

**Cloud Search Service**

# **API Reference**

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# Contents

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| <b>1 Before You Start.....</b>                                    | <b>1</b>  |
| 1.1 Overview.....                                                 | 1         |
| 1.2 API Calling.....                                              | 1         |
| 1.3 Endpoints.....                                                | 1         |
| 1.4 Restrictions and Limitations.....                             | 1         |
| 1.5 Concepts.....                                                 | 1         |
| 1.6 Supported Cluster Versions.....                               | 3         |
| <b>2 API Overview.....</b>                                        | <b>4</b>  |
| <b>3 Calling APIs.....</b>                                        | <b>5</b>  |
| 3.1 Making an API Request.....                                    | 5         |
| 3.2 Authentication.....                                           | 8         |
| 3.3 Returned Values.....                                          | 8         |
| <b>4 Getting Started.....</b>                                     | <b>11</b> |
| <b>5 Cluster Management.....</b>                                  | <b>13</b> |
| 5.1 Creating a cluster.....                                       | 13        |
| 5.2 Querying the Cluster List.....                                | 21        |
| 5.3 Querying Cluster Details.....                                 | 28        |
| 5.4 Deleting a Cluster.....                                       | 35        |
| 5.5 Renaming a Cluster.....                                       | 36        |
| 5.6 Changing the Password of a Cluster.....                       | 37        |
| 5.7 Restarting a Cluster.....                                     | 39        |
| 5.8 Scaling Out a Cluster.....                                    | 40        |
| 5.9 Adding Instances and Expanding Instance Storage Capacity..... | 42        |
| 5.10 Changing Specifications.....                                 | 44        |
| 5.11 Obtaining the Instance Specifications List.....              | 46        |
| 5.12 Querying All Tags.....                                       | 48        |
| 5.13 Querying Tags of a Specified Cluster.....                    | 50        |
| 5.14 Adding Tags to a Cluster.....                                | 52        |
| 5.15 Deleting a Cluster Tag.....                                  | 53        |
| 5.16 Adding or Deleting Cluster Tags in Batches.....              | 54        |
| 5.17 Changing the Specifications of a Specified Node Type.....    | 57        |
| 5.18 Scaling In a Cluster by Removing a Specific Node.....        | 59        |

|                                                                                             |            |
|---------------------------------------------------------------------------------------------|------------|
| 5.19 Scaling In Nodes of a Specific Type.....                                               | 61         |
| 5.20 Downloading a Security Certificate.....                                                | 63         |
| <b>6 Kibana Public Network Access.....</b>                                                  | <b>65</b>  |
| 6.1 Enabling Kibana Public Access.....                                                      | 65         |
| 6.2 Disabling Kibana Public Access.....                                                     | 67         |
| 6.3 Modifying the Kibana Public Network Bandwidth.....                                      | 68         |
| 6.4 Modifying Kibana Public Access Control.....                                             | 70         |
| 6.5 Disabling Kibana Public Network Access Control.....                                     | 72         |
| <b>7 Log Management.....</b>                                                                | <b>74</b>  |
| 7.1 Enabling the Log Function.....                                                          | 74         |
| 7.2 Disabling the Log Function.....                                                         | 75         |
| 7.3 Querying the Job List.....                                                              | 77         |
| 7.4 Querying Basic Log Configurations.....                                                  | 79         |
| 7.5 Modifying Basic Log Configurations.....                                                 | 81         |
| 7.6 Enabling the Automatic Log Backup Policy.....                                           | 83         |
| 7.7 Disabling the Automatic Log Backup Policy.....                                          | 84         |
| 7.8 Backing Up Logs.....                                                                    | 85         |
| 7.9 Searching for Logs.....                                                                 | 86         |
| <b>8 Public Network Access.....</b>                                                         | <b>89</b>  |
| 8.1 Enabling Public Network Access.....                                                     | 89         |
| 8.2 Disabling Public Network Access.....                                                    | 91         |
| 8.3 Modifying Public Network Access Bandwidth.....                                          | 93         |
| 8.4 Enabling the Public Network Access Control Whitelist.....                               | 94         |
| 8.5 Disabling the Public Network Access Control Whitelist.....                              | 96         |
| <b>9 Snapshot Management.....</b>                                                           | <b>98</b>  |
| 9.1 (Not Recommended) Automatically Setting Basic Configurations of a Cluster Snapshot..... | 98         |
| 9.2 Modifying Basic Configurations of a Cluster Snapshot.....                               | 99         |
| 9.3 Manually Creating a Snapshot.....                                                       | 101        |
| 9.4 Restoring a Snapshot.....                                                               | 103        |
| 9.5 Deleting a Snapshot.....                                                                | 106        |
| 9.6 Configuring the Automatic Snapshot Creation Policy.....                                 | 107        |
| 9.7 Querying the Automatic Snapshot Creation Policy.....                                    | 110        |
| 9.8 Querying a Snapshot List.....                                                           | 111        |
| 9.9 Disabling the Snapshot Function.....                                                    | 115        |
| <b>10 VPC Endpoint.....</b>                                                                 | <b>117</b> |
| 10.1 Enabling the VPC Endpoint Service.....                                                 | 117        |
| 10.2 Disabling the VPC Endpoint Service.....                                                | 119        |
| 10.3 Obtaining an Endpoint Connection.....                                                  | 120        |
| 10.4 Updating an Endpoint Connection.....                                                   | 123        |
| 10.5 Modifying the Endpoint Service Whitelist.....                                          | 125        |

**11 Parameter Configuration..... 127**

11.1 Modifying Cluster Parameters..... 127

11.2 Obtaining the Task List of Parameter Configurations..... 129

11.3 Obtaining the Parameter Configuration List..... 131

**12 Common Parameters..... 134**

12.1 Obtaining a Project ID and Name..... 134

12.2 Status Code..... 135

12.3 Error Code..... 138

**13 Change History..... 143**

# 1 Before You Start

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## 1.1 Overview

Welcome to *Cloud Search Service API Reference*. Cloud Search Service (CSS) provides hosted, distributed search engine services. It is fully compatible with open-source Elasticsearch and supports multi-condition retrieval, statistics, and reporting of structured and unstructured texts.

This document provides CSS API description, syntax, parameters, and examples. CSS provides APIs for cluster management and snapshot management. You can call these APIs to easily create, query, delete, restart, and scale clusters.

## 1.2 API Calling

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

## 1.3 Endpoints

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

## 1.4 Restrictions and Limitations

- The number of CSS clusters you can create is determined by the quota. To view or increase the quota, see Quotas.
- For more constraints, see the API descriptions.

## 1.5 Concepts

- Account

An account is created after you register with the cloud platform. It has full access permissions on its resources and cloud services, such as resetting password and granting permissions. The account is a payment entity and should not be used to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.

- User

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

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

- Region

A region is a geographic area in which cloud resources are deployed.

Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other.

By creating cloud resources in different regions, you can design applications to better meet customer requirements and comply with local laws and regulations.

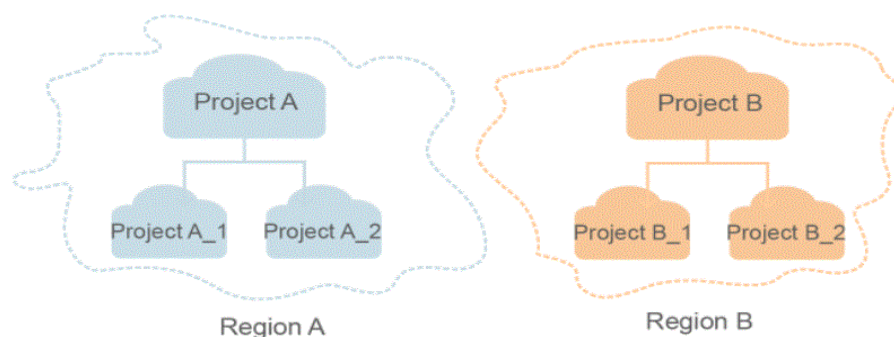
- AZ

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

- Project

Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. If you need more refined access control, create sub-projects under a default project and purchase resources in sub-projects. Then you can assign users the permissions required to access only the resources in the specific sub-projects.

**Figure 1-1** Project isolation model



- Checkpoint: When an application consumes data, the latest SN of the consumed data is recorded as a checkpoint. When the data is consumed again, the consumption can be continued based on this checkpoint.

- APP: Multiple applications can access data in the same stream. Checkpoints generated for each application are used to record the consumed data in the stream by each application.

## 1.6 Supported Cluster Versions

In CSS, Elasticsearch 7.1.1, 7.6.2, 7.9.3, and 7.10.2 and Kibana 7.1.1, 7.6.2, 7.9.3, and 7.10.2 are supported.

# 2 API Overview

CSS APIs comply with RESTful API design specifications. You can use the functions listed in [Table 2-1](#) through calling APIs.

Table 2-1 API description

| Type                              | Description                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Cluster Management APIs           | These APIs are used to create clusters, scale out clusters, view cluster details, and obtain instance specifications.             |
| Kibana Public Network Access APIs | These APIs are used to enable, disable, and modify Kibana public access for a cluster in security mode.                           |
| Log Management APIs               | These APIs are used to enable, disable, modify, and query logs.                                                                   |
| Public Network Access APIs        | These APIs are used to enable, disable, and modify the public network access of a cluster.                                        |
| Snapshot Management APIs          | Snapshots can be used to back up and restore data. You can use snapshot management APIs to create, restore, or delete a snapshot. |
| VPC Endpoint APIs                 | These APIs can be used to enable, disable, obtain, and update VPC endpoint connections.                                           |
| Parameter Configuration APIs      | These APIs can be used to modify the parameter configurations of a cluster.                                                       |

# 3 Calling APIs

## 3.1 Making an API Request

This section describes the structure of a RESTful API request, and uses the API for Obtaining a User Token as an example to describe how to call an API. A token is a user's access credential, which contains the user identity and permission information. The obtained token is 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}**

**Table 3-1** Request URL

| Parameter     | Description                                                                                                                                                                                                                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| URI-scheme    | Protocol used to transmit requests. All APIs use <b>HTTPS</b> .                                                                                                                                                                                                          |
| Endpoint      | Domain name or IP address of the server running the REST service. The endpoint varies between services in different regions. It can be obtained from <a href="#">Endpoints</a> .                                                                                         |
| resource-path | API access path for performing a specified operation. Obtain the value from the URI of the API. For example, the <b>resource-path</b> of the API for <b>obtaining a user token</b> is <b>/v3/auth/tokens</b> .                                                           |
| query-string  | Query parameter, which is optional. Ensure that a question mark (?) is included before a query parameter that is in the format of " <b>Parameter name=Parameter value</b> ". For example, <b>limit=10</b> indicates that a maximum of 10 pieces of data is to be viewed. |

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

```
https://<iam-endpoint>/v3/auth/tokens
```

 **NOTE**

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

## Request Methods

HTTP-based request methods, which are also called operations or actions, specify the type of operations that you are requesting.

- **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 a server resource header.
- **PATCH**: requests the server to update partial content of a specified resource. If the target resource does not exist, PATCH may create a resource.

If **POST** is displayed in the URI of the API for obtaining a user token, the request is as follows:

```
POST https://{iam-endpoint}/v3/auth/tokens
```

## Request Header

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

[Table 3-2](#) lists common request header fields.

**Table 3-2** Common request headers

| Parameter    | Mandatory                                     | Description                                                                                                                                                                                                                                              |
|--------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | Yes                                           | Message body type (or format). You are advised to use the default value <b>application/json</b> .                                                                                                                                                        |
| X-Auth-Token | No (Mandatory for token-based authentication) | User token.<br>User token is the response to the API for obtaining a user token (only this API does not require authentication). After the request is processed, the value of <b>X-Subject-Token</b> in the response header (Header) is the token value. |

| Parameter  | Mandatory | Description      |
|------------|-----------|------------------|
| X-Language | No        | Request language |

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

```
POST https://{iam-endpoint}/v3/auth/tokens
Content-Type: application/json
```

## Request Body

A request body conveys information other than the request header and is generally sent in a structured format defined by the request header field **Content-Type**.

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

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

### NOTE

The **scope** parameter defines the application scope of the token, indicating that the obtained token can access only the resources in the specified project.

```
POST https://{iam-endpoint}/v3/auth/tokens
Content-Type: application/json
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username", //Username
          "password": "*****", //Login password
          "domain": {
            "name": "domainname" //Name of the account to which the user belongs
          }
        }
      }
    },
    "scope": {
      "project": {
        "id": "xxxxxxxxxxxxxxxxxxxx" //Project ID
      }
    }
  }
}
```

If all data required by a request is available, you can send the request to call an API through [curl](#), [Postman](#), or coding. For the API of obtaining a user token, **x-**

**subject-token** in the response header is the desired user token. Then, you can use the token to authenticate the calling of other APIs.

## 3.2 Authentication

CSS supports token authentication.

### Authentication Using Tokens

#### NOTE

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

A token specifies certain permissions in a computer system. Authentication using a token adds the token to a request as its header during API calling to obtain permissions to operate APIs through IAM.

```
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username", //Username
          "password": "*****", //Login password
          "domain": {
            "name": "domainname" //Name of the account that the user belongs to
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxx" //Project name
      }
    }
  }
}
```

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

```
POST https://{endpoint}/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

## 3.3 Returned Values

### Status Code

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

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

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

## Response Header

A response header corresponds to a request header, for example, **Content-Type**.

**Figure 3-1** shows the response header for the API of obtaining a user token, where **x-subject-token** is the desired user token. Then, you can use the token to authenticate the calling of other APIs.

**Figure 3-1** Header of the response to the request for obtaining a user token

```
connection → keep-alive
content-type → application/json
date → Tue, 12 Feb 2019 06:52:13 GMT
server → Web Server
strict-transport-security → max-age=31536000; includeSubdomains;
transfer-encoding → chunked
via → proxy A
x-content-type-options → nosniff
x-download-options → noopen
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → MIIYXQYJKoZIhvcNAQcCoIIYJCCEoCAQExDTALBgIghkgB8ZQMFAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjIwMTktMDItMTNUMC
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgkIQ01wi4JlGzrpd18LGXK5bldfq4lqHCYb8P4NaY0NYejcAgzIVeFYtLWT1GSO0zxKZmlQHqj82HBqHdglZO9fuEbL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSEB7bUC
RzT6MUbpvGw
x-xss-protection → 1; mode=block;
```

## Response Body

A response body is generally returned in a structured format, corresponding to the **Content-Type** in the response header, and is used to transfer content other than the response header.

The following shows part of the response body for the API of obtaining a user token.

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

```

If an error occurs during API calling, the system returns an error code and a message to you. The following shows the format of an error response body:

```
{
  "error_msg": "The format of message is error",

```

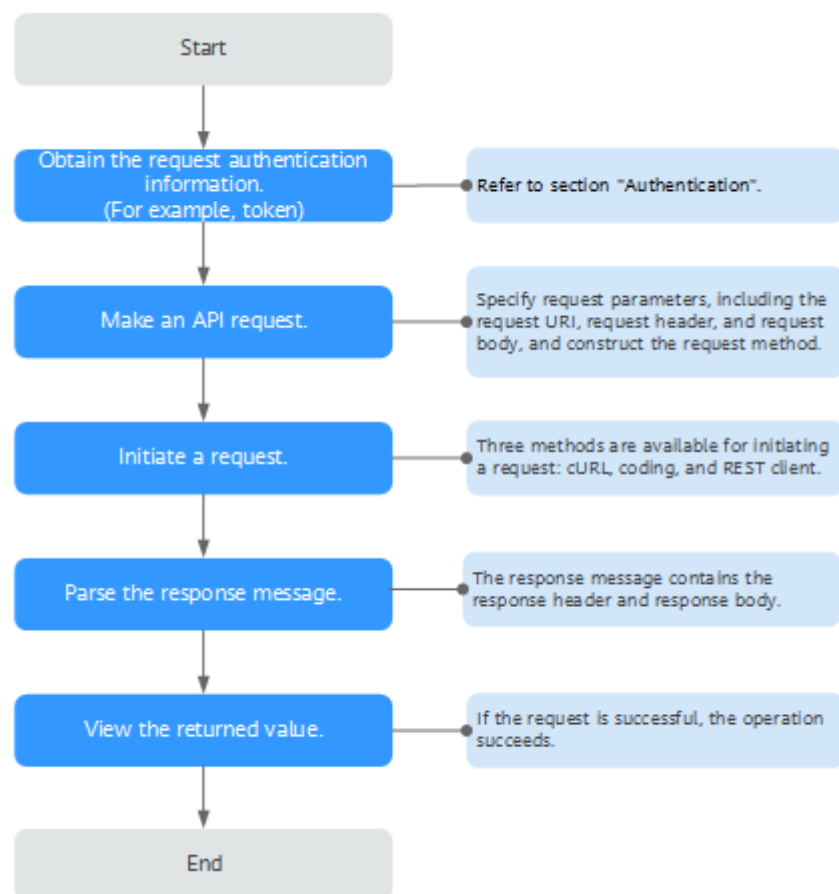
```
} "error_code": "AS.0001"
```

In the preceding information, **error\_code** is an error code, and **error\_msg** describes the error.

# 4 Getting Started

This section describes how to create a CSS cluster by using APIs. [Figure 4-1](#) illustrates the API calling process.

**Figure 4-1** API calling process



## NOTE

The token obtained on IAM is valid for only 24 hours. If you want to use one token for authentication, you can cache it to avoid frequent calling.

## Involved APIs

If you use a token for authentication, you must obtain the token and add **X-Auth-Token** to the request header of the API when making an API call.

- API for obtaining tokens from IAM
- API for creating CSS clusters

## Procedure

1. Obtain the token. Send **POST https://IAM endpoint/v3/auth/tokens**.  
Obtain the token by following instructions in [Authentication](#).  
The value of **X-Subject-Token** in the response header is the user token.
2. Add **Content-type** and **X-Auth-Token** to the request header.
  - **Content-Type**: specifies the request body type or format. Its default value is **application/json**.
  - **X-Auth-Token**: Enter the user token obtained in [1](#).
3. Send a cluster creation request and specify the following parameters in the request body:

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters
{
  "cluster": {
    "name": "ES-Test",
    "backupStrategy": {
      "period": "16:00 GMT+08:00",
      "prefix": "snapshot",
      "keepday": 7
    },
    "instanceNum": 3,
    "instance": {
      "flavorRef": "ess.spec-2u16g",
      "volume": {
        "volume_type": "COMMON",
        "size": 100
      },
      "nics": {
        "vpclId": "fccd753c-91c3-40e2-852f-5ddf76d1a1b2",
        "netId": "af1c65ae-c494-4e24-acd8-81d6b355c9f1",
        "securityGroupId": "7e3fed21-1a44-4101-ab29-34e57124f614"
      }
    }
  }
}
```

View the response message. The following is an example response:

```
{
  "cluster": {
    "id": "ef683016-871e-48bc-bf93-74a29d60d214",
    "name": "ES-Test"
  }
}
```

If the request is successful, 200 OK is returned.

If the request fails, an error code and error information are returned. For details, see section [Status Code](#).

# 5 Cluster Management

## 5.1 Creating a cluster

### Function

This API is used to create a cluster.

### URI

POST /v1.0/{project\_id}/clusters

Table 5-1 Path Parameters

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

### Request Parameters

Table 5-2 Request body parameters

| Parameter | Mandatory | Type                     | Description     |
|-----------|-----------|--------------------------|-----------------|
| cluster   | Yes       | CreateClusterBody object | Cluster object. |

**Table 5-3** CreateClusterBody

| Parameter      | Mandatory | Type                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|-----------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| instance       | Yes       | CreateClusterInstanceBody object       | Instance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| datastore      | Yes       | CreateClusterDatastoreBody object      | Search engine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| name           | Yes       | String                                 | Cluster name It can contain 4 to 32 characters. Only digits, letters, hyphens (-), and underscores (_) are allowed. The value must start with a letter.                                                                                                                                                                                                                                                                                                                                        |
| instanceNum    | Yes       | Integer                                | Number of clusters. The value range is 1 to 32.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| backupStrategy | No        | CreateClusterBackupStrategyBody object | Automatic snapshot creation policy, which is disabled by default.<br>The automatic snapshot creation policy is enabled only if <b>backupStrategy</b> is not left blank.                                                                                                                                                                                                                                                                                                                        |
| httpsEnable    | No        | Boolean                                | Whether communication is encrypted on the cluster. The value can be <b>true</b> or <b>false</b> . By default, communication encryption is disabled. If <b>httpsEnable</b> is set to <b>true</b> , <b>authorityEnable</b> must be set to <b>true</b> . <ul style="list-style-type: none"><li>• <b>true</b>: Communication is encrypted on the cluster.</li><li>• <b>false</b>: Communication is not encrypted on the cluster.</li></ul> This parameter is supported in clusters 6.5.4 or later. |

| Parameter             | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| authorityEnable       | No        | Boolean | <p>Whether to enable authentication. The value can be <b>true</b> or <b>false</b>. Authentication is disabled by default.</p> <ul style="list-style-type: none"><li>• <b>true</b> indicates that authentication is enabled for the cluster.</li><li>• <b>true</b> indicates that authentication is enabled for the cluster.</li></ul> <p>This parameter is supported in clusters 6.5.4 or later.</p>                                                                                                                                                                                                                                                                                        |
| adminPwd              | No        | String  | <p>Password of the cluster user <b>admin</b> in security mode. This parameter is mandatory only if <b>authorityEnable</b> is set to <b>true</b>.</p> <ul style="list-style-type: none"><li>• The administrator password must meet the following requirements:<ul style="list-style-type: none"><li>– The password can contain 8 to 32 characters.</li><li>– Passwords must contain at least three of the following character types: uppercase letters, lowercase letters, digits, and special characters (~!@#\$%^&amp;*()-_+=\ []{};,:&lt;.&gt;/?).</li></ul></li><li>• Weak password verification is required for a security cluster. You are advised to set a strong password.</li></ul> |
| enterprise_project_id | No        | String  | <p>Enterprise project ID. When creating a cluster, associate the enterprise project ID with the cluster. The value can contain a maximum of 36 characters. It is string <b>0</b> or in UUID format with hyphens (-). Value <b>0</b> indicates the default enterprise project.</p>                                                                                                                                                                                                                                                                                                                                                                                                           |

| Parameter | Mandatory | Type                                                   | Description  |
|-----------|-----------|--------------------------------------------------------|--------------|
| tags      | No        | Array of <a href="#">CreateClusterTagsBody</a> objects | Cluster tag. |

**Table 5-4** CreateClusterInstanceBody

| Parameter | Mandatory | Type                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| flavorRef | Yes       | String                                                 | Instance flavor. For details about the current instance flavor, see the <b>name</b> attribute in <a href="#">Obtaining the Instance Specifications List</a> .                                                                                                                                                                                                                               |
| volume    | Yes       | <a href="#">CreateClusterInstanceVolumeBody</a> object | Volume information. If <b>flavorRef</b> is set to a local disk flavor, leave this parameter blank. Currently, the following local disk flavors are supported: <ul style="list-style-type: none"><li>• ess.spec-i3small</li><li>• ess.spec-i3medium</li><li>• ess.spec-i3.8xlarge.8</li><li>• ess.spec-ds.xlarge.8</li><li>• ess.spec-ds.2xlarge.8</li><li>• ess.spec-ds.4xlarge.8</li></ul> |
| nics      | Yes       | <a href="#">CreateClusterInstanceNicsBody</a> object   | Subnet ID.                                                                                                                                                                                                                                                                                                                                                                                  |

| Parameter         | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| availability_zone | No        | String | <p>AZ. A single AZ is created when this parameter is not specified.</p> <p>Separate multiple AZs with commas (,), for example, <b>az1,az2</b>. AZs must be unique. The number of nodes must be greater than or equal to the number of AZs.</p> <p>If the number of nodes is a multiple of the number of AZs, the nodes are evenly distributed to each AZ. If the number of nodes is not a multiple of the number of AZs, the absolute difference between node quantity in any two AZs is 1 at most.</p> |

**Table 5-5** CreateClusterInstanceVolumeBody

| Parameter   | Mandatory | Type    | Description                                                                                                                                                                                                                        |
|-------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| volume_type | Yes       | String  | <p>Volume type.</p> <ul style="list-style-type: none"><li>• <b>COMMON</b>: common I/O</li><li>• <b>HIGH</b>: high I/O</li><li>• <b>ULTRAHIGH</b>: Ultra-high I/O</li></ul>                                                         |
| size        | Yes       | Integer | <p>Volume size. The value must be greater than 0 and a multiple of 4 and 10. For details about the local disk size, see the diskrange attribute in <a href="#">Obtaining the Instance Specifications List</a>.</p> <p>Unit: GB</p> |

**Table 5-6** CreateClusterInstanceNicsBody

| Parameter | Mandatory | Type   | Description                                            |
|-----------|-----------|--------|--------------------------------------------------------|
| vpclId    | Yes       | String | VPC ID, which is used for configuring cluster network. |
| netId     | Yes       | String | Subnet ID (network ID).                                |

| Parameter       | Mandatory | Type   | Description        |
|-----------------|-----------|--------|--------------------|
| securityGroupId | Yes       | String | Security group ID. |

**Table 5-7** CreateClusterDatastoreBody

| Parameter | Mandatory | Type   | Description                                                                                     |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------|
| version   | Yes       | String | Elasticsearch engine version. For details, see CSS <a href="#">Supported Cluster Versions</a> . |
| type      | Yes       | String | Engine type. Currently, only Elasticsearch is supported.                                        |

**Table 5-8** CreateClusterBackupStrategyBody

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                          |
|-----------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| period    | Yes       | String  | Time when a snapshot is automatically created every day. Snapshots can only be created on the hour. The time format is the time followed by the time zone, specifically, <b>HH:mm z</b> . In the format, <b>HH:mm</b> refers to the hour time and <b>z</b> refers to the time zone. For example, <b>00:00 GMT+08:00</b> and <b>01:00 GMT+08:00</b> . |
| prefix    | Yes       | String  | Prefix of a snapshot that is automatically created, which is manually entered. Enter up to 32 characters and start with a lowercase letter. Lowercase letters, digits, hyphens (-), and underscores (_) are allowed.                                                                                                                                 |
| keepday   | Yes       | Integer | Number of days for which automatically created snapshots are retained. Value range: 1 to 90                                                                                                                                                                                                                                                          |
| bucket    | No        | String  | Name of the OBS bucket used for backup.                                                                                                                                                                                                                                                                                                              |
| basePath  | No        | String  | Storage path of the snapshot in the OBS bucket.                                                                                                                                                                                                                                                                                                      |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                 |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| agency    | No        | String | IAM agency used to access OBS.<br><br>If none of the <b>bucket</b> , <b>basePath</b> , and <b>agency</b> parameters are specified, the system automatically creates an OBS bucket and an IAM agency. Otherwise, the configured parameters will take effect. |

**Table 5-9** CreateClusterTagsBody

| Parameter | Mandatory | Type   | Description                                                                                                                 |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. The value can contain 1 to 36 characters. It can only contain digits, letters, hyphens (-), and underscores (_).   |
| value     | Yes       | String | Tag value. The value can contain 0 to 43 characters. It can only contain digits, letters, hyphens (-), and underscores (_). |

## Response Parameters

**Status code: 200**

**Table 5-10** Response body parameters

| Parameter | Type                                                | Description                                                                                                 |
|-----------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| cluster   | <a href="#">CreateClusterClusterResponse</a> object | Cluster object. [For a pay-per-use cluster, only the <b>cluster</b> parameter is returned.]<br>(tag:hc,hws) |

**Table 5-11** CreateClusterClusterResponse

| Parameter | Type   | Description  |
|-----------|--------|--------------|
| id        | String | Cluster ID.  |
| name      | String | Cluster name |

## Example Requests

Example request for creating a pay-per-use cluster.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters

{
  "cluster" : {
    "name" : "ES-Test",
    "datastore" : {
      "version" : "x.x.x",
      "type" : "elasticsearch"
    },
    "backupStrategy" : {
      "period" : "16:00 GMT+08:00",
      "prefix" : "snapshot",
      "keepday" : 7
    },
    "instanceNum" : 4,
    "instance" : {
      "flavorRef" : "ess.spec-XuXg",
      "volume" : {
        "volume_type" : "COMMON",
        "size" : 100
      },
      "nics" : {
        "vpclId" : "fccd753c-xxx-xxx-xxx-5ddf78d1a1b2",
        "netId" : "af1c65ae-xxx-xxx-xxx-81d6b365c9f1",
        "securityGroupId" : "7e3fed21-xxx-xxx-xxx-34e51124f614"
      },
      "availability_zone" : "xx-xxx-xx"
    },
    "httpsEnable" : true,
    "authorityEnable" : true,
    "adminPwd" : "xxxxxx",
    "enterprise_project_id" : "3e1c74a0-xxx-xxx-xxxx-c6b9e46cf81b",
    "tags" : [ {
      "key" : "k1",
      "value" : "v1"
    }, {
      "key" : "k2",
      "value" : "v2"
    } ]
  }
}
```

## Example Responses

**Status code: 200**

Request succeeded.

Example response for creating a pay-per-use cluster.

```
{
  "cluster" : {
    "id" : "ef683016-871e-48bc-bf93-74a29d60d214",
    "name" : "ES-Test"
  }
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 5.2 Querying the Cluster List

### Function

This API is used to query and display the cluster list and cluster status.

### URI

GET /v1.0/{project\_id}/clusters

**Table 5-12** Path Parameters

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

**Table 5-13** Query Parameters

| Parameter | Mandatory | Type    | Description                                                                                                       |
|-----------|-----------|---------|-------------------------------------------------------------------------------------------------------------------|
| start     | No        | Integer | The start value of the query.<br>The default value is 1, indicating that the query starts from the first cluster. |

| Parameter | Mandatory | Type    | Description                                                                                                                        |
|-----------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------|
| limit     | No        | Integer | Number of clusters to be queried. The default value is 10, indicating that the information about 10 clusters is queried at a time. |

## Request Parameters

None

## Response Parameters

Status code: 200

**Table 5-14** Response body parameters

| Parameter | Type                                         | Description              |
|-----------|----------------------------------------------|--------------------------|
| totalSize | Integer                                      | Number of clusters       |
| clusters  | Array of <a href="#">ClusterList</a> objects | List of cluster objects. |

**Table 5-15** ClusterList

| Parameter        | Type                                                  | Description                                                                              |
|------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------|
| datastore        | <a href="#">ClusterListDatastore</a> object           | Search engine.                                                                           |
| instances        | Array of <a href="#">ClusterListInstances</a> objects | List of node objects.                                                                    |
| publicKibanaResp | <a href="#">publicKibanaRespBody</a> object           | Kibana public network access information.                                                |
| elbWhiteList     | <a href="#">elbWhiteListResp</a> object               | EIP whitelist.                                                                           |
| updated          | String                                                | Last modification time of a cluster. The format is <b>ISO8601: CCYY-MM-DDThh:mm:ss</b> . |
| name             | String                                                | Cluster name                                                                             |
| publicIp         | String                                                | Public IP address information.                                                           |

| Parameter       | Type    | Description                                                                                                                                                                                                        |
|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| created         | String  | Cluster creation time. The format is <b>ISO8601: CCYY-MM-DDThh:mm:ss</b> .<br>The returned cluster list is sorted by creation time in descending order. The latest cluster is displayed at the top.                |
| id              | String  | Cluster ID.                                                                                                                                                                                                        |
| status          | String  | Cluster status. <ul style="list-style-type: none"><li>● <b>100</b>: Creating</li><li>● <b>200</b>: Available</li><li>● <b>303</b>: Unavailable, for example, due to a creation failure.</li></ul>                  |
| endpoint        | String  | IP address and port number of the user used to access the VPC.                                                                                                                                                     |
| vpId            | String  | ID of a VPC.                                                                                                                                                                                                       |
| subnetId        | String  | Subnet ID.                                                                                                                                                                                                         |
| securityGroupId | String  | Security group ID.                                                                                                                                                                                                 |
| bandwidthSize   | Integer | Public network bandwidth. Unit: Mbit/s                                                                                                                                                                             |
| httpsEnable     | Boolean | Communication encryption status. <ul style="list-style-type: none"><li>● <b>false</b>: Communication encryption is not enabled.</li><li>● <b>true</b>: Communication encryption is enabled.</li></ul>              |
| authorityEnable | Boolean | Whether to enable authentication. <ul style="list-style-type: none"><li>● <b>true</b>: Authentication is enabled for the cluster.</li><li>● <b>false</b>: Authentication is not enabled for the cluster.</li></ul> |
| diskEncrypted   | Boolean | Whether disks are encrypted. <ul style="list-style-type: none"><li>● <b>true</b>: Disks are encrypted.</li><li>● <b>false</b>: Disk are not encrypted.</li></ul>                                                   |
| backupAvailable | Boolean | Whether the snapshot function is enabled. <ul style="list-style-type: none"><li>● <b>true</b>: The snapshot function is enabled.</li><li>● <b>false</b>: The snapshot function is disabled.</li></ul>              |
| actionProgress  | Object  | Cluster behavior progress, which shows the progress of cluster creation and scaling in percentage. <b>CREATING</b> indicates the progress of creation.                                                             |

| Parameter           | Type                                             | Description                                                                                                                                                                                                                                                                              |
|---------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| actions             | Array of strings                                 | Current behavior of a cluster. <b>REBOOTING</b> indicates that the cluster is being restarted. <b>GROWING</b> indicates that the cluster is being scaled. <b>RESTORING</b> indicates that the cluster is being restored. <b>SNAPSHOTTING</b> indicates that a snapshot is being created. |
| enterpriseProjectId | String                                           | ID of the enterprise project that a cluster belongs to. If the user of the cluster does not enable the enterprise project, the setting of this parameter is not returned.                                                                                                                |
| tags                | Array of <a href="#">ClusterListTags</a> objects | Cluster tag.                                                                                                                                                                                                                                                                             |
| failedReason        | <a href="#">ClusterListFailedReasons</a> object  | Failure cause. If the cluster is in the available status, this parameter is not returned.                                                                                                                                                                                                |

**Table 5-16** ClusterListDatastore

| Parameter | Type   | Description                                                                                          |
|-----------|--------|------------------------------------------------------------------------------------------------------|
| type      | String | Engine type. Currently, only Elasticsearch is supported.                                             |
| version   | String | Version of the CSS cluster engine. For details, see CSS <a href="#">Supported Cluster Versions</a> . |

**Table 5-17** ClusterListInstances

| Parameter | Type   | Description                                                                                                                                                                                    |
|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status    | String | Node status. <ul style="list-style-type: none"><li>● <b>100</b>: Creating</li><li>● <b>200</b>: Available</li><li>● <b>303</b>: Unavailable, for example, due to a creation failure.</li></ul> |
| type      | String | Type of the current node.                                                                                                                                                                      |
| id        | String | Instance ID.                                                                                                                                                                                   |
| name      | String | Instance name.                                                                                                                                                                                 |
| specCode  | String | Node specifications.                                                                                                                                                                           |
| azCode    | String | AZ of a node.                                                                                                                                                                                  |

| Parameter | Type                                     | Description                               |
|-----------|------------------------------------------|-------------------------------------------|
| ip        | String                                   | Instance IP address.                      |
| volume    | <a href="#">ClusterVolumeResp</a> object | definitions.ClusterVolumeResp.description |

**Table 5-18** ClusterVolumeResp

| Parameter | Type    | Description                            |
|-----------|---------|----------------------------------------|
| type      | String  | Type of the disk used by the instance. |
| size      | Integer | Instance disk information              |

**Table 5-19** publicKibanaRespBody

| Parameter        | Type                                          | Description                                    |
|------------------|-----------------------------------------------|------------------------------------------------|
| eipSize          | Integer                                       | Bandwidth range. Unit: Mbit/s                  |
| elbWhiteListResp | <a href="#">kibanaElbWhiteListResp</a> object | Kibana public network access information.      |
| publicKibanaIp   | String                                        | Specifies the IP address for accessing Kibana. |

**Table 5-20** kibanaElbWhiteListResp

| Parameter       | Type    | Description                                                                                                                                                                                 |
|-----------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enableWhiteList | Boolean | Whether the Kibana access control is enabled. <ul style="list-style-type: none"><li>• <b>true</b>: Access control is enabled.</li><li>• <b>false</b>: Access control is disabled.</li></ul> |
| whiteList       | String  | Whitelist of public network for accessing Kibana.                                                                                                                                           |

**Table 5-21** elbWhiteListResp

| Parameter       | Type    | Description                                                                                                                                                                                                                       |
|-----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enableWhiteList | Boolean | Whether the public network access control is enabled. <ul style="list-style-type: none"><li>• <b>true</b>: Public network access control is enabled.</li><li>• <b>false</b>: Public network access control is disabled.</li></ul> |
| whiteList       | String  | Whitelist for public network access.                                                                                                                                                                                              |

**Table 5-22** ClusterListTags

| Parameter | Type   | Description |
|-----------|--------|-------------|
| key       | String | Tag key.    |
| value     | String | Tag value.  |

**Table 5-23** ClusterListFailedReasons

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                              |
|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| errorCode | String | Error code. <ul style="list-style-type: none"><li>• <b>CSS.6000</b>: A cluster fails to be created.</li><li>• <b>CSS.6001</b>: A cluster fails to be scaled out.</li><li>• <b>CSS.6002</b>: A cluster fails to be restarted.</li><li>• <b>CSS.6004</b>: A node fails to be created in a cluster.</li><li>• <b>CSS.6005</b>: A service fails to be initialized.</li></ul> |
| errorMsg  | String | Error details.                                                                                                                                                                                                                                                                                                                                                           |

## Example Requests

- Query the first two clusters.
  - Method 1: GET /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters?start=1&limit=2
  - Method 2: GET /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters?limit=2
- Query the first ten clusters.
  - Method 1: GET /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters?start=1&limit=10
  - Method 2: GET /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters?limit=10

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "totalSize" : 1,
  "clusters" : [ {
    "datastore" : {
      "type" : "elasticsearch",
      "version" : "7.10.2"
    },
    "instances" : [ {
      "status" : "200",
      "type" : "ess",
      "id" : "{INSTANCE_ID}",
      "name" : "css-test-ess-esn-1-1",
      "specCode" : "ess.spec-4u16g",
      "azCode" : "{AZ_CODE}",
      "volume" : {
        "type" : "COMMON",
        "size" : 40
      },
      "ip" : "192.168.0.100"
    } ],
    "publicKibanaResp" : null,
    "elbWhiteList" : {
      "whiteList" : "",
      "enableWhiteList" : false
    },
    "updated" : "2023-01-11T08:19:14",
    "name" : "css-test",
    "publicIp" : null,
    "created" : "2023-01-11T06:48:22",
    "id" : "{CLUSTER_ID}",
    "status" : "200",
    "endpoint" : "192.168.0.100:9200",
    "vpclId" : "{VPC_ID}",
    "subnetId" : "{SUBNET_ID}",
    "securityGroupId" : "{SECURITY_GROUP_ID}",
    "bandwidthSize" : 0,
    "httpsEnable" : false,
    "authorityEnable" : false,
    "diskEncrypted" : false,
    "backupAvailable" : false,
    "actionProgress" : { },
    "actions" : [ ],
    "tags" : [ ]
  }, {
    "datastore" : {
      "type" : "elasticsearch",
      "version" : "7.9.3"
    },
    "instances" : [ {
      "status" : "200",
      "type" : "ess",
      "id" : "{INSTANCE_ID}",
      "name" : "css-9227-ess-esn-1-1",
      "specCode" : "ess.spec-4u16g",
      "azCode" : "{AZ_CODE}",
      "volume" : {
        "type" : "COMMON",
        "size" : 40
      },
      "ip" : "192.168.0.101"
    } ],
    "publicKibanaResp" : null,
    "elbWhiteList" : {
      "whiteList" : "",
      "enableWhiteList" : false
    },
    "updated" : "2023-01-11T08:19:14",
    "name" : "css-new",
```

```
"publicIp" : null,
"created" : "2023-01-11T06:48:22",
"id" : "{CLUSTER_ID}",
"status" : "200",
"endpoint" : "192.168.0.101:9200",
"vpId" : "{VPC_ID}",
"subnetId" : "{SUBNET_ID}",
"securityGroupId" : "{SECURITY_GROUP_ID}",
"bandwidthSize" : 0,
"httpsEnable" : false,
"authorityEnable" : false,
"diskEncrypted" : false,
"backupAvailable" : false,
"actionProgress" : { },
"actions" : [ ],
"tags" : [ ]
}
]
```

Status Codes

| Status Code | Description                                                                    |
|-------------|--------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                             |
| 400         | Invalid request.<br>Modify the request before retry.                           |
| 404         | The requested resource could not be found.<br>Modify the request before retry. |

Error Codes

See [Error Codes](#).

5.3 Querying Cluster Details

Function

This API is used to query and display the details of a cluster.

URI

GET /v1.0/{project\_id}/clusters/{cluster\_id}

Table 5-24 Path Parameters

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

| Parameter  | Mandatory | Type   | Description                          |
|------------|-----------|--------|--------------------------------------|
| cluster_id | Yes       | String | ID of the cluster you want to query. |

## Request Parameters

None

## Response Parameters

Status code: 200

Table 5-25 Response body parameters

| Parameter        | Type                                                     | Description                                                                                                                                                                                                                               |
|------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| datastore        | <a href="#">ClusterDetail Datastore</a> object           | Search engine.                                                                                                                                                                                                                            |
| instances        | Array of <a href="#">ClusterDetail Instances</a> objects | List of node objects.                                                                                                                                                                                                                     |
| publicKibanaResp | <a href="#">publicKibana RespBody</a> object             | Kibana public network access information.                                                                                                                                                                                                 |
| elbWhiteList     | <a href="#">elbWhiteList Resp</a> object                 | Public network access information.                                                                                                                                                                                                        |
| updated          | String                                                   | Last modification time of a cluster. The format is <b>ISO8601: CCYY-MM-DDThh:mm:ss</b> .                                                                                                                                                  |
| name             | String                                                   | Cluster name                                                                                                                                                                                                                              |
| publicIp         | String                                                   | Public IP address information.                                                                                                                                                                                                            |
| created          | String                                                   | Cluster creation time. The format is <b>ISO8601: CCYY-MM-DDThh:mm:ss</b> .                                                                                                                                                                |
| id               | String                                                   | Cluster ID.                                                                                                                                                                                                                               |
| status           | String                                                   | Cluster status. <ul style="list-style-type: none"><li>● <b>100</b>: An operation, such as creation, is in progress.</li><li>● <b>200</b>: Available.</li><li>● <b>303</b>: Unavailable, for example, due to a creation failure.</li></ul> |

| Parameter       | Type             | Description                                                                                                                                                                                                                                                                                              |
|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| endpoint        | String           | IP address and port number of the user used to access the VPC.                                                                                                                                                                                                                                           |
| vpclId          | String           | VPC ID                                                                                                                                                                                                                                                                                                   |
| subnetId        | String           | Subnet ID                                                                                                                                                                                                                                                                                                |
| securityGroupId | String           | Security group ID.                                                                                                                                                                                                                                                                                       |
| vpceIp          | String           | Endpoint IP address.                                                                                                                                                                                                                                                                                     |
| bandwidthSize   | Integer          | Public network bandwidth. Unit: Mbit/s                                                                                                                                                                                                                                                                   |
| httpsEnable     | Boolean          | Communication encryption status. <ul style="list-style-type: none"><li>● <b>false</b>: Communication encryption is not enabled.</li><li>● <b>true</b>: Communication encryption is enabled.</li></ul>                                                                                                    |
| diskEncrypted   | Boolean          | Whether disks are encrypted. <ul style="list-style-type: none"><li>● <b>true</b>: Disks are encrypted.</li><li>● <b>false</b>: Disk are not encrypted.</li></ul>                                                                                                                                         |
| authorityEnable | Boolean          | Whether to enable authentication. The value can be <b>true</b> or <b>false</b> . Authentication is disabled by default. <ul style="list-style-type: none"><li>● <b>true</b>: Authentication is enabled for the cluster.</li><li>● <b>false</b>: Authentication is not enabled for the cluster.</li></ul> |
| backupAvailable | Boolean          | Whether the snapshot function is enabled. <ul style="list-style-type: none"><li>● <b>true</b>: The snapshot function is enabled.</li><li>● <b>false</b>: The snapshot function is disabled.</li></ul>                                                                                                    |
| actionProgress  | Object           | Cluster behavior progress, which shows the progress of cluster creation and scaling in percentage.                                                                                                                                                                                                       |
| actions         | Array of strings | Current behavior of a cluster. <b>REBOOTING</b> indicates that the cluster is being restarted. <b>GROWING</b> indicates that the cluster is being scaled. <b>RESTORING</b> indicates that the cluster is being restored. <b>SNAPSHOTTING</b> indicates that a snapshot is being created.                 |

| Parameter           | Type                                               | Description                                                                                                                                                                      |
|---------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enterpriseProjectId | String                                             | ID of the enterprise project that a cluster belongs to.<br><br>If the user of the cluster does not enable the enterprise project, the setting of this parameter is not returned. |
| tags                | Array of <a href="#">ClusterDetailTags</a> objects | Cluster tag.                                                                                                                                                                     |
| failedReason        | <a href="#">ClusterDetailFailedReasons</a> object  | Failure cause. If the cluster is in the available status, this parameter is not returned.                                                                                        |

**Table 5-26** ClusterDetailDatastore

| Parameter | Type   | Description                                                                                          |
|-----------|--------|------------------------------------------------------------------------------------------------------|
| type      | String | Engine type. Currently, only Elasticsearch is supported.                                             |
| version   | String | Version of the CSS cluster engine. For details, see CSS <a href="#">Supported Cluster Versions</a> . |

**Table 5-27** ClusterDetailInstances

| Parameter | Type   | Description                                                                                                                                                                                                                                  |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status    | String | Node status value. <ul style="list-style-type: none"><li>● <b>100</b>: An operation, such as creation, is in progress.</li><li>● <b>200</b>: Available.</li><li>● <b>303</b>: Unavailable, for example, due to a creation failure.</li></ul> |
| type      | String | Type of the current node.                                                                                                                                                                                                                    |
| id        | String | Instance ID.                                                                                                                                                                                                                                 |
| name      | String | Instance name.                                                                                                                                                                                                                               |
| specCode  | String | Node specifications.                                                                                                                                                                                                                         |
| azCode    | String | AZ of a node.                                                                                                                                                                                                                                |
| ip        | String | Instance IP address.                                                                                                                                                                                                                         |

| Parameter | Type                                        | Description               |
|-----------|---------------------------------------------|---------------------------|
| volume    | <a href="#">ShowClusterVolumeRsp</a> object | Instance disk information |

**Table 5-28** ShowClusterVolumeRsp

| Parameter | Type    | Description        |
|-----------|---------|--------------------|
| type      | String  | Instance disk type |
| size      | Integer | Instance disk size |

**Table 5-29** publicKibanaRespBody

| Parameter        | Type                                          | Description                                    |
|------------------|-----------------------------------------------|------------------------------------------------|
| eipSize          | Integer                                       | Bandwidth range. Unit: Mbit/s                  |
| elbWhiteListResp | <a href="#">kibanaElbWhiteListResp</a> object | Kibana public network access information.      |
| publicKibanaIp   | String                                        | Specifies the IP address for accessing Kibana. |

**Table 5-30** kibanaElbWhiteListResp

| Parameter       | Type    | Description                                                                                                                                                                                 |
|-----------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enableWhiteList | Boolean | Whether the Kibana access control is enabled. <ul style="list-style-type: none"><li>● <b>true</b>: Access control is enabled.</li><li>● <b>false</b>: Access control is disabled.</li></ul> |
| whiteList       | String  | Whitelist of public network for accessing Kibana.                                                                                                                                           |

**Table 5-31** elbWhiteListResp

| Parameter       | Type    | Description                                                                                                                                                                                                                       |
|-----------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enableWhiteList | Boolean | Whether the public network access control is enabled. <ul style="list-style-type: none"><li>• <b>true</b>: Public network access control is enabled.</li><li>• <b>false</b>: Public network access control is disabled.</li></ul> |
| whiteList       | String  | Whitelist for public network access.                                                                                                                                                                                              |

**Table 5-32** ClusterDetailTags

| Parameter | Type   | Description |
|-----------|--------|-------------|
| key       | String | Tag key.    |
| value     | String | Tag value.  |

**Table 5-33** ClusterDetailFailedReasons

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                              |
|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| errorCode | String | Error code. <ul style="list-style-type: none"><li>• <b>CSS.6000</b>: A cluster fails to be created.</li><li>• <b>CSS.6001</b>: A cluster fails to be scaled out.</li><li>• <b>CSS.6002</b>: A cluster fails to be restarted.</li><li>• <b>CSS.6004</b>: A node fails to be created in a cluster.</li><li>• <b>CSS.6005</b>: A service fails to be initialized.</li></ul> |
| errorMsg  | String | Error details.                                                                                                                                                                                                                                                                                                                                                           |

## Example Requests

None

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "datastore" : {
    "type" : "elasticsearch",
    "version" : "x.x.x"
  }
}
```

```
{
  "instances": [ {
    "status": "200",
    "type": "ess",
    "id": "3c7fe582-a9f6-46fd-9d01-956bed4a8bbc",
    "name": "ES-1-16-test17-ess-esn-1-1",
    "specCode": "ess.spec-4u16g",
    "azCode": "xx-xxx-xx",
    "ip": "192.168.0.x",
    "volume": {
      "type": "COMMON",
      "size": 40
    }
  } ],
  "publicKibanaResp": {
    "eipSize": 5,
    "publicKibanaIp": "100.95.158.x",
    "elbWhiteListResp": {
      "whiteList": "11.11.11.11",
      "enableWhiteList": true
    }
  },
  "updated": "2018-01-16T08:37:18",
  "name": "ES-1-16-test17",
  "publicIp": "100.95.149.xx:9200",
  "elbWhiteList": {
    "whiteList": "10.10.10.10",
    "enableWhiteList": true
  },
  "created": "2018-01-16T08:37:18",
  "id": "5c77b71c-5b35-4f50-8984-76387e42451a",
  "status": "200",
  "endpoint": "192.168.0.x:9200",
  "vpclId": "07e7ab39-xxx-xxx-xxx-d3f28ea7f051",
  "subnetId": "025d45f9-xxx-xxx-xxx-e852c6455a5e",
  "securityGroupId": "0347aabc-xxx-xxx-xxx-6b10a79701e2",
  "vpceIp": "192.168.0.203",
  "bandwidthSize": 0,
  "diskEncrypted": false,
  "httpsEnable": true,
  "authorityEnable": true,
  "backupAvailable": true,
  "actionProgress": { },
  "actions": [ ],
  "enterpriseProjectId": "3e1c74a0-xxx-xxx-xxx-c6b9e46cf81b",
  "tags": [ {
    "key": "k1",
    "value": "v1"
  } ]
}
```

## Status Codes

| Status Code | Description                                                                    |
|-------------|--------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                             |
| 400         | Invalid request.<br>Modify the request before retry.                           |
| 404         | The requested resource could not be found.<br>Modify the request before retry. |

## Error Codes

See [Error Codes](#).

## 5.4 Deleting a Cluster

### Function

This API is used to delete a cluster. All resources of the deleted cluster, including customer data, will be released. If you want to retain the data in a customer cluster, create a snapshot before deleting the cluster.

### URI

DELETE /v1.0/{project\_id}/clusters/{cluster\_id}

**Table 5-34** Path Parameters

| Parameter  | Mandatory | Type   | Description                           |
|------------|-----------|--------|---------------------------------------|
| project_id | Yes       | String | Project ID.                           |
| cluster_id | Yes       | String | ID of the cluster you want to delete. |

### Request Parameters

None

### Response Parameters

None

### Example Requests

None

### Example Responses

None

### Status Codes

| Status Code | Description                                          |
|-------------|------------------------------------------------------|
| 200         | Request succeeded.                                   |
| 400         | Invalid request.<br>Modify the request before retry. |

| Status Code | Description                                                                    |
|-------------|--------------------------------------------------------------------------------|
| 404         | The requested resource could not be found.<br>Modify the request before retry. |

## Error Codes

See [Error Codes](#).

# 5.5 Renaming a Cluster

## Function

This API is used to change the name of a cluster.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/changename

**Table 5-35** Path Parameters

| Parameter  | Mandatory | Type   | Description                                |
|------------|-----------|--------|--------------------------------------------|
| project_id | Yes       | String | Project ID.                                |
| cluster_id | Yes       | String | ID of the cluster that you want to rename. |

## Request Parameters

**Table 5-36** Request body parameters

| Parameter   | Mandatory | Type   | Description           |
|-------------|-----------|--------|-----------------------|
| displayName | Yes       | String | New name of a cluster |

## Response Parameters

None

## Example Requests

```
{
  "displayName": "ES-Test-new"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 5.6 Changing the Password of a Cluster

## Function

This API is used to change the password of a cluster.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/password/reset

**Table 5-37** Path Parameters

| Parameter  | Mandatory | Type   | Description                                          |
|------------|-----------|--------|------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                          |
| cluster_id | Yes       | String | ID of the cluster whose password you want to change. |

## Request Parameters

**Table 5-38** Request body parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                        |
|-------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| newpassword | Yes       | String | Password of the cluster user <b>admin</b> in security mode. This API is available only if <b>authorityEnable</b> is set to <b>true</b> .- Must contain 8 to 32 characters.- Must contain at least three of the following character types: uppercase letters, lowercase letters, digits, and special characters (~!@#\$\$%^&*()-_+=+ [{}];,;<.>/?). |

## Response Parameters

None

## Example Requests

```
{  
  "newpassword" : "xxxxxx"  
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 5.7 Restarting a Cluster

### Function

This API is used to restart a cluster. Services will be interrupted during the restart.

### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/restart

**Table 5-39** Path Parameters

| Parameter  | Mandatory | Type   | Description                            |
|------------|-----------|--------|----------------------------------------|
| project_id | Yes       | String | Project ID.                            |
| cluster_id | Yes       | String | ID of the cluster you want to restart. |

### Request Parameters

None

### Response Parameters

**Status code: 200**

**Table 5-40** Response body parameters

| Parameter | Type             | Description           |
|-----------|------------------|-----------------------|
| jobId     | Array of strings | ID of a restart task. |

### Example Requests

None

### Example Responses

**Status code: 200**

Request succeeded.

```
{  
  "jobId" : [ "ff8080815fa0fa5a015fa365b6300007" ]  
}
```

## Status Codes

| Status Code | Description                                                                    |
|-------------|--------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                             |
| 400         | Invalid request.<br>Modify the request before retry.                           |
| 404         | The requested resource could not be found.<br>Modify the request before retry. |

## Error Codes

See [Error Codes](#).

# 5.8 Scaling Out a Cluster

## Function

This API is used to add instances to a cluster (only Elasticsearch instances can be added). This API can only scale out clusters that only have common nodes. Clusters with master, client, or cold data nodes cannot use this API. For details about how to configure the number and storage capacity of instances in a cluster, see [Adding Instances and Expanding Instance Storage Capacity](#).

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/extend

**Table 5-41** Path Parameters

| Parameter  | Mandatory | Type   | Description                              |
|------------|-----------|--------|------------------------------------------|
| project_id | Yes       | String | Project ID.                              |
| cluster_id | Yes       | String | ID of the cluster you want to scale out. |

## Request Parameters

**Table 5-42** Request body parameters

| Parameter | Mandatory | Type                                        | Description                                               |
|-----------|-----------|---------------------------------------------|-----------------------------------------------------------|
| grow      | Yes       | <a href="#">ExtendClusterGrowReq</a> object | Detailed description about the cluster scale-out request. |

**Table 5-43** ExtendClusterGrowReq

| Parameter  | Mandatory | Type    | Description                                                                                                                                 |
|------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|
| modifySize | Yes       | Integer | Number of instances you want to add.<br><br>The total number of existing instances and newly added instances in a cluster cannot exceed 32. |

## Response Parameters

None

## Example Requests

```
{
  "grow": {
    "modifySize": 4
  }
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                    |
|-------------|--------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                             |
| 400         | Invalid request.<br>Modify the request before retry.                           |
| 404         | The requested resource could not be found.<br>Modify the request before retry. |

Error Codes

See [Error Codes](#).

5.9 Adding Instances and Expanding Instance Storage Capacity

Function

This API is used to add instances of different types and expand instance storage capacity in a cluster. This API is available for clusters with master, client, or cold data nodes.

URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/role\_extend

Table 5-44 Path Parameters

| Parameter  | Mandatory | Type   | Description                              |
|------------|-----------|--------|------------------------------------------|
| project_id | Yes       | String | Project ID.                              |
| cluster_id | Yes       | String | ID of the cluster you want to scale out. |

Request Parameters

Table 5-45 Request body parameters

| Parameter | Mandatory | Type                                               | Description                                               |
|-----------|-----------|----------------------------------------------------|-----------------------------------------------------------|
| grow      | Yes       | Array of <a href="#">RoleExtendGrowReq</a> objects | Detailed description about the cluster scale-out request. |

**Table 5-46** RoleExtendGrowReq

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type      | Yes       | String  | Type of the instance to be scaled out. Select at least one from <b>ess</b> , <b>ess-master</b> , and <b>ess-client</b> . A type can be selected once only.<br><br>You can only add instances, rather than increase storage capacity, on nodes of the <b>ess-master</b> and <b>ess-client</b> types.                                                                                                                                                                        |
| nodesize  | Yes       | Integer | Number of instances you want to add. The total number of existing instances and newly added instances in a cluster cannot exceed 32.                                                                                                                                                                                                                                                                                                                                       |
| disksize  | Yes       | Integer | Storage capacity of the instance you want to add. The total storage capacity of existing instances and newly added instances in a cluster cannot exceed the maximum instance storage capacity allowed when a cluster is being created. Unit: GB <ul style="list-style-type: none"><li>The number of <b>ess</b> and <b>ess-cold</b> nodes must be a multiple of 20.</li><li>Storage capacity of <b>ess-master</b> and <b>ess-client</b> nodes cannot be expanded.</li></ul> |

## Response Parameters

Status code: 200

**Table 5-47** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| id        | String | Cluster ID. |

## Example Requests

```
{  
  "grow" : [ {  
    "type" : "ess-master",
```

```
{
  "nodesize" : 2,
  "disksize" : 0
}, {
  "type" : "ess",
  "nodesize" : 0,
  "disksize" : 40
}, {
  "type" : "ess-client",
  "nodesize" : 1,
  "disksize" : 0
}]
}
```

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "id" : "4f3deec3-efa8-4598-bf91-560aad1377a3"
}
```

## Status Codes

| Status Code | Description                                                                    |
|-------------|--------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                             |
| 400         | Invalid request.<br>Modify the request before retry.                           |
| 404         | The requested resource could not be found.<br>Modify the request before retry. |

## Error Codes

See [Error Codes](#).

# 5.10 Changing Specifications

## Function

This API is used to modify the specifications of a cluster. Only the nodes of the ESS type can be modified.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/flavor

**Table 5-48** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                |
|------------|-----------|--------|------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                |
| cluster_id | Yes       | String | ID of the cluster whose specifications you want to change. |

## Request Parameters

**Table 5-49** Request body parameters

| Parameter        | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                         |
|------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| needCheckReplica | No        | Boolean | Whether to check replicas. The value can be <b>true</b> or <b>false</b> . The check is enabled by default. <ul style="list-style-type: none"><li>• <b>true</b>: Replicas are checked.</li><li>• <b>false</b>: Replicas are not checked.</li></ul>                                                                                                   |
| newFlavorId      | Yes       | String  | ID of the new flavor. This parameter is obtained by calling the [Obtaining the Instance Specifications List] (ListFlavors.xml) API. The API compares the values of the <b>name</b> attribute and obtains the ID of the flavor higher than the current flavor. Only the node specifications of the same Elasticsearch engine version can be changed. |

## Response Parameters

None

## Example Requests

```
{
  "needCheckReplica" : false,
  "newFlavorId" : "35b060a4-f152-48ce-8773-36559ceb81f2"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 5.11 Obtaining the Instance Specifications List

## Function

This API is used to query and display the IDs of supported instance specifications.

## URI

GET /v1.0/{project\_id}/es-flavors

**Table 5-50** Path Parameters

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

## Request Parameters

None

## Response Parameters

**Status code:** 200

**Table 5-51** Response body parameters

| Parameter | Type                                                   | Description          |
|-----------|--------------------------------------------------------|----------------------|
| versions  | Array of <a href="#">EsflavorsVersionsResp</a> objects | Engine version list. |

**Table 5-52** EsflavorsVersionsResp

| Parameter | Type                                                          | Description                                                                                               |
|-----------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| version   | String                                                        | Elasticsearch engine version. For details, see CSS <a href="#">Supported Cluster Versions</a> .           |
| flavors   | Array of <a href="#">EsflavorsVersionsFlavorsResp</a> objects | instance flavor list.                                                                                     |
| type      | String                                                        | Instance type. The options are <b>ess</b> , <b>ess-cold</b> , <b>ess-master</b> , and <b>ess-client</b> . |

**Table 5-53** EsflavorsVersionsFlavorsResp

| Parameter   | Type    | Description                          |
|-------------|---------|--------------------------------------|
| cpu         | Integer | Number of CPU cores of an instance.  |
| ram         | Integer | Memory size of an instance. Unit: GB |
| name        | String  | Flavor name                          |
| region      | String  | Available region                     |
| diskrange   | String  | Disk capacity range of an instance   |
| availableAZ | String  | AZ                                   |
| flavor_id   | String  | Flavor ID                            |

## Example Requests

None

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "versions": [ {
    "flavors": [ {
      "cpu": 4,
      "ram": 32,
      "name": "ess.spec-4u32g",
      "region": "xx-xxx-xx",
      "diskrange": "40,2560",
      "availableAZ": "xx-xxx-xx,xx-xxx-xx",
      "flavor_id": "2d8daf1b-873f-4c2e-a7b9-2f9cbcf2f213"
    }, {
      "cpu": 8,
      "ram": 64,
      "name": "ess.spec-8u64g",
      "region": "xx-xxx-xx",
      "diskrange": "80,5120",
      "availableAZ": "xx-xxx-xx,xx-xxx-xx",
      "flavor_id": "b3d33ec6-d58a-40f0-aa51-4f671ce64b2a"
    }, {
      "cpu": 16,
      "ram": 128,
      "name": "ess.spec-16u128g",
      "region": "xx-xxx-xx",
      "diskrange": "160,10240",
      "availableAZ": "xx-xxx-xx,xx-xxx-xx",
      "flavor_id": "f74419ca-bc91-4558-b4e2-90eeefb37c6e"
    } ],
    "type": "ess",
    "version": "x.x.x"
  } ]
}
```

Status Codes

| Status Code | Description                                                                    |
|-------------|--------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                             |
| 400         | Invalid request.<br>Modify the request before retry.                           |
| 404         | The requested resource could not be found.<br>Modify the request before retry. |

Error Codes

See [Error Codes](#).

5.12 Querying All Tags

Function

This API is used to query all tags in a specified region.

URI

GET /v1.0/{project\_id}/{resource\_type}/tags

**Table 5-54** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                          |
|---------------|-----------|--------|----------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID.                                                          |
| resource_type | Yes       | String | Resource type. Currently, its value can only be <b>css-cluster</b> . |

## Request Parameters

None

## Response Parameters

Status code: 200

**Table 5-55** Response body parameters

| Parameter | Type                                                 | Description          |
|-----------|------------------------------------------------------|----------------------|
| tags      | Array of <a href="#">ShowAllTagsTagsResp</a> objects | List of cluster tags |

**Table 5-56** ShowAllTagsTagsResp

| Parameter | Type             | Description |
|-----------|------------------|-------------|
| key       | String           | Tag key     |
| values    | Array of strings | Tag value   |

## Example Requests

None

## Example Responses

Status code: 200

Request succeeded.

```
{
  "tags": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  }, {
    "key": "key2",
```

```
"values" : [ "value1", "value2" ]  
  } ]  
}
```

## Status Codes

| Status Code | Description                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                            |
| 400         | Invalid request.<br>The client should modify the request instead of re-initiating it.                         |
| 404         | The requested resource could not be found.<br>The client should not repeat the request without modifications. |

## Error Codes

See [Error Codes](#).

# 5.13 Querying Tags of a Specified Cluster

## Function

This API is used to query the tags of a specified cluster.

## URI

GET /v1.0/{project\_id}/{resource\_type}/{cluster\_id}/tags

**Table 5-57** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                          |
|---------------|-----------|--------|----------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID.                                                          |
| cluster_id    | Yes       | String | ID of the cluster you want to query.                                 |
| resource_type | Yes       | String | Resource type. Currently, its value can only be <b>css-cluster</b> . |

## Request Parameters

None

## Response Parameters

**Status code: 200**

Table 5-58 Response body parameters

| Parameter | Type                                              | Description          |
|-----------|---------------------------------------------------|----------------------|
| tags      | Array of <a href="#">ShowTagsTagsResp</a> objects | List of cluster tags |

Table 5-59 ShowTagsTagsResp

| Parameter | Type   | Description |
|-----------|--------|-------------|
| key       | String | Tag key     |
| value     | String | Tag value   |

Example Requests

None

Example Responses

Status code: 200

Request succeeded.

```
{
  "tags": [ {
    "key": "key1",
    "value": "value1"
  }, {
    "key": "key2",
    "value": "value3"
  } ]
}
```

Status Codes

| Status Code | Description                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                            |
| 400         | Invalid request.<br>The client should modify the request instead of re-initiating it.                         |
| 404         | The requested resource could not be found.<br>The client should not repeat the request without modifications. |

Error Codes

See [Error Codes](#).

## 5.14 Adding Tags to a Cluster

### Function

This API is used to add tags to a cluster.

### URI

POST /v1.0/{project\_id}/{resource\_type}/{cluster\_id}/tags

**Table 5-60** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                          |
|---------------|-----------|--------|----------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID.                                                          |
| cluster_id    | Yes       | String | ID of the cluster that you want to add tags to.                      |
| resource_type | Yes       | String | Resource type. Currently, its value can only be <b>css-cluster</b> . |

### Request Parameters

**Table 5-61** Request body parameters

| Parameter | Mandatory | Type              | Description                 |
|-----------|-----------|-------------------|-----------------------------|
| tag       | Yes       | <b>Tag</b> object | Tag object you want to add. |

**Table 5-62** Tag

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| key       | Yes       | String | Tag name.   |
| value     | Yes       | String | Tag value.  |

### Response Parameters

None

### Example Requests

```
{
  "tag": {
    "key": "K1",
    "value": "V1"
  }
}
```

```
}  
}
```

Example Responses

None

Status Codes

| Status Code | Description                                                                                                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 204         | Request succeeded.                                                                                                                                                                                                                                |
| 400         | Invalid request.<br>The client should modify the request instead of re-initiating it.                                                                                                                                                             |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>This status code indicates that the resource that the client attempts to create already exists, or the requested update failed due to a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                                        |

Error Codes

See [Error Codes](#).

5.15 Deleting a Cluster Tag

Function

This API is used to delete a cluster tag.

URI

DELETE /v1.0/{project\_id}/{resource\_type}/{cluster\_id}/tags/{key}

Table 5-63 Path Parameters

| Parameter     | Mandatory | Type   | Description                                                          |
|---------------|-----------|--------|----------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID.                                                          |
| cluster_id    | Yes       | String | ID of the cluster that you want to delete tags from.                 |
| resource_type | Yes       | String | Resource type. Currently, its value can only be <b>css-cluster</b> . |

| Parameter | Mandatory | Type   | Description                         |
|-----------|-----------|--------|-------------------------------------|
| key       | Yes       | String | Name of the tag you want to delete. |

## Request Parameters

None

## Response Parameters

None

## Example Requests

None

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------|
| 204         | Request succeeded.                                                                                            |
| 400         | Invalid request.<br>The client should modify the request instead of re-initiating it.                         |
| 404         | The requested resource could not be found.<br>The client should not repeat the request without modifications. |

## Error Codes

See [Error Codes](#).

# 5.16 Adding or Deleting Cluster Tags in Batches

## Function

This API is used to add tags to or delete tags from a cluster in batches.

## URI

POST /v1.0/{project\_id}/{resource\_type}/{cluster\_id}/tags/action

**Table 5-64** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                                    |
|---------------|-----------|--------|--------------------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID.                                                                    |
| cluster_id    | Yes       | String | ID of the cluster that you want to add tags to or delete tags from in batches. |
| resource_type | Yes       | String | Resource type. Currently, its value can only be <b>css-cluster</b> .           |

## Request Parameters

**Table 5-65** Request body parameters

| Parameter | Mandatory | Type                            | Description                                                                                                                                                                                                                          |
|-----------|-----------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| action    | Yes       | String                          | Action type. This attribute is used to identify the required operation type. <ul style="list-style-type: none"><li>• <b>create</b>: Tags are added in batches.</li><li>• <b>delete</b>: Tags are deleted in batches.</li></ul>       |
| tags      | Yes       | Array of <b>Tag</b> objects     | Tag list.                                                                                                                                                                                                                            |
| sysTags   | No        | Array of <b>SysTags</b> objects | System tag list. <ul style="list-style-type: none"><li>• The value of <b>key</b> is fixed to <b>_sys_enterprise_project_id</b>.</li><li>• The value is <b>UUID</b> or <b>0.0</b> indicates the default enterprise project.</li></ul> |

**Table 5-66** Tag

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| key       | Yes       | String | Tag name.   |
| value     | Yes       | String | Tag value.  |

Table 5-67 SysTags

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| key       | Yes       | String | Tag name.   |
| value     | Yes       | String | Tag value.  |

Response Parameters

None

Example Requests

```
{
  "action" : "create",
  "tags" : [ {
    "key" : "K1",
    "value" : "V1"
  }, {
    "key" : "K2",
    "value" : "V2"
  } ]
}
```

Example Responses

None

Status Codes

| Status Code | Description                                                                                                                                                                                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 204         | Request succeeded.                                                                                                                                                                                                                                                                  |
| 400         | Invalid request.<br>Do not retry the request before modification.                                                                                                                                                                                                                   |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>This status code indicates that the resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                                                                          |

Error Codes

See [Error Codes](#).

# 5.17 Changing the Specifications of a Specified Node Type

## Function

This API is used to modify cluster specifications. The following node types can be changed:

- **ess**: data node
- **ess-cold**: cold data node
- **ess-client**: client node
- **ess-master**: master node

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/{types}/flavor

Table 5-68 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                      |
|------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                                                                                                                                                                                                      |
| cluster_id | Yes       | String | ID of the cluster whose specifications you want to change.                                                                                                                                                                                       |
| types      | Yes       | String | Type of the cluster node you want to modify. <ul style="list-style-type: none"><li>• <b>ess</b>: data node</li><li>• <b>ess-cold</b>: cold data node</li><li>• <b>ess-client</b>: client node</li><li>• <b>ess-master</b>: master node</li></ul> |

## Request Parameters

**Table 5-69** Request body parameters

| Parameter        | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| needCheckReplica | No        | Boolean | Whether to check replicas. The value can be <b>true</b> or <b>false</b> . The check is enabled by default. <ul style="list-style-type: none"><li>• <b>true</b>: Replicas are checked.</li><li>• <b>false</b>: Replicas are not checked.</li></ul> Master and client nodes are not data nodes, so they do not need to check replicas no matter this parameter is set to <b>true</b> or <b>false</b> . |
| newFlavorId      | Yes       | String  | ID of the new flavor. This parameter is obtained by calling the [Obtaining the Instance Specifications List] (ListFlavors.xml) API. The API compares the values of the <b>name</b> attribute and obtains the ID of the flavor higher than the current flavor. Only the node specifications of the same Elasticsearch engine version can be changed.                                                  |

## Response Parameters

None

## Example Requests

```
{
  "needCheckReplica" : false,
  "newFlavorId" : "35b060a4-f152-48ce-8773-36559ceb81f2"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 5.18 Scaling In a Cluster by Removing a Specific Node

## Function

This API is used to scale in a cluster by removing a specified node.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/node/offline

**Table 5-70** Path Parameters

| Parameter  | Mandatory | Type   | Description                             |
|------------|-----------|--------|-----------------------------------------|
| project_id | Yes       | String | Project ID.                             |
| cluster_id | Yes       | String | ID of the cluster you want to scale in. |

## Request Parameters

**Table 5-71** Request body parameters

| Parameter   | Mandatory | Type             | Description                                                                                                                                                 |
|-------------|-----------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| shrinkNodes | Yes       | Array of strings | ID of the node you want to remove from a cluster.<br>Obtain the <b>ID</b> attribute in instances by referring to <a href="#">Querying Cluster Details</a> . |

## Response Parameters

None

## Example Requests

```
{  
  "shrinkNodes" : [ "2077bdf3-b90d-412e-b460-635b9b159c11" ]  
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 5.19 Scaling In Nodes of a Specific Type

### Function

This API is used to remove instances of different types and reduce instance storage capacity in a cluster.

### URI

POST /v1.0/extend/{project\_id}/clusters/{cluster\_id}/role/shrink

**Table 5-72** Path Parameters

| Parameter  | Mandatory | Type   | Description                             |
|------------|-----------|--------|-----------------------------------------|
| project_id | Yes       | String | Project ID.                             |
| cluster_id | Yes       | String | ID of the cluster you want to scale in. |

### Request Parameters

**Table 5-73** Request body parameters

| Parameter | Mandatory | Type                                           | Description                                                   |
|-----------|-----------|------------------------------------------------|---------------------------------------------------------------|
| shrink    | Yes       | Array of <a href="#">ShrinkNodeReq</a> objects | Type and quantity of nodes you want to remove from a cluster. |

**Table 5-74** ShrinkNodeReq

| Parameter      | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| reducedNodeNum | Yes       | Integer | <p>Number of nodes you want to remove from a cluster.</p> <ul style="list-style-type: none"><li>• After the scale-in, there has to be at least one node in each AZ under each node type.</li><li>• In a cross-AZ cluster, the difference between the numbers of the same type nodes in different AZs cannot exceed 1.</li><li>• For a cluster without master nodes, the number of removed data nodes (including cold data nodes and other types of nodes) in a scale-in must be fewer than half of the original data node number, and the number of remaining data nodes after a scale-in must be greater than the maximum number of index replicas.</li><li>• For a cluster with master nodes, the number of removed master nodes in a scale-in must be fewer than half of the original master node number. After scale-in, there has to be an odd number of master nodes, and there has to be at least three of them.</li></ul> |
| type           | Yes       | String  | <p>Node type.</p> <ul style="list-style-type: none"><li>• <b>ess</b>: data node</li><li>• <b>ess-cold</b>: cold data node</li><li>• <b>ess-client</b>: client node</li><li>• <b>ess-master</b>: master node</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Response Parameters

None

Example Requests

```
{
  "shrink" : [ {
    "type" : "ess",
    "reducedNodeNum" : 1
  } ]
}
```

Example Responses

None

Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

Error Codes

See [Error Codes](#).

5.20 Downloading a Security Certificate

Function

This API is used to download a security certificate.

URI

GET /v1.0/{project\_id}/cer/download

Table 5-75 Path Parameters

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

## Request Parameters

None

## Response Parameters

None

## Example Requests

None

## Example Responses

None

## Status Codes

| Status Code | Description                                                                 |
|-------------|-----------------------------------------------------------------------------|
| 200         | Request succeeded.                                                          |
| 400         | Invalid request. Modify the request before retry.                           |
| 404         | The requested resource could not be found. Modify the request before retry. |

## Error Codes

See [Error Codes](#).

# 6 Kibana Public Network Access

## 6.1 Enabling Kibana Public Access

### Function

This API is used to enable public network access to Kibana.

### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/publickibana/open

Table 6-1 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                      |
|------------|-----------|--------|------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                      |
| cluster_id | Yes       | String | ID of the cluster whose Kibana public access you want to enable. |

### Request Parameters

Table 6-2 Request body parameters

| Parameter    | Mandatory | Type                                    | Description             |
|--------------|-----------|-----------------------------------------|-------------------------|
| eipSize      | Yes       | Integer                                 | Bandwidth. Unit: Mbit/s |
| elbWhiteList | Yes       | StartKibanaPublicReqElbWhitelist object | ELB whitelist.          |

**Table 6-3** StartKibanaPublicReqElbWhitelist

| Parameter       | Mandatory | Type    | Description                                                                                                                                                                           |
|-----------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enableWhiteList | Yes       | Boolean | Whether to enable the whitelist function. <ul style="list-style-type: none"><li>• <b>true</b>: The whitelist is enabled.</li><li>• <b>false</b>: The whitelist is disabled.</li></ul> |
| whiteList       | Yes       | String  | Whitelist.                                                                                                                                                                            |

## Response Parameters

None

## Example Requests

```
{
  "eipSize" : 5,
  "elbWhiteList" : {
    "enableWhiteList" : true,
    "whiteList" : "192.168.0.xx"
  }
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 6.2 Disabling Kibana Public Access

### Function

This API is used to disable public network access to Kibana.

### URI

PUT /v1.0/{project\_id}/clusters/{cluster\_id}/publickibana/close

**Table 6-4** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                       |
|------------|-----------|--------|-------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                       |
| cluster_id | Yes       | String | ID of the cluster whose Kibana public access you want to disable. |

### Request Parameters

**Table 6-5** Request body parameters

| Parameter    | Mandatory | Type                                                    | Description             |
|--------------|-----------|---------------------------------------------------------|-------------------------|
| eipSize      | No        | Integer                                                 | Bandwidth. Unit: Mbit/s |
| elbWhiteList | No        | <a href="#">StartKibanaPublicReqElbWhitelist</a> object | ELB whitelist.          |

**Table 6-6** StartKibanaPublicReqElbWhitelist

| Parameter       | Mandatory | Type    | Description                                                                                                                                                                       |
|-----------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enableWhiteList | Yes       | Boolean | Whether to enable the whitelist function. <ul style="list-style-type: none"><li><b>true</b>: The whitelist is enabled.</li><li><b>false</b>: The whitelist is disabled.</li></ul> |
| whiteList       | Yes       | String  | Whitelist.                                                                                                                                                                        |

### Response Parameters

None

### Example Requests

```
PUT /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/publickibana/close
{
  "eipSize" : 5,
  "elbWhiteList" : {
    "enableWhiteList" : true,
    "whiteList" : "192.168.0.xx"
  }
}
```

### Example Responses

None

### Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

### Error Codes

See [Error Codes](#).

## 6.3 Modifying the Kibana Public Network Bandwidth

### Function

This API is used to modify the public network bandwidth of Kibana.

### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/publickibana/bandwidth

**Table 6-7** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                 |
|------------|-----------|--------|-----------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                                 |
| cluster_id | Yes       | String | ID of the cluster whose Kibana public network bandwidth you want to modify. |

## Request Parameters

**Table 6-8** Request body parameters

| Parameter | Mandatory | Type                                                           | Description |
|-----------|-----------|----------------------------------------------------------------|-------------|
| bandWidth | Yes       | <a href="#">UpdatePublicKibanaBandwidthReqBandWidth</a> object | Bandwidth.  |

**Table 6-9** UpdatePublicKibanaBandwidthReqBandWidth

| Parameter | Mandatory | Type    | Description         |
|-----------|-----------|---------|---------------------|
| size      | Yes       | Integer | New bandwidth size. |

## Response Parameters

None

## Example Requests

```
{
  "bandWidth" : {
    "size" : 5
  }
}
```

## Example Responses

None

Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

Error Codes

See [Error Codes](#).

6.4 Modifying Kibana Public Access Control

Function

This API is used to modify the Kibana access permission by modifying the Kibana whitelist.

URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/publickibana/whitelist/update

Table 6-10 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                          |
|------------|-----------|--------|----------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                          |
| cluster_id | Yes       | String | ID of the cluster whose Kibana access permission you want to modify. |

## Request Parameters

**Table 6-11** Request body parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| whiteList | Yes       | String | Whitelisted IP addresses or network segments that can access Kibana. Separate them with commas (,), and each IP address or network segment must be unique. |

## Response Parameters

None

## Example Requests

The latest whitelist

```
{
  "whiteList" : "192.168.0.21"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 6.5 Disabling Kibana Public Network Access Control

### Function

This API is used to disable public network access control for Kibana.

### URI

PUT /v1.0/{project\_id}/clusters/{cluster\_id}/publickibana/whitelist/close

Table 6-12 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                       |
|------------|-----------|--------|-----------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                                       |
| cluster_id | Yes       | String | ID of the cluster whose Kibana public network access control you want to disable. |

### Request Parameters

None

### Response Parameters

None

### Example Requests

None

### Example Responses

None

### Status Codes

| Status Code | Description                                          |
|-------------|------------------------------------------------------|
| 200         | Request succeeded.                                   |
| 400         | Invalid request.<br>Modify the request before retry. |

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 7 Log Management

## 7.1 Enabling the Log Function

### Function

This API is used to enable the log function.

### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/logs/open

Table 7-1 Path Parameters

| Parameter  | Mandatory | Type   | Description                                              |
|------------|-----------|--------|----------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                              |
| cluster_id | Yes       | String | ID of the cluster whose log function you want to enable. |

### Request Parameters

Table 7-2 Request body parameters

| Parameter   | Mandatory | Type   | Description                                                                      |
|-------------|-----------|--------|----------------------------------------------------------------------------------|
| agency      | Yes       | String | Agency name. You can create an agency to allow CSS to call other cloud services. |
| logBasePath | Yes       | String | Storage path of backed up logs in the OBS bucket.                                |
| logBucket   | Yes       | String | Name of the OBS bucket for storing logs.                                         |

## Response Parameters

None

## Example Requests

```
{
  "agency" : "css_obs_agency",
  "logBasePath" : "css/log",
  "logBucket" : "000-words"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 7.2 Disabling the Log Function

## Function

This API is used to disable the log function.

## URI

PUT /v1.0/{project\_id}/clusters/{cluster\_id}/logs/close

**Table 7-3** Path Parameters

| Parameter  | Mandatory | Type   | Description                                               |
|------------|-----------|--------|-----------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                               |
| cluster_id | Yes       | String | ID of the cluster whose log function you want to disable. |

## Request Parameters

None

## Response Parameters

None

## Example Requests

None

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 7.3 Querying the Job List

### Function

This API is used to query the job list in the logs of a cluster.

### URI

GET /v1.0/{project\_id}/clusters/{cluster\_id}/logs/records

**Table 7-4** Path Parameters

| Parameter  | Mandatory | Type   | Description                          |
|------------|-----------|--------|--------------------------------------|
| project_id | Yes       | String | Project ID.                          |
| cluster_id | Yes       | String | ID of the cluster you want to query. |

### Request Parameters

None

### Response Parameters

**Status code: 200**

**Table 7-5** Response body parameters

| Parameter        | Type                                              | Description                |
|------------------|---------------------------------------------------|----------------------------|
| clusterLogRecord | Array of <a href="#">clusterLogRecord</a> objects | Cluster log entity object. |

**Table 7-6** clusterLogRecord

| Parameter | Type   | Description                                               |
|-----------|--------|-----------------------------------------------------------|
| id        | String | Log task ID, which is generated based on the system UUID. |
| clusterId | String | Cluster ID.                                               |
| createAt  | String | Creation time. Format: Unix timestamp.                    |
| logPath   | String | Storage path of backed up logs in the OBS bucket.         |

| Parameter  | Type   | Description                                                                                                                                                                                           |
|------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status     | String | Task status. <ul style="list-style-type: none"><li>● <b>RUNNING</b>: The line is being backed up.</li><li>● <b>SUCCESS</b>: The backup succeeded.</li><li>● <b>FAIL</b>: The backup failed.</li></ul> |
| finishedAt | Long   | End time. If the creation has not been completed, the end time is <b>null</b> . Format: Unix timestamp.                                                                                               |
| jobTypes   | String | Task type. <ul style="list-style-type: none"><li>● <b>Manual</b>: Manual backup.</li><li>● <b>Auto</b>: Automatic backup.</li></ul>                                                                   |
| failedMsg  | String | Error information. If the task did not fail, the value of this parameter is <b>null</b> .                                                                                                             |
| jobId      | String | Task ID.                                                                                                                                                                                              |

## Example Requests

None

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "clusterLogRecord" : [ {
    "id" : "d455a541-597e-4846-a6be-baad0ea361b1",
    "clusterId" : "4213d908-f5dc-4633-8401-cfd7175fca0c",
    "createAt" : 1656042837000,
    "logPath" : "css-backup-1610678043608/css/log",
    "status" : "RUNNING",
    "finishedAt" : null,
    "jobTypes" : "Manual",
    "failedMsg" : null,
    "jobId" : "2c9080df7c171342017c5e0884f8011c"
  } ]
}
```

## Status Codes

| Status Code | Description                                          |
|-------------|------------------------------------------------------|
| 200         | Request succeeded.                                   |
| 400         | Invalid request.<br>Modify the request before retry. |

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 7.4 Querying Basic Log Configurations

### Function

This API is used to query basic log configurations.

### URI

GET /v1.0/{project\_id}/clusters/{cluster\_id}/logs/settings

**Table 7-7** Path Parameters

| Parameter  | Mandatory | Type   | Description                          |
|------------|-----------|--------|--------------------------------------|
| project_id | Yes       | String | Project ID.                          |
| cluster_id | Yes       | String | ID of the cluster you want to query. |

### Request Parameters

None

### Response Parameters

Status code: 200

**Table 7-8** Response body parameters

| Parameter        | Type                                    | Description                      |
|------------------|-----------------------------------------|----------------------------------|
| logConfiguration | <a href="#">logConfiguration</a> object | Log configuration entity object. |

**Table 7-9** logConfiguration

| Parameter  | Type    | Description                                                                                                                                                                           |
|------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id         | String  | Log backup ID, which is generated using the system UUID.                                                                                                                              |
| clusterId  | String  | Cluster ID.                                                                                                                                                                           |
| obsBucket  | String  | Name of the OBS bucket for storing logs.                                                                                                                                              |
| agency     | String  | Agency name. You can create an agency to allow CSS to call other cloud services.                                                                                                      |
| updateAt   | Long    | Update time. Format: Unix timestamp.                                                                                                                                                  |
| basePath   | String  | Storage path of backed up logs in the OBS bucket.                                                                                                                                     |
| autoEnable | Boolean | Whether to enable automatic backup. <ul style="list-style-type: none"><li>● <b>true</b>: Automatic backup is enabled.</li><li>● <b>false</b>: Automatic backup is disabled.</li></ul> |
| period     | String  | Start time of automatic log backup. If <b>autoEnable</b> is set to <b>false</b> , the value of this parameter is <b>null</b> . Format: GMT                                            |
| logSwitch  | Boolean | Whether to enable the log function. <ul style="list-style-type: none"><li>● <b>true</b>: The log function is enabled.</li><li>● <b>false</b>: The log function is disabled.</li></ul> |

## Example Requests

None

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "logConfiguration" : {
    "id" : "d455a541-597e-4846-a6be-baad0ea361b1",
    "clusterId" : "4213d908-f5dc-4633-8401-cfd7175fca0c",
    "obsBucket" : "css-auto-test",
    "agency" : "css_obs_agency",
    "updateAt" : 1633663681055,
    "basePath" : "css/log",
    "autoEnable" : false,
    "period" : "00:00 GMT+08:00",
    "logSwitch" : true
  }
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 7.5 Modifying Basic Log Configurations

## Function

This API is used to modify basic log configurations.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/logs/settings

**Table 7-10** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                          |
|------------|-----------|--------|----------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                          |
| cluster_id | Yes       | String | ID of the cluster whose basic log configurations you want to modify. |

## Request Parameters

**Table 7-11** Request body parameters

| Parameter   | Mandatory | Type   | Description                                                                      |
|-------------|-----------|--------|----------------------------------------------------------------------------------|
| agency      | Yes       | String | Agency name. You can create an agency to allow CSS to call other cloud services. |
| logBasePath | Yes       | String | Storage path of backed up logs in the OBS bucket.                                |
| logBucket   | Yes       | String | Name of the OBS bucket for storing logs.                                         |

## Response Parameters

None

## Example Requests

```
{
  "agency" : "css_obs_agency",
  "logBasePath" : "css/log",
  "logBucket" : "000-words"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 7.6 Enabling the Automatic Log Backup Policy

## Function

This API is used to enable the automatic log backup policy.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/logs/policy/update

**Table 7-12** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                   |
|------------|-----------|--------|---------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                   |
| cluster_id | Yes       | String | ID of the cluster whose log backup policy you want to enable. |

## Request Parameters

**Table 7-13** Request body parameters

| Parameter | Mandatory | Type   | Description                    |
|-----------|-----------|--------|--------------------------------|
| period    | Yes       | String | Backup start time. Format: GMT |

## Response Parameters

None

## Example Requests

```
{
  "period" : "00:00 GMT+08:00"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 7.7 Disabling the Automatic Log Backup Policy

## Function

This API is used to disable the automatic log backup policy.

## URI

PUT /v1.0/{project\_id}/clusters/{cluster\_id}/logs/policy/close

**Table 7-14** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                              |
|------------|-----------|--------|--------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                              |
| cluster_id | Yes       | String | ID of the cluster whose automatic log backup policy you want to disable. |

## Request Parameters

None

## Response Parameters

None

## Example Requests

None

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 7.8 Backing Up Logs

## Function

This API is used to back up logs.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/logs/collect

**Table 7-15** Path Parameters

| Parameter  | Mandatory | Type   | Description                                       |
|------------|-----------|--------|---------------------------------------------------|
| project_id | Yes       | String | Project ID.                                       |
| cluster_id | Yes       | String | ID of the cluster whose logs you want to back up. |

## Request Parameters

None

## Response Parameters

None

## Example Requests

None

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 7.9 Searching for Logs

## Function

This API is used to query log information.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/logs/search

**Table 7-16** Path Parameters

| Parameter  | Mandatory | Type   | Description                          |
|------------|-----------|--------|--------------------------------------|
| project_id | Yes       | String | Project ID.                          |
| cluster_id | Yes       | String | ID of the cluster you want to query. |

## Request Parameters

**Table 7-17** Request body parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                              |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| instanceName | Yes       | String | Node name. Obtain the <b>name</b> attribute in instances by referring to <a href="#">Querying Cluster Details</a> .                      |
| level        | Yes       | String | Log level. The levels of logs that can be queried are <b>INFO</b> , <b>ERROR</b> , <b>DEBUG</b> , and <b>WARN</b> .                      |
| logType      | Yes       | String | Log type. The types of logs that can be queried are <b>deprecation</b> , <b>indexingSlow</b> , <b>searchSlow</b> , and <b>instance</b> . |

## Response Parameters

Status code: 200

**Table 7-18** Response body parameters

| Parameter | Type                                     | Description |
|-----------|------------------------------------------|-------------|
| logList   | Array of <a href="#">logList</a> objects | Log list.   |

**Table 7-19** logList

| Parameter | Type   | Description  |
|-----------|--------|--------------|
| content   | String | Log content. |
| date      | String | Date.        |

| Parameter | Type   | Description |
|-----------|--------|-------------|
| level     | String | Log level.  |

## Example Requests

```
{
  "instanceName" : "css-4312-ess-esn-1-1",
  "level" : "INFO",
  "logType" : "instance"
}
```

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "logList" : [ {
    "content" : "xxxxxx",
    "date" : "2021-10-08T03:55:54,718",
    "level" : "INFO"
  } ]
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 8 Public Network Access

## 8.1 Enabling Public Network Access

### Function

This API is used to enable public network access.

### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/public/open

Table 8-1 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                       |
|------------|-----------|--------|-------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                       |
| cluster_id | Yes       | String | ID of the cluster whose public network access you want to enable. |

### Request Parameters

Table 8-2 Request body parameters

| Parameter | Mandatory | Type                                    | Description      |
|-----------|-----------|-----------------------------------------|------------------|
| eip       | Yes       | <a href="#">BindPublicReqEip</a> object | EIP information. |

Table 8-3 BindPublicReqEip

| Parameter | Mandatory | Type                             | Description               |
|-----------|-----------|----------------------------------|---------------------------|
| bandWidth | Yes       | BindPublicReqEipBandWidth object | Public network bandwidth. |

Table 8-4 BindPublicReqEipBandWidth

| Parameter | Mandatory | Type    | Description                   |
|-----------|-----------|---------|-------------------------------|
| size      | Yes       | Integer | Bandwidth range. Unit: Mbit/s |

Response Parameters

Status code: 200

Table 8-5 Response body parameters

| Parameter | Type   | Description                                                                                 |
|-----------|--------|---------------------------------------------------------------------------------------------|
| action    | String | Operations. The fixed value is <b>bindZone</b> , indicating that the binding is successful. |

Example Requests

```
{
  "eip" : {
    "bandWidth" : {
      "size" : 5
    }
  }
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "action" : "bindZone"
}
```

Status Codes

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

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 8.2 Disabling Public Network Access

### Function

This API is used to disable public network access to Kibana.

### URI

PUT /v1.0/{project\_id}/clusters/{cluster\_id}/public/close

**Table 8-6** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                        |
|------------|-----------|--------|--------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                        |
| cluster_id | Yes       | String | ID of the cluster whose public network access you want to disable. |

### Request Parameters

**Table 8-7** Request body parameters

| Parameter | Mandatory | Type                                         | Description      |
|-----------|-----------|----------------------------------------------|------------------|
| eip       | No        | <a href="#">UnBindPublicReqEipReq</a> object | EIP information. |

Table 8-8 UnBindPublicReqEipReq

| Parameter | Mandatory | Type                                             | Description               |
|-----------|-----------|--------------------------------------------------|---------------------------|
| bandWidth | No        | <a href="#">BindPublicReqEipBandWidth</a> object | Public network bandwidth. |

Table 8-9 BindPublicReqEipBandWidth

| Parameter | Mandatory | Type    | Description                   |
|-----------|-----------|---------|-------------------------------|
| size      | Yes       | Integer | Bandwidth range. Unit: Mbit/s |

Response Parameters

Status code: 200

Table 8-10 Response body parameters

| Parameter | Type   | Description                                                                                     |
|-----------|--------|-------------------------------------------------------------------------------------------------|
| action    | String | Operations. The fixed value is <b>unbindZone</b> , indicating that the unbinding is successful. |

Example Requests

```
{
  "eip" : {
    "bandWidth" : {
      "size" : 5
    }
  }
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "action" : "unbindZone"
}
```

Status Codes

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

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 8.3 Modifying Public Network Access Bandwidth

## Function

This API is used to modify the public network access bandwidth.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/public/bandwidth

**Table 8-11** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                 |
|------------|-----------|--------|-----------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                                 |
| cluster_id | Yes       | String | ID of the cluster whose public network access bandwidth you want to modify. |

## Request Parameters

**Table 8-12** Request body parameters

| Parameter | Mandatory | Type                                                 | Description               |
|-----------|-----------|------------------------------------------------------|---------------------------|
| bandWidth | Yes       | <a href="#">BindPublicRequestEipBandwidth</a> object | Public network bandwidth. |

Table 8-13 BindPublicReqEipBandWidth

| Parameter | Mandatory | Type    | Description                   |
|-----------|-----------|---------|-------------------------------|
| size      | Yes       | Integer | Bandwidth range. Unit: Mbit/s |

Response Parameters

None

Example Requests

```
{
  "bandWidth" : {
    "size" : 5
  }
}
```

Example Responses

None

Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

Error Codes

See [Error Codes](#).

8.4 Enabling the Public Network Access Control Whitelist

Function

This API is used to enable the public network access control whitelist.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/public/whitelist/update

**Table 8-14** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                                         |
| cluster_id | Yes       | String | ID of the cluster whose public network access control whitelist you want to enable. |

## Request Parameters

**Table 8-15** Request body parameters

| Parameter | Mandatory | Type   | Description                                               |
|-----------|-----------|--------|-----------------------------------------------------------|
| whiteList | Yes       | String | IP address of the user for whom the whitelist is enabled. |

## Response Parameters

None

## Example Requests

```
{  
  "whiteList" : "192.168.0.xx"  
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                          |
|-------------|------------------------------------------------------|
| 200         | Request succeeded.                                   |
| 400         | Invalid request.<br>Modify the request before retry. |

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 8.5 Disabling the Public Network Access Control Whitelist

## Function

This API is used to disable the public network access control whitelist.

## URI

PUT /v1.0/{project\_id}/clusters/{cluster\_id}/public/whitelist/close

**Table 8-16** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                          |
|------------|-----------|--------|--------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                                          |
| cluster_id | Yes       | String | ID of the cluster whose public network access control whitelist you want to disable. |

## Request Parameters

None

## Response Parameters

None

## Example Requests

None

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 9 Snapshot Management

## 9.1 (Not Recommended) Automatically Setting Basic Configurations of a Cluster Snapshot

### Function

This API is used to automatically set basic configurations for a cluster snapshot, including configuring OBS buckets and IAM agency.

- **OBS Bucket:** Enter the location of the OBS bucket used for storing snapshots.
- **Backup Path:** Enter the storage path of the snapshot in the OBS bucket.
- **IAM Agency:** Authorize you to use OBS in IAM so that snapshots must be stored in OBS.

This API automatically creates an OBS bucket and an agency for the snapshot. If there are multiple clusters, an OBS bucket will be created for each cluster via this API. As a result, the OBS quota may be insufficient, and many OBS buckets are difficult to maintain. You are advised to perform the operations in [Modifying Basic Configurations of a Cluster Snapshot](#).

### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshot/auto\_setting

**Table 9-1** Path Parameters

| Parameter  | Mandatory | Type   | Description                                            |
|------------|-----------|--------|--------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                            |
| cluster_id | Yes       | String | ID of the cluster where snapshots you want to back up. |

## Request Parameters

None

## Response Parameters

None

## Example Requests

None

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                |
| 406         | The server could not fulfill the request according to the content characteristics of the request. |

## Error Codes

See [Error Codes](#).

# 9.2 Modifying Basic Configurations of a Cluster Snapshot

## Function

This API is used to modify the basic configurations for a cluster snapshot, including OBS buckets and IAM agency.

You can also use this API to enable the snapshot function.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshot/setting

**Table 9-2** Path Parameters

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

| Parameter  | Mandatory | Type   | Description                                                              |
|------------|-----------|--------|--------------------------------------------------------------------------|
| cluster_id | Yes       | String | ID of the cluster whose snapshot basic configuration you want to modify. |

## Request Parameters

**Table 9-3** Request body parameters

| Parameter | Mandatory | Type   | Description                                     |
|-----------|-----------|--------|-------------------------------------------------|
| bucket    | Yes       | String | Name of the OBS bucket used for backup.         |
| agency    | Yes       | String | IAM agency used to access OBS.                  |
| basePath  | Yes       | String | Storage path of the snapshot in the OBS bucket. |

## Response Parameters

None

## Example Requests

```
{
  "bucket": "test-bucket",
  "agency": "usearch",
  "basePath": "css_repository/Es-name"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                |
| 406         | The server could not fulfill the request according to the content characteristics of the request. |
| 412         | The server did not meet one of the preconditions contained in the request.                        |
| 504         | A gateway timeout error occurred.                                                                 |

## Error Codes

See [Error Codes](#).

# 9.3 Manually Creating a Snapshot

## Function

This API is used to manually create a snapshot.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshot

**Table 9-4** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                |
|------------|-----------|--------|------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                |
| cluster_id | Yes       | String | ID of the cluster for which you want to create a snapshot. |

## Request Parameters

**Table 9-5** Request body parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                           |
|-------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| name        | Yes       | String | Snapshot name. Enter 4 to 64 characters. Lowercase letters, digits, hyphens (-), and underscores (_) are allowed. The value must start with a letter. |
| description | No        | String | Snapshot description. The value can contain up to 256 characters and cannot contain the following characters: ! <>=&'"                                |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| indices   | No        | String | Name of an index to be backed up. Multiple indexes are separated by commas (,). By default, all indexes are backed up. You can use \ * to match multiple indexes. For example, if you specify 2018-06*, then the data of the indexes with the prefix <b>2018-06</b> will be backed up. The value can contain 0 to 1,024 characters. Uppercase letters, spaces, and the following special characters are not allowed: "< >/?" |

## Response Parameters

Status code: 201

Table 9-6 Response body parameters

| Parameter | Type                             | Description           |
|-----------|----------------------------------|-----------------------|
| backup    | <a href="#">backupRsp</a> object | Snapshot information. |

Table 9-7 backupRsp

| Parameter | Type   | Description   |
|-----------|--------|---------------|
| id        | String | Snapshot ID   |
| name      | String | Snapshot name |

## Example Requests

```
{
  "name" : "snapshot_001",
  "indices" : "myindex1myindex2"
}
```

## Example Responses

Status code: 201

Resource created.

```
{
  "backup" : {
    "id" : "9dc4f5c9-33c0-45c7-9378-ae35ae350682",
    "name" : "snapshot_101"
  }
}
```

## Status Codes

| Status Code | Description                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 201         | Resource created.                                                                                                                                     |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                  |
| 403         | Request rejected.The server has received and understood the request, but refused to respond to it. The client should modify the request before retry. |
| 406         | The server could not fulfill the request according to the content characteristics of the request.                                                     |
| 500         | The server has received the request but could not understand it.                                                                                      |
| 501         | The server does not support the function required to fulfill the request.                                                                             |

## Error Codes

See [Error Codes](#).

# 9.4 Restoring a Snapshot

## Function

This API is used to manually restore a snapshot.

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshot/{snapshot\_id}/restore

**Table 9-8** Path Parameters

| Parameter   | Mandatory | Type   | Description                                           |
|-------------|-----------|--------|-------------------------------------------------------|
| project_id  | Yes       | String | Project ID.                                           |
| cluster_id  | Yes       | String | ID of the cluster whose snapshot you want to restore. |
| snapshot_id | Yes       | String | Snapshot ID.                                          |

## Request Parameters

**Table 9-9** Request body parameters

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| targetCluster | Yes       | String | ID of the cluster that a snapshot is to be restored to.                                                                                                                                                                                                                                                                                                                                                                   |
| indices       | No        | String | Name of an index to be restored. Multiple indexes are separated by commas (,). By default, all indexes are restored. You can use \ * to match multiple indexes. For example, if you specify 2018-06*, then the data of the indexes with the prefix <b>2018-06</b> will be restored. The value can contain 0 to 1,024 characters. Uppercase letters, spaces, and the following special characters are not allowed: "\< >/? |
| renamePattern | No        | String | Rule for defining the indexes to be restored. The value contains a maximum of 1,024 characters. Indexes that match this rule will be restored. The filtering condition must be a regular expression.<br><br>The value can contain 0 to 1,024 characters. Uppercase letters, spaces, and the following special characters are not allowed: "\< >/?                                                                         |

| Parameter         | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| renameReplacement | No        | String | Rule for renaming an index. The value can contain 0 to 1,024 characters. Uppercase letters, spaces, and the following special characters are not allowed: "\< >/?". For example, <b>restored_index_\$1</b> indicates adding the <b>restored_</b> prefix to the names of all the restored indexes. The <b>renameReplacement</b> parameter takes effect only if <b>renamePattern</b> has been enabled. |

## Response Parameters

None

## Example Requests

```
{
  "targetCluster" : "ea244205-d641-45d9-9dcb-ab2236bcd07e",
  "indices" : "myindex1,myindex2",
  "renamePattern" : "index",
  "renameReplacement" : "restored_index_$1"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 201         | Resource created.                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                              |
| 403         | Request 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 Codes

See [Error Codes](#).

## 9.5 Deleting a Snapshot

### Function

This API is used to delete a snapshot.

### URI

DELETE /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshot/{snapshot\_id}

**Table 9-10** Path Parameters

| Parameter   | Mandatory | Type   | Description                                          |
|-------------|-----------|--------|------------------------------------------------------|
| project_id  | Yes       | String | Project ID.                                          |
| cluster_id  | Yes       | String | ID of the cluster whose snapshot you want to delete. |
| snapshot_id | Yes       | String | ID of the snapshot you want to delete.               |

### Request Parameters

None

### Response Parameters

None

### Example Requests

None

### Example Responses

None

### Status Codes

| Status Code | Description                                          |
|-------------|------------------------------------------------------|
| 200         | Request succeeded.                                   |
| 400         | Invalid request.<br>Modify the request before retry. |

| Status Code | Description                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 403         | Request rejected.The server has received and understood the request, but refused to respond to it. The client should modify the request before retry. |

Error Codes

See [Error Codes](#).

## 9.6 Configuring the Automatic Snapshot Creation Policy

Function

This API is used to configure automatic snapshot creation. By default, a snapshot is created every day.

URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshot/policy

Table 9-11 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                             |
|------------|-----------|--------|-------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                             |
| cluster_id | Yes       | String | ID of the cluster for which you want to create snapshots automatically. |

## Request Parameters

**Table 9-12** Request body parameters

| Parameter | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| prefix    | No        | String  | <p>Prefix of a snapshot that is automatically created, which is manually entered. Enter up to 32 characters and start with a lowercase letter. Lowercase letters, digits, hyphens (-), and underscores (_) are allowed.</p> <p><b>NOTE</b><br/>When <b>enable</b> is set to <b>true</b>, <b>prefix</b> is mandatory.</p>                                                                                                                 |
| period    | No        | String  | <p>Time when a snapshot is created every day. Snapshots can only be created on the hour. The time format is the time followed by the time zone, specifically, <b>HH:mm z</b>. In the format, <b>HH:mm</b> refers to the hour time and <b>z</b> refers to the time zone. For example, <b>00:00 GMT+08:00</b> and <b>01:00 GMT+08:00</b>.</p> <p><b>NOTE</b><br/>When <b>enable</b> is set to <b>true</b>, <b>period</b> is mandatory.</p> |
| keepday   | No        | Integer | <p>Snapshot retention period. The value ranges from 1 to 90. Expired snapshots will be automatically deleted on the half hour.</p> <p><b>NOTE</b><br/>When <b>enable</b> is set to <b>true</b>, <b>keepday</b> is mandatory.</p>                                                                                                                                                                                                         |
| enable    | Yes       | String  | <p>Whether to enable the automatic snapshot creation policy.</p> <ul style="list-style-type: none"><li>• <b>true</b>: The automatic snapshot creation policy is enabled.</li><li>• <b>false</b>: The automatic snapshot creation policy is disabled.</li></ul>                                                                                                                                                                           |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                         |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| deleteAuto | No        | String | Whether to clear all the automatically created snapshots when the automatic snapshot creation policy is disabled. The default value is <b>false</b> , indicating that automatically created snapshots will not be deleted. If this parameter is set to <b>true</b> , all created snapshots will be deleted when the automatic snapshot creation policy is disabled. |

## Response Parameters

None

## Example Requests

```
{
  "prefix" : "snapshot",
  "period" : "16:00 GMT+08:00",
  "keepday" : 7,
  "enable" : "true",
  "deleteAuto" : "false"
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                |
| 406         | The server could not fulfill the request according to the content characteristics of the request. |

## Error Codes

See [Error Codes](#).

## 9.7 Querying the Automatic Snapshot Creation Policy

### Function

This API is used to query the automatic snapshot creation policy.

### URI

GET /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshot/policy

**Table 9-13** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                        |
|------------|-----------|--------|--------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                        |
| cluster_id | Yes       | String | ID of the cluster where snapshots are to be automatically created. |

### Request Parameters

None

### Response Parameters

**Status code: 200**

**Table 9-14** Response body parameters

| Parameter | Type    | Description                                               |
|-----------|---------|-----------------------------------------------------------|
| keepday   | Integer | Number of days for retaining a snapshot.                  |
| period    | String  | Time when a snapshot is created every day.                |
| prefix    | String  | Snapshot name prefix, which needs to be manually entered. |
| bucket    | String  | Name of the OBS bucket where snapshots are stored.        |
| basePath  | String  | Storage path of the snapshot in the OBS bucket.           |
| agency    | String  | Agency used to access OBS buckets.                        |

| Parameter | Type   | Description                                                                                                                                                                                                                                             |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enable    | String | Whether to enable the automatic snapshot creation policy. <ul style="list-style-type: none"><li>• <b>true</b>: The automatic snapshot creation policy is enabled.</li><li>• <b>false</b>: The automatic snapshot creation policy is disabled.</li></ul> |

## Example Requests

None

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "keepday" : 2,
  "period" : "16:00 GMT+08:00",
  "prefix" : "snapshot",
  "bucket" : "es-backup",
  "basePath" : "css_repository/tests",
  "agency" : "usearch",
  "enable" : "true"
}
```

## Status Codes

| Status Code | Description                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                |
| 406         | The server could not fulfill the request according to the content characteristics of the request. |

## Error Codes

See [Error Codes](#).

# 9.8 Querying a Snapshot List

## Function

This API is used to query all the snapshots of a cluster.

## URI

GET /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshots

**Table 9-15** Path Parameters

| Parameter  | Mandatory | Type   | Description                                          |
|------------|-----------|--------|------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                          |
| cluster_id | Yes       | String | ID of the cluster whose snapshots you want to query. |

## Request Parameters

None

## Response Parameters

**Status code: 200**

**Table 9-16** Response body parameters

| Parameter | Type                                                     | Description   |
|-----------|----------------------------------------------------------|---------------|
| backups   | Array of <a href="#">ListSnapshotBackupsResp</a> objects | Snapshot list |

**Table 9-17** ListSnapshotBackupsResp

| Parameter   | Type                                                    | Description            |
|-------------|---------------------------------------------------------|------------------------|
| created     | String                                                  | Snapshot creation time |
| datastore   | <a href="#">ListSnapshotBackupsDatastoreResp</a> object | Search engine          |
| description | String                                                  | Snapshot description   |
| id          | String                                                  | Snapshot ID            |
| clusterId   | String                                                  | Cluster ID             |
| clusterName | String                                                  | Cluster name           |
| name        | String                                                  | Snapshot name          |
| status      | String                                                  | Snapshot status        |

| Parameter               | Type    | Description                                                                                                                                                              |
|-------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| updated                 | String  | Time when the snapshot was updated. The format is <b>ISO8601: CCYY-MM-DDThh:mm:ss</b> .                                                                                  |
| backupType              | String  | Snapshot creation type. The options are as follows: <ul style="list-style-type: none"><li>• <b>0</b>: Automatic creation.</li><li>• <b>1</b>: Manual creation.</li></ul> |
| backupMethod            | String  | Snapshot creation mode                                                                                                                                                   |
| backupExpectedStartTime | String  | Snapshot start time                                                                                                                                                      |
| backupKeepDay           | Integer | Snapshot retention period                                                                                                                                                |
| backupPeriod            | String  | Time when a snapshot is created every day                                                                                                                                |
| indices                 | String  | Index you want to back up                                                                                                                                                |
| totalShards             | Integer | Total number of shards of the index you want to back up                                                                                                                  |
| failedShards            | Integer | Number of shards that fail to be backed up                                                                                                                               |
| version                 | String  | Snapshot version                                                                                                                                                         |
| restoreStatus           | String  | Snapshot restoration status                                                                                                                                              |
| startTime               | Long    | Snapshot start timestamp                                                                                                                                                 |
| endTime                 | Long    | Snapshot end timestamp                                                                                                                                                   |
| bucketName              | String  | Name of the bucket that stores snapshot data                                                                                                                             |

**Table 9-18** ListSnapshotBackupsDatastoreResp

| Parameter | Type   | Description                                                                                     |
|-----------|--------|-------------------------------------------------------------------------------------------------|
| type      | String | Engine type. Currently, only Elasticsearch is supported.                                        |
| version   | String | Elasticsearch engine version. For details, see CSS <a href="#">Supported Cluster Versions</a> . |

## Example Requests

None

## Example Responses

### Status code: 200

Request succeeded.

```
{
  "backups": [ {
    "created": "2018-03-07T07:34:47",
    "datastore": {
      "type": "elasticsearch",
      "version": "x.x.x"
    },
    "description": "",
    "id": "e29d99c1-3d19-4ea4-ae8d-f252df76cbe9",
    "clusterId": "37cb1075-c38e-4cd8-81df-442d52df3786",
    "clusterName": "Es-xfx",
    "name": "snapshot-002",
    "status": "COMPLETED",
    "updated": "2018-03-07T07:40:12",
    "backupType": "1",
    "backupMethod": "manual",
    "backupExpectedStartTime": null,
    "backupKeepDay": null,
    "backupPeriod": null,
    "indices": ".kibanawebsite2",
    "totalShards": 6,
    "failedShards": 0,
    "version": "x.x.x",
    "restoreStatus": "success",
    "startTime": 1520408087099,
    "endTime": 1520408412219,
    "bucketName": "obs-b8ed"
  }, {
    "created": "2018-03-06T15:42:37",
    "datastore": {
      "type": "elasticsearch",
      "version": "x.x.x"
    },
    "description": "",
    "id": "29a2254e-947f-4463-b65a-5f0b17515fae",
    "clusterId": "37cb1075-c38e-4cd8-81df-442d52df3786",
    "clusterName": "Es-xfx",
    "name": "snapshot-001",
    "status": "COMPLETED",
    "updated": "2018-03-06T15:48:04",
    "backupType": "1",
    "backupMethod": "manual",
    "backupExpectedStartTime": null,
    "backupKeepDay": null,
    "backupPeriod": null,
    "indices": ".kibana",
    "totalShards": 1,
    "failedShards": 0,
    "version": "x.x.x",
    "restoreStatus": "none",
    "startTime": 1520350957275,
    "endTime": 1520351284357,
    "bucketName": "obs-b8ed"
  } ]
}
```

## Status Codes

| Status Code | Description                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                |
| 406         | The server could not fulfill the request according to the content characteristics of the request. |

## Error Codes

See [Error Codes](#).

# 9.9 Disabling the Snapshot Function

## Function

This API is used to disable the snapshot function.

## URI

DELETE /v1.0/{project\_id}/clusters/{cluster\_id}/index\_snapshots

**Table 9-19** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                    |
|------------|-----------|--------|----------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                    |
| cluster_id | Yes       | String | ID of the cluster whose snapshot function you want to disable. |

## Request Parameters

None

## Response Parameters

None

## Example Requests

None

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                |
| 406         | The server could not fulfill the request according to the content characteristics of the request. |

## Error Codes

See [Error Codes](#).

# 10 VPC Endpoint

## 10.1 Enabling the VPC Endpoint Service

### Function

This API is used to enable the VPC endpoint service.

### Debugging

You can debug this API through automatic authentication in .

### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/vpcepservice/open

Table 10-1 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                  |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain the project ID and name, see <a href="#">Obtaining the Project ID and Name</a> . |
| cluster_id | Yes       | String | ID of the cluster whose VPC endpoint you want to enable.                                                                     |

## Request Parameters

**Table 10-2** Request body parameters

| Parameter           | Mandatory | Type    | Description              |
|---------------------|-----------|---------|--------------------------|
| endpointWithDnsName | No        | Boolean | Enable the VPC endpoint. |

## Response Parameters

**Status code: 200**

**Table 10-3** Response body parameters

| Parameter | Type   | Description                                                                                             |
|-----------|--------|---------------------------------------------------------------------------------------------------------|
| action    | String | Operations. The fixed value is <b>createVpcepService</b> , indicating that the VPC endpoint is enabled. |

## Example Requests

```
{
  "endpointWithDnsName" : true
}
```

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "action" : "createVpcepService"
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |

| Status Code | Description                                                                |
|-------------|----------------------------------------------------------------------------|
| 412         | The server did not meet one of the preconditions contained in the request. |

## Error Codes

See [Error Codes](#).

# 10.2 Disabling the VPC Endpoint Service

## Function

This API is used to disable the VPC endpoint service.

## Debugging

You can debug this API through automatic authentication in .

## URI

PUT /v1.0/{project\_id}/clusters/{cluster\_id}/vpcepservice/close

**Table 10-4** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                  |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain the project ID and name, see <a href="#">Obtaining the Project ID and Name</a> . |
| cluster_id | Yes       | String | ID of the cluster whose VPC endpoint you want to disable.                                                                    |

## Request Parameters

None

## Response Parameters

Status code: 200

**Table 10-5** Response body parameters

| Parameter | Type   | Description                                                                                                    |
|-----------|--------|----------------------------------------------------------------------------------------------------------------|
| action    | String | Operations. The fixed value is <b>deleteVpcepservice</b> , indicating that the VPC endpoint has been disabled. |

## Example Requests

None

## Example Responses

**Status code: 200**

Request succeeded.

```
{  
  "action" : "deleteVpcepservice"  
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 10.3 Obtaining an Endpoint Connection

## Function

This API is used to obtain a VPC endpoint connection.

## Debugging

You can debug this API through automatic authentication in .

## URI

GET /v1.0/{project\_id}/clusters/{cluster\_id}/vpcep-service/connections

**Table 10-6** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                  |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain the project ID and name, see <a href="#">Obtaining the Project ID and Name</a> . |
| cluster_id | Yes       | String | ID of the cluster you want to query.                                                                                         |

## Request Parameters

None

## Response Parameters

Status code: 200

**Table 10-7** Response body parameters

| Parameter         | Type                                         | Description                                                                                                                                                                    |
|-------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| connections       | Array of <a href="#">connections</a> objects | Connection information.                                                                                                                                                        |
| vpcepUpdateSwitch | Boolean                                      | Whether to update endpoints. <ul style="list-style-type: none"><li>• <b>true</b>: The VPC endpoint is enabled.</li><li>• <b>false</b>: The VPC endpoint is disabled.</li></ul> |
| total_count       | Integer                                      | Number of endpoints.                                                                                                                                                           |

**Table 10-8** connections

| Parameter | Type   | Description  |
|-----------|--------|--------------|
| id        | String | Endpoint ID. |

| Parameter         | Type   | Description                                                                                                                                                                                     |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status            | String | Endpoint status. <ul style="list-style-type: none"><li>● <b>accepted</b>: The VPC endpoint connection is enabled.</li><li>● <b>rejected</b>: The VPC endpoint connection is disabled.</li></ul> |
| maxSession        | String | Maximum number of connections.                                                                                                                                                                  |
| specificationName | String | Endpoint name.                                                                                                                                                                                  |
| created_at        | String | Creation time. The format is <b>ISO8601: CCYY-MM-DDThh:mm:ss</b> .                                                                                                                              |
| update_at         | String | Update time. The default value is <b>null</b> .                                                                                                                                                 |
| domain_id         | String | Owner.                                                                                                                                                                                          |

## Example Requests

None

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "connections": [ {
    "id": "connectionsID",
    "status": "accepted",
    "maxSession": "3000",
    "specificationName": "default",
    "created_at": "2021-09-17T08:00:07Z",
    "update_at": null,
    "domain_id": "domainID"
  } ],
  "vpcepUpdateSwitch": "false",
  "total_count": 1
}
```

## Status Codes

| Status Code | Description                                          |
|-------------|------------------------------------------------------|
| 200         | Request succeeded.                                   |
| 400         | Invalid request.<br>Modify the request before retry. |

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 10.4 Updating an Endpoint Connection

## Function

This API is used to update an endpoint connection.

## Debugging

You can debug this API through automatic authentication in .

## URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/vpcepservice/connections

**Table 10-9** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                  |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain the project ID and name, see <a href="#">Obtaining the Project ID and Name</a> . |
| cluster_id | Yes       | String | ID of the cluster whose VPC endpoint you want to update.                                                                     |

## Request Parameters

**Table 10-10** Request body parameters

| Parameter      | Mandatory | Type             | Description                                                                                                                                                                                              |
|----------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| action         | Yes       | String           | Expected operation behavior. <ul style="list-style-type: none"><li>• <b>receive</b>: The VPC endpoint connection is enabled.</li><li>• <b>reject</b>: The VPC endpoint connection is disabled.</li></ul> |
| endpointIdList | Yes       | Array of strings | Lists VPC endpoint IDs.                                                                                                                                                                                  |

## Response Parameters

None

## Example Requests

```
{
  "action": "receive",
  "endpointIdList": [ "f132bb14-e1d5-4f25-9f7c-a29e4c8effd4" ]
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 10.5 Modifying the Endpoint Service Whitelist

### Function

This API is used to modify the endpoint service whitelist.

### Debugging

You can debug this API through automatic authentication in .

### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/vpcepservice/permissions

**Table 10-11** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                  |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain the project ID and name, see <a href="#">Obtaining the Project ID and Name</a> . |
| cluster_id | Yes       | String | Cluster ID.                                                                                                                  |

### Request Parameters

**Table 10-12** Request body parameters

| Parameter      | Mandatory | Type             | Description                  |
|----------------|-----------|------------------|------------------------------|
| vpcPermissions | Yes       | Array of strings | Whitelist (user account ID). |

### Response Parameters

None

### Example Requests

```
{
  "vpcPermissions" : [ "dffef70c1db243cbb373e45791165281" ]
}
```

### Example Responses

None

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

# 11

## Parameter Configuration

### 11.1 Modifying Cluster Parameters

#### Function

This API is used to modify the parameter settings of a cluster.

#### URI

POST /v1.0/{project\_id}/clusters/{cluster\_id}/ymls/update

Table 11-1 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                       |
|------------|-----------|--------|-------------------------------------------------------------------|
| project_id | Yes       | String | Project ID.                                                       |
| cluster_id | Yes       | String | ID of the cluster whose parameter settings you want to be modify. |

#### Request Parameters

Table 11-2 Request body parameters

| Parameter | Mandatory | Type                                     | Description                     |
|-----------|-----------|------------------------------------------|---------------------------------|
| edit      | Yes       | <a href="#">UpdateYmlsReqEdit</a> object | Configuration file information. |

**Table 11-3** UpdateYmlsReqEdit

| Parameter | Mandatory | Type                                           | Description                                                                                                                                                                                                                             |
|-----------|-----------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| modify    | Yes       | <a href="#">UpdateYmlsReqEditModify</a> object | Operations on the configuration file. <ul style="list-style-type: none"><li>• <b>modify</b>: Modify parameter settings.</li><li>• <b>delete</b>: Delete parameter settings.</li><li>• <b>reset</b>: Reset parameter settings.</li></ul> |

**Table 11-4** UpdateYmlsReqEditModify

| Parameter         | Mandatory | Type   | Description                                                                  |
|-------------------|-----------|--------|------------------------------------------------------------------------------|
| elasticsearch.yml | Yes       | Object | Parameter configuration list. The value is the JSON data you want to modify. |

## Response Parameters

Status code: 200

**Table 11-5** Response body parameters

| Parameter         | Type    | Description                                                                                                                                                                         |
|-------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| acknowledged      | Boolean | Whether the modification is successful. <ul style="list-style-type: none"><li>• <b>true</b>: The modification succeeded.</li><li>• <b>false</b>: The modification failed.</li></ul> |
| errorMessage      | String  | Error message. If <b>acknowledged</b> was set to <b>true</b> , <b>null</b> is returned for this field.                                                                              |
| httpErrorResponse | String  | HTTP error information. The default value is <b>null</b> .                                                                                                                          |

## Example Requests

```
{
  "edit" : {
    "modify" : {
      "elasticsearch.yml" : {
        "thread_pool.force_merge.size" : 1
      }
    }
  }
}
```

## Example Responses

**Status code: 200**

Request succeeded.

```
{
  "acknowledged" : true,
  "externalMessage" : null,
  "httpErrorResponse" : null
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 11.2 Obtaining the Task List of Parameter Configurations

### Function

This API is used to obtain the parameter configuration task list of a cluster.

### URI

GET /v1.0/{project\_id}/clusters/{cluster\_id}/ymls/joblists

**Table 11-6** Path Parameters

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

| Parameter  | Mandatory | Type   | Description                          |
|------------|-----------|--------|--------------------------------------|
| cluster_id | Yes       | String | ID of the cluster you want to query. |

## Request Parameters

None

## Response Parameters

Status code: 200

Table 11-7 Response body parameters

| Parameter  | Type                                           | Description                              |
|------------|------------------------------------------------|------------------------------------------|
| configList | Array of <a href="#">configListRsp</a> objects | List of historical configuration changes |

Table 11-8 configListRsp

| Parameter         | Type   | Description                                                                                                                                                      |
|-------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id                | String | Operation ID.                                                                                                                                                    |
| clusterId         | String | Cluster ID.                                                                                                                                                      |
| createAt          | String | Creation time. Format: Unix timestamp.                                                                                                                           |
| status            | String | Task execution status. <ul style="list-style-type: none"><li>• <b>true</b>: The operation is successful.</li><li>• <b>false</b>: The execution failed.</li></ul> |
| finishedAt        | String | End time. If the creation has not been completed, the end time is <b>null</b> . Format: Unix timestamp.                                                          |
| modifyDeleteReset | String | History of parameter setting modifications.                                                                                                                      |
| failedMsg         | String | Returned error message. If the status is <b>success</b> , the value of this parameter is <b>null</b> .                                                           |

## Example Requests

None

## Example Responses

### Status code: 200

Request succeeded.

```
{
  "configList" : [ {
    "id" : "7ed7258a-60a8-46fe-8814-52819d491b80",
    "clusterId" : "4213d908-f5dc-4633-8401-cfd7175fca0c",
    "createAt" : 1633658735000,
    "status" : "success",
    "finishedAt" : null,
    "modifyDeleteReset" : "{\\"modify\\":{\\"elasticsearch.yml\\":{\\"thread_pool.force_merge.size\\":\\"1\\"}}}",
    "failedMsg" : ""
  } ]
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

## Error Codes

See [Error Codes](#).

## 11.3 Obtaining the Parameter Configuration List

### Function

This API is used to obtain the parameter configuration list of the current cluster.

### URI

GET /v1.0/{project\_id}/clusters/{cluster\_id}/ymls/template

**Table 11-9** Path Parameters

| Parameter  | Mandatory | Type   | Description                          |
|------------|-----------|--------|--------------------------------------|
| project_id | Yes       | String | Project ID.                          |
| cluster_id | Yes       | String | ID of the cluster you want to query. |

## Request Parameters

None

## Response Parameters

Status code: 200

**Table 11-10** Response body parameters

| Parameter      | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| configurations | Object | <p>Cluster parameter configuration list. The <b>key</b> value in the object is subject to the actual situation. The <b>value</b> has the following attributes:</p> <ul style="list-style-type: none"><li>• <b>id</b>: parameter ID.</li><li>• <b>key</b>: parameter name.</li><li>• <b>value</b>: parameter value.</li><li>• <b>defaultValue</b>: parameter default value.</li><li>• <b>regex</b>: parameter constraint.</li><li>• <b>desc</b>: parameter description.</li><li>• <b>type</b>: parameter type description.</li><li>• <b>moduleDesc</b>: parameter function description.</li><li>• <b>modifyEnable</b>: whether a parameter can be modified. <b>true</b>: The value can be changed. <b>false</b>: The value cannot be changed.</li><li>• <b>enableValue</b>: parameter value that can be changed.</li><li>• <b>fileName</b>: name of the file where parameters exist. The default value is <b>elasticsearch.yml</b>.</li><li>• <b>version</b>: version information.</li><li>• <b>descENG</b>: parameter description.</li><li>• <b>moduleDescENG</b>: parameter function description.</li></ul> |

### Example Requests

None

### Example Responses

Status code: 200

Request succeeded.

```
{
  "configurations" : {
    "http.cors.allow-credentials" : {
      "id" : "b462d13c-294b-4e0f-91d3-58be2ad02b99",
      "key" : "http.cors.allow-credentials",
      "value" : "false",
      "defaultValue" : "false",
      "regex" : "^(true|false)$",
      "desc" : "Indicates whether to return Access-Control-Allow-Credentials in the header during cross-domain access. The value is of the Boolean type and can be true or false.",
      "type" : "Boolean",
      "moduleDesc" : "Cross-domain access",
      "modifyEnable" : "true",
      "enableValue" : "true,false",
      "fileName" : "elasticsearch.yml",
      "version" : null,
      "descENG" : "Whether to return the Access-Control-Allow-Credentials of the header during cross-domain access. The value is a Boolean value and the options are true and false.",
      "moduleDescENG" : "Cross-domain Access"
    }
  }
}
```

### Status Codes

| Status Code | Description                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Request succeeded.                                                                                                                                                                                                                 |
| 400         | Invalid request.<br>Modify the request before retry.                                                                                                                                                                               |
| 409         | The request could not be completed due to a conflict with the current state of the resource.<br>The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict. |
| 412         | The server did not meet one of the preconditions contained in the request.                                                                                                                                                         |

### Error Codes

See [Error Codes](#).

# 12 Common Parameters

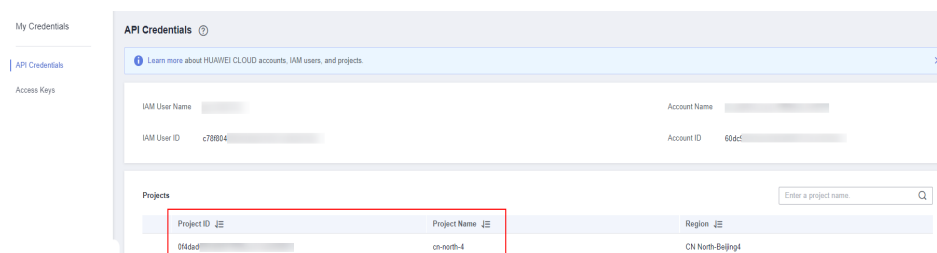
## 12.1 Obtaining a Project ID and Name

A project ID or project name is required in some API requests. You need to obtain the project ID and name before calling an API.

### Obtaining a Project ID and Name from the Console

1. Log in to the console.
2. In the upper right corner of the page, click the username and choose **My Credentials** from the drop-down list. The **My Credentials** page is displayed.
3. In the project list, view the **Project ID** and **Project Name**.

Figure 12-1 Viewing the project ID and name



### Obtaining a Project ID by Calling an API

The API for obtaining a project ID is **GET https://{iam-endpoint}/v3/projects**. *{iam-endpoint}* indicates the endpoint of IAM, which can be obtained from [Endpoints](#). For details about how to obtain the IAM endpoint, see [Authentication](#).

The following is an example response. For example, if CSS is deployed in region **xxx**, the value of **name** in the response body is **xxx**. The value of **id** in **projects** is the project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14exxxx",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14exxxx",

```

```
    "name": "xxx", //Project name, the name of the deployment zone.
    "description": "",
    "links": {
      "next": null,
      "previous": null,
      "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897dxxxx"
    },
    "id": "a4a5d4098fb4474fa22cd05f897dxxxx", //Project ID
    "enabled": true
  }
},
"links": {
  "next": null,
  "previous": null,
  "self": "https://www.example.com/v3/projects"
}
}
```

## 12.2 Status Code

[Table 12-1](#) describes the status code.

**Table 12-1** Status code description

| Status Code | Code                          | Description                                                                                                                                                                                         |
|-------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100         | Continue                      | The client continues sending the request.<br>This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server. |
| 101         | Switching Protocols           | Switching protocols. The target protocol must be later than the source protocol.<br>For example, the current HTTPS protocol is switched to a later version.                                         |
| 200         | OK                            | The request is processed successfully.                                                                                                                                                              |
| 201         | Created                       | The request for creating a resource has been fulfilled.                                                                                                                                             |
| 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         | NoContent                     | The server has successfully processed the request, but has not returned any content.<br>The status code is returned in response to an HTTPS OPTIONS request.                                        |
| 205         | Reset Content                 | The server has fulfilled the request, but the requester is required to reset the content.                                                                                                           |

| Status Code | Code              | Description                                                                                                                                                                                                                              |
|-------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 206         | Partial Content   | The server has processed certain GET requests.                                                                                                                                                                                           |
| 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 the user or user agent (such as a browser) can choose the most appropriate one. |
| 301         | Moved Permanently | The requested resource has been assigned a new permanent URI, and the new URI is contained in the response.                                                                                                                              |
| 302         | Found             | The requested resource resides temporarily under a different URI.                                                                                                                                                                        |
| 303         | See Other         | Retrieve a location.<br>The response to the request can be found under a different URI and 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            | The HTTPS status code is no longer used.                                                                                                                                                                                                 |
| 400         | BadRequest        | Invalid request.<br>The client should not repeat the request without modifications.                                                                                                                                                      |
| 401         | Unauthorized      | The status code is returned after the client provides the authentication information, indicating that the authentication information is incorrect or invalid.                                                                            |
| 402         | Payment Required  | This status code is reserved for future use.                                                                                                                                                                                             |
| 403         | Forbidden         | The server understood the request, but is refusing to fulfill it.<br>The client should not repeat the request without modifications.                                                                                                     |
| 404         | NotFound          | The requested resource cannot be found.<br>The client should not repeat the request without modifications.                                                                                                                               |

| Status Code | Code                            | Description                                                                                                                                                                                                                                                     |
|-------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 405         | MethodNotAllowed                | The method specified in the request is not supported for the requested resource.<br>The client should not repeat the request without modifications.                                                                                                             |
| 406         | Not Acceptable                  | The server cannot fulfill the request according to the content characteristics of the request.                                                                                                                                                                  |
| 407         | Proxy Authentication Required   | This status code is similar to 401, but indicates that the client must first authenticate itself with the proxy.                                                                                                                                                |
| 408         | Request Time-out                | The request timed out.<br>The client may repeat the request without modifications at any later time.                                                                                                                                                            |
| 409         | Conflict                        | The request could not be processed due to a conflict.<br>This status code indicates that the resource that the client attempts to create already exists, or the request fails to be processed because of the update of the conflict request.                    |
| 410         | Gone                            | The requested resource is no longer available.<br>The status code indicates that the requested resource has been deleted.                                                                                                                                       |
| 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 request is larger than that a server is able to process. The server may close the connection to prevent the client from continuing the request. If the server cannot process the request temporarily, the response will contain a Retry-After header field. |
| 414         | Request-URI Too Large           | The URI provided was too long for the server to process.                                                                                                                                                                                                        |
| 415         | Unsupported Media Type          | The server is unable to 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 | Code                       | Description                                                                                                                                                                                                                                                                                                                                         |
|-------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 422         | UnprocessableEntity        | The request is well-formed but is unable to be processed due to semantic errors.                                                                                                                                                                                                                                                                    |
| 429         | TooManyRequests            | The client has sent more requests than its rate limit is allowed within a given amount of time, or the server has received more requests than it is able to process within a given amount of time. In this case, it is advisable for the client to re-initiate requests after the time specified in the Retry-After header of the response expires. |
| 500         | InternalServerError        | The server is able to receive the request but it could not understand the request.                                                                                                                                                                                                                                                                  |
| 501         | Not Implemented            | The server does not support the requested function.                                                                                                                                                                                                                                                                                                 |
| 502         | Bad Gateway                | The server is acting as a gateway or proxy and receives an invalid request from a remote server.                                                                                                                                                                                                                                                    |
| 503         | ServiceUnavailable         | The requested service is invalid.<br>The client should not repeat the request without modifications.                                                                                                                                                                                                                                                |
| 504         | ServerTimeout              | The request cannot be fulfilled within a given time. This status code is returned to the client only when the <b>Timeout</b> parameter is specified in the request.                                                                                                                                                                                 |
| 505         | HTTP Version not supported | The server does not support the HTTPS protocol version used in the request.                                                                                                                                                                                                                                                                         |

## 12.3 Error Code

No data is returned if an API fails to be invoked. You can locate the cause of an error according to the error code of each API. When the API calling fails, HTTPS status code 4xx or 5xx is returned. The returned message body contains the specific error code and error information. If you fail to locate the cause of the error, contact technical support and provide the error code for troubleshooting.

| Status Code | Error Code | Error Message               | Measure                                                             |
|-------------|------------|-----------------------------|---------------------------------------------------------------------|
| 400         | CSS.0001   | The parameter is incorrect. | Check the parameter settings according to the returned information. |
| 500         | CSS.0005   | Server error.               | Contact technical support.                                          |

| Status Code | Error Code | Error Message                                                                                                                                         | Measure                                                |
|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 400         | CSS.0006   | The request body is empty.<br>Enter a request parameter.                                                                                              | Enter the request parameters.                          |
| 202         | CSS.0011   | This operation cannot be performed because another operation is being performed on the instance or the instance is faulty.<br>Please try again later. | Try again later.                                       |
| 403         | CSS.0015   | Resource not found or permission denied.                                                                                                              | Change the resource ID or check the access permission. |
| 404         | CSS.0022   | The instance does not exist or has been deleted.                                                                                                      | Change the instance ID.                                |
| 403         | CSS.0032   | The current user has no operation permissions.                                                                                                        | Check the permissions.                                 |
| 400         | CSS.0045   | The token is incorrect.                                                                                                                               | Obtain the token again.                                |
| 400         | CSS.1112   | The number of instances has reached the quota.                                                                                                        | Delete some clusters or increase the quota.            |
| 400         | CSS.3011   | Invalid retention duration of the backup.                                                                                                             | Change the allowed retention duration.                 |
| 404         | CSS.3027   | The cluster does not exist.                                                                                                                           | Check whether the cluster ID is correct.               |
| 400         | CSS.5007   | The selected flavor does not exist.                                                                                                                   | Check whether the specifications are correct.          |
| 400         | CSS.5009   | The hard disk size is beyond the valid range.                                                                                                         | Change the disk size.                                  |
| 400         | CSS.5014   | Invalid VPC ID.                                                                                                                                       | Check whether the VPC ID is correct.                   |
| 400         | CSS.5015   | Invalid subnet ID.                                                                                                                                    | Check whether the subnet ID is correct.                |
| 400         | CSS.5021   | The VPC does not exist or does not belong to the user.                                                                                                | Check whether the VPC is correct.                      |
| 400         | CSS.5023   | The security group does not exist or does not belong to the VPC.                                                                                      | Check whether the security group is correct.           |
| 400         | CSS.5157   | The CIDR does not exist or is invalid.                                                                                                                | Check whether there are subnets in the VPC.            |

| Status Code | Error Code | Error Message                                                    | Measure                                                          |
|-------------|------------|------------------------------------------------------------------|------------------------------------------------------------------|
| 400         | CSS. 5036  | The engine does not exist.                                       | Check whether the <b>datastore</b> parameter setting is correct. |
| 400         | CSS. 5047  | The number of instances is beyond the valid range.               | Check whether the number of instances is within the range.       |
| 409         | CSS. 5050  | The cluster name already exists.                                 | Change the cluster name.                                         |
| 400         | CSS. 5052  | Invalid value of the AZ.                                         | Change the AZ.                                                   |
| 400         | CSS. 5055  | Invalid flavor.                                                  | Modify the specifications.                                       |
| 400         | CSS. 5061  | The hard disk type is invalid.                                   | Change the hard disk type.                                       |
| 400         | CSS. 5071  | The disk type does not match that in the XML configuration file. | Change the hard disk type.                                       |
| 400         | CSS. 5072  | The security group ID is invalid.                                | Change the security group ID.                                    |
| 400         | CSS. 5074  | The subnet does not belong to the VPC.                           | Change the subnet ID.                                            |
| 400         | CSS. 5077  | Invalid cluster name.                                            | Change the cluster name.                                         |
| 400         | CSS. 5078  | The hard disk size is beyond the valid range.                    | Change the disk size.                                            |
| 400         | CSS. 5092  | Invalid hard disk information.                                   | Modify the hard disk information.                                |
| 400         | CSS. 5093  | Invalid specification information.                               | Modify the specification information.                            |
| 412         | CSS. 5130  | The agency name is invalid.                                      | Change the agency name.                                          |
| 500         | CSS. 9999  | Request processing failed.                                       | Contact technical support.                                       |
| NA          | CSS. 6000  | Clusters fail to be created.                                     | Try again later or contact technical support.                    |
| NA          | CSS. 6001  | Cluster scale-out fails.                                         | Try again later or contact technical support.                    |

| Status Code | Error Code | Error Message                                                                                       | Measure                                                        |
|-------------|------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| NA          | CSS. 6002  | Failed to bind the elastic IP address to the cluster.                                               | Try again later or contact technical support.                  |
| N/A         | CSS. 6003  | Failed to restore the cluster.                                                                      | Try again later or contact technical support.                  |
| N/A         | CSS. 6004  | Failed to create a node.                                                                            | Try again later or contact technical support.                  |
| N/A         | CSS. 6005  | The initialization fails.                                                                           | Perform the initialization again or contact technical support. |
| NA          | CSS. 6006  | Failed to modify the specifications.                                                                | Perform the initialization again or contact technical support. |
| NA          | CSS. 6007  | Failed to reset the password.                                                                       | Reset the password.                                            |
| N/A         | CSS. 6008  | Failed to update the YML file.                                                                      | Update the .yml file again or contact technical support.       |
| N/A         | CSS. 6009  | Failed to create the snapshot.                                                                      | Try again later or contact technical support.                  |
| N/A         | CSS. 6010  | Failed to restore the snapshot because the OBS object does not exist or has been deleted.           | Check whether the configured OBS object exists.                |
| N/A         | CSS. 6011  | Failed to create the snapshot because the OBS bucket you select does not exist or has been deleted. | Check whether the OBS bucket exists.                           |
| N/A         | CSS. 6012  | Failed to restore the snapshot because the OBS object does not exist or has been deleted.           | Check whether the OBS bucket exists.                           |
| N/A         | CSS. 6013  | The parameters cannot be modified because other operations are being performed on the cluster.      | Modify parameters when the cluster is available.               |

| Status Code | Error Code | Error Message                              | Measure                                                                                                                                                    |
|-------------|------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N/A         | CSS. 6014  | Some parameters cannot be modified.        | Check whether the submitted parameter modification request contains a parameter value that cannot be modified. If yes, delete the parameter and try again. |
| N/A         | CSS. 6015  | The parameter value is not in YAML format. | Modify the parameter format and try again.                                                                                                                 |

# 13 Change History

| Released On | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023-06-20  | <ul style="list-style-type: none"><li>• Added:<ul style="list-style-type: none"><li>– Added cluster version 7.10.2.</li><li>– <a href="#">Renaming a Cluster</a></li><li>– <a href="#">Changing the Password of a Cluster</a></li><li>– <a href="#">Scaling In a Cluster by Removing a Specific Node</a></li><li>– <a href="#">Scaling In Nodes of a Specific Type</a></li><li>– <a href="#">Downloading a Security Certificate</a></li><li>– <a href="#">Kibana Public Network Access</a></li><li>– <a href="#">Log Management</a></li><li>– <a href="#">Public Network Access</a></li><li>– <a href="#">VPC Endpoint</a></li><li>– <a href="#">Parameter Configuration</a></li></ul></li><li>• Optimized the parameter description in: <a href="#">Restoring a Snapshot</a></li></ul> |
| 2022-08-23  | <p>Updated:</p> <ul style="list-style-type: none"><li>• <a href="#">Overview</a></li><li>• <a href="#">Restrictions and Limitations</a></li><li>• <a href="#">Getting Started</a></li><li>• <a href="#">Creating a cluster</a></li><li>• <a href="#">Obtaining the Instance Specifications List</a></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2022-6-30   | This is the first official release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |