Cloud Search Service(CSS)
1.1.8

API Reference

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1 Before You Start

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.

1.2 API Calling

CSS provides Representational State Transfer (REST) APIs.

You can call the APIs using HTTPS. For details, see **Calling APIs**.

1.3 Endpoints

An endpoint is the **request address** for calling an API.

Endpoints vary depending on services and regions. Obtain them from the administrator.

1.4 Restrictions and Limitations

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

1.5 Concepts

- Account

    An account is created upon successful registration with the cloud system. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used directly to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.

- User

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

    The account name, username, and password will be required for API authentication.

- 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

    A project corresponds to a region. Default projects are defined to group and physically isolate resources (including compute, storage, and network resources) across regions. Users can be granted permissions in a default project to access all resources under their accounts in the region associated with the project. If you need more refined access control, create sub-projects under a default project and purchase resources in sub-projects. Then you can assign users the permissions required to access only the resources in the specific sub-projects.

Figure 1-1 Project isolation model
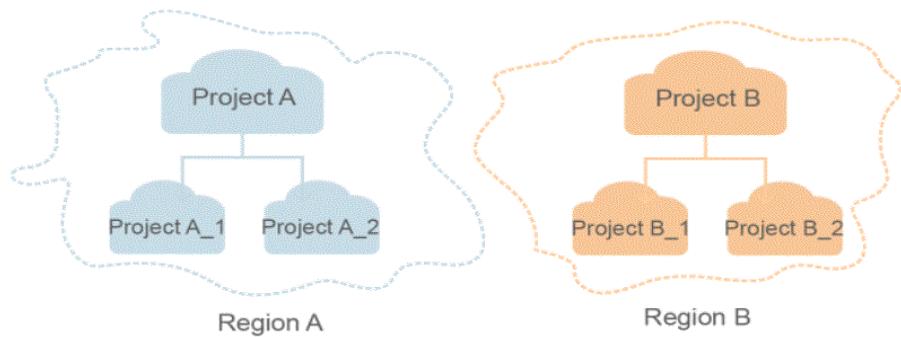
- Checkpoint: When an application consumes data, the latest SN of the consumed data is recorded as a checkpoint. When the data is consumed again, the consumption can be continued based on this checkpoint.
- APP: Multiple applications can access data in the same stream. Checkpoints generated for each application are used to record the consumed data in the stream by each application.

1.6 Supported Cluster Versions

In CSS, Elasticsearch 7.10.2 is supported.

Kibana 7.10.2 is supported.

2 API Overview

CSS APIs comply with RESTful API design specifications. You can use the functions listed in **Table 2-1** by 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	These APIs are used to load, query, and delete OBS custom word dictionaries.
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	These APIs are used to create, restore, or delete snapshots. Snapshots are a convenient way to back up and restore data.
Parameter configuration APIs	These APIs can be used to modify the parameter configurations of a cluster.
Intelligent O&M APIs	These APIs are used to create, delete, and obtain intelligent O&M and detection tasks.

3 Calling APIs

3.1 Making an API Request

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

Request URI

A request URI is in the following format:

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

Table 3-1 Request URL

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use **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 **/v3/auth/tokens**.
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, **limit=10** indicates that a maximum of 10 pieces of data is to be viewed.

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

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

📖 **NOTE**

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

Request Methods

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

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

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

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

Request Header

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

Table 3-2 lists common request header fields.

Table 3-2 Common request headers

Parameter	Mandatory	Description
Content-Type	Yes	Message body type (or format). You are advised to use the default value **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.

Parameter	Mandatory	Description
X-Language	No	Request language

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

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

Request Body

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

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

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

 NOTE

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

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

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

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

3.2 Authentication

CSS supports token authentication.

Authentication Using Tokens

📖 NOTE

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

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

The API for obtaining a token is **POST https://{*IAM endpoint*}/v3/auth/tokens**. For details about how to obtain IAM endpoints, see **Endpoints**.

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

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

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

3.3 Returned Values

Status Code

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

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

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

Response Header

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

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

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

```
connection →  keep-alive

content-type →  application/json

date →  Tue, 12 Feb 2019 06:52:13 GMT

server →  Web Server

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

transfer-encoding →  chunked

via →  proxy A

x-content-type-options →  nosniff

x-download-options →  noopen

x-frame-options →  SAMEORIGIN

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

x-subject-token
→  MIIYXQYJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJc19hdCI6IjIwMTktMDItMTNUMD
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgkIqO1wi4JIGzrpd18LGXK5txIdfq4lqHCYb8P4NaY0NYejcAgzJVeFIYtLWT1GSO0zxKZmIQHQj82HBqHdglZO9fuEbL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSEB7bUG[blurred]oX-
RzT6MUbpvGw SPN YOJLCKhoHSHRoZv0vN  Ti5d0Nbxg=-

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

```
{
    "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
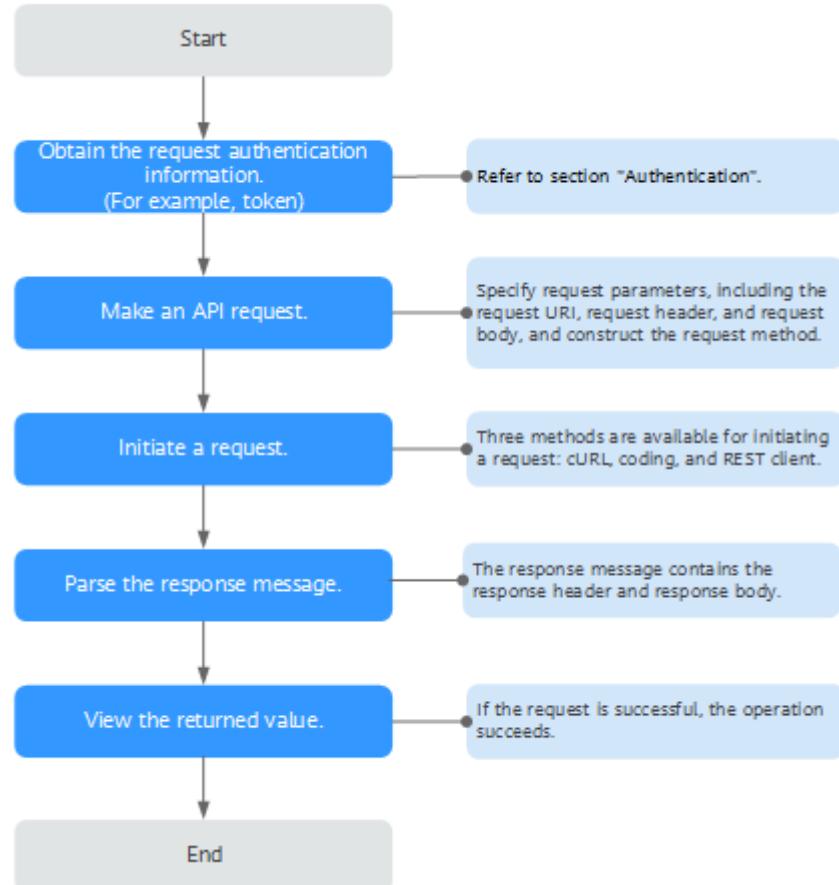
 NOTE

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**: 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": {
                "vpcId": "fccd753c-91c3-40e2-852f-5ddf76d1a1b2",
                "netId": "af1c65ae-c494-4e24-acd8-81d6b355c9f1",
                "securityGroupId": "7e3fed21-1a44-4101-ab29-34e57124f614"
            }
        },
        "httpsEnable": "false",
    }
}
```

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

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

If the request is successful, 200 OK is returned.

If the request fails, an error code and error information are returned. For details, see section **Status Code**.

5 Cluster Management

5.1 Creating a Cluster

Function

This API is used to create a cluster.

Calling Method

For details, see **Calling APIs**.

URI

POST /v1.0/{project_id}/clusters

Table 5-1 URI parameters

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

Request Parameters

Table 5-2 Request body parameters

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

Table 5-3 CreateClusterBody

Parameter	Mandatory	Type	Description
instance	Yes	**CreateCluster InstanceBody** object	Instance.
datastore	Yes	**CreateCluster DatastoreBo dy** object	Search engine type.
name	Yes	String	Cluster name. It contains 4 to 32 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. The value must start with a letter.
instanceNum	Yes	Integer	Number of cluster instances. The value range is 1 to 32.
backupStrate gy	No	**CreateCluster BackupStrate gyBody** object	Whether to enable automatic snapshot creation. The default setting is disable. An automatic snapshot creation policy can be 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. When **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. **NOTE** This parameter is supported in clusters 6.5.4 or later.

Parameter	Mandatory	Type	Description
authorityEnable	No	Boolean	Whether to enable authentication. The value can be **true** or **false**. Authentication is disabled by default. ● **true**: authentication is enabled for the cluster. ● **false**: authentication is disabled for the cluster. **NOTE** 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 available only when **authorityEnable** was set to **true** during cluster creation.
			
			● The administrator password must meet the following requirements:
			
			  – The password can contain 8 to 32 characters.
			
			  – Passwords must contain at least 3 of the following character types: uppercase letters, lowercase letters, numbers, 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 **CreateCluster TagsBody** objects	Cluster tags.

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	**CreateCluster InstanceVolu meBody** object	Volume information.
nics	Yes	**CreateCluster InstanceNics Body** object	Subnet ID.

Parameter	Mandatory	Type	Description
availability_zone	Yes	String	Availability zone (AZ). You need to specify the AZ name.
			By default, a single AZ is specified. If multiple AZs are specified, use commas (,) to separate them. For example, if three AZs are selected in the CN North-Beijing4 region, the value of availability_zone is cn-north-4a,cn-north-4b,cn-north-4c. If a single AZ is used, the value of availability_zone is empty by default.
			NOTE Note
			- If multiple AZs are selected, the name of each AZ must be unique, and 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. ● **COMMON**: common I/O ● **HIGH**: high I/O ● **ULTRAHIGH**: ultra-high I/O ● **ESSD**: ultra-fast SSD
size	Yes	Integer	Volume size. The value must be greater than 0 and must be a multiple of 4 and 10. For details about the 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).
securityGroup Id	Yes	String	Security group ID.

Table 5-7 CreateClusterDatastoreBody

Parameter	Mandatory	Type	Description
version	Yes	String	Elasticsearch engine version. For details, see **Supported Cluster Versions**.
type	Yes	String	Engine type. The value can be elasticsearch.

Table 5-8 CreateClusterBackupStrategyBody

Parameter	Mandatory	Type	Description
period	Yes	String	Time when a snapshot is generated every day. Snapshots can only be generated on the hour. The format is **HH:mm z**: **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**. NOTE The default value is 00:00 GMT +08:00. When frequency is set to HOUR, you do not need to specify period. By default, snapshot creation starts from the next hour after the settings are successful.

Parameter	Mandatory	Type	Description
prefix	Yes	String	Prefix of automatically generated snapshots. It is manually configured. Enter up to 32 characters and start with a lowercase letter. Lowercase letters, numbers, hyphens (-), and underscores (_) are allowed.
keepday	Yes	Integer	Number of snapshots that can be retained. The value ranges from 1 to 90. Expired snapshots will be automatically deleted on the half hour. The deletion policy applies only to automated snapshots that are executed at the same frequency as the current automatic snapshot creation policy.
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	Agency name. You can create an agency to allow CSS to call other cloud services. **NOTE** 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.

Parameter	Mandatory	Type	Description
frequency	No	String	Frequency of automatically creating snapshots. **NOTE** The default value is DAY. If this parameter is set to HOUR, the scheduled task is executed every hour. If this parameter is set to DAY, the scheduled task is executed every day. If this parameter is set to SUN, MON, TUE, WED, THU, FRI or SAT, the scheduled task is executed at the specified day of every week. For example, SUN indicates that the task is executed once every Sunday. The number of retained snapshots depends on the execution frequency and indexes set in the automatic snapshot creation policy. If the execution interval is short or the index data volume is large, the number of retained automatic snapshots may not reach the preset value. Set this value based on actual conditions.

Table 5-9 CreateClusterTagsBody

Parameter	Mandatory	Type	Description
key	Yes	String	Tag key. The value can contain 1 to 36 characters. Only digits, letters, hyphens (-), and underscores (_) are allowed.
value	Yes	String	Tag value. The value can contain 1 to 36 characters. Only digits, letters, hyphens (-), and underscores (_) are allowed.

Response Parameters

Status code: **200**

Table 5-10 Response body parameter

Parameter	Type	Description
cluster	**CreateCluster ClusterRespo nse** object	Cluster. For a pay-per-use cluster, only the **cluster** parameter is returned.

Table 5-11 CreateClusterClusterResponse

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

Example Requests

- Example request for creating a pay-per-use cluster.
  POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters

```
{
 "cluster" : {
   "instance" : {
    "flavorRef" : "ess.spec-4u16g",
    "volume" : {
      "volume_type" : "COMMON",
      "size" : 120
    },
    "nics" : {
      "vpcId" : "{VPC ID}",
      "netId" : "{NET ID}",
      "securityGroupId" : "{Security group ID}"
    },
    "availability_zone" : "{AZ CODE}"
   },
   "datastore" : {
    "version" : "{cluster-version}",
    "type" : "elasticsearch"
   },
   "name" : "cluster-name",
   "instanceNum" : 3,
   "backupStrategy" : {
    "period" : "16:00 GMT+08:00",
    "prefix" : "snapshot",
    "keepday" : 7,
    "frequency" : "DAY",
    "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"
```

```
  }]
 }
}
```

Example Responses

Status code: 200

Request succeeded.

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

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

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. 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 does not meet one of the preconditions that the requester puts on 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.

Calling Method

For details, see **Calling APIs**.

URI

GET /v1.0/{project_id}/clusters

Table 5-12 URI parameters

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

Table 5-13 Query parameters

Parameter	Mandatory	Type	Description
start	No	Integer	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 10 clusters are queried at a time.
datastoreType	No	String	Cluster engine type.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-14 Response body parameters

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

Table 5-15 ClusterList

Parameter	Type	Description
datastore	**ClusterListDatastore** object	Search engine type.

Parameter	Type	Description
instances	Array of **ClusterListInstances** objects	List of node objects.
publicKibanaResp	**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.
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. ● **100**: Creating. ● **200**: Available. ● **303**: The cluster is unavailable, for example, due to a creation failure.
endpoint	String	IPv4 address and port number accessible from the cluster's private network.
vpcId	String	VPC ID.
subnetId	String	Subnet ID.
securityGroupId	String	Security group ID.
bandwidthSize	Integer	Public network bandwidth. Unit: Mbit/s
httpsEnable	Boolean	Communication encryption status. ● **false**: Communication encryption is disabled. ● **true**: Communication encryption is enabled.

Parameter	Type	Description
authorityEnable	Boolean	Whether to enable authentication. ● **true**: Authentication is enabled for the cluster. ● **false**: Authentication is disabled for the cluster.
diskEncrypted	Boolean	Whether disks are encrypted. ● **true**: Disks are encrypted. ● **false**: Disks are not encrypted.
backupAvailable	Boolean	Whether the snapshot function is enabled. ● **true**: The snapshot function is enabled. ● **false**: The snapshot function is disabled.
actionProgress	Object	Cluster operation progress, which shows the progress of cluster creation or scale-out 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. 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 tags.
failedReason	**ClusterListFailedReasons** object	Failure cause. If the cluster is in the **Available** state, this parameter is not returned.
bandwidthResourceId	String	ID of the resource accessed from the ES public network.

Table 5-16 ClusterListDatastore

Parameter	Type	Description
type	String	Engine type. The value can be **elasticsearch**.

Parameter	Type	Description
version	String	Version of the CSS cluster engine. For details, see **Supported Cluster Versions**.
supportSecuritymode	Boolean	Whether the security mode is supported.

Table 5-17 ClusterListInstances

Parameter	Type	Description
status	String	Node status. ● **100**: Creating. ● **200**: Available. ● **303**: The cluster is unavailable, for example, due to a creation failure.
type	String	Node type.
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	Instance disk information.
resourceId	String	Instance resource ID.

Table 5-18 ClusterVolumeRsp

Parameter	Type	Description
type	String	Instance disk type.
size	Integer	Instance disk size.
resourceIds	Array of strings	Instance disk resource ID.

Table 5-19 publicKibanaRespBody

Parameter	Type	Description
eipSize	Integer	Bandwidth size. Unit: Mbit/s.
elbWhiteListResp	**kibanaElbWhiteListResp** object	Kibana public network access information.
publicKibanaIp	String	IP address for accessing Kibana.
bandwidthResourceId	String	Resource ID corresponding to the Kibana public network.

Table 5-20 kibanaElbWhiteListResp

Parameter	Type	Description
enableWhiteList	Boolean	Whether Kibana access control is enabled. ● **true**: Access control is enabled. ● **false**: Access control is disabled.
whiteList	String	Whitelist for Kibana public network access.

Table 5-21 elbWhiteListResp

Parameter	Type	Description
enableWhiteList	Boolean	Whether public network access control is enabled. ● **true**: Public network access control is enabled. ● **false**: Public network access control is disabled.
whiteList	String	Whitelist for public network access.

Table 5-22 ClusterListTags

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

Table 5-23 ClusterListFailedReasons

Parameter	Type	Description
errorCode	String	Error code. • **CSS.6000**: A cluster failed to be created. • **CSS.6001**: A cluster failed to be scaled out. • **CSS.6002**: A cluster failed to be restarted. • **CSS.6004**: A node failed to be created in a cluster. • **CSS.6005**: A service failed 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" : 1,
  "clusters" : [ {
    "datastore" : {
      "type" : "elasticsearch",
      "version" : "7.10.2",
      "supportSecuritymode" : false
    },
    "instances" : [ {
      "status" : "200",
      "type" : "ess",
      "id" : "{INSTANCE_ID}",
      "name" : "css-8bc5-ess-esn-1-1",
      "specCode" : "ess.spec-4u8g",
      "azCode" : "{AZ_CODE}",
      "volume" : {
        "type" : "ULTRAHIGH",
        "size" : 40,
        "resourceIds" : [ "{RESOURCE_ID}" ]
      },
      "ip" : "192.168.0.122",
      "resourceId" : "{RESOURCE_ID}"
    } ],
    "publicKibanaResp" : {
      "eipSize" : 10,
      "publicKibanaIp" : "100.95.152.28:9200",
      "elbWhiteListResp" : null,
      "bandwidthResourceId" : "18bec13f-5cc1-4631-867f-33505d15be12"
    },
```

```
    "elbWhiteList" : {
      "whiteList" : "",
      "enableWhiteList" : false
    },
    "updated" : "2023-10-09T02:07:13",
    "name" : "css-8bc5",
    "publicIp" : "100.85.222.202",
    "created" : "2023-10-09T02:07:13",
    "id" : "{CLUSTER_ID}",
    "status" : "200",
    "vpcId" : "{VPC_ID}",
    "subnetId" : "{SUBNET_ID}",
    "securityGroupId" : "{SECURITY_GROUP_ID}",
    "bandwidthResourceId" : "{BANDWIDTH_RESOURCE_ID}",
    "bandwidthSize" : 3,
    "httpsEnable" : true,
    "authorityEnable" : true,
    "diskEncrypted" : false,
    "backupAvailable" : false,
    "actionProgress" : { },
    "actions" : [ ],
    "enterpriseProjectId" : "0",
    "tags" : [ ]
    } ]
}
```

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**.

5.3 Querying Cluster Details

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

Table 5-24 URI parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see **Obtaining a Project ID and Name**.
cluster_id	Yes	String	ID of the cluster to be queried.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-25 Response body parameters

Parameter	Type	Description
datastore	**ClusterDetail Datastore** object	Search engine type.
instances	Array of **ClusterDetail Instances** objects	List of node objects.
publicKibanaResp	**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 and port number.
created	String	Cluster creation time. The format is **ISO8601: CCYY-MM-DDThh:mm:ss**.
id	String	Cluster ID.

Parameter	Type	Description
status	String	Cluster status. ● **100**: The operation, such as instance creation, is in progress. ● **200**: The cluster is available. ● **303**: The cluster is unavailable, for example, due to a creation failure.
endpoint	String	IPv4 address and port number accessible from the cluster's private network.
vpcId	String	VPC ID.
subnetId	String	Subnet ID.
securityGroupId	String	Security group ID.
bandwidthSize	Integer	Public network bandwidth. Unit: Mbit/s.
httpsEnable	Boolean	Communication encryption status. ● **false**: Communication encryption is disabled. ● **true**: Communication encryption is enabled.
diskEncrypted	Boolean	Whether disks are encrypted. ● **true**: Disks are encrypted. ● **false**: Disks are not encrypted.
authorityEnable	Boolean	Whether to enable authentication. The value can be **true** or **false**. Authentication is disabled by default. ● **true**: Authentication is enabled for the cluster. ● **false**: Authentication is disabled for the cluster.
backupAvailable	Boolean	Whether the snapshot function is enabled. ● **true**: The snapshot function is enabled. ● **false**: The snapshot function is disabled.
actionProgress	Object	Cluster operation progress, which shows the progress of cluster creation or scale-out in percentage.

Parameter	Type	Description
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. 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 tags.
failedReason	**ClusterDetailFailedReasons** object	Failure cause. If the cluster is in the **Available** state, this parameter is not returned.
bandwidthResourceId	String	ID of the resource accessible from the public network.

Table 5-26 ClusterDetailDatastore

Parameter	Type	Description
type	String	Engine type. The value can be **elasticsearch**.
version	String	Version of the CSS cluster engine. For details, see **Supported Cluster Versions**.
supportSecuritymode	Boolean	The security mode is supported.

Table 5-27 ClusterDetailInstances

Parameter	Type	Description
status	String	Node status. ● **100**: The operation, such as instance creation, is in progress. ● **200**: The cluster is available. ● **303**: The cluster is unavailable, for example, due to a creation failure.
resourceId	String	Instance resource ID.

Parameter	Type	Description
type	String	Node type.
id	String	Instance ID.
name	String	Instance name.
specCode	String	Node specifications.
azCode	String	AZ of a node.
privateIp	String	Instance IP address.
volume	**ShowCluster VolumeRsp** object	Instance disk information.

Table 5-28 ShowClusterVolumeRsp

Parameter	Type	Description
type	String	Instance disk type.
size	Integer	Instance disk size.
resourceIds	Array of strings	Instance disk resource ID.

Table 5-29 publicKibanaRespBody

Parameter	Type	Description
eipSize	Integer	Bandwidth size. Unit: Mbit/s.
elbWhiteListR esp	**kibanaElbWh iteListResp** object	Kibana public network access information.
publicKibanaI p	String	IP address for accessing Kibana.
bandwidthRes ourceId	String	Resource ID corresponding to the Kibana public network.

Table 5-30 kibanaElbWhiteListResp

Parameter	Type	Description
enableWhiteList	Boolean	Whether Kibana access control is enabled. ● **true**: Access control is enabled. ● **false**: Access control is disabled.
whiteList	String	Whitelist for Kibana public network access.

Table 5-31 elbWhiteListResp

Parameter	Type	Description
enableWhiteList	Boolean	Whether public network access control is enabled. ● **true**: Public network access control is enabled. ● **false**: Public network access control is disabled.
whiteList	String	Whitelist for public network access.

Table 5-32 ClusterDetailTags

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

Table 5-33 ClusterDetailFailedReasons

Parameter	Type	Description
errorCode	String	Error code. ● **CSS.6000**: A cluster failed to be created. ● **CSS.6001**: A cluster failed to be scaled out. ● **CSS.6002**: A cluster failed to be restarted. ● **CSS.6004**: A node failed to be created in a cluster. ● **CSS.6005**: A service failed to be initialized.
errorMsg	String	Error details.

Example Requests

None

Example Responses

Status code: 200

Request succeeded.

```
{
  "datastore" : {
    "type" : "elasticsearch",
    "version" : "7.10.2"
  },
  "instances" : [ {
    "status" : "200",
    "type" : "ess",
    "id" : "{INSTANCE_ID}",
    "name" : "css-8bc5-ess-esn-1-1",
    "specCode" : "ess.spec-4u8g",
    "azCode" : "{AZ_CODE}",
    "volume" : {
      "type" : "ULTRAHIGH",
      "size" : 40,
      "resourceIds" : [ "{RESOURCE_ID}" ]
    },
    "privateIp" : "192.168.0.122",
    "resourceId" : "{RESOURCE_ID}"
  } ],
  "publicKibanaResp" : {
    "eipSize" : 10,
    "publicKibanaIp" : "100.95.152.28",
    "elbWhiteListResp" : null,
    "bandwidthResourceId" : "18bec13f-5cc1-4631-867f-33505d15be12"
  },
  "elbWhiteList" : {
    "whiteList" : "",
    "enableWhiteList" : false
  },
  "updated" : "2023-10-09T02:07:13",
  "name" : "css-8bc5",
  "publicIp" : "100.85.222.202",
  "created" : "2023-10-09T02:07:13",
  "id" : "{CLUSTER_ID}",
  "status" : "200",
  "vpcId" : "{VPC_ID}",
  "subnetId" : "{SUBNET_ID}",
  "securityGroupId" : "{SECURITY_GROUP_ID}",
  "bandwidthResourceId" : "{BANDWIDTH_RESOURCE_ID}",
  "bandwidthSize" : 3,
  "httpsEnable" : true,
  "authorityEnable" : true,
  "diskEncrypted" : false,
  "backupAvailable" : false,
  "actionProgress" : { },
  "actions" : [ ],
  "enterpriseProjectId" : "0",
  "tags" : [ ]
}
```

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.

URI

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

Table 5-34 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.
404	The requested resource could not be found. Modify the request before retry.

Error Codes

See **Error Codes**.

5.5 Renaming a Cluster

Function

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

URI

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

Table 5-35 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 5-36 Request body parameters

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

Response Parameters

None

Example Requests

Change the display name of the current cluster.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
changename

{
 "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**.

5.6 Changing the Password of a Cluster

Function

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

URI

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

Table 5-37 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 5-38 Request body parameters

Parameter	Mandatory	Type	Description
newpassword	Yes	String	Password of the cluster user **admin** in security mode. This API is available only if **authorityEnable** is set to **true**. ● 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

Change the administrator password of the current cluster.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
password/reset

{
  "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**.

5.7 Restarting a Cluster

Function

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

URI

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

Table 5-39 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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

None

Example Requests

None

Example Responses

None

Status Codes

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

Error Codes

See **Error Codes**.

5.8 Scaling Out a Cluster

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

Table 5-40 URI parameters

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

Request Parameters

Table 5-41 Request body parameters

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

Table 5-42 ExtendClusterGrowReq

Parameter	Mandatory	Type	Description
modifySize	Yes	Integer	Number of instances to be scaled out. The total number of existing instances and newly added instances in a cluster cannot exceed 32.

Response Parameters

None

Example Requests

Change the number of instances in the current cluster.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/extend

{
 "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**.

5.9 Adding Instances and Expanding Instance Storage Capacity

Function

This API is used to scale out a cluster with special nodes, such as master, client, and cold data nodes.

Calling Method

For details, see **Calling APIs**.

URI

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

Table 5-43 URI parameters

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

Request Parameters

Table 5-44 Request body parameters

Parameter	Mandatory	Type	Description
grow	Yes	Array of **RoleExtendG rowReq** objects	Detailed description about the cluster scale-out request.

Table 5-45 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 **ess-master** and **ess-client** nodes, instead of increasing their storage capacity.
nodesize	Yes	Integer	Number of instances to be scaled out. The total number of existing instances and newly added instances in a cluster cannot exceed 32. If there is no need to add more instances, set this parameter to 0.
disksize	Yes	Integer	Storage capacity of the instance to be expanded. The sum of the original instance storage capacity plus the expanded instance storage capacity cannot exceed the default upper limit of storage capacity set during cluster creation. If there is no need to add more storage capacity, set this parameter to 0. With a yearly/monthly cluster, you cannot change the number of nodes and disk capacity at the same time. Unit: GB. ● The scale-out step of ESS and ESS-cold nodes is 20. ● The storage capacity of ess-master and ess-client nodes cannot be expanded.

Response Parameters

Status code: 200

Table 5-46 Response body parameters

Parameter	Type	Description
id	String	Cluster ID.

Example Requests

Change the number of instances and storage capacity of the current cluster.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
role_extend

{
 "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**.

5.10 Changing Specifications

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

Table 5-47 URI parameters

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

Request Parameters

Table 5-48 Request body parameters

Parameter	Mandatory	Type	Description
newFlavorId	Yes	String	This parameter is obtained by calling the **Obtaining the Instance Specifications List** API. The API compares the values of the **name** attribute and obtains an appropriate flavor. The old and new node specifications must be under the same Elasticsearch engine version.

Parameter	Mandatory	Type	Description
needCheckReplica	No	Boolean	Whether to verify replicas. The value can be **true** or **false**. Replica verification is enabled by default. ● **true**: Replica verification is enabled. ● **false**: Replica verification is disabled.
needCheckClusterStatus	No	Boolean	Whether to check the cluster status. The value can be true or false. The default value is true. ● **true**: Cluster status verification is enabled. ● **false**: Cluster status verification is ignored.

Response Parameters

None

Example Requests

POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/flavor

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

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 does not meet one of the preconditions that the requester puts on the request.

Error Codes

See **Error Codes**.

5.11 Obtaining the Instance Specifications List

Function

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

URI

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

Table 5-49 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 5-50 Response body parameters

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

Table 5-51 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 5-52 EsflavorsVersionsFlavorsResp

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

Example Requests

None

Example Responses

Status code: 200

Request succeeded.

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

Status Codes

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

Error Codes

See **Error Codes**.

5.12 Querying All Tags

Function

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

URI

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

Table 5-53 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 **css-cluster**.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-54 Response body parameters

Parameter	Type	Description
tags	Array of **ShowAllTags TagsResp** objects	List of cluster tags

Table 5-55 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**.

5.13 Querying Tags of a Specified Cluster

Function

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

URI

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

Table 5-56 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 **css-cluster**.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-57 Response body parameters

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

Table 5-58 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.

Status Code	Description
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 Adding Tags to a Cluster

Function

This API is used to add tags to a cluster.

URI

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

Table 5-59 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 **css-cluster**.

Request Parameters

Table 5-60 Request body parameters

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

Table 5-61 Tag

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

Response Parameters

None

Example Requests

Create a cluster tag.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/css-cluster/4f3deec3-efa8-4598-bf91-560aad1377a3/tags

{
  "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 exits, or the requested update failed due to a conflict.
412	The server did not meet one of the preconditions contained in the request.

Error Codes

See **Error Codes**.

5.15 Deleting a Cluster Tag

Function

This API is used to delete a cluster tag.

URI

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

Table 5-62 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. If the tag name is in Chinese, encode the tag name using URL before calling the API.

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**.

5.16 Adding or Deleting Cluster Tags in Batches

Function

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

URI

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

Table 5-63 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 5-64 Request body parameters

Parameter	Mandatory	Type	Description
action	Yes	String	Action type. This attribute is used to identify the required operation type. • **create**: Tags are added in batches. • **delete**: Tags are deleted in batches.
tags	Yes	Array of **Tag** objects	Tag list.
sysTags	No	Array of **SysTags** objects	System tag list. • The value of **key** is fixed to **_sys_enterprise_project_id**. • The value is **UUID** or **0**. **0** indicates the default enterprise project.

Table 5-65 Tag

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

Table 5-66 SysTags

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

Response Parameters

None

Example Requests

Create or delete cluster tags in batches.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/css-cluster/4f3deec3-efa8-4598-bf91-560aad1377a3/
tags/action
```

```
{
  "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**.

5.17 Scaling In a Cluster by Removing a Specific Node

Function

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

URI

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

Table 5-67 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 you want to scale in.

Request Parameters

Table 5-68 Request body parameters

Parameter	Mandatory	Type	Description
migrate_data	No	String	Indicates whether to migrate data. The default value is true. ● "true": Migrate data. ● "false": Do not migrate data.
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

Scale in a cluster by scaling in specified nodes.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/node/
offline

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

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**.

5.18 Changing the Specifications of a Specified Node Type

Function

This API is used to change the specifications of a specified node type. The following node types are supported:

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

Calling Method

For details, see **Calling APIs**.

URI

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

Table 5-69 URI parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see **Obtaining a 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. ● **ess**: data node ● **ess-cold**: cold data node ● **ess-client**: client node ● **ess-master**: Master node

Request Parameters

Table 5-70 Request body parameters

Parameter	Mandatory	Type	Description
newFlavorId	Yes	String	This parameter is obtained by calling the **Obtaining the Instance Specifications List** API. The API compares the values of the **name** attribute and obtains an appropriate flavor. The old and new node specifications must be under the same Elasticsearch engine version.
needCheckReplica	No	Boolean	Whether to verify replicas. The value can be **true** or **false**. The default value is **true**. ● **true**: Replica verification is enabled. ● **false**: Replica verification is disabled. NOTE 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
needCheckClusterStatus	No	Boolean	Whether to check the cluster status. The value can be true or false. The default value is **true**. ● **true**: Cluster status verification is enabled. ● **false**: Cluster status verification is ignored.

Response Parameters

None

Example Requests

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/ess/
flavor

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

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 does not meet one of the preconditions that the requester puts on the request.

Error Codes

See **Error Codes**.

5.19 Scaling In Nodes of a Specific Type

Function

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

URI

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

Table 5-71 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 5-72 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 5-73 ShrinkNodeReq

Parameter	Mandatory	Type	Description
reducedNodeNum	Yes	Integer	Number of nodes you want to remove from a cluster. • 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. 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.
type	Yes	String	Node type. • **ess**: data node • **ess-cold**: cold data node • **ess-client**: client node • **ess-master**: master node

Response Parameters

None

Example Requests

Scale in a cluster by scaling in specified type of nodes.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/role/
shrink

{
  "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**.

5.20 Downloading a Security Certificate

Function

This API is used to download a security certificate.

URI

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

Table 5-74 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**.

Request Parameters

None

Response Parameters

Status code: 200

Table 5-75 Response body parameters

Parameter	Type	Description
-	File	

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**.

5.21 Replacing a Node

Function

This API is used to replace a failed node.

Calling Method

For details, see **Calling APIs**.

URI

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

Table 5-76 URI parameters

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

Table 5-77 Query parameters

Parameter	Mandatory	Type	Description
migrateData	No	String	Whether to migrate data. The default value is **true**. ● "true": Migrate data. ● "false": Do not migrate data.

Request Parameters

None

Response Parameters

None

Example Requests

PUT /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/instance/
43e63449-339c-4280-a6e9-da36b0685995/replace?migrateData=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**.

5.22 Changing the Security Mode

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

Table 5-78 URI parameters

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

Parameter	Mandatory	Type	Description
cluster_id	Yes	String	ID of the cluster whose security mode you want to change.

Request Parameters

Table 5-79 Request body parameters

Parameter	Mandatory	Type	Description
authorityEnable	Yes	Boolean	Whether to enable the security mode. ● **true**: enable. ● **false**: disable. The default value is **true**.
adminPwd	No	String	Cluster password in security mode
httpsEnable	Yes	Boolean	Whether to enable HTTPS. Its value can be: ● **true**: enable. ● **false**: disable. The default value is **true**.

Response Parameters

None

Example Requests

Change the security mode of the current cluster.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/mode/
change

{
  "authorityEnable" : true,
  "adminPwd" : "xxx",
  "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**.

5.23 Adding Dedicated Master and Client Nodes

Function

This API is used to add dedicated master and client nodes to an existing cluster that previously does not have such nodes.

Calling Method

For details, see **Calling APIs**.

URI

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

Table 5-80 URI parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see **Obtaining a Project ID and Name**.
cluster_id	Yes	String	ID of the cluster that needs an independent master or client.
type	Yes	String	Node type. The value can be: ● **ess-master**: Master node ● **ess-client**: Client node

Request Parameters

Table 5-81 Request body parameters

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

Table 5-82 IndependentBodyReq

Parameter	Mandatory	Type	Description
flavor_ref	Yes	String	Flavor ID. You can obtain the value of this parameter by calling the API Obtaining the Instance Specifications List. Select the flavor ID suitable for your cluster version.
node_size	Yes	Integer	Number of nodes. • 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 5-83 Response body parameters

Parameter	Type	Description
id	String	Cluster ID.

Example Requests

Add dedicated master and client nodes.

```
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	The request was 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 is able to receive but unable to understand the request.

Error Codes

See **Error Codes**.

5.24 Changing the Security Group

Function

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

URI

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

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	Cluster ID.

Request Parameters

Table 5-85 Request body parameters

Parameter	Mandatory	Type	Description
security_group_ids	Yes	String	Security group ID.

Response Parameters

None

Example Requests

Change the security group that the current cluster belongs to.

```
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.

Status Code	Description
403	Request rejected.The server has received the request and understood it, but refused to respond to it. The client should not repeat the request without modifications.

Error Codes

See **Error Codes**.

5.25 Creating a Cluster (V2)

Function

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

Calling Method

For details, see **Calling APIs**.

URI

POST /v2.0/{project_id}/clusters

Table 5-86 URI parameters

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

Request Parameters

Table 5-87 Request body parameters

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

Table 5-88 CreateClusterBody

Parameter	Mandatory	Type	Description
name	Yes	String	Cluster name. It contains 4 to 32 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. The value must start with a letter.
backupStrate gy	No	**CreateCluster BackupStrate gyBody** object	Whether to enable automatic snapshot creation. An automatic snapshot creation policy can be 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_pro ject_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 tags.

Parameter	Mandatory	Type	Description
availability_zone	Yes	String	Availability zone (AZ). You need to specify the AZ name. By default, a single AZ is specified. If multiple AZs are specified, use commas (,) to separate them. For example, if three AZs are selected in the CN North-Beijing4 region, the value of availability_zone is cn-north-4a,cn-north-4b,cn-north-4c. If a single AZ is used, the value of availability_zone is empty by default. **NOTE** Note - If multiple AZs are selected, the name of each AZ must be unique, and 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.
datastore	Yes	**CreateCluster DatastoreBo dy** object	Engine type. The value can be **elasticsearch**.
authorityEnable	No	Boolean	Whether to enable authentication. The value can be **true** or **false**. Authentication is disabled by default. ● **true**: Authentication is enabled for the cluster. ● **false**: Authentication is disabled for the cluster. **NOTE** 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. When **httpsEnable** is set to **true**, **authorityEnable** must be set to **true**. **true**: Communication is encrypted for the cluster. **false**: Communication is not encrypted for 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 available only when **authorityEnable** was set to **true** during cluster creation. ● The value can contain 8 to 32 characters. ● The value must contain at least 3 of the following character types: uppercase letters, lowercase letters, numbers, and special characters ~!@#$%&*()-_=|[{}];:,<.>/?
publicIPReq	No	**CreateCluster PublicIpReq** object	Public network access information. This parameter is valid only when **httpsEnable** is set to **true**.
publicKibanaReq	No	**CreateCluster PublicKibana Req** object	Kibana public network access information. This parameter is valid only when **authorityEnable** is set to **true**.

Table 5-89 CreateClusterBackupStrategyBody

Parameter	Mandatory	Type	Description
period	Yes	String	Time when a snapshot is generated every day. Snapshots can only be generated on the hour. The format is **HH:mm z**: **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**. **NOTE** The default value is 00:00 GMT +08:00. When frequency is set to HOUR, you do not need to specify period. By default, snapshot creation starts from the next hour after the settings are successful.
frequency	No	String	Frequency of automatically creating snapshots. **NOTE** The default value is DAY. If this parameter is set to HOUR, the scheduled task is executed every hour. If this parameter is set to DAY, the scheduled task is executed every day. If this parameter is set to SUN, MON, TUE, WED, THU, FRI or SAT, the scheduled task is executed at the specified day of every week. For example, SUN indicates that the task is executed once every Sunday. The number of retained snapshots depends on the execution frequency and indexes set in the automatic snapshot creation policy. If the execution interval is short or the index data volume is large, the number of retained automatic snapshots may not reach the preset value. Set this value based on actual conditions.
prefix	Yes	String	Prefix of automatically generated snapshots. It is manually configured. Enter up to 32 characters and start with a lowercase letter. Lowercase letters, numbers, hyphens (-), and underscores (_) are allowed.

Parameter	Mandatory	Type	Description
keepday	Yes	Integer	Number of snapshots that can be retained. The value ranges from 1 to 90. Expired snapshots will be automatically deleted on the half hour. The deletion policy applies only to automated snapshots that are executed at the same frequency as the current automatic snapshot creation policy.
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	Agency name. You can create an agency to allow CSS to call other cloud services. **NOTE** 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 5-90 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	**CreateCluster InstanceVolu meBody** object	Volume information.

Parameter	Mandatory	Type	Description
type	Yes	String	● **ess-master** indicates a master node. ● **ess-client** indicates a client node. ● **ess-cold** indicates a cold data node. ● **ess** indicates a data node.

instanceNum	Yes	Integer	Number of instances.
			● If **ess** is selected, you can set the value to 1 to 32.
			  – 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 1 to 32.
			● If **ess-master** is selected, you can set the value to an odd number within 3 and 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 5-91 CreateClusterInstanceVolumeBody

Parameter	Mandatory	Type	Description
volume_type	Yes	String	Volume type. • **COMMON**: common I/O • **HIGH**: high I/O • **ULTRAHIGH**: ultra-high I/O • **ESSD**: ultra-fast SSD
size	Yes	Integer	Volume size. The value must be greater than 0 and must be a multiple of 4 and 10. For details about the disk size, see the **diskrange** attribute in **Obtaining the Instance Specifications List**. Unit: GB. NOTE The default volume size of an ess-master and ess-client node is 40 GB and cannot be changed.

Table 5-92 CreateClusterInstanceNicsBody

Parameter	Mandatory	Type	Description
vpcId	Yes	String	VPC ID, which is used for configuring cluster network.
netId	Yes	String	Subnet ID (network ID).
securityGroup Id	Yes	String	Security group ID.

Table 5-93 CreateClusterTagsBody

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

Table 5-94 CreateClusterDatastoreBody

Parameter	Mandatory	Type	Description
version	Yes	String	Version of the CSS cluster engine. For details, see **Supported Cluster Versions**.
type	Yes	String	Engine type. The value can be **elasticsearch**.

Table 5-95 CreateClusterPublicIpReq

Parameter	Mandatory	Type	Description
eip	Yes	**CreateCluster PublicEip** object	EIP bandwidth information.
elbWhiteListReq	Yes	**CreateCluster ElbWhiteList** object	EIP whitelist.
publicBindType	Yes	String	Whether to automatically bind an EIP. Currently, only auto_assign is supported.
eipId	No	String	EIP ID.

Table 5-96 CreateClusterPublicEip

Parameter	Mandatory	Type	Description
bandWidth	Yes	**CreateCluster PublicEipSize** object	Public network bandwidth.

Table 5-97 CreateClusterPublicEipSize

Parameter	Mandatory	Type	Description
size	Yes	Integer	Bandwidth size.

Table 5-98 CreateClusterElbWhiteList

Parameter	Mandatory	Type	Description
enableWhiteList	Yes	Boolean	Whether public network access control is enabled.
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 5-99 CreateClusterPublicKibanaReq

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

Table 5-100 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.
enableWhiteList	Yes	Boolean	Whether Kibana access control is enabled.

Response Parameters

Status code: 200

Table 5-101 Response body parameters

Parameter	Type	Description
cluster	**CreateCluster Resp** object	Cluster. For a pay-per-use cluster, only the **cluster** parameter is returned.

Table 5-102 CreateClusterResp

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

Example Requests

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

```
{
  "cluster" : {
    "name" : "css-cluster",
    "backupStrategy" : {
      "period" : "16:00 GMT+08:00",
      "prefix" : "snapshot",
      "keepday" : 7,
      "frequency" : "DAY",
      "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",
      "eipId" : null
    },
```

```
      "publicKibanaReq" : {
        "eipSize" : 5,
        "elbWhiteList" : {
          "whiteList" : "127.0.0.1",
          "enableWhiteList" : true
        }
      }
    }
  }
}
```

Example Responses

Status code: 200

Request succeeded.

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

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

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. 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 does not meet one of the preconditions that the requester puts on the request.

Error Codes

See **Error Codes**.

5.26 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.

URI

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

Table 5-103 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 5-104 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Operation role. Value range: ● node ● role
value	Yes	String	Operation parameter. Parameter description: ● 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

Restart nodes of all or some types in the current cluster.

```
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**.

5.27 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.

URI

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

Table 5-105 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**.

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

Request Parameters

Table 5-106 Request body parameters

Parameter	Mandatory	Type	Description
type	Yes	String	Operation role. Its type can only be **role**.
value	Yes	String	Instance type. (At least one data node is required when you configure instance types.) Use commas (,) to separate multiple types. For example: ● **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

Restart a node.

```
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 Kibana Public Network Access

6.1 Enabling Kibana Public Access

Function

This API is used to enable Kibana public network access.

Calling Method

For details, see **Calling APIs**.

URI

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

Table 6-1 URI parameters

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

Request Parameters

Table 6-2 Request body parameters

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

Table 6-3 StartKibanaPublicReqElbWhitelist

Parameter	Mandatory	Type	Description
enableWhiteList	Yes	Boolean	Whether to enable the whitelist function. • **true**: The whitelist is enabled. • **false**: The whitelist is disabled.
whiteList	Yes	String	Whitelist.

Response Parameters

None

Example Requests

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
publickibana/open

{
  "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.
412	The server does not meet one of the preconditions that the requester puts on the request.

Error Codes

See **Error Codes**.

6.2 Disabling Kibana Public Access

Function

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

URI

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

Table 6-4 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 6-5 Request body parameters

Parameter	Mandatory	Type	Description
eipSize	No	Integer	Bandwidth. Unit: Mbit/s
elbWhiteList	No	**StartKibanaPublicReqElbWhitelist** object	ELB whitelist.

Table 6-6 StartKibanaPublicReqElbWhitelist

Parameter	Mandatory	Type	Description
enableWhiteList	Yes	Boolean	Whether to enable the whitelist function. ● true: The whitelist is enabled. ● false: The whitelist is disabled.
whiteList	Yes	String	Whitelist.

Response Parameters

None

Example Requests

Disable Kibana public access.

```
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.
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**.

6.3 Modifying the Kibana Public Network Bandwidth

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

Table 6-7 URI parameters

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

Request Parameters

Table 6-8 Request body parameters

Parameter	Mandatory	Type	Description
bandWidth	Yes	**UpdatePublic KibanaBand widthReqBan dWidth** object	Bandwidth size.

Table 6-9 UpdatePublicKibanaBandwidthReqBandWidth

Parameter	Mandatory	Type	Description
size	Yes	Integer	New bandwidth size.

Response Parameters

None

Example Requests

Modify the Kibana public network bandwidth.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
publickibana/bandwidth

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

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 does not meet one of the preconditions that the requester puts on the request.

Error Codes

See **Error Codes**.

6.4 Modifying Kibana Public Access Control

Function

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

URI

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

Table 6-10 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 6-11 Request body parameters

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

Response Parameters

None

Example Requests

The latest whitelist

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/5c77b71c-5b35-4f50-8984-76387e42451a/
publickibana/whitelist/update

{
  "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**.

6.5 Disabling Kibana Public Network Access Control

Function

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

URI

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

Table 6-12 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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.

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**.

7 Log Management

7.1 Enabling the Log Function

Function

This API is used to enable the log function.

URI

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

Table 7-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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.

Table 7-2 Query Parameters

Parameter	Mandatory	Type	Description
action	No	String	The action can be base_log_collect or real_time_log_collect. base indicates the historical capability, and real_time indicates the real-time collection capability. If this parameter is not passed, base is used by default, which is compatible with the previous logic.

Request Parameters

Table 7-3 Request body parameters

Parameter	Mandatory	Type	Description
agency	No	String	Agency name. You can create an agency to allow CSS to call other cloud services. This parameter is mandatory when action is not set to real_time_log_collect.
logBasePath	No	String	Storage path of backed up logs in the OBS bucket. This parameter is mandatory when action is not set to real_time_log_collect.
logBucket	No	String	Name of the OBS bucket for storing logs. This parameter is mandatory when action is not set to real_time_log_collect.
index_prefix	No	String	Index prefix for saving logs. This parameter is mandatory when action is set to real_time_log_collect.
keep_days	No	Integer	Log retention duration. This parameter is mandatory when action is set to real_time_log_collect.

Parameter	Mandatory	Type	Description
target_cluster _id	No	String	Specifies the target cluster for saving logs. This parameter is mandatory when action is set to real_time_log_collect.

Response Parameters

None

Example Requests

- Enable the log function.

  POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
  logs/open

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

- Enable real-time log collection function.

  POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
  logs/open?action=real_time_log_collect

  ```
  {
    "index_prefix" : "css_log",
    "keep_days" : 30,
    "target_cluster_id" : "4f3deec3-efa8-4598-bf91-560aad1377a3"
  }
  ```

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**.

7.2 Disabling the Log Function

Function

This API is used to disable the log function.

URI

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

Table 7-4 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 log function you want to disable.

Table 7-5 Query Parameters

Parameter	Mandatory	Type	Description
action	No	String	The action can be base_log_collect or real_time_log_collect. base indicates the historical capability, and real_time indicates the real-time collection capability. If this parameter is not passed, base is used by default, which is compatible with the previous logic.

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**.

7.3 Querying the Job List

Function

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

URI

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

Table 7-6 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**.

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

Table 7-7 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.
status	No	String	Specifies the status of the log task to be queried. If this parameter is not set, all log tasks of the cluster are queried. FAIL: failed tasks NOT_FAIL: ongoing or successful tasks

Request Parameters

None

Response Parameters

Status code: 200

Table 7-8 Response body parameters

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

Table 7-9 clusterLogRecord

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

7.4 Querying Basic Log Configurations

Function

This API is used to query basic log configurations.

URI

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

Table 7-10 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.

Table 7-11 Query Parameters

Parameter	Mandatory	Type	Description
action	No	String	The action can be base_log_collect or real_time_log_collect. base indicates the historical capability, and real_time indicates the real-time collection capability. If this parameter is not passed, base is used by default, which is compatible with the previous logic.

Request Parameters

None

Response Parameters

Status code: 200

Table 7-12 Response body parameters

Parameter	Type	Description
logConfiguration	**logConfiguration** object	Log configuration entity object.
realTimeLogCollectRecord	**realTimeLogCollect** object	Configure real-time log collection.

Table 7-13 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.

Parameter	Type	Description
autoEnable	Boolean	Whether to enable automatic backup. ● **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. ● **true**: The log function is enabled. ● **false**: The log function is disabled.

Table 7-14 realTimeLogCollect

Parameter	Type	Description
id	String	Log collection ID, which is generated using the system UUID.
clusterId	String	Cluster ID
indexPrefix	String	Prefix of the index for saving logs.
keepDays	Integer	Log retention duration.
targetClusterId	String	ID of the target cluster where logs are saved.
status	String	Status of a real-time log collection task.
createAt	Long	Start time of a real-time log collection task.
updateAt	Long	Update time of a real-time log collection task.

Example Requests

None

Example Responses

Status code: 200

Request succeeded.

● Example response to a real-time log collection request.

```
{
  "logConfiguration" : null,
  "realTimeLogCollectRecord" : {
    "id" : "17939b7b-5a93-4ca5-8d3c-b9f2d0e715b4",
    "clusterId" : "e3201ceb-1a3e-49f3-bb2f-23a816440b20",
    "keepDays" : 30,
```

```
    "updateAt" : 1717666418870,
    "createAt" : 1717666405897,
    "targetClusterId" : "8c19644b-f2ef-44fc-abef-230a4c578ce7",
    "indexPrefix" : "aaa",
    "status" : "200"
  }
}
```

- Example response to a log backup request.

```
{
  "logConfiguration" : {
    "id" : "00032118-aff5-40e8-b19a-dd4bb576e572",
    "clusterId" : "e3201ceb-1a3e-49f3-bb2f-23a816440b20",
    "obsBucket" : "css-autobk-notdel-cn-north-7",
    "agency" : "css_obs_agency",
    "updateAt" : 1639624882000,
    "basePath" : "css/log",
    "autoEnable" : false,
    "period" : null,
    "logSwitch" : false
  },
  "realTimeLogCollectRecord" : 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**.

7.5 Modifying Basic Log Configurations

Function

This API is used to modify basic log configurations.

URI

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

Table 7-15 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 basic log configurations you want to modify.

Table 7-16 Query Parameters

Parameter	Mandatory	Type	Description
action	No	String	The action can be base_log_collect or real_time_log_collect. base indicates the historical capability, and real_time indicates the real-time collection capability. If this parameter is not passed, base is used by default, which is compatible with the previous logic.

Request Parameters

Table 7-17 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. This parameter is mandatory when action is not set to real_time_log_collect.
logBasePath	Yes	String	Storage path of backed up logs in the OBS bucket. This parameter is mandatory when action is not set to real_time_log_collect.

Parameter	Mandatory	Type	Description
logBucket	Yes	String	Name of the OBS bucket for storing logs. This parameter is mandatory when action is not set to real_time_log_collect.
index_prefix	No	String	Index prefix for storing logs. This parameter is mandatory when action is set to real_time_log_collect.
keep_days	No	Integer	Log retention duration. This parameter is mandatory when action is set to real_time_log_collect.
target_cluster_id	No	String	Specifies the target cluster for saving logs. This parameter is mandatory when action is set to real_time_log_collect.

Response Parameters

None

Example Requests

- Modify basic log configurations.

  POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/logs/settings

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

- Updating the Real-Time Log Collection Configuration

  POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/logs/settings?action=real_time_log_collect

  ```
  {
    "index_prefix" : "css_log",
    "keep_days" : 30,
    "target_cluster_id" : "4f3deec3-efa8-4598-bf91-560aad1377a3",
  }
  ```

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**.

7.6 Enabling the Automatic Log Backup Policy

Function

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

URI

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

Table 7-18 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 7-19 Request body parameters

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

Response Parameters

None

Example Requests

Enable the automatic log backup policy.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/logs/
policy/update

{
  "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**.

7.7 Disabling the Automatic Log Backup Policy

Function

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

URI

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

Table 7-20 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 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**.

7.8 Backing Up Logs

Function

This API is used to back up logs.

URI

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

Table 7-21 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**.

7.9 Searching for Logs

Function

This API is used to query log information.

URI

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

Table 7-22 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 you want to query.

Request Parameters

Table 7-23 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 7-24 Response body parameters

Parameter	Type	Description
logList	Array of **logList** objects	Log list.

Table 7-25 logList

Parameter	Type	Description
content	String	Log content.
date	String	Date.
level	String	Log level.

Example Requests

Query logs.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/logs/
search

{
  "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**.

7.10 Test connectivity.

Function

This API is used to test connectivity.

URI

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

Table 7-26 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 7-27 Request body parameters

Parameter	Mandatory	Type	Description
target_cluster _id	Yes	String	Target cluster ID.

Response Parameters

Status code: 200

Table 7-28 Response body parameters

Parameter	Type	Description
-	String	

Example Requests

Test connectivity to the target cluster.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/logs/
connectivity

{
  "target_cluster_id" : "4f3deec3-efa8-4598-bf91-560aad1377a4"
}
```

Example Responses

Status code: 200

Request succeeded.

```
{}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	The request could not be understood by the server due to malformed syntax. Modify the request instead of retrying.
409	The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exits, or the requested update failed due to a conflict.
412	The server does not meet one of the requirements that the requester puts on the request.

Error Codes

See **Error Codes**.

8 Public Network Access

8.1 Enabling Public Network Access

Function

This API is used to enable public network access.

Calling Method

For details, see **Calling APIs**.

URI

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

Table 8-1 URI parameters

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

Request Parameters

Table 8-2 Request body parameters

Parameter	Mandatory	Type	Description
eip	Yes	**BindPublicReqEip** object	EIP information

Table 8-3 BindPublicReqEip

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

Table 8-4 BindPublicReqEipBandWidth

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

Response Parameters

Status code: 200

Table 8-5 Response body parameters

Parameter	Type	Description
action	String	Action. The fixed value is **bindZone**, indicating that the binding is successful.

Example Requests

Enable public network access.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/public/open

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

Example Responses

Status code: 200

Request succeeded.

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

Status Code

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 does not meet one of the preconditions that the requester puts on the request.

Error Codes

See **Error Codes**.

8.2 Disabling Public Network Access

Function

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

URI

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

Table 8-6 Path Parameters

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

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

Request Parameters

Table 8-7 Request body parameters

Parameter	Mandatory	Type	Description
eip	No	**UnBindPublic ReqEipReq** object	EIP bandwidth information.

Table 8-8 UnBindPublicReqEipReq

Parameter	Mandatory	Type	Description
bandWidth	No	**BindPublicRe qEipBandWid th** object	Public network bandwidth.

Table 8-9 BindPublicReqEipBandWidth

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

Response Parameters

Status code: 200

Table 8-10 Response body parameters

Parameter	Type	Description
action	String	Operations. The fixed value is **unbindZone**, indicating that the unbinding is successful.

Example Requests

Disable public network access.

```
PUT /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/public/
close

{
  "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**.

8.3 Modifying Public Network Access Bandwidth

Function

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

Calling Method

For details, see **Calling APIs**.

URI

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

Table 8-11 URI parameters

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

Request Parameters

Table 8-12 Request body parameters

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

Table 8-13 BindPublicReqEipBandWidth

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

Response Parameters

None

Example Requests

Modify the public network access bandwidth.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/public/
bandwidth

{
  "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 does not meet one of the preconditions that the requester puts on the request.

Error Codes

See **Error Codes**.

8.4 Enabling the Public Network Access Control Whitelist

Function

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

URI

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

Table 8-14 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 8-15 Request body parameters

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

Response Parameters

None

Example Requests

Enable the public network access control whitelist.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/public/
whitelist/update

{
  "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**.

8.5 Disabling the Public Network Access Control Whitelist

Function

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

URI

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

Table 8-16 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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.

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**.

9 Snapshot Management

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

Function

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

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

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

URI

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

Table 9-1 Path Parameters

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

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

Request Parameters

None

Response Parameters

None

Example Requests

None

Example Responses

None

Status Codes

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

Error Codes

See **Error Codes**.

9.2 Modifying Basic Configurations of a Cluster Snapshot

Function

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

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

URI

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

Table 9-2 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 9-3 Request body parameters

Parameter	Mandatory	Type	Description
bucket	Yes	String	Name of the OBS bucket used for backup.
agency	Yes	String	IAM agency used to access OBS.
basePath	No	String	Storage path of the snapshot in the OBS bucket.

Response Parameters

None

Example Requests

Enable the snapshot function.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
index_snapshot/setting

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

Example Responses

None

Status Codes

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

Error Codes

See **Error Codes**.

9.3 Manually Creating a Snapshot

Function

This API is used to manually create a snapshot.

URI

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

Table 9-4 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 9-5 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Snapshot name. Enter 4 to 64 characters. Lowercase letters, digits, hyphens (-), and underscores (_) are allowed. The value must start with a letter.
description	No	String	Snapshot description. The value can contain up to 256 characters and cannot contain the following characters: ! <>=&"'
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 the combination of a backslash and an asterisk (*) to back up data of certain 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 9-6 Response body parameters

Parameter	Type	Description
backup	**backupRsp** object	Snapshot information.

Table 9-7 backupRsp

Parameter	Type	Description
id	String	Snapshot ID
name	String	Snapshot name

Example Requests

Create a snapshot.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
index_snapshot

{
  "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 the request and understood it, but refused to respond to it. The client should not repeat the request without modifications.
406	The server could not fulfill the request according to the content characteristics of the request.
500	The server has received the request but could not understand it.
501	The server does not support the function required to fulfill the request.

Error Codes

See **Error Codes**.

9.4 Restoring a Snapshot

Function

This API is used to manually restore a snapshot.

URI

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

Table 9-8 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 9-9 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 the combination of a backslash and an asterisk (*) to back up data of certain 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.The renamePattern and renameReplacement parameters must be set at the same time in order for them to take effect.

Parameter	Mandatory	Type	Description
replace_exist_i ndices	No	Boolean	Replacing an existing index.

Response Parameters

None

Example Requests

Restore a snapshot.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
index_snapshot/653c086f-ebe7-4383-b902-c031b354f1dd/restore

{
  "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 refused to respond to it. The client should not repeat the request without modifications.

Error Codes

See **Error Codes**.

9.5 Deleting a Snapshot

Function

This API is used to delete a snapshot.

URI

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

Table 9-10 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 the request and understood it, but refused to respond to it. The client should not repeat the request without modifications.

Error Codes

See **Error Codes**.

9.6 Configuring the Automatic Snapshot Creation Policy

Function

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

URI

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

Table 9-11 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 9-12 Request body parameters

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

Parameter	Mandatory	Type	Description
prefix	No	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. **NOTE** This parameter is mandatory when enable is set to true.
period	No	String	Time when a snapshot is generated every day. Snapshots can only be generated on the hour. The format is HH:mm z: 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. **NOTE** The default value is 00:00 GMT +08:00. When frequency is set to HOUR, you do not need to specify period. By default, snapshot creation starts from the next hour after the settings are successful. This parameter is mandatory when enable is set to true.
keepday	No	Integer	Set the number of retained snapshots. The value ranges from 1 to 90. Expired snapshots will be automatically deleted on the half hour. The deletion policy applies only to automated snapshots that are executed at the same frequency as the current automatic snapshot creation policy. **NOTE** This parameter is mandatory when enable is set to true.

Parameter	Mandatory	Type	Description
enable	Yes	String	Whether to enable the automatic snapshot creation policy. • **true**: The automatic snapshot creation policy is enabled. • **false**:The automatic snapshot creation policy is disabled, and other parameters do not need to be delivered.
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.
frequency	No	String	Frequency of automatically creating snapshots. **NOTE** The default value is DAY. If this parameter is set to HOUR, the scheduled task is executed every hour. If this parameter is set to DAY, the scheduled task is executed every day. If this parameter is set to SUN, MON, TUE, WED, THU, FRI or SAT, the scheduled task is executed at the specified day of every week. For example, SUN indicates that the task is executed once every Sunday. The number of retained snapshots depends on the execution frequency and indexes set in the automatic snapshot creation policy. If the execution interval is short or the index data volume is large, the number of retained automatic snapshots may not reach the preset value. Set this value based on actual conditions.

Response Parameters

None

Example Requests

Configure the automatic snapshot creation policy.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/
index_snapshot/policy

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

Example Responses

None

Status Codes

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

Error Codes

See **Error Codes**.

9.7 Querying the Automatic Snapshot Creation Policy

Function

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

URI

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

Table 9-13 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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 9-14 Response body parameters

Parameter	Type	Description
keepday	Integer	Customize the number of snapshots to be retained.
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. ● **true**: The automatic snapshot creation policy is enabled. ● **false**: The automatic snapshot creation policy is disabled.
frequency	String	Frequency of automatically creating snapshots.

Example Requests

None

Example Responses

Status code: 200

Request succeeded.

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

Status Codes

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

Error Codes

See **Error Codes**.

9.8 Querying a Snapshot List

Function

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

URI

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

Table 9-15 Path Parameters

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

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

Request Parameters

None

Response Parameters

Status code: 200

Table 9-16 Response body parameters

Parameter	Type	Description
backups	Array of **ListSnapshot BackupsResp** objects	Snapshot list

Table 9-17 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**.

Parameter	Type	Description
backupType	String	Snapshot creation type. The options are as follows: • **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
failedShards	Integer	Number of shards that fail to be backed up
version	String	Snapshot version
restoreStatus	String	Snapshot restoration status
startTime	Long	Snapshot start timestamp
endTime	Long	Snapshot end timestamp
bucketName	String	Name of the bucket that stores snapshot data

Table 9-18 ListSnapshotBackupsDatastoreResp

Parameter	Type	Description
type	String	Engine type. Currently, only Elasticsearch is supported.
version	String	Elasticsearch engine version. For details, see CSS **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" : ".kibanawebsite2",
    "totalShards" : 6,
    "failedShards" : 0,
    "version" : "x.x.x",
    "restoreStatus" : "success",
    "startTime" : 1520408087099,
    "endTime" : 1520408412219,
    "bucketName" : "obs-b8ed"
  }, {
    "created" : "2018-03-06T15:42:37",
    "datastore" : {
      "type" : "elasticsearch",
      "version" : "x.x.x"
    },
    "description" : "",
    "id" : "29a2254e-947f-4463-b65a-5f0b17515fae",
    "clusterId" : "37cb1075-c38e-4cd8-81df-442d52df3786",
    "clusterName" : "Es-xfx",
    "name" : "snapshot-001",
    "status" : "COMPLETED",
    "updated" : "2018-03-06T15:48:04",
    "backupType" : "1",
    "backupMethod" : "manual",
    "backupExpectedStartTime" : null,
    "backupKeepDay" : null,
    "backupPeriod" : null,
    "indices" : ".kibana",
    "totalShards" : 1,
    "failedShards" : 0,
    "version" : "x.x.x",
    "restoreStatus" : "none",
    "startTime" : 1520350957275,
    "endTime" : 1520351284357,
    "bucketName" : "obs-b8ed"
  } ]
}
```

Status Codes

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

Error Codes

See **Error Codes**.

9.9 Disabling the Snapshot Function

Function

This API is used to disable the snapshot function.

URI

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

Table 9-19 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. 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.

Status Code	Description
406	The server could not fulfill the request according to the content characteristics of the request.

Error Codes

See **Error Codes**.

9.10 Enabling Automatic Snapshot Creation

Function

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

URI

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

Table 9-20 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 9-21 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 the combination of a backslash and an asterisk (*) to back up data of certain 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	Set the number of retained snapshots. The value ranges from 1 to 90. Expired snapshots will be automatically deleted on the half hour. The deletion policy applies only to automated snapshots that are executed at the same frequency as the current automatic snapshot creation policy.

Parameter	Mandatory	Type	Description
frequency	No	String	Frequency of automatically creating snapshots. **NOTE** The default value is DAY. If this parameter is set to HOUR, the scheduled task is executed every hour. If this parameter is set to DAY, the scheduled task is executed every day. If this parameter is set to SUN, MON, TUE, WED, THU, FRI or SAT, the scheduled task is executed at the specified day of every week. For example, SUN indicates that the task is executed once every Sunday. The number of retained snapshots depends on the execution frequency and indexes set in the automatic snapshot creation policy. If the execution interval is short or the index data volume is large, the number of retained automatic snapshots may not reach the preset value. Set this value based on actual conditions.
period	Yes	String	Time when a snapshot is generated every day. Snapshots can only be generated on the hour. The format is HH:mm z: 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. **NOTE** The default value is 00:00 GMT+08:00. When frequency is set to HOUR, you do not need to specify period. By default, snapshot creation starts from the next hour after the settings are successful.
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

Enable the automatic backup function.

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

{
  "indices" : "*",
  "keepday" : 7,
  "frequency" : "DAY",
  "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 the request and understood it, but refused to respond to it. The client should not repeat the request without modifications.

Error Codes

See **Error Codes**.

9.11 Disabling Automatic Snapshot Creation

Function

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

URI

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

Table 9-22 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

Disable the automatic backup function.

```
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 the request and understood it, but refused to respond to it. The client should not repeat the request without modifications.

Error Codes

See **Error Codes**.

10 Parameter Configuration

10.1 Modifying Cluster Parameters

Function

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

URI

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

Table 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 whose parameter settings you want to be modify.

Request Parameters

Table 10-2 Request body parameters

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

Table 10-3 UpdateYmlsReqEdit

Parameter	Mandatory	Type	Description
modify	Yes	**UpdateYmlsReqEditModify** object	Operations on the configuration file. • **modify**: Modify parameter settings. • **delete**: Delete parameter settings. • **reset**: Reset parameter settings.

Table 10-4 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 10-5 Response body parameters

Parameter	Type	Description
acknowledged	Boolean	Whether the modification is successful. • **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

Modify parameter settings.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/ymls/
update

{
  "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**.

10.2 Obtaining the Task List of Parameter Configurations

Function

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

URI

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

Table 10-6 Path Parameters

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

Table 10-7 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 10-8 Response body parameters

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

Table 10-9 configListRsp

Parameter	Type	Description
id	String	Operation ID.

Parameter	Type	Description
clusterId	String	Cluster ID.
createAt	String	Creation time. Format: Unix timestamp.
status	String	Task execution status. ● **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.
modifyDelete Reset	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.

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**.

10.3 Obtaining the Parameter Configuration List

Function

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

URI

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

Table 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 you want to query.

Request Parameters

None

Response Parameters

Status code: 200

Table 10-11 Response body parameters

Parameter	Type	Description
configurations	Object	Cluster parameter configuration list. The **key** value in the object is subject to the actual situation. The **value** has the following attributes:
		• **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**.

11 Intelligent O&M

11.1 Obtaining the Intelligent O&M Task List and Details

Function

This API is used to obtain the intelligent O&M task list and details.

URI

GET /v1.0/{project_id}/clusters/{cluster_id}/ai-ops

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 you want to query

Table 11-2 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Pagination parameter, indicating the maximum number of records on a page.

Parameter	Mandatory	Type	Description
start	No	Integer	Offset. All VPC endpoint services after this offset will be queried. The offset must be an integer greater than 0 but less than the number of VPC endpoint services.

Request Parameters

None

Response Parameters

Status code: 200

Table 11-3 Response body parameters

Parameter	Type	Description
total_size	Integer	Number of detection tasks
aiops_list	Array of **aiops_list** objects	Detection task details list

Table 11-4 aiops_list

Parameter	Type	Description
id	String	Detection task ID
name	String	Detection task name
desc	String	Detection task description
status	Integer	Task execution status. ● **150**: The function is disabled. ● **200**: The function is enabled. ● **300**: A message has been sent.
summary	**summary** object	Risk summary
create_time	String	Timestamp when a detection task is created

Parameter	Type	Description
smn_status	String	Status of the SMN alarm message sending task. ● **not_open** ● **not_trigger** ● **sent** ● **send_fail**
smn_fail_reason	String	Cause of the message sending failure
task_risks	Array of **AIOpsRiskInfo** objects	Risk item details

Table 11-5 summary

Parameter	Type	Description
high	Integer	Number of high-risk detection items
medium	Integer	Number of medium-risk detection items
suggestion	Integer	Number of suggestion detection items

Table 11-6 AIOpsRiskInfo

Parameter	Type	Description
riskType	String	Check item description
level	String	Risk level. ● **high** ● **medium** ● **suggestion**
desc	String	Risk description
suggestion	String	Risk suggestion

Example Requests

This API is used to obtain the intelligent O&M task list and details.

GET /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/ai-ops

Example Responses

Status code: 200

Request succeeded.

```
{
  "aiops_list" : [ {
    "id" : "7381a80b-68cb-4b9e-8226-37d686b18b1d",
    "name" : "aiops-test",
    "desc" : "",
    "status" : 200,
    "summary" : {
      "high" : 1,
      "medium" : 0,
      "suggestion" : 1
    },
    "create_time" : 1687944156750,
    "smn_status" : "not_open",
    "smn_fail_reason" : null,
    "task_risks" : [ {
      "riskType" : "Check for snapshot creation failures and snapshot records in the cluster in the last seven
days.",
      "level" : "suggestion",
      "desc" : "There are no snapshot records in the cluster in the last seven days.",
      "suggestion" : "You are advised to enable cluster snapshot and ensure that snapshots are successfully
created within seven days. If snapshot creation fails, click the cluster name, and check the failure details on
the Cluster Snapshots and Logs pages."
    }, {
      "riskType" : "Check the number of nodes in the cluster and the number of AZs to evaluate the high
availability status of the distributed Elasticsearch cluster.",
      "level" : "high",
      "desc" : "The current cluster has one or two nodes. If a node is faulty, the entire cluster may become
unavailable. The service availability risk is high.",
      "suggestion" : "You are advised to change the cluster to a multi-AZ cluster. Procedure: On the CSS
cluster console, choose Clusters > Elasticsearch. In the Operation column of a cluster, choose More > Modify
Configuration. Click the Change AZ tab and add AZs. Click the Scale Cluster tab and change the number of
nodes."
    } ]
  } ],
  "total_size" : 1
}
```

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request instead of retrying.
409	The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exits, or the requested update failed due to a conflict.
412	The server does not meet one of the requirements that the requester puts on the request.

Error Codes

See **Error Codes**.

11.2 Creating a Cluster Detection Task

Function

This API is used to create a cluster detection task.

URI

POST /v1.0/{project_id}/clusters/{cluster_id}/ai-ops

Table 11-7 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 target cluster

Request Parameters

Table 11-8 Request header parameters

Parameter	Mandatory	Type	Description
X-Language	No	String	Language

Table 11-9 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Detection task name
description	No	String	Detection task description
alarm	No	**alarm** object	After the detection task is complete, an SMN alarm message is sent.

Table 11-10 alarm

Parameter	Mandatory	Type	Description
level	Yes	String	Sensitivity of an SMN alarm message. ● **high** ● **medium** ● **suggestion** ● **norisk**
smn_topic	Yes	String	SMN topic name

Response Parameters

None

Example Requests

Create a cluster detection task.

```
POST /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/ai-ops

{
    "name": " aiops-test ",
"description": "Create a cluster detection task.
 ",
    "alarm":{
        "level":"high",
        "smn_topic":"aiops-test"
    }
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request instead of retrying.
409	The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exits, or the requested update failed due to a conflict.

Status Code	Description
412	The server does not meet one of the requirements that the requester puts on the request.

Error Codes

See **Error Codes**.

11.3 Deleting a Detection Task

Function

This API is used to delete a detection task.

URI

DELETE /v1.0/{project_id}/clusters/{cluster_id}/ai-ops/{aiops_id}

Table 11-11 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 to be deleted
aiops_id	Yes	String	ID of a detection task

Request Parameters

None

Response Parameters

None

Example Requests

Delete a detection task.

```
DELETE /v1.0/6204a5bd270343b5885144cf9c8c158d/clusters/4f3deec3-efa8-4598-bf91-560aad1377a3/ai-
ops/e19c9298-465e-42ad-a0ae-b6b552222925
```

Example Responses

None

Status Codes

Status Code	Description
200	Request succeeded.
400	Invalid request. Modify the request instead of retrying.
409	The request cannot be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exits, or the requested update failed due to a conflict.
412	The server does not meet one of the requirements that the requester puts on the request.

Error Codes

See **Error Codes**.

12 Permissions Policies and Supported Actions

This section describes fine-grained permissions management for your CSS. If your 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.

☐ NOTE

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

Table 12-1 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:enableAtomaticSnapsot	√	√
Modifying basic configurations of a cluster snapshot	POST /v1.0/{project_id}/clusters/{cluster_id}/index_snapshot/setting	css:snapshot:setSnapshotContiguration	√	√
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 :getSnapsho tPolicy	√	√
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 :disableSnap shotFuction	√	√

13 Common Parameters

13.1 Obtaining a Project ID and Name

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

Obtaining a Project ID and Name from the Console

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

Obtaining a Project ID by Calling an API

The API for obtaining a project ID is **GET https://**{*iam-endpoint*}**/v3/projects**. {*iam-endpoint*} indicates the endpoint of IAM, which can be obtained from **Endpoints**.

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"
    }
}
```

13.2 Status Code

Table 13-1 describes the status code.

Table 13-1 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.
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.

Status Code	Code	Description
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 authorization information provided by the client is incorrect or invalid.
402	Payment Required	This status code is reserved for future use.
403	Forbidden	The server understood the request, but is refusing to fulfill it. The server has received and understood the request, but refused to respond to it. Modify the request directly and do not attempt to retry it.
404	NotFound	The requested resource cannot be found. The client should not repeat the request without modifications.
405	MethodNotAllowed	The method specified in the request is not supported for the requested resource. The client should not repeat the request without modifications.
406	Not Acceptable	The server could not fulfil the request based on the characteristics of the request.
407	Proxy Authentication Required	This status code is similar to 401, but indicates that the client must first authenticate itself with the proxy.

Status Code	Code	Description
408	Request Time-out	The request timed out. The client may repeat the request without modifications at any later time.
409	Conflict	The request could not be processed due to a conflict. This status code indicates that the resource that the client attempts to create already exits, or the request fails to be processed because of the update of the conflict request.
410	Gone	The requested resource is no longer available. The status code indicates that the requested resource has been deleted.
411	Length Required	The server refuses to process the request without a defined Content-Length.
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The request is larger than that a server is able to process. The server may close the connection to prevent the client from continuing the request. If the server cannot process the request temporarily, the response will contain a Retry-After header field.
414	Request-URI Too Large	The URI provided was too long for the server to process.
415	Unsupported Media Type	The server is unable to process the media format in the request.
416	Requested range not satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the Expect request-header field.
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.

Status Code	Code	Description
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.

13.3 Error Code

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

Status Code	Error Code	Error Message	Measure
400	CSS.0001	The parameter is incorrect.	Check the parameter settings according to the returned information.
500	CSS.0005	Server error.	Contact technical support.
400	CSS.0006	The request body is empty. Enter a request parameter.	Enter the request parameters.
202	CSS.0011	This operation cannot be performed because another operation is being performed on the instance or the instance is faulty. Please try again later.	Try again later.

Status Code	Error Code	Error Message	Measure
403	CSS.0015	Resource not found or permission denied.	Change the resource ID or check the access permission.
404	CSS.0022	The instance does not exist or has been deleted.	Change the instance ID.
403	CSS.0032	The current user has no operation permissions.	Check the permissions.
400	CSS.0045	The token is incorrect.	Obtain the token again.
400	CSS.1112	The number of instances has reached the quota.	Delete some clusters or increase the quota.
400	CSS.3011	Invalid retention duration of the backup.	Change the allowed retention duration.
404	CSS.3027	The cluster does not exist.	Check whether the cluster ID is correct.
400	CSS.5007	The selected flavor does not exist.	Check whether the specifications are correct.
400	CSS.5009	The hard disk size is beyond the valid range.	Change the disk size.
400	CSS.5014	Invalid VPC ID.	Check whether the VPC ID is correct.
400	CSS.5015	Invalid subnet ID.	Check whether the subnet ID is correct.
400	CSS.5021	The VPC does not exist or does not belong to the user.	Check whether the VPC is correct.
400	CSS.5023	The security group does not exist or does not belong to the VPC.	Check whether the security group is correct.
400	CSS.5157	The CIDR does not exist or is invalid.	Check whether there are subnets in the VPC.
400	CSS.5036	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.	Check whether the number of instances is within the range.
409	CSS.5050	The cluster name already exists.	Change the cluster name.
400	CSS.5052	Invalid value of the AZ.	Change the AZ.

Status Code	Error Code	Error Message	Measure
400	CSS.5055	Invalid flavor.	Modify the specifications.
400	CSS.5061	The hard disk type is invalid.	Change the hard disk type.
400	CSS.5071	The disk type does not match that in the XML configuration file.	Change the hard disk type.
400	CSS.5072	The security group ID is invalid.	Change the security group ID.
400	CSS.5074	The subnet does not belong to the VPC.	Change the subnet ID.
400	CSS.5077	Invalid cluster name.	Change the cluster name.
400	CSS.5078	The hard disk size is beyond the valid range.	Change the disk size.
400	CSS.5092	Invalid hard disk information.	Modify the hard disk information.
400	CSS.5093	Invalid specification information.	Modify the specification information.
412	CSS.5130	The agency name is invalid.	Change the agency name.
500	CSS.9999	Request processing failed.	Contact technical support.
NA	CSS.6000	Clusters fail to be created.	Try again later or contact technical support.
NA	CSS.6001	Cluster scale-out fails.	Try again later or contact technical support.
NA	CSS.6002	Failed to bind the elastic IP address to the cluster.	Try again later or contact technical support.
N/A	CSS.6003	Failed to restore the cluster.	Try again later or contact technical support.
N/A	CSS.6004	Failed to create a node.	Try again later or contact technical support.
N/A	CSS.6005	The initialization fails.	Perform the initialization again or contact technical support.
NA	CSS.6006	Failed to modify the specifications.	Perform the initialization again or contact technical support.

Status Code	Error Code	Error Message	Measure
NA	CSS.6007	Failed to reset the password.	Reset the password.
N/A	CSS.6008	Failed to update the YML file.	Update the .yml file again or contact technical support.
N/A	CSS.6009	Failed to create the snapshot.	Try again later or contact technical support.
N/A	CSS.6010	Failed to restore the snapshot because the OBS object does not exist or has been deleted.	Check whether the configured OBS object exists.
N/A	CSS.6011	Failed to create the snapshot because the OBS bucket you select does not exist or has been deleted.	Check whether the OBS bucket exists.
N/A	CSS.6012	Failed to restore the snapshot because the OBS object does not exist or has been deleted.	Check whether the OBS bucket exists.
N/A	CSS.6013	The parameters cannot be modified because other operations are being performed on the cluster.	Modify parameters when the cluster is available.
N/A	CSS.6014	Some parameters cannot be modified.	Check whether the submitted parameter modification request contains a parameter value that cannot be modified. If yes, delete the parameter and try again.
N/A	CSS.6015	The parameter value is not in YAML format.	Modify the parameter format and try again.

A Change History

Released On	Change History
2024-10-30	This issue is the ninth official release.
2024-04-30	Added: Intelligent O&M APIs
2023-10-30	Added the following topics: • Changing the Security Mode • Changing the Security Group • Public network access APIs • Kibana public network access APIs
2023-05-30	Added the following topics: • Changing a Cluster Name • Changing the Password • Scaling in a Cluster By Removing Specified Nodes • Removing Nodes of a Specific Type • Replacing a Node • Replacing Nodes • Adding Dedicated Master and Client Nodes • Log management APIs
2023-01-30	Updated: **Common Parameters**
2022-10-12	This issue is the fourth official release.

Released On	Change History
2022-05-30	- Modified response parameters in the API for scaling out a cluster. - Optimized: **Endpoints** **Calling APIs** **Supported Cluster Versions** **Obtaining a Project ID and Name**
2021-10-09	This issue is the second official release.
2021-01-30	This issue is the first official release.