

Cloud Search Service

API Reference

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Before You Start

- [Overview](#)
- [API Calling](#)
- [Endpoints](#)
- [Restrictions and Limitations](#)
- [Concepts](#)
- [Supported Cluster Versions](#)

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, word library management, and snapshot management. You can call these APIs to easily create, query, delete, restart, and scale clusters.

If you plan to access CSS through an API, ensure that you are familiar with CSS concepts. For details, see [CSS Overview](#).

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 channels and instances 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.

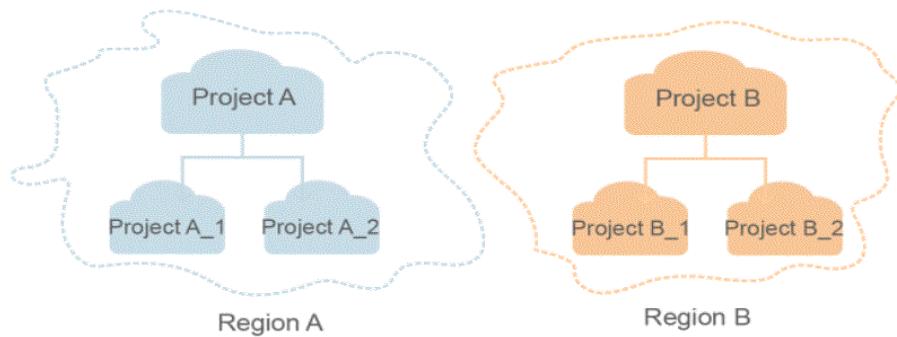
- AZ

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

1.6 Supported Cluster Versions

In CSS, Elasticsearch 7.6.2 and 7.10.2 and Kibana 7.6.2 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.
Word Dictionary Management APIs	CSS provides the custom word dictionary function. With word dictionary management APIs, you can upload or delete the custom word dictionary and query status of the word dictionary.
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.

Table 2-2 Cluster management APIs

API	Description
Creating a Cluster	This API is used to create a cluster.
Querying the List of Clusters	This API is used to query and display the cluster list and cluster status.
Querying Cluster Details	This API is used to query and display the details of a cluster.
Deleting a Cluster	This API is used to delete clusters.
Changing the Cluster Name	This API is used to change the name of a cluster.
Changing the Cluster Password	This API is used to change the password of a cluster.
Restarting a Cluster	This API is used to restart a cluster. Services will be interrupted during the restart.
Scaling Out a Cluster	This API is used to add instances (Elasticsearch instances only) to a cluster.
Adding Instances and Expanding Instance Storage Capacity	This API is used to add instances of different types and expand instance storage capacity in a cluster.
Changing Specifications	This API is used to modify the specifications of a cluster.
Obtaining the Instance Specifications List	This API is used to query and display the IDs of supported instance specifications.
Querying All Tags	This API is used to query all tags in a specified region.
Querying Tags of a Specified Cluster	This API is used to query the tag information about a specified cluster.
Adding Tags to a Cluster	This API is used to add tags to a cluster.
Deleting the Tags of a Cluster	This API is used to delete the tags of a cluster.
Adding or Deleting Cluster Tags in Batches	This API is used to add tags to or delete tags from a cluster in batches.
Changing the Specifications of a Specified Node Type	This API is used to modify cluster specifications. Nodes of the ess , ess-cold , ess-client , and ess-master types can be modified.
Removing Specified Nodes	This API is used to scale in a cluster by removing specified nodes.

API	Description
Scaling In Nodes of a Specific Type	This API is used to remove instances of different types and reduce instance storage capacity in a cluster.
Replacing a Node	This API is used to replace a failed node.
Modifying the Security Mode	This API is used to switch the security mode of a cluster.
Adding Master and Client Nodes	This API is used to add a master or client node.
Downloading a Security Certificate	This API is used to download a security certificate.
Creating a Cluster (V2)	This API is used to create a cluster with multiple node types (for example, ess , ess-cold , ess-client , and ess-master).
Restarting a Cluster (V2)	This API is used to restart nodes of all node types or the combination of some node types in the current cluster.
Rolling Restart	This API is used to restart nodes one by one, which requires a long time if the nodes have a large number of indexes.

Table 2-3 Word dictionary management APIs

API	Description
Loading a Custom Word Dictionary	This API is used to load a custom word dictionary stored in OBS.
Querying the Status Of a Custom Word Dictionary	This API is used to query the loading status of a custom word dictionary.
Deleting a Custom Word Dictionary	This API is used to delete custom word dictionaries.

Table 2-4 Kibana public network access APIs

API	Description
Enabling Kibana Public Access	This API is used to enable public network access to Kibana.
Disabling Kibana Public Access	This API is used to disable public network access to Kibana.

API	Description
Modifying the Kibana Public Network Bandwidth	This API is used to modify the public network bandwidth of Kibana.
Modifying Kibana Public Network Access Control	This API is used to modify the Kibana public network access whitelist.
Disabling Kibana Public Network Access Control	This API is used to disable the Kibana public network access whitelist.

Table 2-5 Log management APIs

API	Description
Enabling the Log Function	This API is used to enable the log management function.
Disabling the Log Function	This API is used to disable the log management function.
Querying the Job List	This API is used to query the job list in the logs of a cluster.
Querying Basic Log Configurations	This API is used to query basic log configurations.
Modifying Basic Log Configurations	This API is used to modify basic log configurations.
Enabling the Automatic Log Backup Policy	This API is used to enable the automatic log backup policy.
Disabling the Automatic Log Backup Policy	This API is used to disable the automatic log backup policy.
Backing Up Logs	This API is used to back up logs.
Querying Logs	This API is used to query log information.

Table 2-6 Public network access APIs

API	Description
Enabling Public Network Access	This API is used to enable public network access.

API	Description
Disabling Public Network Access	This API is used to disable public network access.
Modifying Public Network Access Bandwidth	This API is used to modify the public network access bandwidth.
Enabling the Public Network Access Control Whitelist	This API is used to enable the public network access control whitelist.
Disabling the Public Network Access Control Whitelist	This API is used to disable the public network access control whitelist.

Table 2-7 Snapshot management APIs

API	Description
(Not Recommended) Automatically Configuring Basic Settings of a Cluster Snapshot	This API is used to automatically configure basic settings of a cluster snapshot, including configuring OBS buckets and IAM agency.
Modifying Basic Configurations of a Cluster Snapshot	This API is used to modify the basic configurations of a cluster snapshot, including OBS buckets and IAM agency.
Manually Creating a Snapshot	This API is used to manually create a snapshot.
Restoring a Snapshot	This API is used to manually restore a snapshot.
Deleting a Snapshot	This API is used to delete a snapshot.
Setting the Automatic Snapshot Creation Policy	This API is used to configure automatic snapshot creation. By default, a snapshot is created every day.
Querying the Automatic Snapshot Creation Policy	This API is used to query the automatic snapshot creation policy of a cluster.
Querying the Snapshot List	This API is used to query the snapshot list of a specified cluster.
Disabling the Snapshot Function	This API is used to disable the snapshot function.
Enabling Automatic Snapshot Creation	This API is used to enable the automatic snapshot creation function.

API	Description
Disabling Automatic Snapshot Creation	This API is used to disable the automatic snapshot creation function.

Table 2-8 VPC endpoint APIs

API	Description
Enabling the VPC Endpoint Service	This API is used to enable the VPC endpoint service.
Disabling the VPC Endpoint Service	This API is used to disable the VPC endpoint service.
Obtaining a VPC Endpoint Connection	This API is used to obtain a VPC endpoint connection.
Updating a VPC Endpoint Connection	This API is used to update a VPC endpoint connection.
Modifying the Endpoint Service Whitelist	This API is used to modify the endpoint service whitelist.

Table 2-9 Parameter configuration APIs

API	Description
Modifying Parameter Settings	This API is used to modify parameters.
Obtaining the Task List of Parameter Configurations	This API is used to obtain the task list of parameter configurations.
Obtaining the Parameter Configuration List	This API is used to obtain the parameter configuration list of the current cluster.

3 Calling APIs

[Making an API Request](#)

[Authentication](#)

[Returned Values](#)

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}`

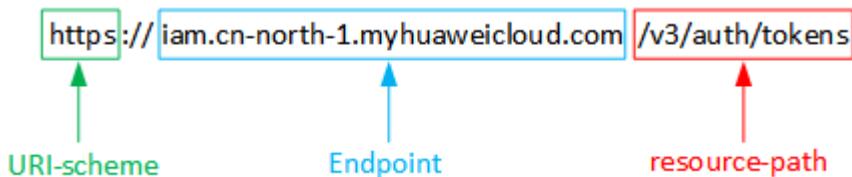
Table 3-1 Request URL

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS .
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 Endpoints .
resource-path	API access path for performing a specified operation. Obtain the value from the URI of the API. For example, the resource-path of the API for obtaining a user token is <code>/v3/auth/tokens</code> .
query-string	Query parameter, which is optional. Ensure that a question mark (?) is included before a query parameter that is in the format of " Parameter name=Parameter value ". For example, <code>limit=10</code> indicates that a maximum of 10 pieces of data is to be viewed.

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

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

Figure 3-1 Example URI



NOTE

To simplify the URI display, 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.xxx.myhuaweicloud.com/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 application/json .
X-Auth-Token	No (Mandatory for token-based authentication)	User token. 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 X-Subject-Token in the response header (Header) is the token value.
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.xxx.myhuaweicloud.com/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**. If the request body contains Chinese characters, these characters must be coded in UTF-8.

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 xxxxxxxxxxxxxxxx (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. For details, see [Obtaining a User Token](#).

```
POST https://iam.xxx.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "domain_name": "huawei",
                    "name": "huawei"
                }
            }
        }
    }
}
```

```
        ],
        "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



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.

When calling the API to [obtain a user token](#), you must set **auth.scope** in the request body to **project**.

```
{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username", //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 3-2 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 3-2 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 → noopener
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → MIIXQVJKoZhvNAQCcIiYtjCCGEoCAQEExDTALBgIghkgBZQMEAgEwgharBqkqhkG9w0BBwGgg hacBIIWmHsidG9rZW4iOnsiZXhwaxJlc19hdCI6ljwMTktMDItMTNUMDfj3Kj6YgKnpVNRbW2eZ5eb78S2OkqjACgkIqO1wi4JlGzrdp18LGXK5bxldfq4lqHCYb8P4NaY0NYejcAgzJVeFIYtLWT1GSO0zxKZmlQHQj82H8qHdgjZO9fuEbL5dMhdavj+33wElxHRCE9187o+k9-j+CMZSEB7bUJgd5Uj6eRASX1jipPEGA270g1Fruc0L6jqglFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUvhpvx8pxiX1wTEboX-RzT6MUbpvGw-oPNFYxJECKnoH3Hrozv0N--n5d6Nbvg==
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:

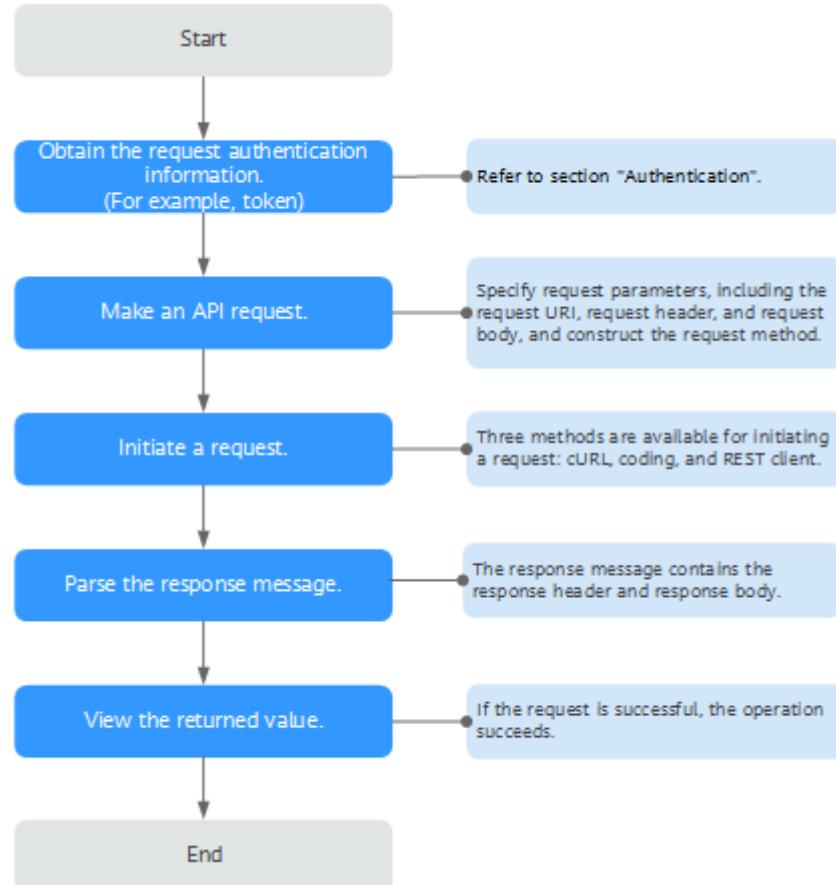
```
{  
    "error_msg": "The format of message is error",  
    "error_code": "AS.0001"  
}
```

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

- [Creating a cluster](#)
- [Querying the Cluster List](#)
- [Querying Cluster Details](#)
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- [Changing the Cluster Billing Mode from Pay-per-use to Yearly/Monthly](#)
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[Adding Independent Masters and Clients](#)

[Changing the Security Group](#)

[Creating a Cluster \(V2\)](#)

[Restarting a Cluster \(V2\)](#)

[Rolling Restart](#)

5.1 Creating a cluster

Function

This API is used to create a cluster.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters

Table 5-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 5-2 Request body parameters

Parameter	Mandatory	Type	Description
cluster	Yes	CreateCluster Body object	Cluster object.

Table 5-3 CreateClusterBody

Parameter	Mandatory	Type	Description
instance	Yes	CreateCluster InstanceBody object	Instance.
datastore	Yes	CreateCluster DatastoreBody 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	CreateCluster BackupStrategyBody object	Automatic snapshot creation policy, which is disabled by default. The automatic snapshot creation policy is enabled only if backupStrategy is not left blank.
httpsEnable	No	Boolean	Whether communication is encrypted on the cluster. The value can be true or false . By default, communication encryption is disabled. If httpsEnable is set to true , authorityEnable must be set to true . <ul style="list-style-type: none">• true: Communication is encrypted on the cluster.• false: Communication is not encrypted on the cluster. 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 true or false. Authentication is disabled by default.</p> <ul style="list-style-type: none">• true indicates that authentication is enabled for the cluster.• false indicates that authentication is disabled for the cluster. <p>This parameter is supported in clusters 6.5.4 or later.</p>
adminPwd	No	String	<p>Password of the cluster user admin in security mode. This parameter is mandatory only if authorityEnable is set to true.</p> <ul style="list-style-type: none">• The administrator password must meet the following requirements:<ul style="list-style-type: none">– The password can contain 8 to 32 characters.– Passwords must contain at least three of the following character types: uppercase letters, lowercase letters, digits, and special characters (~!@#\$%^&*()_-+=\ [\{}];,:<.>/?).• Weak password verification is required for a security cluster. You are advised to set a strong password.
enterprise_project_id	No	String	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 0 or in UUID format with hyphens (-). Value 0 indicates the default enterprise project.

Parameter	Mandatory	Type	Description
tags	No	Array of CreateClusterTagsBody objects	Cluster tag.
payInfo	No	payInfoBody object	Parameters used for purchasing a yearly/monthly cluster.

Table 5-4 CreateClusterInstanceBody

Parameter	Mandatory	Type	Description
flavorRef	Yes	String	Instance flavor. For details about the current instance flavor, see the name attribute in Obtaining the Instance Specifications List .
volume	Yes	CreateClusterInstanceVolumeBody object	Volume information. If flavorRef 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">• ess.spec-i3small• ess.spec-i3medium• ess.spec-i3.8xlarge.8• ess.spec-ds.xlarge.8• ess.spec-ds.2xlarge.8• ess.spec-ds.4xlarge.8
nics	Yes	CreateClusterInstanceNicsBody object	Subnet ID.

Parameter	Mandatory	Type	Description
availability_zone	No	String	AZ. A single AZ is created when this parameter is not specified. Separate multiple AZs with commas (,), for example, az1,az2 . AZs must be unique. The number of nodes must be greater than or equal to the number of AZs. 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.

Table 5-5 CreateClusterInstanceVolumeBody

Parameter	Mandatory	Type	Description
volume_type	Yes	String	Volume type. <ul style="list-style-type: none">• COMMON: common I/O• HIGH: high I/O• ULTRAHIGH: Ultra-high I/O
size	Yes	Integer	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 Obtaining the Instance Specifications List . Unit: GB

Table 5-6 CreateClusterInstanceNicsBody

Parameter	Mandatory	Type	Description
vpcId	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 Supported Cluster Versions .
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, HH:mm z . In the format, HH:mm refers to the hour time and z refers to the time zone. For example, 00:00 GMT+08:00 and 01:00 GMT+08:00 .
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. If none of the bucket, basePath, and agency parameters are specified, the system will automatically create an OBS bucket and an IAM agency. If the creation fails, you need to manually configure correct parameters.

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 (_).

Table 5-10 payInfoBody

Parameter	Mandatory	Type	Description
payModel	Yes	Integer	Subscription period type. <ul style="list-style-type: none">• 2: Monthly• 3: Yearly
period	Yes	Integer	Subscribed periods. <ul style="list-style-type: none">• If payModel is 2, the value range is 1 to 9.• If payModel is 3, the value range is 1 to 3.

Parameter	Mandatory	Type	Description
isAutoRenew	No	Integer	<p>Whether to automatically renew the subscription. If this parameter is not specified, the subscription is not automatically renewed.</p> <ul style="list-style-type: none">• 1: Yes• 2: No (default value)
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)• 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Response Parameters

Status code: 200

Table 5-11 Response body parameters

Parameter	Type	Description
cluster	CreateCluster ClusterResponse object	Cluster object. For a pay-per-use cluster, only the cluster parameter is returned.
orderId	String	Order ID. For a yearly/monthly cluster, only the orderId parameter is returned.

Table 5-12 CreateClusterClusterResponse

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

Example Requests

Example request for creating a yearly/monthly cluster. To create a pay-per-use cluster, delete the payInfo field from the request body.

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

```
{
  "cluster" : {
    "instance" : {
      "flavorRef" : "ess.spec-4u16g",
      "volume" : {
        "volume_type" : "COMMON",
        "size" : 120
      },
      "nics" : {
        "vpcId" : "{VPC ID}",
        "netId" : "{NET ID}",
        "securityGroupId" : "{Security group ID}"
      },
      "availability_zone" : "{Region ID}"
    },
    "datastore" : {
      "version" : "{cluster-version}",
      "type" : "elasticsearch"
    },
    "name" : "cluster-name",
    "instanceNum" : 3,
    "backupStrategy" : {
      "period" : "16:00 GMT+08:00",
      "prefix" : "snapshot",
      "keepday" : 7,
      "bucket" : "css-obs-backup",
      "basePath" : "css_repository/obs-path",
      "agency" : "css_obs_agency"
    },
    "httpsEnable" : true,
    "authorityEnable" : true,
    "adminPwd" : "{password}",
    "enterprise_project_id" : "0",
    "tags" : [ {
      "key" : "k1",
      "value" : "v1"
    }, {
      "key" : "k2",
      "value" : "v2"
    } ],
    "payInfo" : {
      "payModel" : 2,
      "period" : 1,
      "isAutoRenew" : 1,
      "isAutoPay" : 1
    }
  }
}
```

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"  
  }  
}
```

Example response for creating a yearly/monthly cluster.

```
{  
  "orderId" : "CS2208241141LY94J"  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters

Table 5-13 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Table 5-14 Query Parameters

Parameter	Mandatory	Type	Description
start	No	Integer	The start value of the query. The default value is 1, indicating that the query starts from the first cluster.
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 5-15 Response body parameters

Parameter	Type	Description
totalSize	Integer	Number of clusters
clusters	Array of ClusterList objects	List of cluster objects.

Table 5-16 ClusterList

Parameter	Type	Description
datastore	ClusterListDatastore object	Search engine.
instances	Array of ClusterListInstances objects	List of node objects.
publicKibanaR esp	publicKibanaRespBody object	Kibana public network access information.
elbWhiteList	elbWhiteListResp object	EIP whitelist.
updated	String	Last modification time of a cluster. The format is ISO8601: CCYY-MM-DDThh:mm:ss .
name	String	Cluster name
publicIp	String	Public IP address information.
created	String	Cluster creation time. The format is ISO8601: CCYY-MM-DDThh:mm:ss . 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">• 100: Creating• 200: Available• 303: Unavailable, for example, due to a creation failure.
endpoint	String	IP address and port number of the user used to access the VPC.
vpcId	String	ID of a VPC.
subnetId	String	Subnet ID.
securityGroupId	String	Security group ID.
bandwidthSize	Integer	Public network bandwidth. Unit: Mbit/s

Parameter	Type	Description
httpsEnable	Boolean	Communication encryption status. <ul style="list-style-type: none">• false: Communication encryption is not enabled.• true: Communication encryption is enabled.
authorityEnable	Boolean	Whether to enable authentication. <ul style="list-style-type: none">• true: Authentication is enabled for the cluster.• false: Authentication is not enabled for the cluster.
diskEncrypted	Boolean	Whether disks are encrypted. <ul style="list-style-type: none">• true: Disks are encrypted.• false: Disk are not encrypted.
backupAvailable	Boolean	Whether the snapshot function is enabled. <ul style="list-style-type: none">• true: The snapshot function is enabled.• false: The snapshot function is disabled.
actionProgress	Object	Cluster behavior progress, which shows the progress of cluster creation and scaling in percentage. CREATING indicates the progress of creation.
actions	Array of strings	Current behavior of a cluster. REBOOTING indicates that the cluster is being restarted. GROWING indicates that the cluster is being scaled. RESTORING indicates that the cluster is being restored. SNAPSHOTTING 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 ClusterListTags objects	Cluster tag.
failedReason	ClusterListFailedReasons object	Failure cause. If the cluster is in the available status, this parameter is not returned.
period	Boolean	Whether a cluster is billed on the yearly/monthly mode. <ul style="list-style-type: none">• true: The cluster is billed on the yearly/monthly mode.• false: The cluster is billed on the pay-per-use mode.

Table 5-17 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 Supported Cluster Versions .

Table 5-18 ClusterListInstances

Parameter	Type	Description
status	String	Node status. <ul style="list-style-type: none">• 100: Creating• 200: Available• 303: Unavailable, for example, due to a creation failure.
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.
volume	ClusterVolumeRsp object	definitions.ClusterVolumeRsp.description

Table 5-19 ClusterVolumeRsp

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

Table 5-20 publicKibanaRespBody

Parameter	Type	Description
eipSize	Integer	Bandwidth range. Unit: Mbit/s
elbWhiteListR esp	kibanaElbWh iteListResp object	Kibana public network access information.
publicKibanal p	String	Specifies the IP address for accessing Kibana.

Table 5-21 kibanaElbWhiteListResp

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

Table 5-22 elbWhiteListResp

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

Table 5-23 ClusterListTags

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

Table 5-24 ClusterListFailedReasons

Parameter	Type	Description
errorCode	String	Error code. <ul style="list-style-type: none"> • CSS.6000: A cluster fails to be created. • CSS.6001: A cluster fails to be scaled out. • CSS.6002: A cluster fails to be restarted. • CSS.6004: A node fails to be created in a cluster. • CSS.6005: A service fails to be initialized.
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" : 2,
  "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" : [ ],
    "period" : false
}, {
    "datastore" : {
        "type" : "elasticsearch",
        "version" : "7.9.3"
    },
    "instances" : [ {
        "status" : "200",
        "type" : "ess",
        "id" : "{INSTANCE_ID}",
        "name" : "css-new-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",
    "vpclId" : "{VPC_ID}",
    "subnetId" : "{SUBNET_ID}",
    "securityGroupId" : "{SECURITY_GROUP_ID}",
    "bandwidthSize" : 0,
    "httpsEnable" : false,
    "authorityEnable" : false,
    "diskEncrypted" : false,
    "backupAvailable" : false,
    "actionProgress" : { },
    "actions" : [ ],
    "tags" : [ ],
    "period" : false
} ]
}

```

Status Codes

Status Code	Description
200	Request succeeded.

Status Code	Description
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](#).

5.3 Querying Cluster Details

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}

Table 5-25 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to query.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-26 Response body parameters

Parameter	Type	Description
datastore	ClusterDetail Datastore object	Search engine.
instances	Array of ClusterDetail Instances objects	List of node objects.
publicKibanaR esp	publicKibana RespBody object	Kibana public network access information.
elbWhiteList	elbWhiteList Resp object	Public network access information.
updated	String	Last modification time of a cluster. The format is ISO8601: CCYY-MM-DDThh:mm:ss .
name	String	Cluster name
publicIp	String	Public IP address information.
created	String	Cluster creation time. The format is ISO8601: CCYY-MM-DDThh:mm:ss .
id	String	Cluster ID.
status	String	Cluster status. <ul style="list-style-type: none">● 100: An operation, such as creation, is in progress.● 200: Available.● 303: Unavailable, for example, due to a creation failure.
endpoint	String	IP address and port number of the user used to access the VPC.
vpclId	String	VPC ID
subnetId	String	Subnet ID
securityGroup Id	String	Security group ID.
vpceplp	String	Endpoint IP address.
bandwidthSiz e	Integer	Public network bandwidth. Unit: Mbit/s

Parameter	Type	Description
httpsEnable	Boolean	Communication encryption status. <ul style="list-style-type: none">• false: Communication encryption is not enabled.• true: Communication encryption is enabled.
diskEncrypted	Boolean	Whether disks are encrypted. <ul style="list-style-type: none">• true: Disks are encrypted.• false: Disk are not encrypted.
authorityEnable	Boolean	Whether to enable authentication. The value can be true or false . Authentication is disabled by default. <ul style="list-style-type: none">• true: Authentication is enabled for the cluster.• false: Authentication is not enabled for the cluster.
backupAvailable	Boolean	Whether the snapshot function is enabled. <ul style="list-style-type: none">• true: The snapshot function is enabled.• false: The snapshot function is disabled.
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. REBOOTING indicates that the cluster is being restarted. GROWING indicates that the cluster is being scaled. RESTORING indicates that the cluster is being restored. SNAPSHOTTING 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 ClusterDetailTags objects	Cluster tag.
failedReason	ClusterDetailFailedReasons object	Failure cause. If the cluster is in the available status, this parameter is not returned.

Parameter	Type	Description
period	Boolean	<p>Whether a cluster is billed on the yearly/monthly mode.</p> <ul style="list-style-type: none">• true: The cluster is billed on the yearly/monthly mode.• false: The cluster is billed on the pay-per-use mode.

Table 5-27 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 Supported Cluster Versions .

Table 5-28 ClusterDetailInstances

Parameter	Type	Description
status	String	<p>Node status value.</p> <ul style="list-style-type: none">• 100: An operation, such as creation, is in progress.• 200: Available.• 303: Unavailable, for example, due to a creation failure.
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.
volume	ShowClusterVolumeRsp object	Instance disk information

Table 5-29 ShowClusterVolumeRsp

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

Table 5-30 publicKibanaRespBody

Parameter	Type	Description
eipSize	Integer	Bandwidth range. Unit: Mbit/s
elbWhiteListR esp	kibanaElbWh iteListResp object	Kibana public network access information.
publicKibanal p	String	Specifies the IP address for accessing Kibana.

Table 5-31 kibanaElbWhiteListResp

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

Table 5-32 elbWhiteListResp

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

Table 5-33 ClusterDetailTags

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

Table 5-34 ClusterDetailFailedReasons

Parameter	Type	Description
errorCode	String	Error code. <ul style="list-style-type: none">• CSS.6000: A cluster fails to be created.• CSS.6001: A cluster fails to be scaled out.• CSS.6002: A cluster fails to be restarted.• CSS.6004: A node fails to be created in a cluster.• CSS.6005: A service fails to be initialized.
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",
        "vpcepIp" : "192.168.0.203",
        "bandwidthSize" : 0,
        "diskEncrypted" : false,
        "httpsEnable" : true,
        "authorityEnable" : true,
        "backupAvailable" : true,
        "actionProgress" : { },
        "actions" : [ ],
        "enterpriseProjectId" : "3e1c74a0-xxx-xxx-c6b9e46cf81b",
        "tags" : [ {
            "key" : "k1",
            "value" : "v1"
        }],
        "period" : false
    }
```

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](#).

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.

This API can also be used to unsubscribe from clusters in yearly/monthly mode.
Clusters frozen for public security cannot be deleted.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v1.0/{project_id}/clusters/{cluster_id}

Table 5-35 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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. Modify the request before retry.

Status Code	Description
404	The requested resource could not be found. Modify the request before retry.

Error Codes

See [Error Codes](#).

5.5 Changing the Cluster Billing Mode from Pay-per-use to Yearly/Monthly

Function

This API is used to change the cluster billing mode from pay-per-use to yearly/monthly.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/cluster/{cluster_id}/period

Table 5-36 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster that you want to change the billing mode to yearly/monthly.

Request Parameters

Table 5-37 Request body parameters

Parameter	Mandatory	Type	Description
periodType	Yes	Integer	Subscription period type. <ul style="list-style-type: none">● 2: Monthly● 3: Yearly
periodNum	Yes	Integer	Subscribed periods. <ul style="list-style-type: none">● If you selected Monthly, the value ranges from 1 to 9.● If you selected Yearly, the value ranges from 1 to 3.
isAutoRenew	No	Integer	Whether to automatically renew the subscription. If this parameter is not specified, the subscription is not automatically renewed. <ul style="list-style-type: none">● 1: Yes● 2: No (default value)
isAutoPay	No	Integer	Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters. <ul style="list-style-type: none">● 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)● 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Parameter	Mandatory	Type	Description
consoleURL	No	String	URL of the cloud service console. After the subscription is completed, this URL can be used to switch to the cloud service console page to view the information. (This parameter is used only for manual payment.)

Response Parameters

Status code: 200

Table 5-38 Response body parameters

Parameter	Type	Description
orderId	String	Order ID. (The order is a new purchase.)

Example Requests

```
{  
    "periodType": 2,  
    "periodNum": 1,  
    "isAutoRenew": 1,  
    "isAutoPay": 0,  
    "consoleURL": "https://console.xxx.huawei.com/elasticsearch-pre/?locale=zh-cn&region=xxx#/es/  
management/elasticsearch"  
}
```

Example Responses

Status code: 200

Request succeeded.

```
{  
    "orderId": "CS2112281600EBHKR"  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.

Status Code	Description
403	Identity authentication failed. The resource that the client attempts to create already exists, or the update request fails to be processed because of a conflict.

Error Codes

See [Error Codes](#).

5.6 Renaming a Cluster

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/changename

Table 5-39 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster that you want to rename.

Request Parameters

Table 5-40 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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Changing the Password of a Cluster

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/password/reset

Table 5-41 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose password you want to change.

Request Parameters

Table 5-42 Request body parameters

Parameter	Mandatory	Type	Description
newpassword	Yes	String	<p>Password of the cluster user admin in security mode. This API is available only if authorityEnable is set to true.</p> <ul style="list-style-type: none">• 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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

5.8 Restarting a Cluster

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/restart

Table 5-43 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to restart.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-44 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. Modify the request before retry.
404	The requested resource could not be found. Modify the request before retry.

Error Codes

See [Error Codes](#).

5.9 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](#).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/extend

Table 5-45 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to scale out.

Request Parameters

Table 5-46 Request body parameters

Parameter	Mandatory	Type	Description
grow	Yes	ExtendClusterGrowReq object	Detailed description about the cluster scale-out request.

Parameter	Mandatory	Type	Description
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none"> • 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.) • 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Table 5-47 ExtendClusterGrowReq

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

Response Parameters

None

Example Requests

- {
 "grow" : {
 "modifySize" : 4
 },

```
        "isAutoPay" : 1
    }
•  {
    "grow" : {
        "modifySize" : 4
    }
}
```

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](#).

5.10 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.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/role_extend

Table 5-48 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to scale out.

Request Parameters

Table 5-49 Request body parameters

Parameter	Mandatory	Type	Description
grow	Yes	Array of RoleExtendG rowReq objects	Detailed description about the cluster scale-out request.
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)• 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Table 5-50 RoleExtendGrowReq

Parameter	Mandatory	Type	Description
type	Yes	String	Type of the instance to be scaled out. Select at least one from ess , ess-master , and ess-client . A type can be selected once only. You can only add instances, rather than increase storage capacity, on nodes of the ess-master and ess-client 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">● The number of ess and ess-cold nodes must be a multiple of 20.● Storage capacity of ess-master and ess-client nodes cannot be expanded.

Response Parameters

Status code: 200

Table 5-51 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
    }],
    "isAutoPay" : 1
}

● {
    "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. Modify the request before retry.
404	The requested resource could not be found. Modify the request before retry.

Error Codes

See [Error Codes](#).

5.11 Changing Specifications

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/flavor

Table 5-52 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose specifications you want to change.

Request Parameters

Table 5-53 Request body parameters

Parameter	Mandatory	Type	Description
needCheckReplica	No	Boolean	Whether to check replicas. The value can be true or false . The check is enabled by default. <ul style="list-style-type: none">• true: Replicas are checked.• false: Replicas are not checked.

Parameter	Mandatory	Type	Description
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 name 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.
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)• 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Response Parameters

None

Example Requests

- {
 "needCheckReplica" : false,
 "newFlavorId" : "35b060a4-f152-48ce-8773-36559ceb81f2",
 "isAutoPay" : 1
}

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

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

5.12 Obtaining the Instance Specifications List

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/es-flavors

Table 5-54 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

None

Response Parameters

Status code: 200

Table 5-55 Response body parameters

Parameter	Type	Description
versions	Array of EsflavorsVersionsResp objects	Engine version list.

Table 5-56 EsflavorsVersionsResp

Parameter	Type	Description
version	String	Elasticsearch engine version. For details, see CSS Supported Cluster Versions .
flavors	Array of EsflavorsVersionsFlavorsResp objects	instance flavor list.
type	String	Instance type. The options are ess , ess-cold , ess-master , and ess-client .

Table 5-57 EsflavorsVersionsFlavorsResp

Parameter	Type	Description
cpu	Integer	Number of CPU cores of an instance.
ram	Integer	Memory size of an instance. Unit: GB

Parameter	Type	Description
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.

Status Code	Description
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](#).

5.13 Querying All Tags

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/{resource_type}/tags

Table 5-58 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
resource_type	Yes	String	Resource type. Currently, its value can only be <code>css-cluster</code> .

Request Parameters

None

Response Parameters

Status code: 200

Table 5-59 Response body parameters

Parameter	Type	Description
tags	Array of ShowAllTagsTagsResp objects	List of cluster tags

Table 5-60 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. The client should modify the request instead of re-initiating it.
404	The requested resource could not be found. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

5.14 Querying Tags of a Specified Cluster

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/{resource_type}/{cluster_id}/tags

Table 5-61 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to query.
resource_type	Yes	String	Resource type. Currently, its value can only be <code>css-cluster</code> .

Request Parameters

None

Response Parameters

Status code: 200

Table 5-62 Response body parameters

Parameter	Type	Description
tags	Array of ShowTagsTagsResp objects	List of cluster tags

Table 5-63 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. The client should modify the request instead of re-initiating it.
404	The requested resource could not be found. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

5.15 Adding Tags to a Cluster

Function

This API is used to add tags to a cluster.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/{resource_type}/{cluster_id}/tags

Table 5-64 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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 <code>css-cluster</code> .

Request Parameters

Table 5-65 Request body parameters

Parameter	Mandatory	Type	Description
tag	Yes	Tag object	Tag object you want to add.

Table 5-66 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. 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. 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](#).

5.16 Deleting a Cluster Tag

Function

This API is used to delete a cluster tag.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v1.0/{project_id}/{resource_type}/{cluster_id}/tags/{key}

Table 5-67 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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 css-cluster .
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. The client should modify the request instead of re-initiating it.
404	The requested resource could not be found. The client should not repeat the request without modifications.

Error Codes

See [Error Codes](#).

5.17 Adding or Deleting Cluster Tags in Batches

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/{resource_type}/{cluster_id}/tags/action

Table 5-68 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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 css-cluster .

Request Parameters

Table 5-69 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">• create: Tags are added in batches.• delete: Tags are deleted in batches.
tags	Yes	Array of Tag objects	Tag list.

Parameter	Mandatory	Type	Description
sysTags	No	Array of SysTags objects	System tag list. <ul style="list-style-type: none">The value of key is fixed to _sys_enterprise_project_id.The value is UUID or 0.0 indicates the default enterprise project.

Table 5-70 Tag

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

Table 5-71 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. 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. 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](#).

5.18 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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/{types}/flavor

Table 5-72 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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">• ess: data node• ess-cold: cold data node• ess-client: client node• ess-master: master node

Request Parameters

Table 5-73 Request body parameters

Parameter	Mandatory	Type	Description
needCheckReplica	No	Boolean	Whether to check replicas. The value can be true or false . The check is enabled by default. <ul style="list-style-type: none">• true: Replicas are checked.• false: Replicas are not checked. Master and client nodes are not data nodes, so they do not need to check replicas no matter this parameter is set to true or false .

Parameter	Mandatory	Type	Description
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 name 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.
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)• 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Response Parameters

None

Example Requests

- {
 "needCheckReplica" : false,
 "newFlavorId" : "35b060a4-f152-48ce-8773-36559ceb81f2",
 "isAutoPay" : 1
}

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

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 a Cluster by Removing a Specific Node

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/node/offline

Table 5-74 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to scale in.

Request Parameters

Table 5-75 Request body parameters

Parameter	Mandatory	Type	Description
shrinkNodes	Yes	Array of strings	ID of the node you want to remove from a cluster. Obtain the ID attribute in instances by referring to Querying Cluster Details .

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. 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. 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 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.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/extend/{project_id}/clusters/{cluster_id}/role/shrink

Table 5-76 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to scale in.

Request Parameters

Table 5-77 Request body parameters

Parameter	Mandatory	Type	Description
shrink	Yes	Array of ShrinkNodeReq objects	Type and quantity of nodes you want to remove from a cluster.

Table 5-78 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">After the scale-in, there has to be at least one node in each AZ under each node type.In a cross-AZ cluster, the difference between the numbers of the same type nodes in different AZs cannot exceed 1.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. <p>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.</p>

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Node type.</p> <ul style="list-style-type: none">• ess: data node• ess-cold: cold data node• ess-client: client node• ess-master: master node

Response Parameters

None

Example Requests

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

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

5.21 Downloading a Security Certificate

Function

This API is used to download a security certificate.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/cer/download

Table 5-79 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

None

Response Parameters

Status code: 200

Table 5-80 Response body parameters

Parameter	Type	Description
-	File	Request succeeded.

Example Requests

None

Example Responses

Status code: 200

Request succeeded.

"Certificate:xxxx"

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](#).

5.22 Replacing a Node

Function

This API is used to replace a failed node.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v1.0/{project_id}/clusters/{cluster_id}/instance/{instance_id}/replace

Table 5-81 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster where nodes are to be replaced
instance_id	Yes	String	ID of the node to be replaced

Request Parameters

None

Response Parameters

None

Example Requests

```
PUT /v1.0/{project_id}/clusters/{cluster_id}/instance/{instance_id}/replace
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. The client should modify the request instead of re-initiating it.
404	The requested resource could not be found. The client should modify the request instead of re-initiating it.

Error Codes

See [Error Codes](#).

5.23 Configuring the Security Mode.

Function

This API is used to configure the security mode of a cluster.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

```
POST /v1.0/{project_id}/clusters/{cluster_id}/mode/change
```

Table 5-82 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	Cluster ID.

Request Parameters

Table 5-83 Request body parameters

Parameter	Mandatory	Type	Description
authorityEnable	Yes	Boolean	Security mode. Its value can be: <ul style="list-style-type: none">• true: enabled• false: disabled Default value: true
adminPwd	No	String	Cluster password in security mode.
httpsEnable	Yes	Boolean	Enable HTTPS. Its value can be: <ul style="list-style-type: none">• true: enabled• false: disabled Default value: true

Response Parameters

None

Example Requests

```
POST /v1.0/{project_id}/clusters/{cluster_id}/mode/change
{
    "authorityEnable" : true,
    "adminPwd" : "Huawei@1234",
    "httpsEnable" : true
}
```

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](#).

5.24 Adding Independent Masters and Clients

Function

If you have not enabled the master or client node when creating a cluster, you can call this API to add one.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/type/{type}/independent

Table 5-84 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster that needs an independent master or client.
type	Yes	String	Node type. Its value can be: <ul style="list-style-type: none">• ess-master: master node• ess-client: client node

Request Parameters

Table 5-85 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	Independent BodyReq object	Master/Client request body parameter

Table 5-86 IndependentBodyReq

Parameter	Mandatory	Type	Description
flavor_ref	Yes	String	Flavor ID. You can obtain the value of this parameter by calling the API for [Obtaining the Instance Specifications List] (ListFlavors.xml). Select the flavor ID suitable for your cluster version.
node_size	Yes	Integer	Number of nodes. <ul style="list-style-type: none">• If the node type is ess-master, the number of nodes must be an odd number in the range 3 to 10.• If the node type is ess-client, the number of nodes must be in the range 1 to 32.
volume_type	Yes	String	Node storage type. Its value can be ULTRAHIGH, COMMON, or HIGH.

Response Parameters

Status code: 200

Table 5-87 Response body parameters

Parameter	Type	Description
id	String	Cluster ID.

Example Requests

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/ea244205-d641-45d9-9dcb-ab2236bcd07e/type/ess-client/independent

{
  "type" : {
    "flavor_ref" : "d9dc06ae-b9c4-4ef4-acd8-953ef4205e27",
    "node_size" : 3,
    "volume_type" : "COMMON"
  }
}
```

Example Responses

Status code: 200

Request succeeded.

```
{
  "id" : "320afa24-ff2a-4f44-8460-6ba95e512ad4"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
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.
500	The server has received the request but could not understand it.

Error Codes

See [Error Codes](#).

5.25 Changing the Security Group

Function

This API is used to change the security group after a cluster is created.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

```
POST /v1.0/{project_id}/clusters/{cluster_id}/sg/change
```

Table 5-88 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	Cluster ID.

Request Parameters

Table 5-89 Request body parameters

Parameter	Mandatory	Type	Description
security_group_ids	Yes	String	Security group ID.

Response Parameters

None

Example Requests

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/ea244205-d641-45d9-9dcb-ab2236bcd07e/sg/change
{
    "security_group_ids" : "b1038649-1f77-4ae9-b64d-9af56e422652"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. The client should not repeat the request without modifications.
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](#).

5.26 Creating a Cluster (V2)

Function

This API is used to create a cluster with multiple node types (for example, ess, ess-cold, ess-client, ess-master).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2.0/{project_id}/clusters

Table 5-90 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 5-91 Request body parameters

Parameter	Mandatory	Type	Description
cluster	Yes	CreateCluster Body object	Cluster object.

Table 5-92 CreateClusterBody

Parameter	Mandatory	Type	Description
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.

Parameter	Mandatory	Type	Description
backupStrategy	No	CreateCluster BackupStrategyBody object	Automatic snapshot creation. The automatic snapshot creation policy is enabled only if backupStrategy is not left blank.
roles	Yes	Array of CreateCluster RolesBody objects	Cluster information
nics	Yes	CreateCluster InstanceNics Body object	Subnet ID.
enterprise_project_id	No	String	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 0 or in UUID format with hyphens (-). Value 0 indicates the default enterprise project.
tags	No	Array of CreateCluster TagsBody objects	Cluster tag.
availability_zone	No	String	AZ.
datastore	Yes	CreateCluster DatastoreBody object	Engine type. Currently, only Elasticsearch is supported.
authorityEnable	No	Boolean	Whether to enable authentication. The value can be true or false . Authentication is disabled by default. <ul style="list-style-type: none">• true: Authentication is enabled for the cluster.• false: Authentication is disabled for the cluster. This parameter is supported in clusters 6.5.4 or later.

Parameter	Mandatory	Type	Description
httpsEnable	No	Boolean	Whether communication is encrypted on the cluster. The value can be true or false . By default, communication encryption is disabled. If httpsEnable is set to true , authorityEnable must be set to true .- true : Communication is encrypted on the cluster.- false : Communication is not encrypted on the cluster. This parameter is supported in clusters 6.5.4 or later.
adminPwd	No	String	Password of the cluster user admin in security mode. This parameter is mandatory only when authorityEnable is set to true . Input requirements: <ul style="list-style-type: none">• Must contain 8 to 32 characters.• Must contain at least three of the following character types: letters, digits, and special characters ~!@#\$%^&*()_-_=+\ [{}];,<.>/?
publicIPReq	No	CreateCluster PublicIpReq object	Public network access information. This parameter is valid only when httpsEnable is set to true .
loadBalance	No	CreateCluster LoadBalance object	VPC endpoint service information
publicKibanaReq	No	CreateCluster PublicKibana Req object	Kibana public network access information. This parameter is valid only when authorityEnable is set to true .
payInfo	No	PayInfoBody object	Parameters used for purchasing a yearly/monthly cluster.

Table 5-93 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, HH:mm z . In the format, HH:mm refers to the hour time and z refers to the time zone. For example, 00:00 GMT+08:00 and 01:00 GMT+08:00 .
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.
agency	No	String	IAM agency used to access OBS. If none of the bucket , base_path , and agency parameters are specified, the system will automatically create an OBS bucket and an IAM agency. If the creation fails, you need to manually configure correct parameters.

Table 5-94 CreateClusterRolesBody

Parameter	Mandatory	Type	Description
flavorRef	Yes	String	Instance flavor. For details about the current instance flavor, see the name attribute in Obtaining the Instance Specifications List .
volume	Yes	CreateClusterInstanceVolumeBody object	Volume information. If flavorRef is set to a local disk flavor, leave this parameter blank. Obtain the the local disk flavor by referring to the diskrange attribute in Obtaining the Instance Specifications List . Currently, the following local disk flavors are supported: <ul style="list-style-type: none">• ess.spec-i3small• ess.spec-i3medium• ess.spec-i3.8xlarge.8• ess.spec-ds.xlarge.8• ess.spec-ds.2xlarge.8• ess.spec-ds.4xlarge.8
type	Yes	String	Instance type. Select at least one. Example: <ul style="list-style-type: none">• ess-master indicates a master node.• ess-client indicates a client node.• ess-cold indicates a cold data node.• ess indicates a data node.

Parameter	Mandatory	Type	Description
instanceNum	Yes	Integer	<p>Number of instances.</p> <ul style="list-style-type: none">● If ess is selected, you can set the value to 1 to 32.<ul style="list-style-type: none">- If both ess and ess-master are selected, you can set the value to 1 to 200.- If both ess and ess-client are selected, you can set the value to 1 to 32.- If both ess and ess-cold are selected, you can set the value to 32.● If ess-master is selected, you can set the value to 3 to 10.● If ess-client is selected, you can set the value to 1 to 32.● If ess-cold is selected, you can set the value to 1 to 32.

Table 5-95 CreateClusterInstanceVolumeBody

Parameter	Mandatory	Type	Description
volume_type	Yes	String	<p>Volume type.</p> <ul style="list-style-type: none">● COMMON: common I/O● HIGH: high I/O● ULTRAHIGH: Ultra-high I/O
size	Yes	Integer	Volume size. The value must be greater than 0 and a multiple of 4 and 10. Unit: GB

Table 5-96 CreateClusterInstanceNicsBody

Parameter	Mandatory	Type	Description
vpcId	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 5-97 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 (_).

Table 5-98 CreateClusterDatastoreBody

Parameter	Mandatory	Type	Description
version	Yes	String	Version of the CSS cluster engine. For details, see CSS Supported Cluster Versions .
type	Yes	String	Engine type. Elasticsearch is supported.

Table 5-99 CreateClusterPublicIpReq

Parameter	Mandatory	Type	Description
eip	Yes	CreateCluster PublicIp object	Public network bandwidth.
elbWhiteListR eq	Yes	CreateCluster ElbWhiteList object	EIP whitelist.
publicBindType	Yes	String	Whether to automatically bind an EIP. Specifies whether to automatically bind an EIP. Currently, only auto_assign is supported.

Parameter	Mandatory	Type	Description
eipId	No	String	EIP ID.

Table 5-100 CreateClusterPublicEip

Parameter	Mandatory	Type	Description
bandWidth	Yes	CreateClusterPublicEipSize object	Public network bandwidth.

Table 5-101 CreateClusterPublicEipSize

Parameter	Mandatory	Type	Description
size	Yes	Integer	Bandwidth range.

Table 5-102 CreateClusterElbWhiteList

Parameter	Mandatory	Type	Description
enableWhiteList	Yes	Boolean	Whether to enable the public network access control.
whiteList	No	String	Public network access control whitelist. Separate the whitelisted network segments or IP addresses with commas (,), and each of them must be unique.

Table 5-103 CreateClusterLoadBalance

Parameter	Mandatory	Type	Description
endpointWithDnsName	Yes	Boolean	Whether to enable the private domain name. <ul style="list-style-type: none">• true: The private zone is enabled.• false: The private zone is disabled.
vpcPermissions	No	Array of strings	Access control.

Table 5-104 CreateClusterPublicKibanaReq

Parameter	Mandatory	Type	Description
eipSize	Yes	Integer	Bandwidth range.
elbWhiteList	Yes	CreateCluster PublicKibana ElbWhiteList object	Kibana whitelist information.

Table 5-105 CreateClusterPublicKibanaElbWhiteList

Parameter	Mandatory	Type	Description
whiteList	Yes	String	Whitelist. Separate the whitelisted network segments or IP addresses with commas (,), and each of them must be unique.
enableWhiteLi st	Yes	Boolean	Whether to enable the Kibana access control.

Table 5-106 PayInfoBody

Parameter	Mandatory	Type	Description
payModel	Yes	Integer	Subscription period type. <ul style="list-style-type: none">• 2: Monthly• 3: Yearly
period	Yes	Integer	Subscribed periods. <ul style="list-style-type: none">• If payModel is 2, the value range is 1 to 9.• If payModel is 3, the value range is 1 to 3.
isAutoRenew	No	Integer	Whether to automatically renew the subscription. If this parameter is not specified, the subscription is not automatically renewed. <ul style="list-style-type: none">• 1: Yes• 2: No (default value)

Parameter	Mandatory	Type	Description
isAutoPay	No	Integer	<p>Whether an order is automatically paid from your Huawei Cloud account.</p> <ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)• 2: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Response Parameters

Status code: 200

Table 5-107 Response body parameters

Parameter	Type	Description
cluster	CreateCluster Resp object	Cluster object. For a pay-per-use cluster, only the cluster parameter is returned.
orderId	String	Order ID. For a yearly/monthly cluster, only the orderId parameter is returned.

Table 5-108 CreateClusterResp

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

Example Requests

Example request for creating a yearly/monthly cluster. To create a pay-per-use cluster, delete the payInfo field from the request body.

```
POST /v2.0/6204a5bd270343b5885144cf9c8c158d/clusters
```

```
{  
    "cluster": {  
        "name": "css-cluster",  
        "backupStrategy": {  
            "period": "16:00 GMT+08:00",  
            "prefix": "snapshot",  
            "keepday": 7,  
            "bucket": "OBS-obsName",  
            "basePath": "css_repository/obs-path",  
            "agency": "css_obs_agency"  
        },  
        "roles": [ {  
            "flavorRef": "ess.spec-4u8g",  
            "volume": {  
                "volume_type": "COMMON",  
                "size": 100  
            },  
            "type": "ess",  
            "instanceNum": 1  
        } ],  
        "nics": {  
            "vpcId": "{VPC ID}",  
            "netId": "{NET ID}",  
            "securityGroupId": "{Security group ID}"  
        },  
        "enterprise_project_id": 0,  
        "tags": [ {  
            "key": "k1",  
            "value": "v1"  
        }, {  
            "key": "k2",  
            "value": "v2"  
        } ],  
        "availability_zone": "{Az code}",  
        "datastore": {  
            "version": "{cluster-version}",  
            "type": "elasticsearch"  
        },  
        "authorityEnable": true,  
        "httpsEnable": true,  
        "adminPwd": "{password}",  
        "publicIPReq": {  
            "eip": {  
                "bandWidth": {  
                    "size": 5  
                }  
            },  
            "elbWhiteListReq": {  
                "enableWhiteList": true,  
                "whiteList": "127.0.0.1"  
            },  
            "publicBindType": "auto_assign",  
            "eipld": null  
        },  
        "loadBalance": {  
            "endpointWithDnsName": false,  
            "vpcPermissions": [ "{Account ID}" ]  
        },  
        "publicKibanaReq": {  
            "eipSize": 5,  
            "elbWhiteList": {  
                "whiteList": "127.0.0.1",  
                "port": 9200  
            }  
        }  
    }  
}
```

```
        "enableWhiteList" : true
    }
},
"payInfo" : {
    "payModel" : 2,
    "period" : 1,
    "isAutoRenew" : 1,
    "isAutoPay" : 1
}
}
```

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"
    }
}
```

Example response for creating a yearly/monthly cluster.

```
{
    "orderId" : "CS2208241141LY94J"
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

5.27 Restarting a Cluster (V2)

Function

This API is used to restart nodes of all node types or the combination of some node types in the current cluster.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2.0/{project_id}/clusters/{cluster_id}/restart

Table 5-109 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to restart.

Request Parameters

Table 5-110 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Operation role. Value range: <ul style="list-style-type: none">• node• role

Parameter	Mandatory	Type	Description
value	Yes	String	<p>Operation parameter.</p> <p>Parameter description:</p> <ul style="list-style-type: none">• If the operation role is node, the value is the node ID. You can obtain the ID attribute in instances by referring to Querying Cluster Details.• If the operation role is role, the value is one or multiple node types (such as ess, ess-master, ess-client, and ess-cold).

Response Parameters

None

Example Requests

```
POST /v2.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/restart
{
  "type" : "role",
  "value" : "ess"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

5.28 Rolling Restart

Function

This API is used to restart nodes one by one, which requires a long time when the nodes have a large number of indexes.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2.0/{project_id}/clusters/{cluster_id}/rolling_restart

Table 5-111 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to restart.

Request Parameters

Table 5-112 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Operation role. Its type can only be role .

Parameter	Mandatory	Type	Description
value	Yes	String	<p>Instance type. (At least one data node is required when you configure instance types.) Use commas (,) to separate multiple types. For example:</p> <ul style="list-style-type: none">• ess-master indicates a master node.• ess-client indicates a client node.• ess-cold indicates a cold data node.• ess indicates a data node.• all indicates all nodes.

Response Parameters

None

Example Requests

```
POST /v2.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/  
rolling_restart  
{  
    "type" : "role",  
    "value" : "ess"  
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Word Dictionary Management

[Loading Custom Word Dictionaries](#)

[Querying the Status of a Custom Word Dictionary](#)

[Disabling a Word Dictionary](#)

6.1 Loading Custom Word Dictionaries

Function

This API is used to load a custom word dictionary stored in OBS.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/thesaurus

Table 6-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster where a custom word dictionary you want to configure.

Request Parameters

Table 6-2 Request body parameters

Parameter	Mandatory	Type	Description
bucketName	Yes	String	OBS bucket where the word dictionary file is stored. (The bucket type must be Standard or Infrequent Access . Archive is not supported).
mainObject	No	String	Main word dictionary file object, which must be a text file encoded in UTF-8 without BOM. Each line contains a word. The maximum file size is 100 MB. At least one of the mainObject , stopObject , and synonymObject parameters must be configured. Only one main word dictionary can be loaded at a time.
stopObject	No	String	Stop word dictionary file object, which must be a text file encoded in UTF-8 without BOM. Each line contains a word. The maximum file size is 20 MB. At least one of the mainObject , stopObject , and synonymObject parameters must be configured.
synonymObject	No	String	Synonym word dictionary file, which must be a text file encoded in UTF-8 without BOM. Each line contains a group of words. The maximum file size is 20 MB. At least one of the mainObject , stopObject , and synonymObject parameters must be configured.

Response Parameters

None

Example Requests

```
{  
    "bucketName" : "test-bucket",  
    "mainObject" : "word/main.txt",  
    "stopObject" : "word/stop.txt",  
    "synonymObject" : "word/synonym.txt"  
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
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.
500	The server is able to receive the request but unable to understand the request.

Error Codes

See [Error Codes](#).

6.2 Querying the Status of a Custom Word Dictionary

Function

This API is used to query the loading status of a custom word dictionary.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/thesaurus

Table 6-3 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose word dictionary status you want to query

Request Parameters

None

Response Parameters

Status code: 200

Table 6-4 Response body parameters

Parameter	Type	Description
status	String	Loading status. <ul style="list-style-type: none">• Loaded indicates that the loading succeeded.• Loading indicates that the loading is in progress.• Failed indicates that the loading failed.
bucket	String	OBS bucket for storing word dictionary files.
mainObj	String	Main word dictionary file.
stopObj	String	Stop word dictionary file.
synonymObj	String	Synonym dictionary file.
updateTime	String	Latest update time of a dictionary.
updateDetails	String	Update details.
clusterId	String	ID of the cluster where a custom word dictionary you want to configure.
operateStatus	String	Operation status.
id	String	ID of the word dictionary.

Example Requests

None

Example Responses

Status code: 200

Request succeeded.

```
{  
    "status" : "Loaded",  
    "operateStatus" : "success",  
    "id" : "e766bd5a-79b0-4d1a-8402-fdeb017a36d1",  
    "bucket" : "test-bucket",  
    "mainObj" : "word/main.txt",  
    "stopObj" : "word/stop.txt",  
    "synonymObj" : "word/synonym.txt",  
    "updateTime" : 1521184757000,  
    "updateDetails" : "allinstancesareloadedsuccessfully.",  
    "clusterId" : "ea244205-d641-45d9-9dcb-ab2236bcd07e"  
}
```

Status Codes

Status Code	Description
200	Request succeeded.
500	The server is able to receive but unable to understand the request.

Error Codes

See [Error Codes](#).

6.3 Disabling a Word Dictionary

Function

This API is used to delete custom word dictionaries.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v1.0/{project_id}/clusters/{cluster_id}/thesaurus

Table 6-5 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose custom word dictionary you want to delete.

Request Parameters

None

Response Parameters

None

Example Requests

None

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
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.
500	The server is able to receive but unable to understand the request.

Error Codes

See [Error Codes](#).

7

Kibana Public Network Access

- [Enabling Kibana Public Access](#)
- [Disabling Kibana Public Access](#)
- [Modifying the Kibana Public Network Bandwidth](#)
- [Modifying Kibana Public Access Control](#)
- [Disabling Kibana Public Network Access Control](#)

7.1 Enabling Kibana Public Access

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/publickibana/open

Table 7-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose Kibana public access you want to enable.

Request Parameters

Table 7-2 Request body parameters

Parameter	Mandatory	Type	Description
eipSize	Yes	Integer	Bandwidth. Unit: Mbit/s
elbWhiteList	Yes	StartKibanaPublicReqElbWhitelist object	ELB whitelist.
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)• 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Table 7-3 StartKibanaPublicReqElbWhitelist

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

Response Parameters

None

Example Requests

- {

```
"eipSize" : 5,
"elbWhiteList" : {
  "enableWhiteList" : true,
  "whiteList" : "192.168.0.xx"
},
"isAutoPay" : 1
}
```
- {

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

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

7.2 Disabling Kibana Public Access

Function

This API is used to disable public network access to Kibana. Yearly/Monthly clusters cannot disable public access using APIs.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v1.0/{project_id}/clusters/{cluster_id}/publickibana/close

Table 7-4 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose Kibana public access you want to disable.

Request Parameters

Table 7-5 Request body parameters

Parameter	Mandatory	Type	Description
eipSize	No	Integer	Bandwidth. Unit: Mbit/s

Parameter	Mandatory	Type	Description
elbWhiteList	No	StartKibanaPublicReqElbWhitelist object	ELB whitelist.

Table 7-6 StartKibanaPublicReqElbWhitelist

Parameter	Mandatory	Type	Description
enableWhiteList	Yes	Boolean	Whether to enable the whitelist function. <ul style="list-style-type: none"> • true: The whitelist is enabled. • false: The whitelist is disabled.
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. 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. 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 Modifying the Kibana Public Network Bandwidth

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/publickibana/bandwidth

Table 7-7 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose Kibana public network bandwidth you want to modify.

Request Parameters

Table 7-8 Request body parameters

Parameter	Mandatory	Type	Description
bandWidth	Yes	UpdatePublicKibanaBandwidthReqBandWidth object	Bandwidth.
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)• 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Table 7-9 UpdatePublicKibanaBandwidthReqBandWidth

Parameter	Mandatory	Type	Description
size	Yes	Integer	New bandwidth size.

Response Parameters

None

Example Requests

- {
 "bandWidth" : {
 "size" : 5
 },
 "isAutoPay" : 1
}
- {
 "bandWidth" : {
 "size" : 5
 }
}

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Modifying Kibana Public Access Control

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/publickibana/whitelist/update

Table 7-10 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose Kibana access permission you want to modify.

Request Parameters

Table 7-11 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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Disabling Kibana Public Network Access Control

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v1.0/{project_id}/clusters/{cluster_id}/publickibana/whitelist/close

Table 7-12 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Log Management

- [Enabling the Log Function](#)
- [Disabling the Log Function](#)
- [Querying the Job List](#)
- [Querying Basic Log Configurations](#)
- [Modifying Basic Log Configurations](#)
- [Enabling the Automatic Log Backup Policy](#)
- [Disabling the Automatic Log Backup Policy](#)
- [Backing Up Logs](#)
- [Searching for Logs](#)

8.1 Enabling the Log Function

Function

This API is used to enable the log function.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/logs/open

Table 8-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose log function you want to enable.

Request Parameters

Table 8-2 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.

Status Code	Description
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 the Log Function

Function

This API is used to disable the log function.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v1.0/{project_id}/clusters/{cluster_id}/logs/close

Table 8-3 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Querying the Job List

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/logs/records

Table 8-4 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to query.

Table 8-5 Query Parameters

Parameter	Mandatory	Type	Description
start	No	Integer	The start value of the query. The default value is 1, indicating that the query starts from the first task.
limit	No	Integer	Number of task to be queried. The default value is 10, indicating that the information about 10 tasks is queried at a time.

Request Parameters

None

Response Parameters

Status code: 200**Table 8-6** Response body parameters

Parameter	Type	Description
clusterLogRecord	Array of clusterLogRecord objects	Cluster log entity object.

Table 8-7 clusterLogRecord

Parameter	Type	Description
id	String	Log task ID, which is generated based on the system UUID.

Parameter	Type	Description
clusterId	String	Cluster ID.
createAt	String	Creation time. Format: Unix timestamp.
logPath	String	Storage path of backed up logs in the OBS bucket.
status	String	Task status <ul style="list-style-type: none">• RUNNING: The line is being backed up.• SUCCESS: The backup succeeded.• FAIL: The backup failed.
finishedAt	Long	End time. If the creation has not been completed, the end time is null . Format: Unix timestamp.
jobTypes	String	Task type. <ul style="list-style-type: none">• Manual: Manual backup.• Auto: Automatic backup.
failedMsg	String	Error information. If the task did not fail, the value of this parameter is null .
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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Querying Basic Log Configurations

Function

This API is used to query basic log configurations.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/logs/settings

Table 8-8 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to query.

Request Parameters

None

Response Parameters

Status code: 200

Table 8-9 Response body parameters

Parameter	Type	Description
logConfiguration	logConfiguration object	Log configuration entity object.

Table 8-10 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">• true: Automatic backup is enabled.• false: Automatic backup is disabled.
period	String	Start time of automatic log backup. If autoEnable is set to false , the value of this parameter is null . Format: GMT
logSwitch	Boolean	Whether to enable the log function. <ul style="list-style-type: none">• true: The log function is enabled.• false: The log function is disabled.

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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Modifying Basic Log Configurations

Function

This API is used to modify basic log configurations.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/logs/settings

Table 8-11 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose basic log configurations you want to modify.

Request Parameters

Table 8-12 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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

8.6 Enabling the Automatic Log Backup Policy

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/logs/policy/update

Table 8-13 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose log backup policy you want to enable.

Request Parameters

Table 8-14 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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

8.7 Disabling the Automatic Log Backup Policy

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v1.0/{project_id}/clusters/{cluster_id}/logs/policy/close

Table 8-15 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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. 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. 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](#).

8.8 Backing Up Logs

Function

This API is used to back up logs.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/logs/collect

Table 8-16 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

8.9 Searching for Logs

Function

This API is used to query log information.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/logs/search

Table 8-17 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to query.

Request Parameters

Table 8-18 Request body parameters

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

Response Parameters

Status code: 200

Table 8-19 Response body parameters

Parameter	Type	Description
logList	Array of logList objects	Log list.

Table 8-20 logList

Parameter	Type	Description
content	String	Log content.

Parameter	Type	Description
date	String	Date.
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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Public Network Access

- [Enabling Public Network Access](#)
- [Disabling Public Network Access](#)
- [Modifying Public Network Access Bandwidth](#)
- [Enabling the Public Network Access Control Whitelist](#)
- [Disabling the Public Network Access Control Whitelist](#)

9.1 Enabling Public Network Access

Function

This API is used to enable public network access.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/public/open

Table 9-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose public network access you want to enable.

Request Parameters

Table 9-2 Request body parameters

Parameter	Mandatory	Type	Description
eip	Yes	BindPublicReqEip object	EIP information.
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)• 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Table 9-3 BindPublicReqEip

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

Table 9-4 BindPublicReqEipBandWidth

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

Response Parameters

Status code: 200

Table 9-5 Response body parameters

Parameter	Type	Description
action	String	Operations. The fixed value is bindZone , 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.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

9.2 Disabling Public Network Access

Function

This API is used to disable public network access to Kibana. Yearly/Monthly clusters cannot disable Kibana public access using APIs.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v1.0/{project_id}/clusters/{cluster_id}/public/close

Table 9-6 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose public network access you want to disable.

Request Parameters

Table 9-7 Request body parameters

Parameter	Mandatory	Type	Description
eip	No	UnBindPublicReqEipReq object	<ul style="list-style-type: none">• 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.)

Table 9-8 UnBindPublicReqEipReq

Parameter	Mandatory	Type	Description
bandWidth	No	BindPublicReqEipBandWidth object	Public network bandwidth.

Table 9-9 BindPublicReqEipBandWidth

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

Response Parameters

Status code: 200

Table 9-10 Response body parameters

Parameter	Type	Description
action	String	Operations. The fixed value is unbindZone , 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.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

9.3 Modifying Public Network Access Bandwidth

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/public/bandwidth

Table 9-11 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose public network access bandwidth you want to modify.

Request Parameters

Table 9-12 Request body parameters

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

Parameter	Mandatory	Type	Description
isAutoPay	No	Integer	<p>Whether to enable automatic payment from your Huawei Cloud account. This parameter takes effect only for yearly/monthly clusters.</p> <ul style="list-style-type: none"> • 1: Yes. (Discounts and coupons are automatically selected. The fee will be automatically deducted from your Huawei Cloud account.) If the automatic payment fails, an unpaid order will be generated, and you need to manually complete the payment. (During manual payment, you can still modify the discounts and coupons that were automatically selected.) • 0: No. (The customer needs to manually pay for the bill. Discounts and coupons can be used.) The default value is 0.

Table 9-13 BindPublicReqEipBandWidth

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

Response Parameters

None

Example Requests

```
{
  "bandWidth": {
    "size": 5
  },
  "isAutoPay": 1
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

9.4 Enabling the Public Network Access Control Whitelist

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/public/whitelist/update

Table 9-14 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose public network access control whitelist you want to enable.

Request Parameters

Table 9-15 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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

9.5 Disabling the Public Network Access Control Whitelist

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v1.0/{project_id}/clusters/{cluster_id}/public/whitelist/close

Table 9-16 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Snapshot Management

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

Modifying Basic Configurations of a Cluster Snapshot

Manually Creating a Snapshot

Restoring a Snapshot

Deleting a Snapshot

Configuring the Automatic Snapshot Creation Policy

Querying the Automatic Snapshot Creation Policy

Querying a Snapshot List

Disabling the Snapshot Function

Enabling Automatic Snapshot Creation

Disabling Automatic Snapshot Creation

10.1 (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](#).

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/auto_setting

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 Obtaining the Project ID and Name .
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](#).

10.2 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.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/setting

Table 10-2 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose snapshot basic configuration you want to modify.

Request Parameters

Table 10-3 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](#).

10.3 Manually Creating a Snapshot

Function

This API is used to manually create a snapshot.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot

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 Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster for which you want to create a snapshot.

Request Parameters

Table 10-5 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: ! <>=&"'
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 2018-06 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 10-6 Response body parameters

Parameter	Type	Description
backup	backupRsp object	Snapshot information.

Table 10-7 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. 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.

Status Code	Description
501	The server does not support the function required to fulfill the request.

Error Codes

See [Error Codes](#).

10.4 Restoring a Snapshot

Function

This API is used to manually restore a snapshot.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/{snapshot_id}/restore

Table 10-8 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose snapshot you want to restore.
snapshot_id	Yes	String	Snapshot ID.

Request Parameters

Table 10-9 Request body parameters

Parameter	Mandatory	Type	Description
targetCluster	Yes	String	ID of the cluster that a snapshot is to be restored to.

Parameter	Mandatory	Type	Description
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 2018-06 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. The value can contain 0 to 1,024 characters. Uppercase letters, spaces, and the following special characters are not allowed: "\< >/? This parameter takes effect only when both renameReplacement and renamePattern are set.
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, restored_index_ \$1 indicates adding the restored_ prefix to the names of all the restored indexes. This parameter takes effect only when both renameReplacement and renamePattern are set.

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. 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](#).

10.5 Deleting a Snapshot

Function

This API is used to delete a snapshot.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/{snapshot_id}

Table 10-10 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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. 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.

Error Codes

See [Error Codes](#).

10.6 Configuring the Automatic Snapshot Creation Policy

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/policy

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 Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster for which you want to create snapshots automatically.

Request Parameters

Table 10-12 Request body parameters

Parameter	Mandatory	Type	Description
indices	No	String	Name of the index to be backed up. * indicates all indexes.
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.

Parameter	Mandatory	Type	Description
period	Yes	String	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, HH:mm z . In the format, HH:mm refers to the hour time and z refers to the time zone. For example, 00:00 GMT+08:00 and 01:00 GMT+08:00 .
keepday	Yes	Integer	Snapshot retention period. The value ranges from 1 to 90. Expired snapshots will be automatically deleted on the half hour.
enable	Yes	String	Whether to enable the automatic snapshot creation policy. <ul style="list-style-type: none">• true: The automatic snapshot creation policy is enabled.• false: The automatic snapshot creation policy is disabled.
deleteAuto	No	String	Whether to clear all the automatically created snapshots when the automatic snapshot creation policy is disabled. The default value is false , indicating that automatically created snapshots will not be deleted. If this parameter is set to true , 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](#).

10.7 Querying the Automatic Snapshot Creation Policy

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/policy

Table 10-13 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster where snapshots are to be automatically created.

Request Parameters

None

Response Parameters

Status code: 200

Table 10-14 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.
enable	String	Whether to enable the automatic snapshot creation policy. <ul style="list-style-type: none">• true: The automatic snapshot creation policy is enabled.• false: The automatic snapshot creation policy is disabled.

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](#).

10.8 Querying a Snapshot List

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/index_snapshots

Table 10-15 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose snapshots you want to query.

Request Parameters

None

Response Parameters

Status code: 200

Table 10-16 Response body parameters

Parameter	Type	Description
backups	Array of ListSnapshot BackupsResp objects	Snapshot list

Table 10-17 ListSnapshotBackupsResp

Parameter	Type	Description
created	String	Snapshot creation time
datastore	ListSnapshot BackupsData storeResp 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
updated	String	Time when the snapshot was updated. The format is ISO8601: CCYY-MM-DDThh:mm:ss .
backupType	String	Snapshot creation type. The options are as follows: <ul style="list-style-type: none">● 0: Automatic creation.● 1: Manual creation.
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

Parameter	Type	Description
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 10-18 ListSnapshotBackupsDatastoreResp

Parameter	Type	Description
type	String	Engine type. Currently, only Elasticsearch is supported.
version	String	Elasticsearch engine version. For details, see CSS Supported Cluster Versions .

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" : ".kibanawebiste2",  
        "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](#).

10.9 Disabling the Snapshot Function

Function

This API is used to disable the snapshot function.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

DELETE /v1.0/{project_id}/clusters/{cluster_id}/index_snapshots

Table 10-19 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
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](#).

10.10 Enabling Automatic Snapshot Creation

Function

This API is used to enable the automatic snapshot creation function.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v2.0/{project_id}/clusters/{cluster_id}/snapshots/policy/open

Table 10-20 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster that the snapshot belongs to.

Request Parameters

Table 10-21 Request body parameters

Parameter	Mandatory	Type	Description
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 2018-06 will be restored. The value can contain 0 to 1,024 characters. Uppercase letters, spaces, and the following special characters are not allowed: "\< >/?The default value is *, indicating that all indexes are restored.
keepday	Yes	Integer	Number of days that a snapshot is retained. The value range is 1 to 90. Expired snapshots will be automatically deleted on the half hour.
period	Yes	String	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, HH:mm z . In the format, HH:mm refers to the hour time and z refers to the time zone. For example, 00:00 GMT+08:00 and 01:00 GMT+08:00 .
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.

Response Parameters

None

Example Requests

```
POST /v2.0/6204a5bd270343b5885144cf9c8c158d/clusters/ea244205-d641-45d9-9dcb-ab2236bcd07e/  
snapshots/policy/open  
  
{  
    "indices" : "*",  
    "keepday" : 7,  
    "period" : "16:00 GMT+08:00",  
    "prefix" : "snapshot"  
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. 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.

Error Codes

See [Error Codes](#).

10.11 Disabling Automatic Snapshot Creation

Function

This API is used to disable the automatic snapshot creation function.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

```
PUT /v2.0/{project_id}/clusters/{cluster_id}/snapshots/policy/close
```

Table 10-22 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster that the snapshot belongs to.

Request Parameters

None

Response Parameters

None

Example Requests

```
PUT /v2.0/6204a5bd270343b5885144cf9c8c158d/clusters/ea244205-d641-45d9-9dcb-ab2236bcd07e/  
snapshots/policy/close
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. 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.

Error Codes

See [Error Codes](#).

11 VPC Endpoint

- [Enabling the VPC Endpoint Service](#)
- [Disabling the VPC Endpoint Service](#)
- [Obtaining an Endpoint Connection](#)
- [Updating an Endpoint Connection](#)
- [Modifying the Endpoint Service Whitelist](#)

11.1 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 [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/vpcepservice/open

Table 11-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose VPC endpoint you want to enable.

Request Parameters

Table 11-2 Request body parameters

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

Response Parameters

Status code: 200

Table 11-3 Response body parameters

Parameter	Type	Description
action	String	Operations. The fixed value is createVpcepService , 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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

11.2 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 [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

PUT /v1.0/{project_id}/clusters/{cluster_id}/vpcepservice/close

Table 11-4 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose VPC endpoint you want to disable.

Request Parameters

None

Response Parameters

Status code: 200

Table 11-5 Response body parameters

Parameter	Type	Description
action	String	Operations. The fixed value is deleteVpcepService , 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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 an Endpoint Connection

Function

This API is used to obtain a VPC endpoint connection.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/vpcepservice/connections

Table 11-6 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to query.

Table 11-7 Query Parameters

Parameter	Mandatory	Type	Description
start	No	Integer	The start value of the query. The default value is 1, indicating that the query starts from the first task.
limit	No	Integer	Number of task to be queried. The default value is 10, indicating that the information about 10 tasks is queried at a time.

Request Parameters

None

Response Parameters

Status code: 200

Table 11-8 Response body parameters

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

Table 11-9 connections

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

Example Requests

None

Example Responses

Status code: 200

Request succeeded.

```
{  
    "connections": [ {  
        "id": "connectionsID",  
        "status": "accepted",  
        "maxSession": "3000",  
        "specificationName": "default",  
        "domain_id": "domainID"  
    } ]  
}
```

```
        "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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

11.4 Updating an Endpoint Connection

Function

This API is used to update an endpoint connection.

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/vpcepservice/connections

Table 11-10 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose VPC endpoint you want to update.

Request Parameters

Table 11-11 Request body parameters

Parameter	Mandatory	Type	Description
action	Yes	String	Expected operation behavior. <ul style="list-style-type: none"> • receive: The VPC endpoint connection is enabled. • reject: The VPC endpoint connection is disabled.
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.

Status Code	Description
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

11.5 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 [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/vpcepservice/permissions

Table 11-12 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	Cluster ID.

Request Parameters

Table 11-13 Request body parameters

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

Response Parameters

None

Example Requests

```
{  
    "vpcPermissions" : [ "dffef70c1db243ccb373e45791165281" ]  
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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 Parameter Configuration

[Modifying Cluster Parameters](#)

[Obtaining the Task List of Parameter Configurations](#)

[Obtaining the Parameter Configuration List](#)

12.1 Modifying Cluster Parameters

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/ymls/update

Table 12-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster whose parameter settings you want to be modify.

Request Parameters

Table 12-2 Request body parameters

Parameter	Mandatory	Type	Description
edit	Yes	UpdateYmlsReqEdit object	Configuration file information.

Table 12-3 UpdateYmlsReqEdit

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

Table 12-4 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 12-5 Response body parameters

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

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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

12.2 Obtaining the Task List of Parameter Configurations

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/ymls/joblists

Table 12-6 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to query.

Table 12-7 Query Parameters

Parameter	Mandatory	Type	Description
start	No	Integer	The start value of the query. The default value is 1, indicating that the query starts from the first task.
limit	No	Integer	Number of task to be queried. The default value is 10, indicating that the information about 10 tasks is queried at a time.

Request Parameters

None

Response Parameters

Status code: 200

Table 12-8 Response body parameters

Parameter	Type	Description
configList	Array of configListRsp objects	List of historical configuration changes

Table 12-9 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">• true: The operation is successful.• false: The execution failed.
finishedAt	String	End time. If the creation has not been completed, the end time is null . Format: Unix timestamp.
modifyDeleteReset	String	History of parameter setting modifications.
failedMsg	String	Returned error message. If the status is success , the value of this parameter is null .

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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

12.3 Obtaining the Parameter Configuration List

Function

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

Debugging

You can debug this API through automatic authentication in [API Explorer](#) or use the SDK sample code generated by API Explorer.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/ymls/template

Table 12-10 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
cluster_id	Yes	String	ID of the cluster you want to query.

Request Parameters

None

Response Parameters

Status code: 200

Table 12-11 Response body parameters

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

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. Modify the request before retry.
409	The request could not be completed due to a conflict with the current state of the resource. 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](#).

13 Permissions Policies and Supported Actions

This section describes fine-grained permissions management for your CSS. If your Huawei Cloud account does not need individual IAM users, then you may skip over this chapter.

By default, new IAM users do not have any permissions assigned. You need to add a user to one or more groups, and assign permissions policies to these groups. Users inherit permissions from the groups to which they are added and can perform specified operations on cloud services based on the permissions.

You can grant users permissions by using **roles** and **policies**. Roles are a type of coarse-grained authorization mechanism that defines permissions related to user responsibilities. Policies define API-based permissions for operations on specific resources under certain conditions, allowing for more fine-grained, secure access control of cloud resources.

NOTE

Policy-based authorization is useful if you want to allow or deny the access to an API.

An account has all the permissions required to call all APIs, but IAM users must be assigned the required permissions. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions allowing the actions can call the API successfully.

Supported Actions

CSS provides system-defined policies that can be directly used in IAM. CSS administrators can create custom policies and use them to supplement system-defined policies, implementing more refined access control. Actions supported by policies are specific to APIs. The following are common concepts related to policies:

- Permissions: Allow or deny operations on specified resources under specific conditions.
- APIs: REST APIs that can be called by a custom policy.
- Actions: added to a custom policy to control permissions for specific operations.

- Related actions: actions on which a specific action depends to take effect. When assigning permissions for the action to a user, you also need to assign permissions for the dependent actions.
- IAM or enterprise projects: type of projects for which an action will take effect. Policies that contain actions supporting both IAM and enterprise projects can be assigned to user groups and take effect in both IAM and Enterprise Management. Policies that only contain actions supporting IAM projects can be assigned to user groups and only take effect for IAM. For details about the differences between IAM and enterprise projects, see [Differences Between IAM and Enterprise Management](#).

 NOTE

The check mark (/) indicates that an action takes effect. The cross mark (x) indicates that an action does not take effect.

Table 13-1 API actions

Permission	API	Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Creating a cluster	POST /v1.0/{project_id}/clusters	css:cluster:create	/	/
Querying a cluster list	GET /v1.0/{project_id}/clusters	css:cluster:list	/	/
Querying cluster details	GET /v1.0/{project_id}/clusters/{cluster_id}	css:cluster:get	/	/
Deleting a cluster	DELETE /v1.0/{project_id}/clusters/{cluster_id}	css:cluster:delete	/	/
Restarting a cluster	POST /v1.0/{project_id}/clusters/{cluster_id}/restart	css:cluster:restart	/	/
Scaling out a cluster	POST /v1.0/{project_id}/clusters/{cluster_id}/extend	css:cluster:scaleOut	/	/
Adding instances and expanding instance storage capacity	POST /v1.0/{project_id}/clusters/{cluster_id}/role_extend	css:cluster:expand	/	/

Permission	API	Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Querying tags of a specified cluster	GET /v1.0/{project_id}/css-cluster/{cluster_id}/tags	css:tag:get	✓	✓
Loading a custom word dictionary	POST /v1.0/{project_id}/clusters/{cluster_id}/thesaurus	css:IKThesaurus:load	✓	✓
Querying the status of a custom word dictionary	GET /v1.0/{project_id}/clusters/{cluster_id}/thesaurus	css:IKThesaurus:get	✓	✓
Deleting a custom word dictionary	DELETE /v1.0/{project_id}/clusters/{cluster_id}/thesaurus	css:IKThesaurus:delete	✓	✓
Automatically setting basic configurations of a cluster snapshot	POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/auto_setting	css:snapshot:enableAutomaticSnapshot	✓	✓
Modifying basic configurations of a cluster snapshot	POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/setting	css:snapshot:setSnapshotConfiguration	✓	✓
Setting the automatic snapshot creation policy	POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/policy	css:snapshot:setSnapshotPolicy	✓	✓

Permission	API	Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Querying the automatic snapshot creation policy	GET /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/policy	css:snapshot:getSnapshotPolicy	✓	✓
Manually creating a snapshot	POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot	css:snapshot:create	✓	✓
Querying the snapshot list	GET /v1.0/{project_id}/clusters/{cluster_id}/index_snapshots	css:snapshot:list	✓	✓
Restoring a snapshot	POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/{snapshot_id}/restore	css:snapshot:restore	✓	✓
Deleting a snapshot	DELETE /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/{snapshot_id}	css:snapshot:delete	✓	✓
Disabling the snapshot function	DELETE /v1.0/{project_id}/clusters/{cluster_id}/index_snapshots	css:snapshot:disableSnapshotFunction	✓	✓

14 Common Parameters

[Obtaining a Project ID and Name](#)

[Status Code](#)

[Error Codes](#)

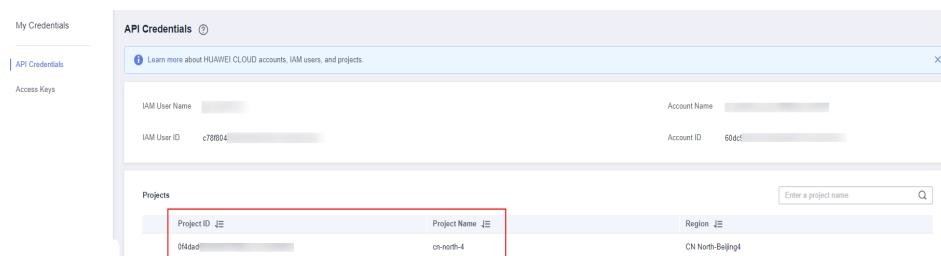
14.1 Obtaining a Project ID and Name

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 **API Credentials** page is displayed.
3. In the project list, view the **Project ID** and **Project Name**.

Figure 14-1 Viewing the project ID and name



Obtaining a Project ID by Calling an API

A project ID can also be obtained by calling a specific API. For details, see [Querying Project Information Based on the Specified Criteria](#).

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"  
    }  
}
```

14.2 Status Code

Table 14-1 describes the status code.

Table 14-1 Status code description

Status Code	Code	Description
100	Continue	The client continues sending the request. 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. 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.

Status Code	Code	Description
204	NoContent	The server has successfully processed the request, but has not returned any content. 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.
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. 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. 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.

Status Code	Code	Description
403	Forbidden	<p>The server understood the request, but is refusing to fulfill it.</p> <p>The client should not repeat the request without modifications.</p>
404	NotFound	<p>The requested resource cannot be found.</p> <p>The client should not repeat the request without modifications.</p>
405	MethodNotAllowed	<p>The method specified in the request is not supported for the requested resource.</p> <p>The client should not repeat the request without modifications.</p>
406	Not Acceptable	<p>The server cannot fulfill the request according to the content characteristics of the request.</p>
407	Proxy Authentication Required	<p>This status code is similar to 401, but indicates that the client must first authenticate itself with the proxy.</p>
408	Request Time-out	<p>The request timed out.</p> <p>The client may repeat the request without modifications at any later time.</p>
409	Conflict	<p>The request could not be processed due to a conflict.</p> <p>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.</p>
410	Gone	<p>The requested resource is no longer available.</p> <p>The status code indicates that the requested resource has been deleted.</p>
411	Length Required	<p>The server refuses to process the request without a defined Content-Length.</p>
412	Precondition Failed	<p>The server does not meet one of the preconditions that the requester puts on the request.</p>
413	Request Entity Too Large	<p>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.</p>

Status Code	Code	Description
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.
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. 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 Timeout parameter is specified in the request.
505	HTTP Version not supported	The server does not support the HTTPS protocol version used in the request.

14.3 Error Codes

If an error code starting with APIGW is returned after you call an API, rectify the fault by referring to the instructions provided in [API Gateway Error Codes](#).

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.0001	Incorrect parameters.	Incorrect parameters.	Change the parameters based on the displayed information.
400	CSS.0006	The request is null. Enter the request parameters.	The request is null. Enter the request parameters.	Enter the request parameters based on the error information.
400	CSS.0017	Invalid parameter letter case.	Invalid parameter letter case.	Set the parameter based on the naming rules.
400	CSS.0021	The account is frozen.	The account is frozen.	Contact technical support.
400	CSS.0026	The log size is too large.	The log size is too large.	Contact technical support.
400	CSS.0036	Internal error.	Internal error.	Try again later or contact technical support.
400	CSS.0047	The cluster does not exist or has been deleted.	The cluster does not exist or has been deleted.	The operation cannot be performed because the cluster does not exist.
400	CSS.0048	The OBS bucket does not exist.	The OBS bucket does not exist.	Check whether the OBS bucket exists or whether the user has the permission to access the bucket.
400	CSS.0050	Invalid cluster administrator password.	Invalid cluster administrator password.	Change the password based on the API reference.
400	CSS.0051	The current policy does not allow the #actionName # operation.	The current policy does not allow the #actionName # operation.	Grant the required permissions to the account.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.0052	Insufficient CPU quota.	Insufficient CPU quota.	Release unused clusters, reduce the number of new CPUs, or increase the quota.
400	CSS.0053	Insufficient resource quota on the node.	Insufficient resource quota on the node.	Release unused clusters, reduce the number of new nodes, or increase the quota.
400	CSS.0054	Insufficient memory quota.	Insufficient memory quota.	Release unused clusters, reduce the memory size, or increase the quota.
400	CSS.0055	Insufficient disk quota.	Insufficient disk quota.	Release unused clusters, reduce the disk size, or increase the quota.
400	CSS.0060	Insufficient disk capacity quota.	Insufficient disk capacity quota.	Release unused resources, reduce the disk capacity, or increase the quota.
400	CSS.0061	Insufficient EIP quota.	Insufficient EIP quota.	Release unused resources or increase the quota.
400	CSS.0062	Insufficient ELB quota.	Insufficient ELB quota.	Release unused resources or increase the quota.
400	CSS.0063	Insufficient VPC endpoint quota.	Insufficient VPC endpoint quota.	Release unused resources or increase the quota.
400	CSS.0064	Insufficient subnet IP address quota.	Insufficient subnet IP address quota.	Release unused resources or increase the quota.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.0065	The disk has been sold out.	The disk has been sold out.	Contact technical support.
400	CSS.0066	Invalid password.	Invalid password.	Change the password based on the API reference.
400	CSS.0068	The flavor has been sold out.	The flavor has been sold out.	Release unused resources.
400	CSS.0069	The disk has been sold out.	The disk has been sold out.	Release resources or increase the quota.
400	CSS.0070	Interconnection with the enterprise project is not supported.	Interconnection with the enterprise project is not supported.	This site does not support enterprise projects.
400	CSS.0071	Invalid bandwidth size.	Invalid bandwidth size.	Change the bandwidth size based on the error information.
400	CSS.0072	Failed to create the SMN agency. Check whether the account has the required permission.	Failed to create the SMN agency. Check whether the account has the required permission.	Grant the required permissions to the account.
400	CSS.0074	The number of data nodes (including cold nodes) must be greater than or equal to three.	The number of data nodes (including cold nodes) must be greater than or equal to three.	Scale out the cluster or cancel the copy verification.
400	CSS.0075	The target flavor is not supported.	The target flavor is not supported.	The target flavor must be smaller than the original one.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.0076	Invalid node role type.	Invalid node role type.	Change the role type based on the API parameter description.
400	CSS.0077	The cluster is being scaled out or scaled in.	The cluster is being scaled out or scaled in.	Perform the operation after the cluster status becomes normal.
400	CSS.0078	The cluster is in a status that does not support upgrade.	The cluster is in a status that does not support upgrade.	Perform the operation after the cluster status becomes normal.
400	CSS.0080	The default agency already exists. Check whether the agency has the required permissions before using it.	The default agency already exists. Check whether the agency has the required permissions before using it.	Check whether the account has the required permissions.
400	CSS.0081	Failed to create the agency. Check whether the account has the permission to create an agency.	Failed to create the agency. Check whether the account has the permission to create an agency.	Grant the required permissions to the account.
400	CSS.0082	The record does not exist.	The record does not exist.	Contact technical support.
400	CSS.0083	Some indexes have not been backed up. Perform full index backup in the snapshot module of the cluster.	Some indexes have not been backed up. Perform full index backup in the snapshot module of the cluster.	Perform full index backup in the snapshot module of the cluster.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.1111	Invalid scale-out parameters.	Invalid scale-out parameters.	Check whether the scale-out parameters are correct.
400	CSS.1119	The Kibana public access already exists.	The Kibana public access already exists.	Do not repeatedly bind an IP address for Kibana public access.
400	CSS.1120	The Kibana public access does not exist.	The Kibana public access does not exist.	Bind an IP address for Kibana public access.
400	CSS.1122	To change the security mode, disable the public access and try again.	To change the security mode, disable the public access and try again.	Disable the public access based on the error information.
400	CSS.1123	To change the security mode, disable the Kibana public access and try again.	To change the security mode, disable the Kibana public access and try again.	Disable the Kibana public access based on the error information.
400	CSS.2026	This is a weak password. Enter a strong password.	This is a weak password. Enter a strong password.	Set a strong password based on the error information.
400	CSS.3011	Invalid retention period.	Invalid retention period.	Check whether the value is an integer in the range 1 to 90.
400	CSS.3016	The backup file is being deleted. Try again later.	The backup file is being deleted. Try again later.	Perform the operation after the backup file is deleted.
400	CSS.3026	The backup file does not exist.	The backup file does not exist.	Internal error. Contact technical support.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.3030	The new instance volume cannot be smaller than the old instance volume.	The new instance volume cannot be smaller than the old instance volume.	Change the parameter values based on the displayed information.
400	CSS.5002	Invalid database type.	Invalid database type.	Currently, only Elasticsearch is supported.
400	CSS.5003	Invalid database version.	Invalid database version.	Elasticsearch and Kibana support the versions 7.6.2 and 7.10.2.
400	CSS.5004	The datastore parameter is not specified.	The datastore parameter is not specified.	Specify the datastore parameter.
400	CSS.5005	The database type or version is not supported.	The database type or version is not supported.	Elasticsearch and Kibana support the versions 7.6.2 and 7.10.2.
400	CSS.5006	Flavor is illegal.	Flavor is illegal.	Change the flavors based on the API parameter description.
400	CSS.5007	The selected flavors do not exist.	The selected flavors do not exist.	Change the flavors based on the API parameter description.
400	CSS.5008	Invalid volume type.	Invalid volume type.	Select a correct volume type.
400	CSS.5009	Invalid volume size.	Invalid volume size.	Enter a valid size.
400	CSS.5011	Invalid AZ.	Invalid AZ.	Select a correct AZ.
400	CSS.5017	Invalid retention period of automated backups.	Invalid retention period of automated backups.	Check whether the retention period of automated backups is set to 1 to 90 days.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5018	Invalid automated backup period.	Invalid automated backup period.	Only the full hour backup is supported. Add the time zone at the end of the time. The format is HH:mm z.
400	CSS.5020	Invalid automated backup start time.	Invalid automated backup start time.	Set a valid backup time based on the API parameter description.
400	CSS.5033	The volume size is not an integer multiple of 10.	The volume size is not an integer multiple of 10.	Check whether the volume size is a multiple of 4 and 10.
400	CSS.5036	Datastore does not exist.	Datastore does not exist.	Currently, only Elasticsearch is supported.
400	CSS.5037	The parameter does not exist.	The parameter does not exist.	Check the parameter value range based on the API reference.
400	CSS.5038	The value of the parameter is out of range.	The value of the parameter is out of range.	Change the parameter values based on the displayed information.
400	CSS.5039	Duplicate parameters.	Duplicate parameters.	Delete duplicate parameters.
400	CSS.5044	Invalid backup prefix.	Invalid backup prefix.	Change the backup prefix based on the API parameter description.
400	CSS.5046	NICS is left blank.	NICS is left blank.	Specify NICS (VPC and subnet information).
400	CSS.5047	Invalid instance quantity.	Invalid instance quantity.	Check the parameter value range based on the API parameter description.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5048	Invalid extended parameters.	Invalid extended parameters.	Internal error. Contact technical support.
400	CSS.5049	Invalid cluster name.	Invalid cluster name.	Change the cluster name.
400	CSS.5050	The cluster name already exists.	The cluster name already exists.	Change the cluster name.
400	CSS.5051	Invalid IP address.	Invalid IP address.	Enter a correct IP address.
400	CSS.5052	Available zone is illegal.	Available zone is illegal.	Select a correct AZ.
400	CSS.5055	Invalid flavor ID.	Invalid flavor ID.	Change the flavor ID based on the API parameter description.
400	CSS.5056	Invalid string length.	Invalid string length.	Check the supported string length based on the displayed information.
400	CSS.5057	The cluster name contains invalid characters or the name length is not allowed.	The cluster name contains invalid characters or the name length is not allowed.	Change the cluster name.
400	CSS.5059	Invalid database username.	Invalid database username.	Currently, only Elasticsearech is supported.
400	CSS.5061	Invalid volume type.	Invalid volume type.	Check whether the volume type is supported based on the API reference.
400	CSS.5063	Invalid value of the Specific parameter.	Invalid value of the Specific parameter.	Internal error. Contact technical support.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5068	Invalid hard disk parameters.	Invalid hard disk parameters.	Contact technical support.
400	CSS.5069	Invalid node quantity.	Invalid node quantity.	Change the number of nodes based on the API parameter description.
400	CSS.5073	Instances of this type cannot be restarted separately.	Instances of this type cannot be restarted separately.	Do not select a type that is not contained in the resource.
400	CSS.5074	Subnet does not belong to VPC	Subnet does not belong to VPC	Check and enter correct subnet parameters.
400	CSS.5077	Invalid cluster name.	Invalid cluster name.	Change the cluster name.
400	CSS.5078	Invalid disk size.	Invalid disk size.	Change the disk size based on the API parameter description.
400	CSS.5087	Inconsistent disk specifications are used for the same type of instances.	Inconsistent disk specifications are used for the same type of instances.	Internal error. Contact technical support.
400	CSS.5088	The SSL is not globally consistent.	The SSL is not globally consistent.	Internal error. Contact technical support.
400	CSS.5090	In this status, the current operation is not allowed.	In this status, the current operation is not allowed.	Rectify the fault based on the error information and then perform the operation again.
400	CSS.5091	The number of nodes has reached the upper limit. Contact the administrator.	The number of nodes has reached the upper limit. Contact the administrator.	Change the number of nodes.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5092	Invalid storage information.	Invalid storage information.	Internal error. Contact technical support.
400	CSS.5093	Invalid node specifications.	Invalid node specifications.	Change the node specifications based on the description about the API used to obtain the instance specifications list.
400	CSS.5094	Invalid node scale-out type.	Invalid node scale-out type.	Check and enter a valid node type.
400	CSS.5095	The current instance type does not support this operation.	The current instance type does not support this operation.	The local disk does not support this operation.
400	CSS.5098	Invalid EIP binding type.	Invalid EIP binding type.	Change the EIP binding type based on the API parameter description.
400	CSS.5106	Invalid instance type.	Invalid instance type.	Enter a correct instance type.
400	CSS.5107	Invalid cluster mode.	Invalid cluster mode.	Internal error. Contact technical support.
400	CSS.5110	Inconsistent parameter groups are used for the same type of instances.	Inconsistent parameter groups are used for the same type of instances.	Internal error. Contact technical support.
400	CSS.5111	The backup file ID does not exist.	The backup file ID does not exist.	Contact technical support.
400	CSS.5130	Invalid agency name.	Invalid agency name.	Perform operations based on the error information.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5134	The total number of master nodes must be an odd number.	The total number of master nodes must be an odd number.	Change the parameters based on the error information.
400	CSS.5135	The disk size must be a multiple of 20.	The disk size must be a multiple of 20.	Change the parameters based on the error information.
400	CSS.5137	Invalid tag key.	Invalid tag key.	Change the parameter based on the error information.
400	CSS.5138	Invalid tag value.	Invalid tag value.	Change the parameter based on the error information.
400	CSS.5140	The cluster does not support this operation.	The cluster does not support this operation.	Perform this operation after the cluster status becomes normal.
400	CSS.5141	Tag not found.	Tag not found.	Check whether the tag in the request body belongs to the cluster.
400	CSS.5158	Only bound public IP addresses can be unbound from clusters.	Only bound public IP addresses can be unbound from clusters.	Check the public access binding status.
400	CSS.5159	Only unbound public IP addresses can be bound to clusters.	Only unbound public IP addresses can be bound to clusters.	Check the public access binding status.
400	CSS.5160	Failed to bind the public IP address. Please try again.	Failed to bind the public IP address. Please try again.	Try again later or contact technical support.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5164	Failed to update the public network access whitelist. Please try again.	Failed to update the public network access whitelist. Please try again.	Try again later or contact technical support.
400	CSS.5167	No data nodes are selected.	No data nodes are selected.	Select at least one data node.
400	CSS.5169	The selected version does not support the security mode.	The selected version does not support the security mode.	For details about how to create a security cluster, see the Cloud Search Service User Guide.
400	CSS.5170	The volume parameter is not required for local disk specifications.	The volume parameter is not required for local disk specifications.	Delete the specified volume based on the error information.
400	CSS.5171	If httpsEnable is set to true, authorityEnable cannot be set to false.	If httpsEnable is set to true, authorityEnable cannot be set to false.	If httpsEnable is set to true, authorityEnable cannot be set to false.
400	CSS.5172	The number of instances must be greater than or equal to the number of AZs.	The number of instances must be greater than or equal to the number of AZs.	Increase the number of instances.
400	CSS.5174	Failed to obtain VPC information. Try again later.	Failed to obtain VPC information. Try again later.	Check whether the VPC exists and the network is available.
400	CSS.5177	The https enable parameter is not specified.	The https enable parameter is not specified.	Specify the httpsEnable parameter (mandatory).

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5178	Invalid time zone.	Invalid time zone.	Change the time zone format based on the API parameter description.
400	CSS.5180	Kibana public access is not enabled.	Kibana public access is not enabled.	Enable Kibana public access.
400	CSS.5181	The whitelist does not exist.	The whitelist does not exist.	The current whitelist is empty. Add IP addresses to the whitelist and then perform related operations.
400	CSS.5182	The VPC endpoint service is not enabled.	The VPC endpoint service is not enabled.	Enable the VPC endpoint service and then perform related operations.
400	CSS.5300	This operation is not allowed for yearly/monthly clusters.	This operation is not allowed for yearly/monthly clusters.	This operation is not supported.
400	CSS.5301	This operation is not allowed because the cluster has been frozen.	This operation is not allowed because the cluster has been frozen.	If the account is frozen due to arrears, renew the account. Otherwise, contact technical support.
400	CSS.5302	Invalid subscription period type.	Invalid subscription period type.	Modify the subscription period type based on the API parameter description.
400	CSS.5303	Invalid subscription period.	Invalid subscription period.	Modify the subscription period based on the API parameter description.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5304	Invalid auto-renewal parameter.	Invalid auto-renewal parameter.	Modify the renewal parameters based on the API parameter description.
400	CSS.5305	Invalid automated payment parameters.	Invalid automated payment parameters.	Modify the automated payment parameters based on the API parameter description.
400	CSS.5306	An unpaid order exists.	An unpaid order exists.	Pay for or cancel the order.
400	CSS.5307	An order is being processed.	An order is being processed.	Wait until the order is processed.
400	CSS.5308	The bandwidth exceeds the limit.	The bandwidth exceeds the limit.	Reduce the bandwidth.
400	CSS.5310	If httpsEnable is set to false, public network access cannot be enabled. If authorityEnable is set to false, Kibana public network access cannot be enabled.	If httpsEnable is set to false, public network access cannot be enabled. If authorityEnable is set to false, Kibana public network access cannot be enabled.	Enable the related functions based on the error information.
400	CSS.5312	Nodes and disks cannot be scaled out at the same time in a cluster billed in yearly/monthly mode.	Nodes and disks cannot be scaled out at the same time in a cluster billed in yearly/monthly mode.	The operation is not supported.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5313	Insufficient permissions on the VPC endpoint. Check whether the user has the VPC endpoint administrator role.	Insufficient permissions on the VPC endpoint. Check whether the user has the VPC endpoint administrator role.	Check whether the user has the required permissions based on the error information.
400	CSS.6000	Failed to create the cluster. Contact technical support or try again later.	Failed to create the cluster. Contact technical support or try again later.	Try again later. If the fault persists, contact technical support.
400	CSS.6001	Failed to scale out the cluster. Contact technical support or try again later.	Failed to scale out the cluster. Contact technical support or try again later.	Try again later. If the fault persists, contact technical support.
400	CSS.6003	Failed to restore the cluster. Contact technical support or try again later.	Failed to restore the cluster. Contact technical support or try again later.	Try again later. If the fault persists, contact technical support.
400	CSS.6004	Failed to create the node due to an ECS exception. Contact technical support or try again later. Error code: #failedReason #.	Failed to create the node due to an ECS exception. Contact technical support or try again later. Error code: #failedReason #.	Try again later. If the fault persists, contact technical support.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.6009	Failed to create the snapshot. Contact technical support or try again later.	Failed to create the snapshot. Contact technical support or try again later.	Try again later. If the fault persists, contact technical support.
400	CSS.6012	Failed to restore the snapshot because the OBS object does not exist or has been deleted.	Failed to restore the snapshot because the OBS object does not exist or has been deleted.	Check whether the OBS bucket exists.
400	CSS.6013	Parameters cannot be modified because another operation is being performed on the cluster.	Parameters cannot be modified because another operation is being performed on the cluster.	Ensure that the cluster is available before modifying parameters.
400	CSS.6014	Unchangeable parameters are contained.	Unchangeable parameters are contained.	Delete the unchangeable parameters if any and try again.
400	CSS.6015	Parameters are not in the YAML format.	Parameters are not in the YAML format.	Modify the parameter format and try again.
403	CSS.0010	The instance ID or user ID may be null, or the operation is not authorized.	The instance ID or user ID may be null, or the operation is not authorized.	Check the account permission.
403	CSS.0015	No resources are found or the access is denied.	No resources are found or the access is denied.	Insufficient permission. Add the required permission and try again.

Status Code	Error Codes	Error Message	Description	Solution
403	CSS.5045	The current tenant is not allowed to perform this operation.	The current tenant is not allowed to perform this operation.	Check whether the tenant is frozen or has required permissions.
404	CSS.0002	The instance does not exist.	The instance does not exist.	Check whether the permission and resource exist.
404	CSS.0007	The VM information of the DB instance cannot be found.	The VM information of the DB instance cannot be found.	Try again later or contact technical support.
404	CSS.0016	Resource not found.	Resource not found.	Check whether the resource exists based on the displayed information.
404	CSS.0022	The instance does not exist or has been deleted.	The instance does not exist or has been deleted.	Check whether the resource exists.
404	CSS.0028	The object does not exist.	The object does not exist.	Check whether the current resource exists based on the displayed information.
404	CSS.1103	The instance does not exist!	The instance does not exist!	Check whether the cluster exists.
404	CSS.3027	The cluster does not exist!	The cluster does not exist!	The cluster does not exist. No operations are supported.
404	CSS.5012	The region or AZ does not exist.	The region or AZ does not exist.	Select a correct region or AZ.

Status Code	Error Codes	Error Message	Description	Solution
404	CSS.5021	The VPC does not exist or does not belong to the user.	The VPC does not exist or does not belong to the user.	Check whether the VPC exists and belongs to the user.
404	CSS.5022	The subnet does not exist or does not belong to the VPC.	The subnet does not exist or does not belong to the VPC.	Check and enter a subnet that belongs to the VPC.
404	CSS.5023	The security group does not exist or does not belong to the VPC.	The security group does not exist or does not belong to the VPC.	Check and enter a security group that belongs to the VPC.
404	CSS.5042	The source instance does not exist.	The source instance does not exist.	The request body contains an instance that does not exist in the cluster.
409	CSS.0011	This operation cannot be performed because another operation is being performed on the cluster.	This operation cannot be performed because another operation is being performed on the cluster.	Operation conflict. Perform the operation after the cluster status is restored.
409	CSS.0012	Operation is not allowed because the cluster has a standby instance.	Operation is not allowed because the cluster has a standby instance.	Perform the operation after the cluster backup is complete.
409	CSS.0029	The object is being created. Please wait.	The object is being created. Please wait.	The cluster or snapshot is being created. Do not perform other operations.
409	CSS.0031	The object already exists.	The object already exists.	Change the object name.

Status Code	Error Codes	Error Message	Description	Solution
409	CSS.0043	The snapshot name already exists.	The snapshot name already exists.	Change the snapshot name.
409	CSS.1102	The instance name already exists.	The instance name already exists.	Change the instance name.
409	CSS.3004	Backup is in progress.	Backup is in progress.	Perform the operation after the backup succeeded.
413	CSS.0030	The number of snapshots reaches the quota.	The number of snapshots reaches the quota.	Release the resources that do not need to be backed up.
413	CSS.1112	The number of DB instances has reached the quota.	The number of DB instances has reached the quota.	Contact technical support.
415	CSS.0004	Invalid operation.	Invalid operation.	Change the parameter based on the error information.
415	CSS.5108	The operation is not supported.	The operation is not supported.	The operation is not supported.
419	CSS.0023	Insufficient resource.	Insufficient resource.	Contact technical support.
422	CSS.0040	The parameter cannot be processed.	The parameter cannot be processed.	Try again later or contact technical support.
500	CSS.0005	Server error.	Server error.	Internal error. Contact technical support.
500	CSS.1004	Database service error.	Database service error.	Try again later or contact technical support.

Status Code	Error Codes	Error Message	Description	Solution
500	CSS.9999	Failed to process the request.	Failed to process the request.	Check whether the request path and request body are correct based on the displayed information.
202	CSS.0011	This operation cannot be performed because another operation is being performed on the instance or the instance is faulty. Please try again later.	This operation cannot be performed because another operation is being performed on the instance or the instance is faulty. Please try again later.	Try again later.
400	CSS.0001	The parameter is incorrect.	The parameter is incorrect.	Check the parameter settings according to the returned information.
400	CSS.0006	The request body is empty. Enter a request parameter.	The request body is empty. Enter a request parameter.	Enter the request parameters.
400	CSS.1112	The number of instances has reached the quota.	The number of instances has reached the quota.	Delete some clusters or increase the quota.
400	CSS.3011	Invalid retention duration of the backup.	Invalid retention duration of the backup.	Change the allowed retention duration.
400	CSS.5007	The selected flavor does not exist.	The selected flavor does not exist.	Check whether the specifications are correct.
400	CSS.5009	The hard disk size is beyond the valid range.	The hard disk size is beyond the valid range.	Change the disk size.

Status Code	Error Codes	Error Message	Description	Solution
400	CSS.5021	The VPC does not exist or does not belong to the user.	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.	The security group does not exist or does not belong to the VPC.	Check whether the security group is correct.
400	CSS.5036	The engine does not exist.	The engine does not exist.	Check whether the datastore parameter setting is correct.
400	CSS.5047	The number of instances is beyond the valid range.	The number of instances is beyond the valid range.	Check whether the number of instances is within the range.
400	CSS.5052	Invalid value of the AZ.	Invalid value of the AZ.	Change the AZ.
400	CSS.5055	Invalid flavor.	Invalid flavor.	Modify the specifications.
400	CSS.5061	The hard disk type is invalid.	The hard disk type is invalid.	Change the hard disk type.
400	CSS.5074	The subnet does not belong to the VPC.	The subnet does not belong to the VPC.	Change the subnet ID.
400	CSS.5077	Invalid cluster name.	Invalid cluster name.	Change the cluster name.
400	CSS.5078	The hard disk size is beyond the valid range.	The hard disk size is beyond the valid range.	Change the disk size.
400	CSS.5092	Invalid hard disk information.	Invalid hard disk information.	Modify the hard disk information.
400	CSS.5093	Invalid specification information.	Invalid specification information.	Modify the specification information.

Status Code	Error Codes	Error Message	Description	Solution
403	CSS.0015	Resource not found or permission denied.	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.	The instance does not exist or has been deleted.	Change the instance ID.
404	CSS.3027	The cluster does not exist.	The cluster does not exist.	Check whether the cluster ID is correct.
409	CSS.5050	The cluster name already exists.	The cluster name already exists.	Change the cluster name.
412	CSS.5130	The agency name is invalid.	The agency name is invalid.	Change the agency name.
500	CSS.0005	Server error.	Server error.	Contact customer service.
500	CSS.9999	Request processing failed.	Request processing failed.	Contact customer service.
NA	CSS.6000	Failed to create the cluster.	Failed to create the cluster.	Contact customer service or try again later.
NA	CSS.6001	Failed to expand the cluster.	Failed to expand the cluster.	Contact customer service or try again later.
NA	CSS.6003	Failed to restore the cluster.	Failed to restore the cluster.	Contact customer service or try again later.
NA	CSS.6004	Failed to create the node.	Failed to create the node.	Contact customer service or try again later.
NA	CSS.6009	Failed to create the snapshot.	Failed to create the snapshot.	Contact customer service or try again later.

Status Code	Error Codes	Error Message	Description	Solution
NA	CSS.6012	Failed to restore the snapshot because the OBS object does not exist or has been deleted.	Failed to restore the snapshot because the OBS object does not exist or has been deleted.	Check whether the OBS bucket exists.
NA	CSS.6013	Failed to modify parameters because other operations are being performed on the cluster.	Failed to modify parameters because other operations are being performed on the cluster.	You are advised to modify parameters only when the cluster is available.
NA	CSS.6014	The set parameters contain parameters that cannot be modified.	The set parameters contain parameters that cannot be modified.	You are advised to check whether the submitted parameter modification request contains unmodifiable parameter values, delete the parameter values, and try again.
NA	CSS.6015	The parameter does not comply with the YAML format.	The parameter does not comply with the YAML format.	You are advised to modify the parameter format and try again.

15 Change History

Released On	Change History
2023-04-27	Updated Error Codes.
2023-04-14	<ul style="list-style-type: none">● Added:<ul style="list-style-type: none">– Changing the Cluster Billing Mode● Updated request parameters in:<ul style="list-style-type: none">– Creating a Cluster– Creating a Cluster (V2)– Kibana Public Network Access APIs– Enabling Public Network Access– Scaling Out a Cluster– Adding Instances and Expanding Instance Storage Capacity
2023-02-16	Added Changing the Security Group
2023-01-18	<ul style="list-style-type: none">● Optimized the parameter description in:<ul style="list-style-type: none">– Enabling the Log Function– Modifying Basic Log Configurations– Restoring a Snapshot● Added the API Explorer debugging link.
2022-12-29	Optimized response parameters in: <ul style="list-style-type: none">● Querying Cluster Details● Querying the List of Clusters
2022-12-16	<ul style="list-style-type: none">● Optimized the request parameter names in Creating a Cluster and Creating a Cluster (V2).

Released On	Change History
2022-12-02	Optimized: <ul style="list-style-type: none">● Replacing a Node● Modifying the Security Mode● Adding Master and Client Nodes● Enabling the VPC Endpoint Service● Creating a Cluster (V2)
2022-09-14	Optimized: <ul style="list-style-type: none">● Creating a Cluster● Disabling Kibana Public Access● Querying Cluster Details● Creating a Cluster (V2) Added: <ul style="list-style-type: none">● Replacing a Node● Modifying the Security Mode● Adding Master and Client Nodes
2022-08-17	Optimized: <ul style="list-style-type: none">● Querying the List of Clusters● Querying Cluster Details● Changing the Specifications of a Specified Node Type● Enabling Kibana Public Access● Enabling Public Network Access● Obtaining the Task List of Parameter Configurations
2022-07-20	Added cluster version 7.10.2 and brought cluster version 7.9.3 offline in Supported Cluster Versions .
2022-07-05	Added: <ul style="list-style-type: none">● Kibana Public Network Access APIs● Log Management APIs● Public Network Access APIs● VPC Endpoint APIs● Parameter Configuration APIs
2022-06-22	Updated: Authentication

Released On	Change History
2022-05-24	<ul style="list-style-type: none">● Updated:<ul style="list-style-type: none">– Supported Cluster Versions– Calling APIs– Getting Started– Obtaining a Project ID and Name
2022-05-14	Modified the API response parameters in Scaling Out a Cluster .
2021-05-17	Deleted the Poisson Analyzer APIs.
2021-01-30	Added cluster version 7.9.3 in Supported Cluster Versions .
2020-08-25	Added: Permissions Policies and Supported Actions
2020-08-05	Added security mode in Creating a Cluster .
2019-09-04	Added tag management APIs.
2019-04-15	This issue is the first official release.