	The requested content exceeds the maximum.	The request is too long.	Check whether the parameter meets requirements.
400	SVCSTG.INV.4 000115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	SVCSTG_AMS _4000001	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	SVCSTG_AMS _4000002	Invalid namespace.	Invalid namespace.	Check whether the parameter meets requirements.
400	SVCSTG_AMS _4000003	Dimensions cannot be left blank.	Dimensions cannot be left blank.	Check whether the parameter meets requirements.
400	SVCSTG_AMS _4000005	Invalid metric data type.	Invalid metric data type.	Check whether the parameter meets requirements.
400	SVCSTG_AMS _4000006	The metric data value cannot be left blank.	The metric data cannot be left blank.	Check whether the parameter meets requirements.
400	SVCSTG_AMS _4000007	Invalid dimension.	Invalid dimension.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	SVCSTG_AMS_4000008	The request exceeds 40 KB.	The request cannot exceed 40 KB.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000009	The number of elements in the dimension array exceeds the allowed limit.	Too many elements in the dimension array.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000010	Invalid collection time.	Invalid collection time.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000101	The namespace or alarm name is invalid, or the project ID is left blank.	The namespace or alarm name is invalid, or the project ID is left blank.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000102	The inventory ID is invalid, the metric data value is left blank, or the threshold rule name already exists.	The inventory ID is invalid, the metric data value is left blank, or the threshold rule name already exists.	Check whether the parameter meets requirements, or change the rule name and try again.
400	SVCSTG_AMS_4000103	Invalid range or alarm description.	Invalid range or alarm description.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000104	Invalid statistics or alarm threshold.	Invalid statistics or alarm threshold.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000105	Invalid limit, metric, or alarm period.	Invalid limit, metric, or alarm period.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000106	Invalid offset, time range, or email.	Invalid offset, time range, or email.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	SVCSTG_AMS_4000107	The number of data points in a time range exceeds 1440 or the maximum number of threshold rules has been reached.	The number of data points in a time range exceeds 1440 or the maximum number of threshold rules has been reached.	Check whether the parameter meets the requirements or contact technical support.
400	SVCSTG_AMS_4000108	Invalid time range.	Invalid time range.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000109	Invalid metric name or project ID.	Invalid metric name or project ID.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000110	Invalid filled value or limit.	Invalid filled value or limit.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000111	Invalid offset.	Invalid offset.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000115	Invalid request parameter.	Invalid request parameter.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000118	Invalid number of consecutive periods.	Invalid number of consecutive periods.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000119	Invalid statistic.	Invalid statistic.	Check whether the parameter meets requirements.
400	SVCSTG_AMS_4000120	Invalid comparison operator.	Invalid comparison operator.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	SVCSTG_AMS_4000121	The rule does not exist.	The rule does not exist.	Check whether the threshold rule exists.
400	SVCSTG_AMS_4001019	Send MetricData check param invalid	Invalid MetricData parameters.	Check whether the parameter meets requirements.
400	AOM.02006404	The rule to be deleted does not exist.	The rule does not exist.	Check whether the threshold rule exists.
400	AOM.02005404	The rule does not exist.	The rule does not exist.	Check whether the threshold rule exists.
400	AOM.02004404	The rule does not exist.	The rule does not exist.	Check whether the threshold rule exists.
400	AOM.02004001	Incorrect request parameter.	Incorrect request parameter.	Check whether the parameter meets requirements.
400	AOM.02005001	Incorrect request parameter.	Incorrect request parameter.	Check whether the parameter meets requirements.
400	AOM.02003001	Incorrect request parameter.	Incorrect request parameter.	Check whether the parameter meets requirements.
400	AOM.02011400	Incorrect request parameter.	Incorrect request parameter.	Check whether the parameter meets requirements.
400	AOM.02013125	send kafka message failed	Failed to send data to Kafka.	Contact technical support.
400	AOM.08015002	The muteName is not exist	The silence rule name does not exist.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
400	AOM.08011001	The muteName is exist	The silence rule name already exists.	Check whether the parameter meets requirements.
400	AOM.08012003	Invalid request parameter.	Incorrect request parameter.	Check whether the parameter meets requirements.
400	AOM.08018012	ActionRule already exists	The alarm action rule already exists.	Check whether the parameter meets requirements.
400	AOM.08020006	The action rule does not exist	The alarm action rule does not exist.	Check whether the parameter meets requirements.
400	AOM.08019006	The action rule does not exist	The alarm action rule does not exist.	Check whether the parameter meets requirements.
400	AOM.08032002	The request body is illegal	Invalid request body.	Check whether the parameter meets requirements.
400	AOM.08033002	The request body is illegal	Invalid request body.	Check whether the parameter meets requirements.
400	AOM.02001S VCSTG_AMS_4000115	Invalid request parameter.	Incorrect request parameter.	Check whether the parameter meets requirements.
400	AOM.02003S VCSTG_AMS_4000123	The rule does not exist	The rule does not exist.	Check whether the parameter meets requirements.
400	AOM.02001102	This Threshold rule name has been existed	The threshold rule already exists.	Check whether the parameter meets requirements.

Status Code	Error Code	Message	Description	Solution
401	AOM.0401	Unauthorized.	Incorrect authentication information.	Check the authentication information carried in the request.
401	AOM.02001401	Unauthorized.	Unauthorized.	Contact technical support.
401	AOM.02002401	Unauthorized.	Unauthorized.	Contact technical support.
401	AOM.02003401	Unauthorized.	Unauthorized.	Contact technical support.
401	AOM.02004401	Unauthorized.	Unauthorized.	Contact technical support.
401	AOM.02005401	Unauthorized.	Unauthorized.	Contact technical support.
401	AOM.04007401	Request unauthorized.	Request unauthorized.	Contact technical support.
401	AOM.04008401	Request unauthorized.	Request unauthorized.	Contact technical support.
401	SVCSTG.AMS.2000051	auth failed	Authentication failed.	Check the authentication information carried in the request.
403	AOM.0403	Forbidden.	Insufficient permissions.	Check your permissions.
403	AOM.02001403	Forbidden.	Forbidden.	Contact technical support.
403	AOM.02002403	Forbidden.	Forbidden.	Contact technical support.
403	AOM.02003403	Forbidden.	Forbidden.	Contact technical support.
403	AOM.02004403	Forbidden.	Forbidden.	Contact technical support.
403	AOM.02005403	Forbidden.	Forbidden.	Contact technical support.
403	AOM.04007403	Request forbidden.	Request forbidden.	Contact technical support.

Status Code	Error Code	Message	Description	Solution
403	AOM.04008403	Request forbidden.	Request forbidden.	Contact technical support.
403	AOM.07001403	Insufficient permissions.	Insufficient permissions.	Obtain required permissions.
403	SVCSTG.INV.4030000	Insufficient permissions.	Insufficient permissions.	Use an authorized account.
404	SVCSTG.INV.4040000	Inventory does not exists.	The resource does not exist.	Check whether the resource exists.
429	AOM.07001429	The traffic has been restricted.	The traffic has been restricted.	Send fewer API call requests.
429	AOM.08001429	Too many requests.	Too many requests.	Check whether the parameter meets requirements.
500	AOM.0500	Internal server error.	Internal server error.	Contact technical support.
500	AOM.02001500	Internal server error.	Internal server error.	Contact technical support.
500	AOM.02001501	The Cassandra session is null.	The Cassandra session is null.	Contact technical support.
500	AOM.02001502	The Cassandra execution is abnormal.	The Cassandra execution is abnormal.	Contact technical support.
500	AOM.02002500	Internal server error.	Internal server error.	Contact technical support.
500	AOM.02002501	The Cassandra session is null.	The Cassandra session is null.	Contact technical support.
500	AOM.02002502	The Cassandra execution is abnormal.	The Cassandra execution is abnormal.	Contact technical support.
500	AOM.02003500	Internal server error.	Internal server error.	Contact technical support.

Status Code	Error Code	Message	Description	Solution
500	AOM.02003501	The Cassandra session is null.	The Cassandra session is null.	Contact technical support.
500	AOM.02003502	The Cassandra execution is abnormal.	The Cassandra execution is abnormal.	Contact technical support.
500	AOM.02004500	Internal server error.	Internal server error.	Contact technical support.
500	AOM.02004501	The Cassandra session is null.	The Cassandra session is null.	Contact technical support.
500	AOM.02004502	The Cassandra execution is abnormal.	The Cassandra execution is abnormal.	Contact technical support.
500	AOM.02005500	Internal server error.	Internal server error.	Contact technical support.
500	AOM.02005501	The Cassandra session is null.	The Cassandra session is null.	Contact technical support.
500	AOM.02005502	The Cassandra execution is abnormal.	The Cassandra execution is abnormal.	Contact technical support.
500	AOM.04007500	Internal server error.	Internal server error.	Contact technical support.
500	AOM.04007501	The Cassandra session is null.	The Cassandra session is null.	Contact technical support.
500	AOM.04007502	The Cassandra execution is abnormal.	The Cassandra execution is abnormal.	Contact technical support.
500	AOM.04008500	Internal server error.	Internal server error.	Contact technical support.
500	AOM.04008501	The Cassandra session is null.	The Cassandra session is null.	Contact technical support.

Status Code	Error Code	Message	Description	Solution
500	AOM.04008502	The Cassandra execution is abnormal.	The Cassandra execution is abnormal.	Contact technical support.
500	AOM.11014001	Internal server error.	Internal server error.	Contact technical support.
500	AOM.11014002	Incorrect conversion result.	Incorrect conversion result.	Contact technical support.
500	AOM.5001010	Internal server error.	Internal server error.	Contact technical support.
500	AOM.5001019	Recording rule exist for the prometheus instance.	The rule already exists.	Contact technical support.
500	APM.00000500	Internal Server Error	Internal server error.	Contact technical support.
500	AOM.08001500	Internal Server Error	Internal server error.	Contact technical support.
500	AOM.08020500	Internal server error.	Internal server error.	Contact technical support.
500	AOM.02001500	Internal server error.	Internal server error.	Contact technical support.
500	SVCSTG.INV.5000001	The Elasticsearch session is null.	The Elasticsearch session is null.	Contact technical support.
500	SVCSTG.INV.5000002	The Elasticsearch execution is abnormal.	The Elasticsearch execution is abnormal.	Contact technical support.
500	SVCSTG.INV.5000003	The ICMGR invocation is abnormal.	The ICMGR invocation is abnormal.	Contact technical support.
500	SVCSTG.INV.5000006	The rule name already exists.	The rule name already exists.	Use another name.

Status Code	Error Code	Message	Description	Solution
500	SVCSTG.INV.5000007	The maximum number of rules has been reached.	The maximum number of rules has been reached.	Delete unnecessary rules and add new ones.
500	SVCSTG_AMS_5000000	Internal server error.	Internal server error.	Contact technical support.
503	AOM.0503	Server unavailable.	Server unavailable.	Contact technical support.
503	AOM.02001503	Server unavailable.	Server unavailable.	Contact technical support.
503	AOM.02002503	Server unavailable.	Server unavailable.	Contact technical support.
503	AOM.02003503	Server unavailable.	Server unavailable.	Contact technical support.
503	AOM.02004503	Server unavailable.	Server unavailable.	Contact technical support.
503	AOM.02005503	Server unavailable.	Server unavailable.	Contact technical support.
503	AOM.04007503	Server unavailable.	Server unavailable.	Contact technical support.
503	AOM.04008503	Server unavailable.	Server unavailable.	Contact technical support.
503	AOM.07001503	Service error.	Service error.	Check whether the backend service is normal.
503	SVCSTG_AMS_5030001	The Cassandra session is null.	The Cassandra session is null.	Contact technical support.
503	SVCSTG_AMS_5030002	The Cassandra execution is abnormal.	The Cassandra execution is abnormal.	Contact technical support.

7.3 Obtaining an Account ID and Project ID

When making API calls, you may need to enter the username, user ID, project name, and project ID in some URLs. You can obtain them on the [My Credentials](#) page.

Step 1 Log in to the management console.

Step 2 Hover over the username in the upper right corner, and choose **My Credentials**.

Step 3 On the **API Credentials** page, view the username, account ID, project name, and project ID.

----End

7.4 Common Request Headers

Table 7-2 Common request headers

Name	Description	Mandatory	Example
X-Auth-Token	User token.	Yes for token-based authentication	-
Content-Type	Content type. Enter application/json; charset=utf-8 .	Yes	application/json; charset=utf8
x-sdk-date	Time to send a request. The format is YYYYMMDD'T'HHMMSS'Z . GMT time is used.	Yes for AK/SK-based authentication	20160629T101459Z
Authorization	Signature authentication information. It can be obtained from the result of request signing.	Yes for AK/SK-based authentication	-
Host	Request server information, which is obtained from the URL of a service API. The value is hostname[:port] . If no port is specified, the default port will be used. For HTTPS, port 443 is used by default.	Yes for AK/SK-based authentication	-

7.5 Common Response Headers

A response usually contains the following headers:

Table 7-3 Response headers

Name	Description	Example
Date	(Standard HTTP header) Time when a message is sent. This field complies with RFC822 definitions.	Mon, 12 Nov 2007 15:55:01 GMT
Server	(Standard HTTP header) Software that a server uses to process the request.	Apache
Content-Length	(Standard HTTP header) Length of the response body, which is represented by a decimal number and stored in bytes.	xxx
Content-Type	(Standard HTTP header) Media type of the response body sent to the recipient.	application/json

8 Change History

Table 8-1 Change history

Released On	Description
2024-06-30	<ul style="list-style-type: none">● Added the following APIs:<ul style="list-style-type: none">– Alarm APIs– Added the APIs for deleting threshold rules in batches, querying time series objects, and querying time series data.● Optimized the following sections:<ul style="list-style-type: none">– Optimized Monitoring APIs.– Optimized the description of error codes.● Deleted the description of auto scaling APIs.
2022-08-16	Optimized the description of error codes .
2020-03-30	This issue is the first official release.