

**Log Tank Service**

# **API Reference**

|              |            |
|--------------|------------|
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# Contents

|                                                                             |           |
|-----------------------------------------------------------------------------|-----------|
| <b>1 Before You Start.....</b>                                              | <b>1</b>  |
| <b>2 Calling APIs.....</b>                                                  | <b>3</b>  |
| 2.1 Making an API Request.....                                              | 3         |
| 2.2 Authentication.....                                                     | 7         |
| 2.3 Response.....                                                           | 8         |
| <b>3 API Calling Examples.....</b>                                          | <b>11</b> |
| <b>4 APIs.....</b>                                                          | <b>12</b> |
| 4.1 Host Group Management.....                                              | 12        |
| 4.1.1 Querying Host Information.....                                        | 12        |
| 4.1.2 Querying Host Groups.....                                             | 17        |
| 4.1.3 Creating a Host Group.....                                            | 22        |
| 4.1.4 Deleting a Host Group.....                                            | 26        |
| 4.1.5 Modifying a Host Group.....                                           | 30        |
| 4.2 Log Group Management.....                                               | 34        |
| 4.2.1 Creating a Log Group.....                                             | 34        |
| 4.2.2 Querying All Log Groups of an Account.....                            | 39        |
| 4.2.3 Deleting a Log Group.....                                             | 43        |
| 4.2.4 Modifying a Log Group.....                                            | 46        |
| 4.3 Log Stream Management.....                                              | 51        |
| 4.3.1 Creating a Log Stream.....                                            | 51        |
| 4.3.2 Querying All Log Streams in a Specified Log Group.....                | 56        |
| 4.3.3 Querying Log Streams.....                                             | 59        |
| 4.3.4 Deleting a Log Stream.....                                            | 63        |
| 4.3.5 Modifying a Log Stream.....                                           | 66        |
| 4.3.6 Creating an Index for a Specified Log Stream.....                     | 71        |
| 4.4 Log Management.....                                                     | 76        |
| 4.4.1 Removing a Resource from Favorites.....                               | 76        |
| 4.4.2 Collecting Traffic Statistics on Top N Log Groups or Log Streams..... | 79        |
| 4.4.3 Querying the Log Histogram.....                                       | 84        |
| 4.4.4 Adding a Log to Favorites.....                                        | 89        |
| 4.4.5 Querying Resources by Time Segment.....                               | 93        |
| 4.4.6 Querying Logs.....                                                    | 97        |

|                                                                 |     |
|-----------------------------------------------------------------|-----|
| 4.5 Log Ingestion.....                                          | 109 |
| 4.5.1 Creating a Cross-Account Log Ingestion Configuration..... | 109 |
| 4.5.2 Querying Log Ingestion Configurations.....                | 116 |
| 4.5.3 Creating a Log Ingestion Configuration.....               | 127 |
| 4.5.4 Deleting Log Ingestion Configurations.....                | 144 |
| 4.5.5 Modifying a Log Ingestion Configuration.....              | 153 |
| 4.6 Log Transfer.....                                           | 167 |
| 4.6.1 Creating a Log Transfer Task (Old Version).....           | 168 |
| 4.6.2 Creating a Log Transfer Task (New Version).....           | 173 |
| 4.6.3 Deleting a Log Transfer Task.....                         | 186 |
| 4.6.4 Updating a Log Transfer Task.....                         | 193 |
| 4.6.5 Querying a Log Transfer Task.....                         | 205 |
| 4.7 Log Collection Beyond Free Quota.....                       | 214 |
| 4.7.1 Disabling Log Collection Beyond Free Quota.....           | 214 |
| 4.7.2 Enabling Log Collection Beyond Free Quota.....            | 216 |
| 4.8 Cloud Structuring.....                                      | 219 |
| 4.8.1 Creating Structuring Configurations (Recommended).....    | 219 |
| 4.8.2 Modifying Structuring Configurations (Recommended).....   | 225 |
| 4.8.3 Deleting a Structuring Rule.....                          | 232 |
| 4.8.4 Querying a Structuring Rule.....                          | 236 |
| 4.8.5 Querying the Brief List of Structuring Templates.....     | 241 |
| 4.8.6 Querying a Structuring Template.....                      | 244 |
| 4.9 Alarm Topics.....                                           | 251 |
| 4.9.1 Querying an SMN Topic.....                                | 251 |
| 4.10 Message Template Management.....                           | 255 |
| 4.10.1 Creating a Message Template.....                         | 255 |
| 4.10.2 Modifying a Message Template.....                        | 261 |
| 4.10.3 Querying Message Templates.....                          | 267 |
| 4.10.4 Deleting a Message Template.....                         | 271 |
| 4.10.5 Querying a Message Template.....                         | 273 |
| 4.10.6 Previewing the Email Format of a Message Template.....   | 277 |
| 4.11 Keyword Alarm Rules.....                                   | 281 |
| 4.11.1 Creating a Keyword Alarm Rule.....                       | 281 |
| 4.11.2 Modifying a Keyword Alarm Rule.....                      | 288 |
| 4.11.3 Querying a Keyword Alarm Rule.....                       | 298 |
| 4.11.4 Deleting a Keyword Alarm Rule.....                       | 305 |
| 4.12 Alarm List.....                                            | 308 |
| 4.12.1 Querying the Active or Historical Alarm List.....        | 308 |
| 4.12.2 Deleting an Active Alarm.....                            | 317 |
| 4.13 Tag Management.....                                        | 319 |
| 4.13.1 Tag Management.....                                      | 320 |
| 4.14 Quick Search.....                                          | 323 |

4.14.1 Adding a Quick Search..... 324

4.14.2 Obtaining a Quick Search..... 327

4.14.3 Deleting a Quick Search..... 331

4.14.4 Querying All Quick Searches in a Log Group..... 334

**5 Appendix..... 339**

5.1 Status Codes..... 339

5.2 Error Codes..... 340

5.3 Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID..... 342

# 1 Before You Start

---

Welcome to *Log Tank Service API Reference*. LTS collects log data from hosts and cloud services. By processing massive amounts of logs efficiently, securely, and in real time, LTS provides useful insights for you to optimize the availability and performance of cloud services and applications. It also helps you efficiently perform real-time decision-making, device O&M, and service trend analysis.

## Endpoints

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

## Concepts

- User

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

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

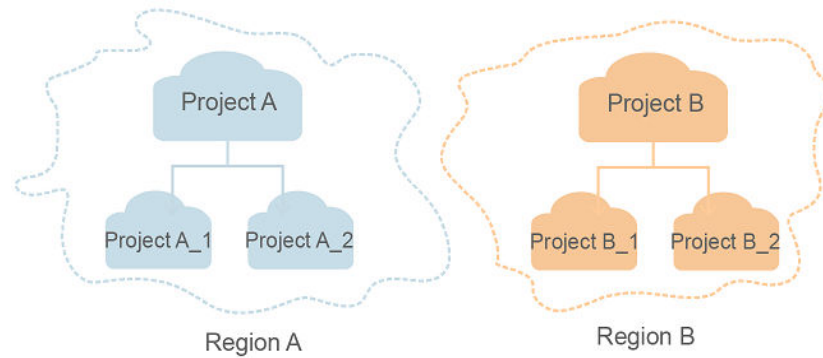
A region is a geographic area in which cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.
- AZ

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

Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can

be granted permissions to access all resources in a specific project. For more refined access control, create sub-projects under a project and create resources in the sub-projects. Users can then be assigned permissions to access only specific resources in the sub-projects.

**Figure 1-1** Project isolating model



# 2 Calling APIs

---

## 2.1 Making an API Request

This section describes the structure of a REST API request, and uses the IAM API for [obtaining a user token](#) as an example to demonstrate how to call an API. The obtained token can then be used to authenticate the calling of other APIs.

### Request URI

A request URI is in the following format:

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

Although a request URI is included in the request header, most programming languages or frameworks require the request URI to be transmitted separately.

- **URI-scheme:**  
Protocol used to transmit requests. All APIs use **HTTPS**.
- **Endpoint:**  
Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from [Regions and Endpoints](#).  
For example, the endpoint of IAM in the AP-Kuala Lumpur region is **iam.my-kualalumpur-1.myhuaweicloud.com**.
- **resource-path:**  
Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the **resource-path** of the API used to obtain a user token is **/v3/auth/tokens**.
- **query-string:**  
Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of "*Parameter name=Parameter value*". For example, **?limit=10** indicates that a maximum of 10 data records will be displayed.



#### NOTE

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

## Request Methods

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

- **GET**: requests a server to return specified resources.
- **PUT**: requests a server to update specified resources.
- **POST**: requests a server to add resources or perform special operations.
- **DELETE**: requests a server to delete specified resources, for example, objects.
- **HEAD**: same as GET except that the server must return only the response header.
- **PATCH**: requests a server to update a part of a specified resource. If the resource does not exist, a new resource will be created.

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

```
POST https://iam.my-kualalumpur-1.cloudalpha4.tnone.com.my/v3/auth/tokens
```

## Request Header

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

Common request header fields are as follows:

**Table 2-1** Common request header fields

| Parameter      | Description                                                                                                                                                                                                                                                                                                         | Mandatory                                               | Example Value                            |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| Host           | Server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of <i>Hostname.Port number</i> . If the port number is not specified, the default port is used. The default port number for <b>https</b> is <b>443</b> . | No<br>This field is mandatory for AK/SK authentication. | code.test.com<br>or<br>code.test.com:443 |
| Content-Type   | Type (or format) of the message body. The default value <b>application/json</b> is recommended. Other values of this field will be provided for specific APIs if any.                                                                                                                                               | Yes                                                     | application/json                         |
| Content-Length | Length of the request body. The unit is byte.                                                                                                                                                                                                                                                                       | No                                                      | 3495                                     |
| X-Project-Id   | Project ID. Obtain the project ID by following the instructions in <a href="#">Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID</a> .                                                                                                                                                          | No                                                      | e9993fc787d94b6c886cb<br>aa340f9c0f4     |

| Parameter    | Description                                                                                                                                                                                                                                                              | Mandatory                                               | Example Value                                                                             |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------|
| X-Auth-Token | User token.<br>It is a response to the API for <a href="#">obtaining a user token</a> . This API is the only one that does not require authentication.<br>After the request is processed, the value of <b>X-Subject-Token</b> in the response header is the token value. | No<br>This field is mandatory for token authentication. | The following is part of an example token:<br>MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ |

 **NOTE**

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

For details, see "AK/SK-based Authentication" in [Authentication](#).

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

```
POST https://iam.my-kualalumpur-1.cloudalpai4.tnone.com.my/v3/auth/tokens
Content-Type: application/json
```

## Request Body (Optional)

This part is optional. A request body is often sent in a structured format (for example, JSON or XML) as defined in the **Content-Type** header field.

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

In the case of the API used to [obtain a user token](#), the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace **username**, **domainname**, **\*\*\*\*\*** (login password), and **xxxxxxxxxxxxxxxxxxx** (project name) with the actual values. Obtain a project name from [Regions and Endpoints](#).

 **NOTE**

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. For details, see [Obtaining a User Token](#).

```
POST https://iam.my-kualalumpur-1.cloudalpai4.tnone.com.my/v3/auth/tokens
Content-Type: application/json
```

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

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

## 2.2 Authentication

You can use either of the following authentication methods when calling APIs:

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair. AK/SK-based authentication is recommended because it is more secure than token-based authentication.

### Token-based Authentication

#### NOTE

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

A token is used to acquire temporary permissions. During API authentication using a token, the token is added to requests to get permissions for calling the API.

You can obtain a token by calling the [Obtaining User Token](#) API. When you call the API, set **auth.scope** in the request body to **project**.

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

```
}
  }
}
},
"scope": {
  "project": {
    "name": "xxxxxxx"
  }
}
}
```

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

```
POST https://iam.my-kualalumpur-1.cloudalpai4.tnone.com.my/v3/auth/tokens
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

## AK/SK-based Authentication

### NOTE

AK/SK-based authentication supports API requests with a body no larger than 12 MB. For API requests with a larger body, you should use token-based authentication.

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

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

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

### NOTICE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

## 2.3 Response

### Status Code

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

A status code is a group of digits, ranging from 1xx to 5xx. It indicates the status of a request. For details, see [Error Codes](#).

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

## Response Header

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

**Figure 1** shows the response header fields for the API used to obtain a user token. The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

**Figure 2-1** Header fields of the response to the request for obtaining a user token

```
connection → keep-alive
content-type → application/json
date → Tue, 12 Feb 2019 06:52:13 GMT
server → Web Server
strict-transport-security → max-age=31536000; includeSubdomains;
transfer-encoding → chunked
via → proxy A
x-content-type-options → nosniff
x-download-options → noopen
x-frame-options → SAMEORIGIN
x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5
x-subject-token → MIIYXQYJKoZIhvcNAQcCoIIYJCCEoCAQExDTALBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjwMTktMDItMTNUMC
fj3KJ56YgKnpVNRbW2eZ5eb78SZOkqJACgklQ1wi4JlGzrpd18LGXK5tdfq4lqHCYb8P4NaY0NYejcAgzIVeFYtLWT1GSO0zxKZmlQHj82HBqHdglZO9fuEbl5dMhdavj+33wEI
xHRCe9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jqglFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3HROzvOvN--n5d6Nbxg==
x-xss-protection → 1; mode=block;
```

## Response Body (Optional)

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

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

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

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

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

In the response body, **error\_code** is an error code, and **error\_msg** provides information about the error.

# 3 API Calling Examples

This section describes how to create a log group by calling APIs.

## NOTE

The token obtained from Identity and Access Management (IAM) is valid for only 24 hours. If you want to use the same token for authentication, cache it to avoid frequent calling of the IAM API.

## Involved APIs

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

- IAM API used to obtain the token
- LTS API used to create a log group

## Procedure

1. Obtain the token by referring to [Making an API Request](#).
2. Send **POST /v2/{project\_id}/groups**.
3. Add **Content-Type** and **X-Auth-Token** to the request header.
4. Specify the following parameters in the request body:

```
POST /v2/{project_id}/groups
{
  "log_group_name":"test001", //Log group name (The parameter is mandatory and its value is a string.)
  "ttl_in_days":"7", //Log expiration time (The value is an integer. Retain the default value.)
}
```

If the request is successful, information about the created log group is returned.

```
{
  "log_group_id":"2a0089e4-3001-11e9-9e9d-286ed48xxx", //Log group ID (The value is a string.)
}
```

If the request fails, an error code and error description are returned. For details, see [Error Codes](#).



# 4 APIs

All API URIs described in this chapter are case-sensitive.

## 4.1 Host Group Management

### 4.1.1 Querying Host Information

#### Function

Query the host list.

#### URI

POST /v3/{project\_id}/lts/host-list

Table 4-1 Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                        |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 1<br>Maximum: 64 |

## Request Parameters

**Table 4-2** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                            |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1</b><br>Maximum: <b>10000</b> |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=utf8</b> .<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                               |

**Table 4-3** Request body parameters

| Parameter    | Mandatory | Type                                     | Description                                                                                |
|--------------|-----------|------------------------------------------|--------------------------------------------------------------------------------------------|
| host_id_list | No        | Array of strings                         | Host ID list. You can filter hosts by host ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |
| filter       | Yes       | <a href="#">GetHostListFilter</a> object | Filters other than host IDs.                                                               |

**Table 4-4** GetHostListFilter

| Parameter      | Mandatory | Type             | Description                                                                                                    |
|----------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------|
| host_name_list | No        | Array of strings | Host name list. You can filter hosts by host name.<br>Minimum: <b>1</b><br>Maximum: <b>128</b>                 |
| host_ip_list   | No        | Array of strings | List of host IP addresses. You can filter hosts by host IP address.<br>Minimum: <b>1</b><br>Maximum: <b>16</b> |

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| host_status  | No        | String | Host status. You can filter hosts by host status. <ul style="list-style-type: none"><li>• <b>uninstall</b>: not installed.</li><li>• <b>running</b>: running.</li><li>• <b>offline</b>: offline.</li><li>• <b>error</b>: abnormal.</li><li>• <b>plugin error</b>: plug-in error.</li><li>• <b>installing</b>: installing.</li><li>• <b>install-fail</b>: Installation failed.</li><li>• <b>upgrading</b>: upgrading.</li><li>• <b>upgrade failed</b>: Upgrade failed.</li><li>• <b>uninstalling</b>: being uninstalled.</li><li>• <b>authentication error</b>: Authentication failed.</li></ul> |
| host_version | No        | String | Host version. You can filter hosts by host version.<br>Minimum: <b>1</b><br>Maximum: <b>16</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Response Parameters

Status code: 200

Table 4-5 Response body parameters

| Parameter | Type                                             | Description            |
|-----------|--------------------------------------------------|------------------------|
| result    | Array of <a href="#">GetHostListInfo</a> objects | Host list.             |
| total     | Long                                             | Total number of hosts. |

Table 4-6 GetHostListInfo

| Parameter | Type   | Description |
|-----------|--------|-------------|
| host_id   | String | Host ID.    |
| host_ip   | String | Host IP.    |

| Parameter    | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| host_name    | String | Host name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| host_status  | String | Host status. <ul style="list-style-type: none"><li>• <b>uninstall</b>: not installed.</li><li>• <b>running</b>: running.</li><li>• <b>offline</b>: offline.</li><li>• <b>error</b>: abnormal.</li><li>• <b>plugin error</b>: plug-in error.</li><li>• <b>installing</b>: installing.</li><li>• <b>install-fail</b>: Installation failed.</li><li>• <b>upgrading</b>: upgrading.</li><li>• <b>upgrade failed</b>: Upgrade failed.</li><li>• <b>uninstalling</b>: being uninstalled.</li><li>• <b>authentication error</b>: Authentication failed.</li></ul> |
| host_type    | String | Host type. <ul style="list-style-type: none"><li>• Windows</li><li>• Linux</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| host_version | String | Host version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| update_time  | Long   | Update time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Status code: 400****Table 4-7** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

**Status code: 500****Table 4-8** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

## Example Requests

Hosts are sorted by filters specified in the request body. If no filters are configured in the body, all host groups are queried.

```
POST https://{endpoint}/v3/{project_id}/lts/host-list
{
  "host_id_list": [ "713a9f81-574b-45aa-92df-24c4caxxxxxx", "c7085aa9-2142-4ada-9f78-bf81ffxxxxxx" ],
  "filter": {
    "host_name_list": [ "ecs-xxxx", "10.66.16xxx" ],
    "host_ip_list": [ "192.168xxxx" ],
    "host_status": "running",
    "host_version": "5.13.xxxx"
  }
}
```

## Example Responses

### Status code: 200

The host query is successful.

```
{
  "result": [ {
    "host_id": "dc1dab7e-b045-4e77-bda4-914xxxxxx",
    "host_ip": "172.16.xxxx",
    "host_name": "ecs-apmtexxxxxx",
    "host_status": "running",
    "host_type": "linux",
    "host_version": "5.13.xx.x",
    "update_time": 1637223314526
  } ],
  "total": 1
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code": "LTS.1807",
  "error_msg": "Invalid host id"
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code": "LTS.0010",
  "error_msg": "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The host query is successful.                                                                    |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 500         | The server has received the request but encountered an internal error. |

## Error Codes

See [Error Codes](#).

## 4.1.2 Querying Host Groups

### Function

Query the host group list.

### URI

POST /v3/{project\_id}/lts/host-group-list

**Table 4-9** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                        |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 1<br>Maximum: 64 |

## Request Parameters

**Table 4-10** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                              |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: 1<br>Maximum: 10000 |

| Parameter    | Mandatory | Type   | Description                                                                                       |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b> |

**Table 4-11** Request body parameters

| Parameter          | Mandatory | Type                                          | Description                                                         |
|--------------------|-----------|-----------------------------------------------|---------------------------------------------------------------------|
| host_group_id_list | No        | Array of strings                              | List of host group IDs.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |
| filter             | Yes       | <a href="#">GetHostGroupListFilter</a> object | Host group filters.                                                 |

**Table 4-12** GetHostGroupListFilter

| Parameter            | Mandatory | Type                                       | Description                                                                            |
|----------------------|-----------|--------------------------------------------|----------------------------------------------------------------------------------------|
| host_group_type      | No        | String                                     | Host group type. <ul style="list-style-type: none"><li>Windows</li><li>Linux</li></ul> |
| host_group_name_list | No        | Array of strings                           | List of host group names.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                   |
| host_name_list       | No        | Array of strings                           | Host name list.<br>Minimum: <b>1</b><br>Maximum: <b>128</b>                            |
| host_group_tag       | No        | <a href="#">GetHostGroupListTag</a> object | Host group tags.                                                                       |

**Table 4-13** GetHostGroupListTag

| Parameter | Mandatory | Type   | Description                                              |
|-----------|-----------|--------|----------------------------------------------------------|
| tag_type  | No        | String | Tag type. Tag filtering logic: <b>AND</b> or <b>OR</b> . |

| Parameter | Mandatory | Type                                          | Description      |
|-----------|-----------|-----------------------------------------------|------------------|
| tag_list  | No        | Array of <a href="#">HostGroupTag</a> objects | Host group tags. |

**Table 4-14** HostGroupTag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                   |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>.:=-@</code> . <i>Do not start with an underscore (<code>_</code>)</i> . Max 128 characters are allowed. |
| value     | No        | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>._:/=-@</code> . Max 255 characters are allowed.                                                       |

## Response Parameters

Status code: 200

**Table 4-15** Response body parameters

| Parameter | Type                                              | Description                  |
|-----------|---------------------------------------------------|------------------------------|
| result    | Array of <a href="#">GetHostGroupInfo</a> objects | Host group list.             |
| total     | Long                                              | Total number of host groups. |

**Table 4-16** GetHostGroupInfo

| Parameter       | Type             | Description      |
|-----------------|------------------|------------------|
| host_group_id   | String           | Host group ID.   |
| host_group_name | String           | Host group name. |
| host_group_type | String           | Host group type. |
| host_id_list    | Array of strings | Host ID list.    |



| Parameter         | Type                                                 | Description       |
|-------------------|------------------------------------------------------|-------------------|
| host_group_tag    | Array of <a href="#">HostGroupTagResBody</a> objects | Tag information.  |
| create_time       | Long                                                 | Creation time.    |
| update_time       | Long                                                 | Update time.      |
| labels            | Array of strings                                     | Host group ID.    |
| agent_access_type | String                                               | Host access type. |

**Table 4-17** HostGroupTagResBody

| Parameter              | Type    | Description                                                                                                      |
|------------------------|---------|------------------------------------------------------------------------------------------------------------------|
| key                    | String  | Tag key.                                                                                                         |
| value                  | String  | Tag value.                                                                                                       |
| tags_to_streams_enable | Boolean | Whether to apply the tag to the log stream. Only a tag of a log group can be directly applied to its log stream. |

**Status code: 400****Table 4-18** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-19** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Host groups are sorted by filters specified in the request body. If no filters are configured in the body, all host groups are queried.

```
POST https://{endpoint}/v3/{project_id}/lts/host-group-list

{
  "host_group_id_list": [ "bca6d903-3528-42a8-91f4-586722cxxxxx" ],
  "filter": {
    "host_group_type": "linux",
    "host_group_name_list": [ "wjyTxxx" ],
    "host_name_list": [ "ecs-apmtexxxdeletion" ],
    "host_group_tag": {
      "tag_type": "AND",
      "tag_list": [ {
        "key": "xxx",
        "value": "xxx",
        "tags_to_streams_enable": true
      } ]
    }
  }
}
```

## Example Responses

### Status code: 200

The host group query is successful.

```
{
  "result": [ {
    "host_group_id": "598c77aa-c69b-42f0-8cb8-xxxx5b38",
    "host_group_name": "wjyTxxx",
    "host_group_type": "linux",
    "host_id_list": [ "dc1dab7e-b04xxxx", "xxxxx" ],
    "host_group_tag": [ {
      "key": "xxx",
      "value": "xxx"
    } ],
    "create_time": 1635459410332,
    "update_time": 163560332
  } ],
  "total": 1
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code": "LTS.1807",
  "error_msg": "Invalid host group id"
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code": "LTS.0010",
  "error_msg": "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The host group query is successful.                                                              |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.1.3 Creating a Host Group

#### Function

Create a host group.

#### URI

POST /v3/{project\_id}/lts/host-group

**Table 4-20** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                        |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 1<br>Maximum: 64 |

## Request Parameters

**Table 4-21** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                            |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1</b><br>Maximum: <b>10000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                      |

**Table 4-22** Request body parameters

| Parameter         | Mandatory | Type                                          | Description                                                                                                                                                                                         |
|-------------------|-----------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| host_group_name   | Yes       | String                                        | Host group name. Use only letters, digits, underscores (_), hyphens (-), and periods (.). Do not start with a period or underscore or end with a period.<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |
| host_group_type   | Yes       | String                                        | Host group type. <ul style="list-style-type: none"><li>Windows</li><li>Linux</li></ul>                                                                                                              |
| host_id_list      | No        | Array of strings                              | List of host group IDs. The host type must be the same as the host group type.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                          |
| host_group_tag    | No        | Array of <a href="#">HostGroupTag</a> objects | Tag information. You can add up to 20 tags.                                                                                                                                                         |
| agent_access_type | No        | String                                        | Host access type. <ul style="list-style-type: none"><li><b>LABEL</b></li><li><b>IP</b></li></ul>                                                                                                    |

| Parameter | Mandatory | Type             | Description                                                                                  |
|-----------|-----------|------------------|----------------------------------------------------------------------------------------------|
| labels    | No        | Array of strings | Host group ID. If the host access type is <b>LABEL</b> , this field saves the host group ID. |

**Table 4-23** HostGroupTag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                    |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . <i>Do not start with an underscore (<code>_</code>)</i> . Max 128 characters are allowed. |
| value     | No        | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . Max 255 characters are allowed.                                                         |

## Response Parameters

Status code: 200

**Table 4-24** Response body parameters

| Parameter         | Type                                                      | Description       |
|-------------------|-----------------------------------------------------------|-------------------|
| host_group_id     | String                                                    | Host group ID.    |
| host_group_name   | String                                                    | Host group name.  |
| host_group_type   | String                                                    | Host group type.  |
| host_id_list      | Array of strings                                          | Host ID list.     |
| host_group_tag    | Array of <a href="#">HostGroupTagResponseBody</a> objects | Tag information.  |
| create_time       | Long                                                      | Creation time.    |
| update_time       | Long                                                      | Update time.      |
| labels            | Array of strings                                          | Host group ID.    |
| agent_access_type | String                                                    | Host access type. |

**Table 4-25** HostGroupTagResBody

| Parameter              | Type    | Description                                                                                                      |
|------------------------|---------|------------------------------------------------------------------------------------------------------------------|
| key                    | String  | Tag key.                                                                                                         |
| value                  | String  | Tag value.                                                                                                       |
| tags_to_streams_enable | Boolean | Whether to apply the tag to the log stream. Only a tag of a log group can be directly applied to its log stream. |

**Status code: 400****Table 4-26** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

**Status code: 500****Table 4-27** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

## Example Requests

Create a host group. Parameters `host_group_name` and `host_group_type` are mandatory.

POST `https://{endpoint}/v3/{project_id}/lts/host-group`

```
{
  "host_group_name": "APIxx3",
  "host_group_type": "linux",
  "host_id_list": [ "dc1dab7e-b045-4e77xxd1bf7", "713a9fxx2df-24c4ca599def" ],
  "host_group_tag": [ {
    "key": "xxx",
    "value": "xxx",
    "tags_to_streams_enable": false
  } ]
}
```

## Example Responses

**Status code: 200**

The host group is created.

```
{
  "host_group_id" : "598c77aa-c69b-42f0-8cb8-983178ad5b38",
  "host_group_name" : "APIxx3",
  "host_group_type" : "linux",
  "host_id_list" : [ "dc1dab7e-b045-4e77-bda4-914d083d1bf7" ],
  "host_group_tag" : [ {
    "key" : "xxx",
    "value" : "xxx",
    "tags_to_streams_enable" : true
  } ],
  "create_time" : 1635149410332,
  "update_time" : 1635149410332
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.1812",
  "error_msg" : "Invalid host group id"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The host group is created.                                                                       |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.1.4 Deleting a Host Group

#### Function

Delete a host group.

## URI

DELETE /v3/{project\_id}/lts/host-group

**Table 4-28** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                      |
|------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |

## Request Parameters

**Table 4-29** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                            |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1</b><br>Maximum: <b>10000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                      |

**Table 4-30** Request body parameters

| Parameter          | Mandatory | Type             | Description                                                         |
|--------------------|-----------|------------------|---------------------------------------------------------------------|
| host_group_id_list | Yes       | Array of strings | List of host group IDs.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Response Parameters

**Status code: 200**



**Table 4-31** Response body parameters

| Parameter | Type                                              | Description                                                                 |
|-----------|---------------------------------------------------|-----------------------------------------------------------------------------|
| result    | Array of <a href="#">GetHostGroupInfo</a> objects | Host group details.                                                         |
| total     | Long                                              | Number of deleted host groups.<br>Minimum: <b>0</b><br>Maximum: <b>1000</b> |

**Table 4-32** GetHostGroupInfo

| Parameter         | Type                                                 | Description       |
|-------------------|------------------------------------------------------|-------------------|
| host_group_id     | String                                               | Host group ID.    |
| host_group_name   | String                                               | Host group name.  |
| host_group_type   | String                                               | Host group type.  |
| host_id_list      | Array of strings                                     | Host ID list.     |
| host_group_tag    | Array of <a href="#">HostGroupTagResBody</a> objects | Tag information.  |
| create_time       | Long                                                 | Creation time.    |
| update_time       | Long                                                 | Update time.      |
| labels            | Array of strings                                     | Host group ID.    |
| agent_access_type | String                                               | Host access type. |

**Table 4-33** HostGroupTagResBody

| Parameter              | Type    | Description                                                                                                      |
|------------------------|---------|------------------------------------------------------------------------------------------------------------------|
| key                    | String  | Tag key.                                                                                                         |
| value                  | String  | Tag value.                                                                                                       |
| tags_to_streams_enable | Boolean | Whether to apply the tag to the log stream. Only a tag of a log group can be directly applied to its log stream. |

**Status code: 400**

**Table 4-34** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

**Status code: 500****Table 4-35** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

## Example Requests

Delete one or multiple host groups at a time.

```
DELETE https://{endpoint}/v3/{project_id}/lts/host-group
/v3/{project_id}/lts/host-group
{"host_group_id_list":["xxx","xxx"]}
```

## Example Responses

**Status code: 200**

Host groups are deleted.

```
{
  "result": [{
    "host_group_id": "598c77aa-c69b-42f0-8cb8-xxxx5b38",
    "host_group_name": "devspou1",
    "host_group_type": "linux",
    "host_id_list": ["dc1dab7e-b04xxx", "xxxx"],
    "host_group_tag": [{
      "key": "xxx",
      "value": "xxx"
    }, {
      "key": "xxx",
      "value": "xxx"
    }
  ],
  "create_time": 1635xx9410332,
  "update_time": 163xx0332
},
  "total": 1
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.1812",
  "error_msg" : "Invalid host group id"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Host groups are deleted.                                                                         |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.1.5 Modifying a Host Group

### Function

Modify a host group.

### URI

PUT /v3/{project\_id}/lts/host-group

**Table 4-36** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                      |
|------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |

## Request Parameters

**Table 4-37** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                            |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1</b><br>Maximum: <b>10000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                      |

**Table 4-38** Request body parameters

| Parameter       | Mandatory | Type                                          | Description                                                                                                                                                                                         |
|-----------------|-----------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| host_group_id   | Yes       | String                                        | Host group ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                          |
| host_group_name | No        | String                                        | Host group name. Use only letters, digits, underscores (_), hyphens (-), and periods (.). Do not start with a period or underscore or end with a period.<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |
| host_id_list    | No        | Array of strings                              | Host ID list. The host type must be the same as the host group type.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                    |
| host_group_tag  | No        | Array of <a href="#">HostGroupTag</a> objects | Host group tags. A key must be unique. Up to 20 keys are allowed.                                                                                                                                   |

**Table 4-39** HostGroupTag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                     |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . <i>Do not start with an underscore</i> ( <code>_</code> ). Max 128 characters are allowed. |
| value     | No        | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . Max 255 characters are allowed.                                                          |

## Response Parameters

Status code: 200

**Table 4-40** Response body parameters

| Parameter       | Type                                          | Description      |
|-----------------|-----------------------------------------------|------------------|
| host_group_id   | String                                        | Host group ID.   |
| host_group_name | String                                        | Host group name. |
| host_group_type | String                                        | Host group type. |
| host_id_list    | Array of strings                              | Host ID list.    |
| host_group_tag  | Array of <a href="#">HostGroupTag</a> objects | Tag information. |
| create_time     | Long                                          | Creation time.   |
| update_time     | Long                                          | Update time.     |

**Table 4-41** HostGroupTag

| Parameter | Type   | Description                                                                                                                                                                                     |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . <i>Do not start with an underscore</i> ( <code>_</code> ). Max 128 characters are allowed. |

| Parameter | Type   | Description                                                                                                              |
|-----------|--------|--------------------------------------------------------------------------------------------------------------------------|
| value     | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: _./=-@. Max 255 characters are allowed. |

**Status code: 400**

**Table 4-42** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

**Status code: 500**

**Table 4-43** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

## Example Requests

Update a host group. Parameter `host_group_id` is mandatory.

```
PUT https://{endpoint}/v3/{project_id}/lts/host-group
```

```
{
  "host_group_id": "xxxxxx",
  "host_group_name": "qweqwe",
  "host_id_list": [ "host_id_1", "host_id_2" ],
  "host_group_tag": [ {
    "key": "xxx",
    "value": "xxx"
  } ]
}
```

## Example Responses

**Status code: 200**

The host group is modified.

```
{
  "host_group_id": "xxxxxx",
  "host_group_name": "qweqwe",
  "host_group_type": "linux",
}
```

```
{
  "host_id_list" : [ "host_id_1", "host_id_2" ],
  "host_group_tag" : [ {
    "key" : "xxx",
    "value" : "xxx"
  } ],
  "create_time" : 16351494332,
  "update_time" : 16351494332
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.1807",
  "error_msg" : "Invalid host group id"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The host group is modified.                                                                      |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.2 Log Group Management

### 4.2.1 Creating a Log Group

#### Function

This API is used to create a log group.

#### URI

POST /v2/{project\_id}/groups

**Table 4-44** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-45** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |



**Table 4-46** Request body parameters

| Parameter            | Mandatory | Type                             | Description                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_group_name       | Yes       | String                           | Name of the log group to be created.<br>The configuration rules are as follows:<br>A name can contain 1 to 64 characters, including only letters, digits, underscores (_), hyphens (-), and periods (.). It cannot start with a period or underscore or end with a period.<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |
| ttl_in_days          | Yes       | Integer                          | Log retention duration.<br>(Default: 30 days)<br>Minimum: <b>1</b><br>Maximum: <b>365</b>                                                                                                                                                                                                                             |
| tags                 | No        | Array of <b>tagsBody</b> objects | Tag field information.                                                                                                                                                                                                                                                                                                |
| log_group_name_alias | No        | String                           | Log group alias.                                                                                                                                                                                                                                                                                                      |

**Table 4-47** tagsBody

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                           |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>.:/+@</code> . <i>Do not start with an underscore (</i> <code>_</code> <i>).</i> Max 128 characters are allowed. |
| value     | Yes       | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>._:/+=@</code> . Max 255 characters are allowed.                                                               |

## Response Parameters

**Status code: 201**

**Table 4-48** Response body parameters

| Parameter    | Type   | Description                                                              |
|--------------|--------|--------------------------------------------------------------------------|
| log_group_id | String | ID of the created log group.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

**Status code: 400****Table 4-49** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401****Table 4-50** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-51** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-52** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error code. |

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| error_msg | String | Error message. |

**Status code: 503**

**Table 4-53** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Creating a log group

```
POST https://{endpoint}/v2/{project_id}/groups
```

```
{
  "log_group_name": "lts-group-01nh",
  "ttl_in_days": 7
}
```

## Example Responses

**Status code: 201**

The request is successful and the log group has been created.

```
{
  "log_group_id": "b6b9332b-091f-4b22-b810-264318d2d664"
}
```

**Status code: 400**

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code": "LTS.0009",
  "error_msg": "Failed to validate the request body"
}
```

**Status code: 401**

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code": "LTS.0003",
  "error_msg": "Invalid token"
}
```

**Status code: 403**

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0102",
  "error_msg" : "Failed to create log group"
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 201         | The request is successful and the log group has been created.                                                                                                                                |
| 400         | BadRequest. The request is invalid. Modify the request based on the description in <b>error_msg</b> before a retry.                                                                          |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                            |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                               |
| 503         | ServiceUnavailable.<br>The requested service is unavailable.                                                                                                                                 |

## Error Codes

See [Error Codes](#).

## 4.2.2 Querying All Log Groups of an Account

### Function

This API is used to query all log groups of an account.

### URI

GET /v2/{project\_id}/groups

**Table 4-54** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-55** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

Status code: 200

**Table 4-56** Response body parameters

| Parameter  | Type                                      | Description            |
|------------|-------------------------------------------|------------------------|
| log_groups | Array of <a href="#">LogGroup</a> objects | Log group information. |

**Table 4-57** LogGroup

| Parameter      | Type               | Description                                                                |
|----------------|--------------------|----------------------------------------------------------------------------|
| creation_time  | Long               | Log group creation time.                                                   |
| log_group_name | String             | Log group name.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                 |
| log_group_id   | String             | Log group ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                  |
| ttl_in_days    | Integer            | Log retention duration (days).<br>Minimum: <b>1</b><br>Maximum: <b>365</b> |
| tag            | Map<String,String> | Log group tag.                                                             |

**Status code: 401****Table 4-58** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-59** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-60** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Querying All Log Groups of an Account

```
GET https://{endpoint}/v2/{project_id}/groups
/v2/{project_id}/groups
```

## Example Responses

### Status code: 200

The request is successful.

```
{
  "log_groups" : [ {
    "creation_time" : 1630547141853,
    "log_group_name" : "lts-group-01nh",
    "log_group_id" : "b6b9332b-091f-4b22-b810-264318d2d664",
    "ttl_in_days" : 7
  } ]
}
```

### Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

### Status code: 403

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

### Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                                                                                                                   |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                            |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                               |

## Error Codes

See [Error Codes](#).

### 4.2.3 Deleting a Log Group

#### Function

This API is used to delete a specified log group. If log transfer is enabled for log streams in a log group, you need to disable the log transfer before the deletion.

#### URI

DELETE /v2/{project\_id}/groups/{log\_group\_id}

**Table 4-61** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |



| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                           |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_group_id | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-62** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code: 400**

**Table 4-63** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401**

**Table 4-64** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-65** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-66** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Deleting a log group

```
DELETE https://{endpoint}/v2/{project_id}/groups/{log_group_id}
/v2/{project_id}/groups/{log_group_id}
```

## Example Responses

**Status code: 400**

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.0201",
  "error_msg" : "The log group is not existed"
}
```

**Status code: 401**

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
```

```
{
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0103",
  "error_msg" : "Failed to delete log group"
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 204         | The request is successful and the log group has been deleted.                                                                                                                                  |
| 400         | BadRequest. The request is invalid. Modify the request based on the description in <b>error_msg</b> before a retry.                                                                            |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                              |
| 403         | Forbidden. The request has been rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                                 |

## Error Codes

See [Error Codes](#).

### 4.2.4 Modifying a Log Group

#### Function

This API is used to modify the log retention duration of a specified log group.

## URI

POST /v2/{project\_id}/groups/{log\_group\_id}

**Table 4-67** Path Parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                           |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id   | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>     |
| log_group_id | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-68** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-69** Request body parameters

| Parameter   | Mandatory | Type                             | Description                                                                            |
|-------------|-----------|----------------------------------|----------------------------------------------------------------------------------------|
| ttl_in_days | Yes       | Integer                          | Log retention duration (days).<br>Minimum value: <b>1</b><br>Maximum value: <b>365</b> |
| tags        | No        | Array of <b>tagsBody</b> objects | Tag field information.                                                                 |

**Table 4-70** tagsBody

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                     |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>.:=-@</code> .<br><i>Do not start with an underscore (<code>_</code>).</i> Max 128 characters are allowed. |
| value     | Yes       | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>._:/=-@</code> .<br>Max 255 characters are allowed.                                                      |

## Response Parameters

**Status code: 200**

**Table 4-71** Response body parameters

| Parameter      | Type    | Description                                                       |
|----------------|---------|-------------------------------------------------------------------|
| creation_time  | Long    | Indicates the time when a log group was created, in milliseconds. |
| log_group_name | String  | Log group name.                                                   |
| log_group_id   | String  | Log group ID.                                                     |
| ttl_in_days    | Integer | Log retention period.                                             |

**Status code: 400**

**Table 4-72** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401****Table 4-73** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-74** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-75** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Modifying a log group

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}
{
  "ttl_in_days" : 8
}
```

## Example Responses

### Status code: 200

The request is successful and the log group has been modified.

```
{
  "creation_time" : 156541515155541,
  "log_group_name" : "groupName",
  "log_group_id" : "b6b9332b-091f-4b22-b810-264318d2",
  "ttl_in_days" : 8
}
```

### Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

### Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0414",
  "error_msg" : "Invalid token"
}
```

### Status code: 403

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

### Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0102",
  "error_msg" : "Failed to update log group"
}
```

## Status Codes

| Status Code | Description                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------|
| 200         | The request is successful and the log group has been modified.                                                      |
| 400         | BadRequest. The request is invalid. Modify the request based on the description in <b>error_msg</b> before a retry. |

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                            |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                               |

## Error Codes

See [Error Codes](#).

## 4.3 Log Stream Management

### 4.3.1 Creating a Log Stream

#### Function

This API is used to create a log stream in a specified log group.

#### URI

POST /v2/{project\_id}/groups/{log\_group\_id}/streams

**Table 4-76** Path Parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                           |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id   | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b>     |
| log_group_id | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |



## Request Parameters

**Table 4-77** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-78** Request body parameters

| Parameter             | Mandatory | Type                                      | Description                                                                      |
|-----------------------|-----------|-------------------------------------------|----------------------------------------------------------------------------------|
| log_stream_name       | Yes       | String                                    | Name of the log stream to be created.<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |
| ttl_in_days           | No        | Integer                                   | Log retention duration.<br>Minimum value: <b>1</b><br>Maximum value: <b>365</b>  |
| tags                  | No        | Array of <a href="#">tagsBody</a> objects | Tag field information.                                                           |
| log_stream_name_alias | No        | String                                    | Log stream alias.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                     |

| Parameter               | Mandatory | Type   | Description                                                                                                                                                                                                                                                                           |
|-------------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enterprise_project_name | No        | String | Enterprise project name.<br><b>NOTE</b><br>A project name can only contain letters, digits, underscores (_), and hyphens (-). It cannot contain the word <b>default</b> in any form.<br>The description can contain up to 512 characters.<br>Minimum: <b>1</b><br>Maximum: <b>255</b> |

**Table 4-79** tagsBody

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                           |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>.:=-@</code> . <i>Do not start with an underscore (</i> <code>_</code> <i>).</i> Max 128 characters are allowed. |
| value     | Yes       | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>_.:/=-@</code> . Max 255 characters are allowed.                                                               |

## Response Parameters

**Status code: 201**

**Table 4-80** Response body parameters

| Parameter     | Type   | Description                   |
|---------------|--------|-------------------------------|
| log_stream_id | String | ID of the created log stream. |

**Status code: 400**

**Table 4-81** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401****Table 4-82** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-83** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-84** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

### Creating a log stream

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams
{
  "log_stream_name": "lts-stream-02kh"
}
```

## Example Responses

### Status code: 201

The request is successful and the log stream has been created.

```
{
  "log_stream_id" : "c54dbc58-0fd8-48ed-b007-6d54981427a7"
}
```

### Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

### Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

### Status code: 403

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

### Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0202",
  "error_msg" : "Failed to create Log stream"
}
```

## Status Codes

| Status Code | Description                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------|
| 201         | The request is successful and the log stream has been created.                                                      |
| 400         | BadRequest. The request is invalid. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                   |

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                               |

## Error Codes

See [Error Codes](#).

### 4.3.2 Querying All Log Streams in a Specified Log Group

#### Function

This API is used to query information about all log streams in a specified log group.

#### URI

GET /v2/{project\_id}/groups/{log\_group\_id}/streams

**Table 4-85** Path Parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                           |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id   | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b>     |
| log_group_id | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-86** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code: 200**

**Table 4-87** Response body parameters

| Parameter   | Type                                              | Description |
|-------------|---------------------------------------------------|-------------|
| log_streams | Array of <a href="#">LogStreamResBody</a> objects | Log stream. |

**Table 4-88** LogStreamResBody

| Parameter       | Type               | Description                               |
|-----------------|--------------------|-------------------------------------------|
| creation_time   | Long               | Creation time.                            |
| log_stream_id   | String             | Log stream ID.                            |
| log_stream_name | String             | Log stream name.                          |
| tag             | Map<String,String> | Log stream tags.                          |
| filter_count    | Integer            | Number of filters.                        |
| is_favorite     | Boolean            | Whether to add a log stream to favorites. |

**Status code: 401****Table 4-89** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-90** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-91** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Querying All Log Streams in a Specified Log Group

```
GET https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams
/v2/{project_id}/groups/{log_group_id}/streams
```

## Example Responses

**Status code: 200**

The request is successful.

```
{
  "log_streams" : [ {
    "creation_time" : 1630549842955,
    "log_stream_name" : "lts-stream-02kh",
    "log_stream_id" : "c54dbc58-0fd8-48ed-b007-6d54981427a7",
    "filter_count" : 0
  } ]
}
```

**Status code: 401**

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

**Status Codes**

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                                                                                                                   |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                            |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                               |

**Error Codes**

See [Error Codes](#).

### 4.3.3 Querying Log Streams

**Function**

This API is used to query log streams.



## URI

GET /v2/{project\_id}/log-streams

**Table 4-92** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

**Table 4-93** Query Parameters

| Parameter       | Mandatory | Type   | Description                                                 |
|-----------------|-----------|--------|-------------------------------------------------------------|
| log_group_name  | No        | String | Log group name.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>  |
| log_stream_name | No        | String | Log stream name.<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |

## Request Parameters

**Table 4-94** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code: 200**

**Table 4-95** Response body parameters

| Parameter   | Type                                                   | Description         |
|-------------|--------------------------------------------------------|---------------------|
| log_streams | Array of <a href="#">LogStreamNolsFavorite</a> objects | List of log groups. |

**Table 4-96** LogStreamNolsFavorite

| Parameter       | Type               | Description                        |
|-----------------|--------------------|------------------------------------|
| creation_time   | Long               | Time when a log stream is created. |
| log_stream_id   | String             | Log stream ID.                     |
| log_stream_name | String             | Log stream name.                   |
| tag             | Map<String,String> | Log stream tag.                    |
| filter_count    | Integer            | Number of filters.                 |

**Status code: 400**

**Table 4-97** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-98** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

If you leave the request body empty, all log streams are queried. If **log\_group\_name** and **log\_stream\_name** are specified, the corresponding log stream is queried.

```
GET https://{endpoint}/v2/{project_id}/log-streams
/v2/{project_id}/log-streams /v2/{project_id}/log-streams?log_group_name=lds-group-txxxx
/v2/{project_id}/log-streams?log_stream_name=lds-xunjian-topic-xxxx
/v2/{project_id}/log-streams?log_stream_name=lds-xunjian-topic-xxxx&log_group_name=lds-group-xxx
```

## Example Responses

### Status code: 200

Log stream information is returned.

```
{
  "log_streams": [ {
    "creation_time": 1633600371062,
    "log_stream_name": "lds-topic-test2",
    "tag": {
      "_sys_enterprise_project_id": "0",
      "W": "J"
    },
    "filter_count": 0,
    "log_stream_id": "c4de0538-53e6-41fd-b951-a8669fce58d7"
  } ]
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code": "LTS.0205",
  "error_msg": "The log stream name has been existed"
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code": "LTS.0010",
  "error_msg": "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Log stream information is returned.                                                              |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.3.4 Deleting a Log Stream

#### Function

This API is used to delete a specified log stream from a specified log group. If log transfer is enabled for a log stream, you need to disable the log transfer before the deletion.

#### URI

DELETE /v2/{project\_id}/groups/{log\_group\_id}/streams/{log\_stream\_id}

**Table 4-99** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                                             |
|---------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b>       |
| log_group_id  | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>   |
| log_stream_id | Yes       | String | Log stream ID. For details about how to obtain a log stream ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-100** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code: 400**

**Table 4-101** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401**

**Table 4-102** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403**

**Table 4-103** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-104** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Deleting a log stream

```
DELETE https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}
/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}
```

## Example Responses

**Status code: 400**

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.0208",
  "error_msg" : "The log stream does not existed"
}
```

**Status code: 401**

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0203",
  "error_msg" : "Failed to delete Log stream"
}
```

**Status Codes**

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 204         | The request is successful and the log stream has been deleted.                                                                                                                               |
| 400         | BadRequest. The request is invalid. Modify the request based on the description in <b>error_msg</b> before a retry.                                                                          |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                            |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                               |

**Error Codes**

See [Error Codes](#).

**4.3.5 Modifying a Log Stream****Function**

This API is used to modify the log retention duration of a specified log stream.

**URI**

PUT /v2/{project\_id}/groups/{log\_group\_id}/streams-ttl/{log\_stream\_id}

**Table 4-105** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                                                                     |
|---------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum length: 36 characters.<br>Maximum length: 36 characters.       |
| log_group_id  | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum length: 36 characters.<br>Maximum length: 36 characters.   |
| log_stream_id | Yes       | String | Log stream ID. For details about how to obtain a log stream ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum length: 36 characters.<br>Maximum length: 36 characters. |

## Request Parameters

**Table 4-106** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                   |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum length: 1000 characters; Maximum length: 2000 characters. |



| Parameter    | Mandatory | Type   | Description                                                                                                                        |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Set this parameter to <b>application/json; charset=UTF-8</b> .<br>Minimum length: 30 characters.<br>Maximum length: 30 characters. |

**Table 4-107** Request body parameters

| Parameter   | Mandatory | Type                             | Description                                                                |
|-------------|-----------|----------------------------------|----------------------------------------------------------------------------|
| ttl_in_days | Yes       | Integer                          | Log retention duration (days).<br>Minimum: <b>1</b><br>Maximum: <b>365</b> |
| tags        | No        | Array of <b>tagsBody</b> objects | Tag field information.                                                     |

**Table 4-108** tagsBody

| Parameter | Mandatory | Type   | Description                                                                                                                                                                      |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./:=+@</code> . <i>Do not start with an underscore ()</i> . Max 128 characters are allowed. |
| value     | Yes       | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./:=+@</code> . Max 255 characters are allowed.                                           |

## Response Parameters

Status code: 200

**Table 4-109** Response body parameters

| Parameter      | Type    | Description                        |
|----------------|---------|------------------------------------|
| creation_time  | Long    | Time when a log stream is created. |
| log_topic_name | String  | Name of a log stream.              |
| log_topic_id   | String  | Log stream ID.                     |
| ttl_in_days    | Integer | Log retention duration (days).     |

**Status code: 400****Table 4-110** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401****Table 4-111** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-112** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-113** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Modify a log stream.

```
PUT https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams-ttl/{log_stream_id}
{
  "ttl_in_days" : 8
}
```

## Example Responses

### Status code: 200

The request has succeeded and the log group has been modified.

```
{
  "creation_time" : 1629947408497,
  "log_topic_name" : "string",
  "log_topic_id" : "string",
  "ttl_in_days" : 8
}
```

### Status code: 400

BadRequest. Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

### Status code: 401

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0414",
  "error_msg" : "Invalid token"
}
```

### Status code: 403

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

### Status code: 500

InternalServerError. The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0204",
  "error_msg" : "Failed to update log stream"
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | The request has succeeded and the log group has been modified.                                                                                                                           |
| 400         | BadRequest. Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry.                                                                             |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                        |
| 403         | Forbidden. The request is rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError. The server has received the request but encountered an internal error.                                                                                              |
| 503         | ServiceUnavailable. The requested service is unavailable.                                                                                                                                |

## Error Codes

See [Error Codes](#).

### 4.3.6 Creating an Index for a Specified Log Stream

#### Function

This API is used to create an index for a specified log stream.

#### URI

POST /v1.0/{project\_id}/groups/{group\_id}/stream/{stream\_id}/index/config

**Table 4-114** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                             |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>       |
| group_id   | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>   |
| stream_id  | Yes       | String | Log stream ID. For details about how to obtain a log stream ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-115** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> . |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=UTF-8</b> .                                                            |

**Table 4-116** Request body parameters

| Parameter   | Mandatory | Type   | Description    |
|-------------|-----------|--------|----------------|
| logStreamId | No        | String | Log stream ID. |

| Parameter     | Mandatory | Type                                           | Description                       |
|---------------|-----------|------------------------------------------------|-----------------------------------|
| fullTextIndex | Yes       | <a href="#">LTSFullTextIndexInfo</a> object    | Full-text indexing configuration. |
| fields        | No        | Array of <a href="#">LTSFieldsInfo</a> objects | Field indexing configuration.     |

**Table 4-117** LTSFullTextIndexInfo

| Parameter      | Mandatory | Type             | Description                                                   |
|----------------|-----------|------------------|---------------------------------------------------------------|
| enable         | Yes       | Boolean          | Whether to enable full-text indexing.                         |
| caseSensitive  | Yes       | Boolean          | Whether the value of the field is case-sensitive.             |
| includeChinese | Yes       | Boolean          | Whether Chinese characters are contained.                     |
| tokenizer      | Yes       | String           | Custom delimiter.<br>Minimum: <b>0</b><br>Maximum: <b>128</b> |
| ascii          | No        | Array of strings | Special delimiter.<br>Minimum: <b>1</b><br>Maximum: <b>3</b>  |

**Table 4-118** LTSFieldsInfo

| Parameter      | Mandatory | Type    | Description                                             |
|----------------|-----------|---------|---------------------------------------------------------|
| fieldType      | Yes       | String  | Field type.                                             |
| fieldName      | Yes       | String  | Field name.<br>Minimum: <b>1</b><br>Maximum: <b>256</b> |
| caseSensitive  | No        | Boolean | Whether the value of the field is case-sensitive.       |
| includeChinese | No        | Boolean | Whether Chinese characters are contained.               |

| Parameter     | Mandatory | Type             | Description                                            |
|---------------|-----------|------------------|--------------------------------------------------------|
| tokenizer     | Yes       | String           | Delimiter.<br>Minimum: <b>0</b><br>Maximum: <b>128</b> |
| quickAnalysis | No        | Boolean          | Whether to enable quick analysis.                      |
| ascii         | No        | Array of strings | Special delimiter.                                     |

## Response Parameters

**Status code: 200**

**Table 4-119** Response body parameters

| Parameter       | Type    | Description                    |
|-----------------|---------|--------------------------------|
| errorCode       | String  | Error code.                    |
| errorMessage    | String  | Error message.                 |
| result          | String  | Result.                        |
| isQueryComplete | Boolean | Whether the query is complete. |

**Status code: 400**

**Table 4-120** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401**

**Table 4-121** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-122** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

This API is used to create an index for a specified log stream.

POST https://{endpoint}/v1.0/{project\_id}/groups/{group\_id}/stream/{stream\_id}/index/config

```
{
  "logStreamId" : "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
  "fullTextIndex" : {
    "enable" : true,
    "caseSensitive" : false,
    "includeChinese" : true,
    "tokenizer" : ", \"';=()[]{}@&<>:/:\\n\\t\\r\"
  },
  "fields" : [ {
    "fieldType" : "long",
    "fieldName" : "fieldName1"
  }, {
    "fieldType" : "string",
    "fieldName" : "fieldName2",
    "caseSensitive" : false,
    "includeChinese" : true,
    "tokenizer" : "",
    "quickAnalysis" : true
  } ]
}
```

## Example Responses

**Status code: 200**

Indexing is added successfully.

```
{
  "errorCode" : "SVCSTG.ALS.200200",
  "errorMessage" : "add or update indexConfig successfully",
  "isQueryComplete" : true,
  "result" : "493d04ce-5130-4b07-88be-c5ae3b50bccb"
}
```

**Status code: 400**

Incorrect request parameter . Modify the parameter based on the response body.

```
{
  "errorCode" : "SVCSTG.ALS.200201",
  "errorMessage" : "IndexConfigInfo check failed.",
  "isQueryComplete" : true
}
```

**Status code: 401**

Authentication failed. Check whether the authentication information has expired.



```
{
  "error_msg": "Incorrect IAM authentication information: decrypt token fail",
  "error_code": "APIGW.0301",
  "request_id": "b16cc9d789f34cd5196d8df065341788"
}
```

**Status code: 500**

The service backend has received the request, but an internal processing error occurs.

```
{
  "error_code": "LTS.0203",
  "error_msg": "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                            |
|-------------|----------------------------------------------------------------------------------------|
| 200         | Indexing is added successfully.                                                        |
| 400         | Incorrect request parameter . Modify the parameter based on the response body.         |
| 401         | Authentication failed. Check whether the authentication information has expired.       |
| 500         | The service backend has received the request, but an internal processing error occurs. |

## Error Codes

See [Error Codes](#).

## 4.4 Log Management

### 4.4.1 Removing a Resource from Favorites

#### Function

This API is used to remove a specified resource from favorites.

#### URI

DELETE /v1.0/{project\_id}/lts/favorite/{fav\_res\_id}

**Table 4-123** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| fav_res_id | Yes       | String | ID of a favorite resource, including its log group or stream.                                                                                                                                     |

## Request Parameters

**Table 4-124** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                            |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1</b><br>Maximum: <b>10000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                      |

## Response Parameters

**Status code: 200**

**Table 4-125** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-126** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

**Status code: 400****Table 4-127** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-128** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

**Status code: 500****Table 4-129** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-130** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

## Example Requests

Removing from Favorites

DELETE /v1.0/{project\_id}/lts/favorite/{fav\_res\_id}

## Example Responses

### Status code: 200

Removed from favorites.

```
none
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0009",
    "details" : "update favorite failed"
  }
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Removed from favorites.                                                                          |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.4.2 Collecting Traffic Statistics on Top N Log Groups or Log Streams

### Function

This API is used to collect traffic statistics on top n log groups or log streams.

### URI

POST /v2/{project\_id}/lts/topn-traffic-statistics

**Table 4-131** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-132** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-133** Request body parameters

| Parameter     | Mandatory | Type    | Description                                                                                                |
|---------------|-----------|---------|------------------------------------------------------------------------------------------------------------|
| end_time      | Yes       | Long    | End timestamp, in milliseconds.                                                                            |
| is_desc       | Yes       | Boolean | Whether to sort data in descending order ( <b>true</b> or <b>false</b> ).                                  |
| resource_type | Yes       | String  | Resource type.<br><b>log_group</b> : log group<br><b>log_stream</b> : log stream<br><b>tenant</b> : tenant |

| Parameter   | Mandatory | Type               | Description                                                                                                                                                                                                                                                       |
|-------------|-----------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sort_by     | Yes       | String             | Sorting. Data to be sorted must exist in <b>search_list</b> .<br><b>index</b> : index<br><b>write</b> : read and write<br><b>storage</b> : storage                                                                                                                |
| start_time  | Yes       | Long               | Start timestamp of the query, in milliseconds. A maximum of 30 days are supported.                                                                                                                                                                                |
| topn        | Yes       | Integer            | Number of data records to be queried. The value ranges from 1 to 100.                                                                                                                                                                                             |
| filter      | Yes       | Map<String,String> | Filter, which is in a map structure with keys as filtering attributes and values as attribute values. It does not support fuzzy match. The format for filter criteria is {"key": "xxxxxx"}, where <b>key</b> can be <b>log_group_id</b> or <b>log_stream_id</b> . |
| search_list | Yes       | Array of strings   | Query data type. Multiple string arrays can be used together.<br><b>index</b> : index<br><b>write</b> : read and write<br><b>storage</b> : storage                                                                                                                |

## Response Parameters

Status code: 200

Table 4-134 Response body parameters

| Parameter | Type                                             | Description      |
|-----------|--------------------------------------------------|------------------|
| results   | Array of <a href="#">ResultsTopnBody</a> objects | Response result. |

**Table 4-135** ResultsTopnBody

| Parameter             | Type   | Description                                                                                                   |
|-----------------------|--------|---------------------------------------------------------------------------------------------------------------|
| index_traffic         | Double | Index traffic, in bytes. This parameter is returned when the queried data type contains <b>index</b> .        |
| storage               | Double | Storage capacity, in bytes. This parameter is returned when the queried data type contains <b>storage</b> .   |
| write_traffic         | Double | Write traffic, in bytes. This parameter is returned when the queried data type contains <b>write</b> .        |
| log_group_id          | String | Log group ID. This parameter is returned when the resource type is log group.                                 |
| log_group_name        | String | Log group name. This parameter is returned when the resource type is log group.                               |
| log_stream_id         | String | Log stream ID. This parameter is returned when the resource type is log stream.                               |
| log_stream_name       | String | Log stream name. This parameter is returned when the resource type is log stream.                             |
| log_group_name_alias  | String | Log group alias, which is the same as the log group name by default. The alias is preferentially displayed.   |
| log_stream_name_alias | String | Log stream alias, which is the same as the log stream name by default. The alias is preferentially displayed. |

**Status code: 400****Table 4-136** Response body parameters

| Parameter    | Type   | Description    |
|--------------|--------|----------------|
| errorCode    | String | Error code.    |
| errorMessage | String | Error message. |

**Status code: 500**

**Table 4-137** Response body parameters

| Parameter    | Type   | Description    |
|--------------|--------|----------------|
| errorCode    | String | Error code.    |
| errorMessage | String | Error message. |

## Example Requests

### Collecting Traffic Statistics on Top N Log Groups or Log Streams

```
POST /v2/2a473356cca5487f8373be891bffc1cf/lts/topn-traffic-statistics
```

```
{
  "sort_by" : "storage",
  "is_desc" : true,
  "resource_type" : "log_stream",
  "filter" : { },
  "start_time" : 1668668183969,
  "end_time" : 1669272983969,
  "search_list" : [ "index", "write", "storage" ],
  "topn" : 100
}
```

## Example Responses

**Status code: 200**

Query succeeded.

```
{
  "results" : [ {
    "index_traffic" : 0,
    "log_stream_id" : "6fd93d47-7630-4284-a622-311d0082f6bb",
    "log_stream_name" : "cmdb-cce-cluster",
    "storage" : 59810657587,
    "write_traffic" : 0
  }, {
    "index_traffic" : 0,
    "log_stream_id" : "504ec3dd-ac28-4783-babb-22a49f36afe3",
    "log_stream_name" : "CMSkaifatest",
    "storage" : 20033606015,
    "write_traffic" : 0
  }, {
    "index_traffic" : 6825703991,
    "log_stream_id" : "a14dadb0-5a13-43a8-89a3-ea5424d95133",
    "log_stream_name" : "ELB",
    "storage" : 15659303771,
    "write_traffic" : 1.3651407982E9
  }, {
    "index_traffic" : 302172889,
    "log_stream_id" : "25fe7494-7395-438e-8340-647613673ffa",
    "log_stream_name" : "LTStest-916-statefulset",
    "storage" : 316552589,
    "write_traffic" : 6.04345778E7
  }, {
    "index_traffic" : 0,
    "log_stream_id" : "956586fc-b828-44be-8672-0a323962a8fa",
    "log_stream_name" : "mongodb_slow",
    "storage" : 0,
    "write_traffic" : 0
  }
]
}
```



**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "errorCode" : "LTS.0208",
  "errorMessage" : "The log stream does not existed"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "errorCode" : "LTS.0203",
  "errorMessage" : "Internal Server Error"
}
```

**Status Codes**

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Query succeeded.                                                                                 |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

**Error Codes**

See [Error Codes](#).

### 4.4.3 Querying the Log Histogram

**Function**

This API is used to query the distribution of reported log events that contain a specified keyword over a certain period. If no keyword is specified, the distribution of all log events reported over the period is returned.

**URI**

POST /v2/{project\_id}/lts/keyword-count

**Table 4-138** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-139** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-140** Request body parameters

| Parameter  | Mandatory | Type   | Description                                               |
|------------|-----------|--------|-----------------------------------------------------------|
| start_time | Yes       | String | Start time, which is a timestamp accurate to millisecond. |
| end_time   | Yes       | String | End time, which is a timestamp accurate to millisecond.   |

| Parameter     | Mandatory | Type    | Description                                                                                                                                                                                                                                          |
|---------------|-----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| step_interval | Yes       | Long    | Time step, in milliseconds (ms).<br>Recommended formula:<br>(end_time-start_time)/1000 x 1000/60, where /1000 x 1000 means rounding to an integer.<br><b>NOTE</b><br>If the calculated result is less than or equal to 1000, the value 1000 is used. |
| group_id      | Yes       | String  | Log group ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                                                                            |
| stream_id     | Yes       | String  | Log stream ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                                                                           |
| key_word      | Yes       | String  | A keyword is a word between two adjacent delimiters.                                                                                                                                                                                                 |
| is_iterative  | No        | Boolean | Whether the log query is iterative. The default value is <b>false</b> , indicating that the log query is not iterative.                                                                                                                              |

## Response Parameters

Status code: 200

**Table 4-141** Response body parameters

| Parameter       | Type                                                | Description                    |
|-----------------|-----------------------------------------------------|--------------------------------|
| count           | Long                                                | Number of logs.                |
| histogram       | Map<String, <a href="#">HistogramResponseBody</a> > | Histogram result.              |
| isQueryComplete | Boolean                                             | Whether the query is complete. |

**Table 4-142** HistogramResponseBody

| Parameter       | Type                             | Description                    |
|-----------------|----------------------------------|--------------------------------|
| count           | Long                             | Total number of log events.    |
| histogram       | <a href="#">histogram</a> object | Log histogram.                 |
| isQueryComplete | Boolean                          | Whether the query is complete. |

**Table 4-143** histogram

| Parameter | Type   | Description                                  |
|-----------|--------|----------------------------------------------|
| num       | Long   | Number of log events in a time range.        |
| startTime | String | Start time of a time range, in milliseconds. |
| endTime   | String | End time of a time range, in milliseconds.   |

**Status code: 400****Table 4-144** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-145** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Querying the log histogram

```
POST https://{endpoint}/v2/{project_id}/lts/keyword-count
```

```
{  
  "group_id" : "00330565-5baf-4e0d-bd16-ba0c6b951d9a",  
}
```

```
{
  "stream_id" : "715cda3b-e17f-492a-a6ca-98a1ba16ad8c",
  "end_time" : 1637820813605,
  "start_time" : 1637817213605,
  "key_word" : "test",
  "step_interval" : 6000
}
```

## Example Responses

### Status code: 200

The query is successful.

```
{
  "count" : 1,
  "histogram" : [ {
    "num" : 1,
    "startTime" : 1637821594579,
    "endTime" : 1637821595000
  }, {
    "num" : 0,
    "startTime" : 1637821654000,
    "endTime" : 1637821654579
  } ],
  "isQueryComplete" : true
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.0601",
  "error_msg" : "must be less than or equal to 86400000"
}
```

### Status code: 500

InternalServerError. The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0202",
  "error_msg" : "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The query is successful.                                                                         |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | InternalServerError. The server has received the request but encountered an internal error.      |

## Error Codes

See [Error Codes](#).

### 4.4.4 Adding a Log to Favorites

#### Function

This API is used to add a log to favorites.

#### URI

POST /v1.0/{project\_id}/lts/favorite

**Table 4-146** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |

#### Request Parameters

**Table 4-147** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> . |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=utf8</b> .                                                             |

**Table 4-148** Request body parameters

| Parameter            | Mandatory | Type   | Description            |
|----------------------|-----------|--------|------------------------|
| eps_id               | No        | String | Enterprise project ID. |
| favorite_resource_id | Yes       | String | Favorite resource ID.  |

| Parameter              | Mandatory | Type    | Description                                                                                                                       |
|------------------------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------|
| favorite_resource_type | Yes       | String  | Favorite resource type. <ul style="list-style-type: none"><li>• <b>LOG_STREAM</b></li><li>• <b>LOG_GROUP</b></li></ul>            |
| log_group_id           | Yes       | String  | Log group ID.                                                                                                                     |
| log_group_name         | No        | String  | Log group name.                                                                                                                   |
| log_stream_id          | Yes       | String  | Log stream ID.                                                                                                                    |
| log_stream_name        | No        | String  | Log stream name.                                                                                                                  |
| is_global              | Yes       | Boolean | Whether global favorites are supported. This parameter must be set to <b>true</b> . Otherwise, logs cannot be added to favorites. |

## Response Parameters

Status code: 201

**Table 4-149** Response body parameters

| Parameter              | Type    | Description                                                          |
|------------------------|---------|----------------------------------------------------------------------|
| create_time            | Integer | Creation time.                                                       |
| eps_id                 | String  | Enterprise project ID.                                               |
| favorite_resource_id   | String  | Favorite resource ID.                                                |
| favorite_resource_type | String  | Favorite resource type.                                              |
| log_group_id           | String  | Log group ID.                                                        |
| log_group_name         | String  | Log group name.                                                      |
| log_stream_id          | String  | Log stream ID.                                                       |
| log_stream_name        | String  | Log stream name.                                                     |
| project_id             | String  | Project ID.                                                          |
| is_global              | Boolean | Whether to enable the function of adding logs to favorites.          |
| log_group_name_alias   | String  | Log group alias, which is the same as the log group name by default. |

| Parameter                 | Type   | Description                                                            |
|---------------------------|--------|------------------------------------------------------------------------|
| log_stream_name<br>_alias | String | Log stream alias, which is the same as the log stream name by default. |

Status code: 400

Table 4-150 Response body parameters

| Parameter | Type                    | Description         |
|-----------|-------------------------|---------------------|
| message   | ErrorMessagebody object | Error message body. |

Table 4-151 ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

Status code: 500

Table 4-152 Response body parameters

| Parameter | Type                    | Description         |
|-----------|-------------------------|---------------------|
| message   | ErrorMessagebody object | Error message body. |

Table 4-153 ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

## Example Requests

Adding a Log to Favorites

```
POST /v1.0/2a473356cca5487f8373be891bffc1cf/lts/favorite
{
```



```
"log_group_id" : "d91fff37-9d10-47f1-85de-c2840724908f",
"log_group_name" : "lts-group-sgq1",
"log_stream_id" : "f2fb0a2d-d4cd-4bc9-ac12-93c6d255883c",
"log_stream_name" : "lts-topic-xxxxtest",
"eps_id" : "0",
"favorite_resource_id" : "f2fb0a2d-d4cd-4bc9-ac12-93c6d255883c",
"favorite_resource_type" : "log_stream",
"is_global" : true
}
```

## Example Responses

### Status code: 201

A log is added to favorites.

```
{
  "create_time" : 1669018970929,
  "eps_id" : "0",
  "favorite_resource_id" : "f2fb0a2d-d4cd-4bc9-ac12-93c6d255883c",
  "is_global" : true,
  "favorite_resource_type" : "LOG_STREAM",
  "log_group_id" : "d91fff37-9d10-47f1-85de-c2840724908f",
  "log_group_name" : "lts-group-sgq1",
  "log_stream_id" : "f2fb0a2d-d4cd-4bc9-ac12-93c6d255883c",
  "log_stream_name" : "lts-topic-xxxxtest",
  "project_id" : "2a473356cca5487f8373be891bffc1cf"
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0603",
    "details" : "group or stream not exist"
  }
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 201         | A log is added to favorites.                                                                     |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.4.5 Querying Resources by Time Segment

#### Function

This API is used to query resources by time segment.

#### URI

POST /v2/{project\_id}/lts/timeline-traffic-statistics

**Table 4-154** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |

**Table 4-155** Query Parameters

| Parameter | Mandatory | Type   | Description                                                                                   |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------|
| timezone  | Yes       | String | Time zone, for example, <b>Asia/Shanghai</b> , <b>Europe/Paris</b> , or <b>Africa/Cairo</b> . |

## Request Parameters

**Table 4-156** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=UTF-8</b> .<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                |

**Table 4-157** Request body parameters

| Parameter     | Mandatory | Type    | Description                                                                                                                                                                                                        |
|---------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| start_time    | Yes       | Long    | Start timestamp of the query, in milliseconds. A maximum of 30 days are supported.                                                                                                                                 |
| end_time      | Yes       | Long    | End timestamp, in milliseconds.                                                                                                                                                                                    |
| period        | Yes       | Integer | Query interval, in hours. The value ranges from 1 to 24.                                                                                                                                                           |
| resource_type | Yes       | String  | Resource type: The value is log_group / log_stream / tenant.                                                                                                                                                       |
| search_type   | Yes       | String  | Type of traffic to be queried: <b>write</b> , <b>index</b> , or <b>storage</b> .                                                                                                                                   |
| resource_id   | No        | String  | Resource ID.<br>When resource type is set to <b>log_group</b> , <b>resource_id</b> indicates the log group ID.<br>When resource type is set to <b>log_stream</b> , <b>resource_id</b> indicates the log stream ID. |

## Response Parameters

**Status code: 200**

**Table 4-158** Response body parameters

| Parameter | Type                            | Description      |
|-----------|---------------------------------|------------------|
| results   | Array of <b>Results</b> objects | Response result. |

**Table 4-159** Results

| Parameter | Type   | Description                 |
|-----------|--------|-----------------------------|
| timestamp | Long   | Timestamp, in milliseconds. |
| value     | Double | Traffic, in bytes.          |

**Status code: 400**

**Table 4-160** Response body parameters

| Parameter    | Type   | Description    |
|--------------|--------|----------------|
| errorCode    | String | Error code.    |
| errorMessage | String | Error message. |

**Status code: 500**

**Table 4-161** Response body parameters

| Parameter    | Type   | Description    |
|--------------|--------|----------------|
| errorCode    | String | Error code.    |
| errorMessage | String | Error message. |

## Example Requests

Querying Resources by Time Segment

```
POST v2/2a473356cca5487f8373be891bffc1cf/lts/timeline-traffic-statistics?timezone=XX/XX
{
  "start_time" : 1668614400000,
  "end_time" : 1668787200000,
  "search_type" : "write",
```

```
{
  "period" : 1,
  "resource_type" : "tenant"
}
```

## Example Responses

### Status code: 200

Query succeeded.

```
{
  "results" : [ {
    "timestamp" : 1669046400000,
    "value" : 8.24859442E7
  }, {
    "timestamp" : 1669071600000,
    "value" : 0
  }, {
    "timestamp" : 1669161600000,
    "value" : 9.06895742E7
  }, {
    "timestamp" : 1669215600000,
    "value" : 8.81524816E7
  } ]
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "errorCode" : "LTS.0009",
  "errorMessage" : "resource_id must not be empty"
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "errorCode" : "LTS.0203",
  "errorMessage" : "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Query succeeded.                                                                                 |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.4.6 Querying Logs

### Function

This API is used to query logs in a specified log stream.

### URI

POST /v2/{project\_id}/groups/{log\_group\_id}/streams/{log\_stream\_id}/content/  
query

**Table 4-162** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                                             |
|---------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b>       |
| log_group_id  | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>   |
| log_stream_id | Yes       | String | Log stream ID. For details about how to obtain a log stream ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-163** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-164** Request body parameters

| Parameter  | Mandatory | Type               | Description                                                                                                 |
|------------|-----------|--------------------|-------------------------------------------------------------------------------------------------------------|
| start_time | Yes       | String             | UTC start time of the search window (in milliseconds).<br><b>NOTE</b><br>Maximum query time range: 180 days |
| end_time   | Yes       | String             | UTC end time of the search window (in milliseconds).<br><b>NOTE</b><br>Maximum query time range: 180 days   |
| labels     | No        | Map<String,String> | Filter criteria, which vary between log sources.                                                            |
| keywords   | No        | String             | Keyword used for log search. A keyword is a word between two adjacent delimiters, for example, error.       |

| Parameter   | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| line_num    | No        | String  | Sequence number of a log event. This parameter is not required for the first query, but is required for subsequent pagination queries. The value can be obtained from the response of the last query. The value of <b>line_num</b> should be between the values of <b>start_time</b> and <b>end_time</b> . If the custom time function is enabled, you need to use both this field and the <b>time</b> field to perform pagination query.<br>Minimum: <b>19</b><br>Maximum: <b>19</b> |
| __time__    | No        | String  | If the custom time function is enabled, use both this field and the <b>line_num</b> field for pagination queries. The parameter values can be obtained from the returned information of the last query.                                                                                                                                                                                                                                                                               |
| is_desc     | No        | Boolean | Whether the search order is descending. The default value is <b>false</b> (ascending). You can also set the value to <b>true</b> (descending).                                                                                                                                                                                                                                                                                                                                        |
| search_type | No        | String  | The value is <b>init</b> (default value) for the first query, or <b>forwards</b> or <b>backwards</b> for a pagination query. This parameter is used together with <b>is_desc</b> for pagination queries. The value can be <b>forwards</b> or <b>backwards</b> .                                                                                                                                                                                                                       |
| limit       | No        | Integer | Number of logs to be queried each time. The value is <b>50</b> when this parameter is not set. You are advised to set this parameter to <b>100</b> .<br>Minimum: <b>1</b><br>Maximum: <b>5000</b>                                                                                                                                                                                                                                                                                     |



| Parameter    | Mandatory | Type    | Description                                                                                                                                        |
|--------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| highlight    | No        | Boolean | Whether the keyword is highlighted. The default value is <b>true</b> (highlighted). You can also set the value to <b>false</b> (not highlighted).  |
| is_count     | No        | Boolean | Whether the number of log events is counted. The default value is <b>false</b> (not counted). You can also set the value to <b>true</b> (counted). |
| is_iterative | No        | Boolean | Whether the log query is iterative. The default value is <b>false</b> (not iterative). You can also set the value to <b>true</b> (iterative).      |

## Response Parameters

Status code: 200

Table 4-165 Response body parameters

| Parameter       | Type                                         | Description                              |
|-----------------|----------------------------------------------|------------------------------------------|
| logs            | Array of <a href="#">LogContents</a> objects | Log information.                         |
| count           | Integer                                      | Number of logs.                          |
| isQueryComplete | Boolean                                      | Indicates whether the query is complete. |

Table 4-166 LogContents

| Parameter | Type               | Description                                                               |
|-----------|--------------------|---------------------------------------------------------------------------|
| content   | String             | Raw log data.                                                             |
| line_num  | String             | Sequence number of a log line.                                            |
| labels    | Map<String,String> | Labels contained in a log event. The labels vary depending on log events. |

Status code: 400

**Table 4-167** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401****Table 4-168** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-169** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-170** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

- Querying logs

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query
{
  "start_time" : 1595659200000,
  "end_time" : 1595659500000,
  "labels" : {
    "hostName" : "ecs-kwxtest"
  },
  "keywords" : "log",
```

```
"limit" : 10,  
"is_count" : true  
}
```

- Querying logs for the first time

POST v2/{project\_id}/groups/{log\_group\_id}/streams/{log\_stream\_id}/content/query

```
{  
  "start_time" : 1595659200000,  
  "end_time" : 1595659500000,  
  "labels" : {  
    "hostName" : "ecs-kwxtest"  
  },  
  "keywords" : "log",  
  "line_num" : "1595659490239433658",  
  "is_desc" : "false",  
  "search_type" : "forwards",  
  "limit" : "3",  
  "is_count" : true  
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 6**, **NO 7**, and **NO 8** are the target log events):

POST v2/{project\_id}/groups/{log\_group\_id}/streams/{log\_stream\_id}/content/query '

```
{  
  "start_time" : 1595659200000,  
  "end_time" : 1595659500000,  
  "labels" : {  
    "hostName" : "ecs-kwxtest"  
  },  
  "keywords" : "log",  
  "line_num" : "1595659490239433658",  
  "is_desc" : "true",  
  "search_type" : "backwards",  
  "limit" : "3",  
  "is_count" : true  
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 8**, **NO 7**, and **NO 6** are the target log events):

POST v2/{project\_id}/groups/{log\_group\_id}/streams/{log\_stream\_id}/content/query

```
{  
  "start_time" : 1595659200000,  
  "end_time" : 1595659500000,  
  "labels" : {  
    "hostName" : "ecs-kwxtest"  
  },  
  "keywords" : "log",  
  "line_num" : "1595659490239433658",  
  "is_desc" : "false",  
  "search_type" : "backwards",  
  "limit" : "3",  
  "is_count" : true  
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 2**, **NO 3**, and **NO 4** are the target log events):

POST v2/{project\_id}/groups/{log\_group\_id}/streams/{log\_stream\_id}/content/query '

```
{  
  "start_time" : 1595659200000,  
  "end_time" : 1595659500000,  
  "labels" : {
```

```
"hostName" : "ecs-kwxtest"
},
"keywords" : "log",
"line_num" : "1595659490239433658",
"is_desc" : "true",
"search_type" : "forwards",
"limit" : "3",
"is_count" : true
}
```

## Example Responses

### Status code: 200

The request is successful.

- Querying logs for the first time

```
{
  "count" : 32,
  "logs" : [ {
    "content" : "2020-07-25/14:44:42 this <HighLightTag>log</HighLightTag> is Error NO 1",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433654"
  }, {
    "content" : "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433655"
  }, {
    "content" : "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433656"
  }, {
    "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",
    "labels" : {
      "hostName" : "ecs-kwxtest",
```

```
"hostIP" : "192.168.0.156",
"appName" : "default_appname",
"containerName" : "CONFIG_FILE",
"clusterName" : "CONFIG_FILE",
"hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
"podName" : "default_procname",
"clusterId" : "CONFIG_FILE",
"nameSpace" : "CONFIG_FILE",
"category" : "LTS"
},
"line_num" : "1595659490239433657"
}, {
"content" : "2020-07-25/14:44:46 this <HighLightTag>log</HighLightTag> is Error NO 5",
"labels" : {
"hostName" : "ecs-kwxtest",
"hostIP" : "192.168.0.156",
"appName" : "default_appname",
"containerName" : "CONFIG_FILE",
"clusterName" : "CONFIG_FILE",
"hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
"podName" : "default_procname",
"clusterId" : "CONFIG_FILE",
"nameSpace" : "CONFIG_FILE",
"category" : "LTS"
},
"line_num" : "1595659490239433658"
}, {
"content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
"labels" : {
"hostName" : "ecs-kwxtest",
"hostIP" : "192.168.0.156",
"appName" : "default_appname",
"containerName" : "CONFIG_FILE",
"clusterName" : "CONFIG_FILE",
"hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
"podName" : "default_procname",
"clusterId" : "CONFIG_FILE",
"nameSpace" : "CONFIG_FILE",
"category" : "LTS"
},
"line_num" : "1595659490239433659"
}, {
"content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
"labels" : {
"hostName" : "ecs-kwxtest",
"hostIP" : "192.168.0.156",
"appName" : "default_appname",
"containerName" : "CONFIG_FILE",
"clusterName" : "CONFIG_FILE",
"hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
"podName" : "default_procname",
"clusterId" : "CONFIG_FILE",
"nameSpace" : "CONFIG_FILE",
"category" : "LTS"
},
"line_num" : "1595659490239433660"
}, {
"content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
"labels" : {
"hostName" : "ecs-kwxtest",
"hostIP" : "192.168.0.156",
"appName" : "default_appname",
"containerName" : "CONFIG_FILE",
"clusterName" : "CONFIG_FILE",
"hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
"podName" : "default_procname",
"clusterId" : "CONFIG_FILE",
"nameSpace" : "CONFIG_FILE",
"category" : "LTS"
}
```

```
    },
    "line_num" : "1595659490239433661"
  }, {
    "content" : "2020-07-25/14:44:50 this <HighLightTag>log</HighLightTag> is Error NO 9",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490839420574"
  }, {
    "content" : "2020-07-25/14:44:51 this <HighLightTag>log</HighLightTag> is Error NO 10",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659491839412667"
  }
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 6**, **NO 7**, and **NO 8** are the target log events):

```
{
  "count" : 32,
  "logs" : [ {
    "content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433659"
  }, {
    "content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
  },
```

```
"line_num" : "1595659490239433660"
}, {
  "content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433661"
}
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 8**, **NO 7**, and **NO 6** are the target log events):

```
{
  "count" : 32,
  "logs" : [ {
    "content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433661"
  }, {
    "content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433660"
  }, {
    "content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433659"
  }
]
```

```
    }  
  }  
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 2**, **NO 3**, and **NO 4** are the target log events):

```
{  
  "count" : 32,  
  "logs" : [ {  
    "content" : "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",  
    "labels" : {  
      "hostName" : "ecs-kwxtest",  
      "hostIP" : "192.168.0.156",  
      "appName" : "default_appname",  
      "containerName" : "CONFIG_FILE",  
      "clusterName" : "CONFIG_FILE",  
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",  
      "podName" : "default_procname",  
      "clusterId" : "CONFIG_FILE",  
      "nameSpace" : "CONFIG_FILE",  
      "category" : "LTS"  
    },  
    "line_num" : "1595659490239433655"  
  }, {  
    "content" : "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",  
    "labels" : {  
      "hostName" : "ecs-kwxtest",  
      "hostIP" : "192.168.0.156",  
      "appName" : "default_appname",  
      "containerName" : "CONFIG_FILE",  
      "clusterName" : "CONFIG_FILE",  
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",  
      "podName" : "default_procname",  
      "clusterId" : "CONFIG_FILE",  
      "nameSpace" : "CONFIG_FILE",  
      "category" : "LTS"  
    },  
    "line_num" : "1595659490239433656"  
  }, {  
    "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",  
    "labels" : {  
      "hostName" : "ecs-kwxtest",  
      "hostIP" : "192.168.0.156",  
      "appName" : "default_appname",  
      "containerName" : "CONFIG_FILE",  
      "clusterName" : "CONFIG_FILE",  
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",  
      "podName" : "default_procname",  
      "clusterId" : "CONFIG_FILE",  
      "nameSpace" : "CONFIG_FILE",  
      "category" : "LTS"  
    },  
    "line_num" : "1595659490239433657"  
  } ]  
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 4**, **NO 3**, and **NO 2** are the target log events):

```
{  
  "count" : 32,  
  "logs" : [ {  
    "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",  
    "labels" : {  
      "hostName" : "ecs-kwxtest",  
      "hostIP" : "192.168.0.156",  
      "appName" : "default_appname",  
      "containerName" : "CONFIG_FILE",  
      "clusterName" : "CONFIG_FILE",  
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",  
      "podName" : "default_procname",  
      "clusterId" : "CONFIG_FILE",  
      "nameSpace" : "CONFIG_FILE",  
      "category" : "LTS"  
    },  
    "line_num" : "1595659490239433657"  
  } ]  
}
```



```
{
  "clusterName": "CONFIG_FILE",
  "hostId": "9787ef31-fd7b-4eff-ba71-72d580f11f55",
  "podName": "default_procname",
  "clusterId": "CONFIG_FILE",
  "nameSpace": "CONFIG_FILE",
  "category": "LTS"
},
"line_num": "1595659490239433657"
}, {
  "content": "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",
  "labels": {
    "hostName": "ecs-kwxtest",
    "hostIP": "192.168.0.156",
    "appName": "default_appname",
    "containerName": "CONFIG_FILE",
    "clusterName": "CONFIG_FILE",
    "hostId": "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName": "default_procname",
    "clusterId": "CONFIG_FILE",
    "nameSpace": "CONFIG_FILE",
    "category": "LTS"
  },
  "line_num": "1595659490239433656"
}, {
  "content": "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",
  "labels": {
    "hostName": "ecs-kwxtest",
    "hostIP": "192.168.0.156",
    "appName": "default_appname",
    "containerName": "CONFIG_FILE",
    "clusterName": "CONFIG_FILE",
    "hostId": "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName": "default_procname",
    "clusterId": "CONFIG_FILE",
    "nameSpace": "CONFIG_FILE",
    "category": "LTS"
  },
  "line_num": "1595659490239433655"
}
}]
}
```

**Status code: 400**

Bad request. The request is invalid or the query statement is incorrect. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code": "LTS.0009",
  "error_msg": "Failed to validate the request body"
}
```

**Status code: 401**

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code": "LTS.0003",
  "error_msg": "Invalid token"
}
```

**Status code: 403**

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

```
{
  "error_code": "LTS.0001",
}
```

```
"error_msg" : "Invalid projectId"
}
```

**Status code: 500**

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0202",
  "error_msg" : "Failed to query lts log"
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                                                                                                                   |
| 400         | Bad request. The request is invalid or the query statement is incorrect. Modify the request based on the description in <b>error_msg</b> before a retry.                                     |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                            |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                               |

## Error Codes

See [Error Codes](#).

## 4.5 Log Ingestion

### 4.5.1 Creating a Cross-Account Log Ingestion Configuration

#### Function

This API is used to create a cross-account log ingestion configuration.

#### URI

POST /v2.0/{project\_id}/lts/createAgencyAccess

**Table 4-171** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                        |
|------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 1<br>Maximum: 64 |

## Request Parameters

**Table 4-172** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                              |
|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: 1<br>Maximum: 10000 |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=utf8</b> .<br>Minimum: 30<br>Maximum: 30                                                               |

**Table 4-173** Request body parameters

| Parameter           | Mandatory | Type                                                           | Description                |
|---------------------|-----------|----------------------------------------------------------------|----------------------------|
| preview_agency_list | Yes       | Array of <a href="#">PreviewAgencyLogAccessReqBody</a> objects | Preview of the proxy list. |

**Table 4-174** PreviewAgencyLogAccessReqBody

| Parameter               | Mandatory | Type   | Description                                     |
|-------------------------|-----------|--------|-------------------------------------------------|
| agency_access_type      | Yes       | String | Log ingestion type.                             |
| agency_log_access       | Yes       | String | Cross-account log ingestion configuration name. |
| log_agencyStream_name   | Yes       | String | Delegator log stream name.                      |
| log_agencyStream_id     | Yes       | String | Delegator log stream ID.                        |
| log_agencyGroup_name    | Yes       | String | Delegator log group name.                       |
| log_agencyGroup_id      | Yes       | String | Delegator log group ID.                         |
| log_beAgencyStream_name | Yes       | String | Delegatee log stream name.                      |
| log_beAgencyStream_id   | Yes       | String | Delegatee log stream ID.                        |
| log_beAgencyGroup_name  | Yes       | String | Delegatee log group name.                       |
| log_beAgencyGroup_id    | Yes       | String | Delegatee log group ID.                         |
| be_agency_project_id    | Yes       | String | Delegatee project ID.                           |
| agency_project_id       | Yes       | String | Delegator project ID.                           |
| agency_domain_name      | Yes       | String | Delegator account name.                         |
| agency_name             | Yes       | String | Agency name.                                    |

## Response Parameters

**Status code: 201**

**Table 4-175** Response body parameters

| Parameter                      | Type                                                          | Description                                                               |
|--------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|
| LTSAgencyAccess-ConfigInfoList | Array of <a href="#">LTSAccessConfigInfoRespon200</a> objects | Response list for creating a log ingestion configuration across accounts. |

**Table 4-176** LTSAccessConfigInfoRespon200

| Parameter          | Type                                                 | Description                             |
|--------------------|------------------------------------------------------|-----------------------------------------|
| access_config_id   | String                                               | Cross-account log ingestion ID.         |
| project_id         | String                                               | Project ID.                             |
| access_config_name | String                                               | Cross-account log ingestion name.       |
| access_config_type | Object                                               | Cross-account log ingestion type.       |
| group_id           | String                                               | Log group ID.                           |
| log_group_name     | String                                               | Log group name.                         |
| log_stream_id      | String                                               | Log stream ID.                          |
| log_stream_name    | String                                               | Log stream name.                        |
| create_time        | Long                                                 | Creation time.                          |
| agency_log_access  | <a href="#">PreviewAgencyLogAccessReqBody</a> object | Information of the delegated ingestion. |

**Table 4-177** PreviewAgencyLogAccessReqBody

| Parameter             | Type   | Description                                     |
|-----------------------|--------|-------------------------------------------------|
| agency_access_type    | String | Log ingestion type.                             |
| agency_log_access     | String | Cross-account log ingestion configuration name. |
| log_agencyStream_name | String | Delegator log stream name.                      |
| log_agencyStream_id   | String | Delegator log stream ID.                        |

| Parameter               | Type   | Description                |
|-------------------------|--------|----------------------------|
| log_agencyGroup_name    | String | Delegator log group name.  |
| log_agencyGroup_id      | String | Delegator log group ID.    |
| log_beAgencystream_name | String | Delegatee log stream name. |
| log_beAgencystream_id   | String | Delegatee log stream ID.   |
| log_beAgencygroup_name  | String | Delegatee log group name.  |
| log_beAgencygroup_id    | String | Delegatee log group ID.    |
| be_agency_project_id    | String | Delegatee project ID.      |
| agency_project_id       | String | Delegator project ID.      |
| agency_domain_name      | String | Delegator account name.    |
| agency_name             | String | Agency name.               |

**Status code: 400****Table 4-178** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-179** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

**Status code: 500**

**Table 4-180** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-181** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

## Example Requests

Creating a cross-account log ingestion configuration

POST https://{endpoint}/v2.0/{project\_id}/lts/createAgencyAccess

```
{
  "preview_agency_list": [ {
    "agency_log_access": "rule_lb30",
    "agency_access_type": "AGENCYACCESS",
    "agency_name": "wenshufeng",
    "agency_domain_name": "paas_aom_z00418070_01",
    "agency_project_id": "a0a12b069ab4491185d7cf26c3e86ada",
    "be_agency_project_id": "2a473356cca5487f8373be891bffc1cf",
    "log_agencyStream_name": "lts-topic-bug",
    "log_agencyStream_id": "beb169ff-e6e9-4bea-8e77-50afdec74071",
    "log_agencyGroup_name": "lts-group-sgq",
    "log_agencyGroup_id": "f06cbfa0-7243-4031-9380-ae0465bd3997",
    "log_beAgencystream_name": "lts-topic-ECS",
    "log_beAgencystream_id": "36ce06b0-c6bf-436d-9abe-39de86da28bb",
    "log_beAgencygroup_name": "lts-group-sgqECS",
    "log_beAgencygroup_id": "1e749063-d9f5-474f-a537-00cad4e9a108"
  } ]
}
```

## Example Responses

**Status code: 201**

The cross-account log ingestion configuration is created.

```
[ {
  "access_config_id": "e929f40e-d1cf-4d59-b656-a2995cbd3229",
  "access_config_name": "rule_lb30",
  "access_config_type": "AGENCYACCESS",
  "agency_log_access": {
    "agency_accessConfig_id": "e929f40e-d1cf-4d59-b656-a2995cbd3229",
    "agency_access_type": "AGENCYACCESS",
    "agency_domain_name": "paas_aom_z00418070_01",
    "agency_log_access": "rule_lb30",
    "agency_name": "wenshufeng",
    "agency_project_id": "a0a12b069ab4491185d7cf26c3e86ada",
    "be_agency_project_id": "2a473356cca5487f8373be891bffc1cf",
    "log_agencyGroup_id": "f06cbfa0-7243-4031-9380-ae0465bd3997",
    "log_agencyGroup_name": "lts-group-sgq",

```

```
"log_agencyStream_id" : "beb169ff-e6e9-4bea-8e77-50afdec74071",
"log_agencyStream_name" : "lts-topic-bug",
"log_beAgencygroup_id" : "1e749063-d9f5-474f-a537-00cad4e9a108",
"log_beAgencygroup_name" : "lts-group-sgqECS",
"log_beAgencystream_id" : "36ce06b0-c6bf-436d-9abe-39de86da28bb",
"log_beAgencystream_name" : "lts-topic-ECS"
},
"binary_collect" : false,
"create_time" : 1694400753168,
"group_id" : "1e749063-d9f5-474f-a537-00cad4e9a108",
"hostGroupNum" : 0,
"hostNum" : 0,
"host_group_info_list" : [ ],
"host_rule_info" : {
  "black_paths" : [ ],
  "pathType" : "host_file",
  "paths" : [ ],
  "stderr" : false,
  "stdout" : false
},
"id" : "",
"indexId" : "",
"key" : "",
"log_group_name" : "lts-group-sgqECS",
"log_split" : false,
"log_stream_id" : "36ce06b0-c6bf-436d-9abe-39de86da28bb",
"log_stream_name" : "lts-topic-ECS",
"pathNum" : 0,
"project_id" : "2a473356cca5487f8373be891bffc1cf",
"tag_list" : [ ]
}]
```

**Status code: 400**

Failed to create cross-account log ingestion configuration.

```
{
  "message" : {
    "code" : "LTS.0420",
    "details" : "Agency not existed, check domain name and agency name"
  }
}
```

**Status code: 500**

Internal service error

```
{
  "message" : {
    "code" : "LTS.0010",
    "details" : "The system encountered an internal error"
  }
}
```

## Status Codes

| Status Code | Description                                                 |
|-------------|-------------------------------------------------------------|
| 201         | The cross-account log ingestion configuration is created.   |
| 400         | Failed to create cross-account log ingestion configuration. |
| 500         | Internal service error                                      |



## Error Codes

See [Error Codes](#).

## 4.5.2 Querying Log Ingestion Configurations

### Function

This API is used to query log ingestion configurations in LTS.

### URI

POST /v3/{project\_id}/lts/access-config-list

**Table 4-182** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                    |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Account ID, Project Resource Set ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

### Request Parameters

**Table 4-183** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=UTF-8</b> .<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                |

**Table 4-184** Request body parameters

| Parameter               | Mandatory | Type                                             | Description                                                                        |
|-------------------------|-----------|--------------------------------------------------|------------------------------------------------------------------------------------|
| access_config_name_list | Yes       | Array of strings                                 | List of ingestion configuration names.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>  |
| host_group_name_list    | Yes       | Array of strings                                 | List of host group names.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>               |
| log_group_name_list     | Yes       | Array of strings                                 | List of log group names.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                |
| log_stream_name_list    | Yes       | Array of strings                                 | List of log stream names.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>               |
| access_config_tag_list  | No        | Array of <a href="#">accessConfigTag</a> objects | Ingestion configuration tags. A tag key must be unique. Up to 20 tags are allowed. |

**Table 4-185** accessConfigTag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                      |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . <i>Do not start with an underscore ( ).</i> Max 128 characters are allowed. |
| value     | No        | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . Max 255 characters are allowed.                                           |

## Response Parameters

Status code: 200

**Table 4-186** Response body parameters

| Parameter | Type                                              | Description                               |
|-----------|---------------------------------------------------|-------------------------------------------|
| result    | Array of <a href="#">AccessConfigInfo</a> objects | Ingestion configuration list.             |
| total     | Long                                              | Total number of ingestion configurations. |

**Table 4-187** AccessConfigInfo

| Parameter            | Type                                                     | Description                                                                        |
|----------------------|----------------------------------------------------------|------------------------------------------------------------------------------------|
| access_config_id     | String                                                   | Ingestion configuration ID.                                                        |
| access_config_name   | String                                                   | Ingestion configuration name.                                                      |
| access_config_type   | String                                                   | Ingestion configuration type. The value <b>AGENT</b> indicates host log ingestion. |
| create_time          | Long                                                     | Creation time.                                                                     |
| access_config_detail | <a href="#">AccessConfigDetailResponse</a> object        | Ingestion configuration details.                                                   |
| log_info             | <a href="#">AccessConfigQueryLogInfo</a> object          | Log details.                                                                       |
| host_group_info      | <a href="#">AccessConfigHostGroupIdList</a> object       | Host group ID list.                                                                |
| access_config_tag    | Array of <a href="#">accessConfigTagResponse</a> objects | Tag information.                                                                   |
| log_split            | Boolean                                                  | Log splitting.                                                                     |
| binary_collect       | Boolean                                                  | Binary collection.                                                                 |
| cluster_id           | String                                                   | CCE cluster ID                                                                     |

**Table 4-188** AccessConfigDetailResponse

| Parameter   | Type             | Description                |
|-------------|------------------|----------------------------|
| paths       | Array of strings | Collection paths.          |
| black_paths | Array of strings | Collection path blacklist. |

| Parameter          | Type                                                    | Description                                                                                                                                          |
|--------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| format             | <a href="#">AccessConfigFormatCreate</a> object         | Log format.                                                                                                                                          |
| windows_log_info   | <a href="#">AccessConfigWindowsLogInfoCreate</a> object | Windows event logs.                                                                                                                                  |
| stdout             | Boolean                                                 | Standard output switch. This parameter is used only for CCE log ingestion.                                                                           |
| stderr             | Boolean                                                 | Standard error switch. This parameter is used only for CCE log ingestion.                                                                            |
| pathType           | String                                                  | CCE log ingestion type. This parameter is used only for CCE log ingestion.                                                                           |
| namespaceRegex     | String                                                  | Regular expression matching of Kubernetes namespaces. This parameter is used only for CCE log ingestion.                                             |
| podNameRegex       | String                                                  | Regular expression matching of Kubernetes pods. This parameter is used only for CCE log ingestion.                                                   |
| containerNameRegex | String                                                  | Regular expression matching of Kubernetes container names. This parameter is used only for CCE log ingestion.                                        |
| includeLabels      | Map<String,String>                                      | Container label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.      |
| excludeLabels      | Map<String,String>                                      | Container label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.      |
| includeEnvs        | Map<String,String>                                      | Environment variable whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| excludeEnvs        | Map<String,String>                                      | Environment variable blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion. |

| Parameter        | Type               | Description                                                                                                                                      |
|------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| logLabels        | Map<String,String> | Container label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.                |
| logEnvs          | Map<String,String> | Environment variable label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.     |
| includeK8sLabels | Map<String,String> | Kubernetes label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| excludeK8sLabels | Map<String,String> | Kubernetes label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| logK8s           | Map<String,String> | Kubernetes label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.               |

**Table 4-189** AccessConfigFormatCreate

| Parameter | Type                                                  | Description       |
|-----------|-------------------------------------------------------|-------------------|
| single    | <a href="#">AccessConfigFormatSingleCreate</a> object | Single-line logs. |
| multi     | <a href="#">AccessConfigFormatMutilCreate</a> object  | Multi-line logs.  |

**Table 4-190** AccessConfigFormatSingleCreate

| Parameter | Type   | Description                                                                                                     |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------|
| mode      | String | Single-line logs. <b>system</b> indicates the system time, whereas <b>wildcard</b> indicates the time wildcard. |

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| value     | String | Log time.If <b>mode</b> is <b>system</b> , the value is the current timestamp.If <b>mode</b> is <b>wildcard</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-191** AccessConfigFormatMutilCreate

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | String | Single-line logs. <b>time</b> indicates a time wildcard is used to detect log boundaries, whereas <b>regular</b> indicates that a regular expression is used.                                                                                                                                                                                                                                                                                                           |
| value     | String | Log time.If <b>mode</b> is <b>regular</b> , the value is a regular expression.If <b>mode</b> is <b>time</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-192** AccessConfigWindowsLogInfoCreate

| Parameter   | Type                                          | Description                                                                                                                                                                                                                                                                       |
|-------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| categorys   | Array of strings                              | Type of Windows event logs to be collected. <ul style="list-style-type: none"><li>• <b>Application</b>: application event logs.</li><li>• <b>System</b>: system event logs.</li><li>• <b>Security</b>: security event logs.</li><li>• <b>Setup</b>: startup event logs.</li></ul> |
| time_offset | <a href="#">AccessConfigTimeOffset</a> object | Offset from first collection time.                                                                                                                                                                                                                                                |

| Parameter   | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| event_level | Array of strings | Event level. <ul style="list-style-type: none"><li>• <b>information</b>: common information events, which do not affect system running.</li><li>• <b>warning</b>: warning events, which may affect system running but do not cause system breakdown.</li><li>• <b>error</b>: error events, which cause system breakdown or prevent the service from running properly.</li><li>• <b>critical</b>: critical events, which may cause system or application failures.</li><li>• <b>verbose</b>: detailed event information, which does not affect the system running.</li></ul> |

**Table 4-193** AccessConfigTimeOffset

| Parameter | Type   | Description                                                                                                                                                                                                                                                             |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | Long   | Time offset.<br>When <b>unit</b> is <b>day</b> , the value ranges from <b>1</b> to <b>7</b> .<br>When <b>unit</b> is <b>hour</b> , the value ranges from <b>1</b> to <b>168</b> .<br>When <b>unit</b> is <b>sec</b> , the value ranges from <b>1</b> to <b>604800</b> . |
| unit      | String | Unit of the time offset. <ul style="list-style-type: none"><li>• <b>day</b></li><li>• <b>hour</b></li><li>• <b>sec</b></li></ul>                                                                                                                                        |

**Table 4-194** AccessConfigQueryLogInfo

| Parameter       | Type   | Description      |
|-----------------|--------|------------------|
| log_group_id    | String | Log group ID.    |
| log_stream_id   | String | Log stream ID.   |
| log_group_name  | String | Log group name.  |
| log_stream_name | String | Log stream name. |

| Parameter             | Type   | Description       |
|-----------------------|--------|-------------------|
| log_group_name_alias  | String | Log group alias.  |
| log_stream_name_alias | String | Log stream alias. |

**Table 4-195** AccessConfigHostGroupIdList

| Parameter          | Type             | Description             |
|--------------------|------------------|-------------------------|
| host_group_id_list | Array of strings | List of host group IDs. |

**Table 4-196** accessConfigTagResponse

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

**Status code: 400****Table 4-197** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

**Status code: 500****Table 4-198** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

## Example Requests

Log ingestion configurations are filtered by the request body.



```
POST https://{endpoint}/v3/{project_id}/lts/access-config-list

{
  "access_config_name_list": [ "Collectionxx2", "22x", "2x", "CollectionWjxxxx" ],
  "host_group_name_list": [ "wwxx" ],
  "log_group_name_list": [ "lts-grxx", "lts-xx", "lts-gxx" ],
  "log_stream_name_list": [ "lts-topixx", "lts-txx" ],
  "access_config_tag_list": [ {
    "key": "xxx",
    "value": "xxx"
  }, {
    "key": "xxx1",
    "value": "xxx1"
  } ]
}
```

## Example Responses

**Status code: 200**

The query is successful.

```
{
  "result": [ {
    "access_config_detail": {
      "containerNameRegex": "my",
      "excludeEnvs": {
        "h": "8"
      },
      "excludeK8sLabels": {
        "e": "5"
      },
      "excludeLabels": {
        "b": "2"
      },
      "format": {
        "single": {
          "mode": "system",
          "value": "1678969382000"
        }
      },
      "includeEnvs": {
        "g": "7"
      },
      "includeK8sLabels": {
        "d30": "4"
      },
      "includeLabels": {
        "a": "1"
      },
      "logEnvs": {
        "i": "9"
      },
      "logK8s": {
        "f": "6"
      },
      "logLabels": {
        "c": "3"
      },
      "namespaceRegex": "default",
      "pathType": "container_stdout",
      "paths": [ ],
      "podNameRegex": "abc",
      "stderr": false,
      "stdout": true
    },
    "access_config_id": "c3152f88-8b06-4f7f-bbbe-129512f49f87",
    "access_config_name": "myapinew322",
    "access_config_tag": [ {
```

```
"key" : "my01",
"value" : "001"
}, {
  "key" : "my02",
  "value" : "002"
} ],
"access_config_type" : "K8S_CCE",
"binary_collect" : false,
"create_time" : 1684467787996,
"host_group_info" : {
  "host_group_id_list" : [ "12b0bbd1-4eda-456b-a641-647aa66bdeab" ]
},
"log_info" : {
  "log_group_id" : "9575cb24-290c-478e-a5db-88d6d1dc513b",
  "log_group_name" : "my-group",
  "log_stream_id" : "3581bee9-8698-476e-a0ba-b0f310ed99cf",
  "log_stream_name" : "lts-topic-api"
},
"log_split" : false
}, {
  "access_config_detail" : {
    "containerNameRegex" : "my",
    "excludeEnvs" : {
      "h" : "8"
    },
    "excludeK8sLabels" : {
      "e" : "5"
    },
    "excludeLabels" : {
      "b" : "2"
    },
    "format" : {
      "single" : {
        "mode" : "system",
        "value" : "1678969382000"
      }
    },
    "includeEnvs" : {
      "g" : "7"
    },
    "includeK8sLabels" : {
      "d10" : "4",
      "d" : "4",
      "d12" : "4",
      "d11" : "4",
      "d14" : "4",
      "d13" : "4",
      "d16" : "4",
      "d15" : "4",
      "d18" : "4",
      "d17" : "4",
      "d1" : "4",
      "d2" : "4",
      "d3" : "4",
      "d4" : "4",
      "d5" : "4",
      "d6" : "4",
      "d7" : "4",
      "d8" : "4",
      "d9" : "4"
    },
    "includeLabels" : {
      "a" : "1"
    },
    "logEnvs" : {
      "i" : "9"
    },
    "logK8s" : {
      "f" : "6"
    }
  }
}
```

```
{
  "logLabels": {
    "c": "3"
  },
  "namespaceRegex": "default",
  "pathType": "container_stdout",
  "paths": [ ],
  "podNameRegex": "abc",
  "stderr": false,
  "stdout": true
},
"access_config_id": "550cd738-7b16-4724-9c59-aba61bf16528",
"access_config_name": "myapinew32",
"access_config_tag": [ {
  "key": "my01",
  "value": "001"
}, {
  "key": "my02",
  "value": "002"
} ],
"access_config_type": "K8S_CCE",
"binary_collect": false,
"create_time": 1684463134956,
"host_group_info": {
  "host_group_id_list": [ "12b0bbd1-4eda-456b-a641-647aa66bdeab" ]
},
"log_info": {
  "log_group_id": "9575cb24-290c-478e-a5db-88d6d1dc513b",
  "log_group_name": "my-group",
  "log_group_name_alias": "my-group",
  "log_stream_id": "3581bee9-8698-476e-a0ba-b0f310ed99cf",
  "log_stream_name": "lts-topic-api",
  "log_stream_name_alias": "lts-topic-api"
},
"log_split": false
} ],
"total": 2
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code": "LTS.1807",
  "error_msg": "Invalid access config name"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code": "LTS.0010",
  "error_msg": "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description              |
|-------------|--------------------------|
| 200         | The query is successful. |

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.5.3 Creating a Log Ingestion Configuration

#### Function

This API is used to create a log ingestion configuration.

#### URI

POST /v3/{project\_id}/lts/access-config

**Table 4-199** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                             |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Account Tenant ID, Project Resource Set ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |

## Request Parameters

**Table 4-200** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-201** Request body parameters

| Parameter            | Mandatory | Type                                                     | Description                                                                                                                                                                     |
|----------------------|-----------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| access_config_name   | Yes       | String                                                   | Ingestion configuration name.<br>It should match the regular expression: $^((?!)(?!_)(?!.*?.$)[\u4e00-\u9fa5a-zA-Z0-9-_.]{1,64})$$ .<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |
| access_config_type   | Yes       | String                                                   | Ingestion configuration type.<br><b>AGENT</b> : ECS access; <b>K8S_CCE</b> : CCE access                                                                                         |
| access_config_detail | Yes       | <a href="#">AccessConfigDeatilCreate</a> object          | Access configuration details.                                                                                                                                                   |
| log_info             | Yes       | <a href="#">AccessConfigBaseLogInfoCreate</a> object     | Log information                                                                                                                                                                 |
| host_group_info      | No        | <a href="#">AccessConfigHostGroupIdListCreate</a> object | Host group information                                                                                                                                                          |
| access_config_tag    | No        | Array of <a href="#">accessConfigTag</a> objects         | Tag information. A tag key must be unique. Up to 20 tags are allowed.                                                                                                           |

| Parameter      | Mandatory | Type    | Description        |
|----------------|-----------|---------|--------------------|
| binary_collect | No        | Boolean | Binary collection. |
| log_split      | No        | Boolean | Log splitting.     |
| cluster_id     | No        | String  | Cluster ID         |

**Table 4-202** AccessConfigDeatilCreate

| Parameter   | Mandatory | Type                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-----------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| paths       | No        | Array of strings                                | Collection paths.<br><ol style="list-style-type: none"><li>1. A path must start with a slash (/), backslash (\), colon (:), or letter.</li><li>2. A path cannot contain special characters (&lt;&gt;  ") and cannot contain only slashes (/).</li><li>3. A path cannot start with "/"**" or "/"*".</li><li>4. Only one double asterisk (**) can be contained in a path.</li></ol> The container path and host path are mandatory for the CCE type and are not mandatory for the standard output. |
| black_paths | No        | Array of strings                                | Collection path blacklist.<br><ol style="list-style-type: none"><li>1. A path must start with a slash (/), backslash (\), colon (:), or letter.</li><li>2. A path cannot contain special characters (&lt;&gt;  ") and cannot contain only slashes (/).</li><li>3. A path cannot start with "/"**" or "/"*".</li><li>4. Only one double asterisk (**) can be contained in a path.</li></ol>                                                                                                       |
| format      | Yes       | <a href="#">AccessConfigFormatCreate</a> object | Log format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Parameter          | Mandatory | Type                                                    | Description                                                                                                                                                             |
|--------------------|-----------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| windows_log_info   | No        | <a href="#">AccessConfigWindowsLogInfoCreate</a> object | Windows event logs.                                                                                                                                                     |
| stdout             | No        | Boolean                                                 | Standard output switch. This parameter is used only when logs are collected from CCE.                                                                                   |
| stderr             | No        | Boolean                                                 | Standard error switch. This parameter is used only when logs are collected from CCE.                                                                                    |
| pathType           | No        | String                                                  | Log collection from CCE. This parameter is used only when logs are collected from CCE.                                                                                  |
| namespaceRegex     | No        | String                                                  | Regular expression matching of Kubernetes namespaces. This parameter is used only when logs are collected from CCE.                                                     |
| podNameRegex       | No        | String                                                  | Regular expression matching of Kubernetes pods. This parameter is used only when logs are collected from CCE.                                                           |
| containerNameRegex | No        | String                                                  | Regular expression matching of Kubernetes container names. This parameter is used only when logs are collected from CCE.                                                |
| includeLabels      | No        | Map<String,String>                                      | Container label trustlist. A maximum of 30 container labels can be created. The key names must be unique. This parameter is used only when logs are collected from CCE. |
| excludeLabels      | No        | Map<String,String>                                      | Container label blocklist. A maximum of 30 container labels can be created. The key names must be unique. This parameter is used only when logs are collected from CCE. |

| Parameter        | Mandatory | Type               | Description                                                                                                                                                                             |
|------------------|-----------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| includeEnvs      | No        | Map<String,String> | Environment variable trustlist. A maximum of 30 environment variable whitelists can be created. Key names must be unique. This parameter is used only when logs are collected from CCE. |
| excludeEnvs      | No        | Map<String,String> | Environment variable blocklist. A maximum of 30 environment variables can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.       |
| logLabels        | No        | Map<String,String> | Container label log tag. A maximum of 30 tags can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.                               |
| logEnvs          | No        | Map<String,String> | Environment variable log tag. A maximum of 30 tags can be created. The key name must be unique. This parameter is used only when logs are collected from CCE.                           |
| includeK8sLabels | No        | Map<String,String> | Kubernetes label trustlist. A maximum of 30 whitelists can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.                      |
| excludeK8sLabels | No        | Map<String,String> | Kubernetes label blocklist. A maximum of 30 blocklists can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.                      |
| logK8s           | No        | Map<String,String> | Kubernetes label log tag. A maximum of 30 tags can be created. The key names must be unique. This parameter is used only when logs are collected from CCE.                              |



**Table 4-203** AccessConfigFormatCreate

| Parameter | Mandatory | Type                                                  | Description       |
|-----------|-----------|-------------------------------------------------------|-------------------|
| single    | No        | <a href="#">AccessConfigFormatSingleCreate</a> object | Single-line logs. |
| multi     | No        | <a href="#">AccessConfigFormatMutilCreate</a> object  | Multi-line logs.  |

**Table 4-204** AccessConfigFormatSingleCreate

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | No        | String | Single-line logs. <b>system</b> indicates the system time, whereas <b>wildcard</b> indicates the time wildcard.                                                                                                                                                                                                                                                                                                                                                             |
| value     | No        | String | Log time.If <b>mode</b> is <b>system</b> , the value is the current timestamp.If <b>mode</b> is <b>wildcard</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-205** AccessConfigFormatMutilCreate

| Parameter | Mandatory | Type   | Description                                                                                                                                                   |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | No        | String | Single-line logs. <b>time</b> indicates a time wildcard is used to detect log boundaries, whereas <b>regular</b> indicates that a regular expression is used. |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| value     | No        | String | Log time.If <b>mode</b> is <b>regular</b> , the value is a regular expression.If <b>mode</b> is <b>time</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-206** AccessConfigWindowsLogInfoCreate

| Parameter   | Mandatory | Type                                           | Description                                                                                                                                                                                                                                                                       |
|-------------|-----------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| categorys   | Yes       | Array of strings                               | Type of Windows event logs to be collected. <ul style="list-style-type: none"><li>• <b>Application</b>: application event logs.</li><li>• <b>System</b>: system event logs.</li><li>• <b>Security</b>: security event logs.</li><li>• <b>Setup</b>: startup event logs.</li></ul> |
| time_offset | Yes       | <a href="#">AccessConfig TimeOffset</a> object | Offset from first collection time.                                                                                                                                                                                                                                                |

| Parameter   | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| event_level | Yes       | Array of strings | Event level. <ul style="list-style-type: none"><li>• <b>information</b>: common information events, which do not affect system running.</li><li>• <b>warning</b>: warning events, which may affect system running but do not cause system breakdown.</li><li>• <b>error</b>: error events, which cause system breakdown or prevent the service from running properly.</li><li>• <b>critical</b>: critical events, which may cause system or application failures.</li><li>• <b>verbose</b>: detailed event information, which does not affect the system running.</li></ul> |

**Table 4-207** AccessConfigTimeOffset

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                             |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | Yes       | Long   | Time offset.<br>When <b>unit</b> is <b>day</b> , the value ranges from <b>1</b> to <b>7</b> .<br>When <b>unit</b> is <b>hour</b> , the value ranges from <b>1</b> to <b>168</b> .<br>When <b>unit</b> is <b>sec</b> , the value ranges from <b>1</b> to <b>604800</b> . |
| unit      | Yes       | String | Unit of the time offset. <ul style="list-style-type: none"><li>• <b>day</b></li><li>• <b>hour</b></li><li>• <b>sec</b></li></ul>                                                                                                                                        |

**Table 4-208** AccessConfigBaseLogInfoCreate

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                                                                   |
|---------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_group_id  | Yes       | String | Log group ID. Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Account ID, Project Resource Set ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>  |
| log_stream_id | Yes       | String | Log stream ID. Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Account ID, Project Resource Set ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

**Table 4-209** AccessConfigHostGroupIdListCreate

| Parameter          | Mandatory | Type             | Description                                                         |
|--------------------|-----------|------------------|---------------------------------------------------------------------|
| host_group_id_list | Yes       | Array of strings | List of host group IDs.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

**Table 4-210** accessConfigTag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                             |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . <i>Do not start with an underscore (</i> <code>_</code> <i>)</i> . Max 128 characters are allowed. |
| value     | No        | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . Max 255 characters are allowed.                                                                  |

## Response Parameters

Status code: 200

**Table 4-211** Response body parameters

| Parameter            | Type                                                     | Description                                                                        |
|----------------------|----------------------------------------------------------|------------------------------------------------------------------------------------|
| access_config_id     | String                                                   | Ingestion configuration ID.                                                        |
| access_config_name   | String                                                   | Ingestion configuration name.                                                      |
| access_config_type   | String                                                   | Ingestion configuration type. The value <b>AGENT</b> indicates host log ingestion. |
| create_time          | Long                                                     | Creation time.                                                                     |
| access_config_detail | <a href="#">AccessConfigDetailResponse</a> object        | Ingestion configuration details.                                                   |
| log_info             | <a href="#">AccessConfigQueryLogInfo</a> object          | Log details.                                                                       |
| host_group_info      | <a href="#">AccessConfigHostGroupIdList</a> object       | Host group ID list.                                                                |
| access_config_tag    | Array of <a href="#">accessConfigTagResponse</a> objects | Tag information.                                                                   |
| log_split            | Boolean                                                  | Log splitting.                                                                     |
| binary_collect       | Boolean                                                  | Binary collection.                                                                 |
| cluster_id           | String                                                   | CCE cluster ID                                                                     |

**Table 4-212** AccessConfigDetailResponse

| Parameter        | Type                                                    | Description                |
|------------------|---------------------------------------------------------|----------------------------|
| paths            | Array of strings                                        | Collection paths.          |
| black_paths      | Array of strings                                        | Collection path blacklist. |
| format           | <a href="#">AccessConfigFormatCreate</a> object         | Log format.                |
| windows_log_info | <a href="#">AccessConfigWindowsLogInfoCreate</a> object | Windows event logs.        |

| Parameter          | Type               | Description                                                                                                                                          |
|--------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| stdout             | Boolean            | Standard output switch. This parameter is used only for CCE log ingestion.                                                                           |
| stderr             | Boolean            | Standard error switch. This parameter is used only for CCE log ingestion.                                                                            |
| pathType           | String             | CCE log ingestion type. This parameter is used only for CCE log ingestion.                                                                           |
| namespaceRegex     | String             | Regular expression matching of Kubernetes namespaces. This parameter is used only for CCE log ingestion.                                             |
| podNameRegex       | String             | Regular expression matching of Kubernetes pods. This parameter is used only for CCE log ingestion.                                                   |
| containerNameRegex | String             | Regular expression matching of Kubernetes container names. This parameter is used only for CCE log ingestion.                                        |
| includeLabels      | Map<String,String> | Container label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.      |
| excludeLabels      | Map<String,String> | Container label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.      |
| includeEnvs        | Map<String,String> | Environment variable whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| excludeEnvs        | Map<String,String> | Environment variable blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| logLabels          | Map<String,String> | Container label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.                    |
| logEnvs            | Map<String,String> | Environment variable label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.         |

| Parameter        | Type               | Description                                                                                                                                      |
|------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| includeK8sLabels | Map<String,String> | Kubernetes label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| excludeK8sLabels | Map<String,String> | Kubernetes label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| logK8s           | Map<String,String> | Kubernetes label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.               |

**Table 4-213** AccessConfigFormatCreate

| Parameter | Type                                                  | Description       |
|-----------|-------------------------------------------------------|-------------------|
| single    | <a href="#">AccessConfigFormatSingleCreate</a> object | Single-line logs. |
| multi     | <a href="#">AccessConfigFormatMutilCreate</a> object  | Multi-line logs.  |

**Table 4-214** AccessConfigFormatSingleCreate

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | String | Single-line logs. <b>system</b> indicates the system time, whereas <b>wildcard</b> indicates the time wildcard.                                                                                                                                                                                                                                                                                                                                                             |
| value     | String | Log time.If <b>mode</b> is <b>system</b> , the value is the current timestamp.If <b>mode</b> is <b>wildcard</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-215** AccessConfigFormatMutilCreate

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | String | Single-line logs. <b>time</b> indicates a time wildcard is used to detect log boundaries, whereas <b>regular</b> indicates that a regular expression is used.                                                                                                                                                                                                                                                                                                           |
| value     | String | Log time.If <b>mode</b> is <b>regular</b> , the value is a regular expression.If <b>mode</b> is <b>time</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-216** AccessConfigWindowsLogInfoCreate

| Parameter   | Type                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| categorys   | Array of strings                              | Type of Windows event logs to be collected. <ul style="list-style-type: none"><li>• <b>Application</b>: application event logs.</li><li>• <b>System</b>: system event logs.</li><li>• <b>Security</b>: security event logs.</li><li>• <b>Setup</b>: startup event logs.</li></ul>                                                                                                                                                                                                                                                                                           |
| time_offset | <a href="#">AccessConfigTimeOffset</a> object | Offset from first collection time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| event_level | Array of strings                              | Event level. <ul style="list-style-type: none"><li>• <b>information</b>: common information events, which do not affect system running.</li><li>• <b>warning</b>: warning events, which may affect system running but do not cause system breakdown.</li><li>• <b>error</b>: error events, which cause system breakdown or prevent the service from running properly.</li><li>• <b>critical</b>: critical events, which may cause system or application failures.</li><li>• <b>verbose</b>: detailed event information, which does not affect the system running.</li></ul> |



**Table 4-217** AccessConfigTimeOffset

| Parameter | Type   | Description                                                                                                                                                                                                                                                             |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | Long   | Time offset.<br>When <b>unit</b> is <b>day</b> , the value ranges from <b>1</b> to <b>7</b> .<br>When <b>unit</b> is <b>hour</b> , the value ranges from <b>1</b> to <b>168</b> .<br>When <b>unit</b> is <b>sec</b> , the value ranges from <b>1</b> to <b>604800</b> . |
| unit      | String | Unit of the time offset. <ul style="list-style-type: none"><li>• <b>day</b></li><li>• <b>hour</b></li><li>• <b>sec</b></li></ul>                                                                                                                                        |

**Table 4-218** AccessConfigQueryLogInfo

| Parameter             | Type   | Description       |
|-----------------------|--------|-------------------|
| log_group_id          | String | Log group ID.     |
| log_stream_id         | String | Log stream ID.    |
| log_group_name        | String | Log group name.   |
| log_stream_name       | String | Log stream name.  |
| log_group_name_alias  | String | Log group alias.  |
| log_stream_name_alias | String | Log stream alias. |

**Table 4-219** AccessConfigHostGroupIdList

| Parameter          | Type             | Description             |
|--------------------|------------------|-------------------------|
| host_group_id_list | Array of strings | List of host group IDs. |

**Table 4-220** accessConfigTagResponse

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

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

**Status code: 400****Table 4-221** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

**Status code: 500****Table 4-222** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

## Example Requests

- Creating a log ingestion configuration (for CCE)

POST https://{endpoint}/v3/{project\_id}/lts/access-config

```
{
  "access_config_name": "myapinew322",
  "access_config_type": "K8S_CCE",
  "access_config_detail": {
    "pathType": "CONTAINER_STDOUT",
    "stdout": "true",
    "stderr": "false",
    "format": {
      "single": {
        "mode": "system",
        "value": "1678969382000"
      }
    },
    "namespaceRegex": "default",
    "podNameRegex": "abc",
    "containerNameRegex": "my",
    "includeLabels": {
      "a": "1"
    },
    "excludeLabels": {
      "b": "2"
    },
    "logLabels": {
      "c": "3"
    },
    "includeK8sLabels": {
```

```
    "d": "4"
  },
  "excludeK8sLabels": {
    "e": "5"
  },
  "logK8s": {
    "f": "6"
  },
  "includeEnvs": {
    "g": "7"
  },
  "excludeEnvs": {
    "h": "8"
  },
  "logEnvs": {
    "i": "9"
  }
},
"log_info": {
  "log_group_id": "9575cb24-290c-478e-a5db-88d6d1dc513b",
  "log_stream_id": "3581bee9-8698-476e-a0ba-b0f310ed99cf"
},
"host_group_info": {
  "host_group_id_list": [ "12b0bbd1-4eda-456b-a641-647aa66bdeab" ]
},
"access_config_tag": [ {
  "key": "my01",
  "value": "001"
}, {
  "key": "my02",
  "value": "002"
} ],
"binary_collect": "false",
"log_split": "false"
}
```

- Creating a log ingestion configuration (for ECS)

POST [https://{endpoint}/v3/{project\\_id}/lts/access-config](https://{endpoint}/v3/{project_id}/lts/access-config)

```
{
  "access_config_name": "Tesxxx",
  "access_config_type": "AGENT",
  "access_config_detail": {
    "paths": [ "/test/xxx", "/texxx" ],
    "black_paths": [ "/testxxx", "/tesxxx" ],
    "format": {
      "multi": {
        "mode": "time",
        "value": "YYYY-MM-DD hh:mm:ss"
      }
    },
  },
  "windows_log_info": {
    "categories": [ "System", "Security", "Setup" ],
    "event_level": [ "warning", "error", "critical", "verbose" ],
    "time_offset": {
      "offset": 111,
      "unit": "hour"
    }
  },
  "log_info": {
    "log_group_id": "b179326d-c3be-4217-a3d9-xxxx",
    "log_stream_id": "020a6fa0-4740-4888-af06-98xxxxxx"
  },
  "host_group_info": {
    "host_group_id_list": [ "4ee44d4f-a72b-40cf-a3c7-1xxxxx" ]
  },
  "access_config_tag": [ {
    "key": "xxx",
    "value": "xxx"
  } ]
}
```

```
    }, {  
      "key": "xxx1",  
      "value": "xxx1"  
    }  
  ]  
}
```

## Example Responses

### Status code: 200

The ingestion configuration is created.

```
{  
  "access_config_detail": {  
    "containerNameRegex": "container-1",  
    "format": {  
      "single": {  
        "mode": "system",  
        "value": "1678969382000"  
      }  
    },  
    "namespaceRegex": "default",  
    "pathType": "container_stdout",  
    "paths": [ ],  
    "podNameRegex": "mystdout-6d7458d77c-rhjcc",  
    "stderr": true,  
    "stdout": true  
  },  
  "access_config_id": "03b16999-95cf-453b-9668-7aa1fafa564e",  
  "access_config_name": "myapinew32Y",  
  "access_config_tag": [ {  
    "key": "my01",  
    "value": "001"  
  }, {  
    "key": "my02",  
    "value": "002"  
  } ],  
  "access_config_type": "K8S_CCE",  
  "binary_collect": true,  
  "create_time": 1685626665176,  
  "log_info": {  
    "log_group_id": "9575cb24-290c-478e-a5db-88d6d1dc513b",  
    "log_group_name": "my-group",  
    "log_stream_id": "eea03c27-e041-4bec-bd03-6afa10a6561a",  
    "log_stream_name": "lts-topic-cceapi"  
  },  
  "log_split": true  
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{  
  "error_code": "LTS.1807",  
  "error_msg": "Invalid access config name"  
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{  
  "error_code": "LTS.0010",  
  "error_msg": "The system encountered an internal error"  
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The ingestion configuration is created.                                                          |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.5.4 Deleting Log Ingestion Configurations

### Function

This API is used to delete log ingestion configurations.

### URI

DELETE /v3/{project\_id}/lts/access-config

**Table 4-223** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                           |
|------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Account Tenant ID, Project Resource Set ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-224** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-225** Request body parameters

| Parameter             | Mandatory | Type             | Description                                                                  |
|-----------------------|-----------|------------------|------------------------------------------------------------------------------|
| access_config_id_list | Yes       | Array of strings | Ingestion configuration ID list.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Response Parameters

**Status code: 200****Table 4-226** Response body parameters

| Parameter | Type                                              | Description                               |
|-----------|---------------------------------------------------|-------------------------------------------|
| result    | Array of <a href="#">AccessConfigInfo</a> objects | Ingestion configuration list.             |
| total     | Long                                              | Total number of ingestion configurations. |

**Table 4-227** AccessConfigInfo

| Parameter            | Type                                                     | Description                                                                        |
|----------------------|----------------------------------------------------------|------------------------------------------------------------------------------------|
| access_config_id     | String                                                   | Ingestion configuration ID.                                                        |
| access_config_name   | String                                                   | Ingestion configuration name.                                                      |
| access_config_type   | String                                                   | Ingestion configuration type. The value <b>AGENT</b> indicates host log ingestion. |
| create_time          | Long                                                     | Creation time.                                                                     |
| access_config_detail | <a href="#">AccessConfigDetailResponse</a> object        | Ingestion configuration details.                                                   |
| log_info             | <a href="#">AccessConfigQueryLogInfo</a> object          | Log details.                                                                       |
| host_group_info      | <a href="#">AccessConfigHostGroupIdList</a> object       | Host group ID list.                                                                |
| access_config_tag    | Array of <a href="#">accessConfigTagResponse</a> objects | Tag information.                                                                   |
| log_split            | Boolean                                                  | Log splitting.                                                                     |
| binary_collect       | Boolean                                                  | Binary collection.                                                                 |
| cluster_id           | String                                                   | CCE cluster ID                                                                     |

**Table 4-228** AccessConfigDetailResponse

| Parameter        | Type                                                    | Description                                                                |
|------------------|---------------------------------------------------------|----------------------------------------------------------------------------|
| paths            | Array of strings                                        | Collection paths.                                                          |
| black_paths      | Array of strings                                        | Collection path blacklist.                                                 |
| format           | <a href="#">AccessConfigFormatCreate</a> object         | Log format.                                                                |
| windows_log_info | <a href="#">AccessConfigWindowsLogInfoCreate</a> object | Windows event logs.                                                        |
| stdout           | Boolean                                                 | Standard output switch. This parameter is used only for CCE log ingestion. |
| stderr           | Boolean                                                 | Standard error switch. This parameter is used only for CCE log ingestion.  |

| Parameter          | Type               | Description                                                                                                                                          |
|--------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| pathType           | String             | CCE log ingestion type. This parameter is used only for CCE log ingestion.                                                                           |
| namespaceRegex     | String             | Regular expression matching of Kubernetes namespaces. This parameter is used only for CCE log ingestion.                                             |
| podNameRegex       | String             | Regular expression matching of Kubernetes pods. This parameter is used only for CCE log ingestion.                                                   |
| containerNameRegex | String             | Regular expression matching of Kubernetes container names. This parameter is used only for CCE log ingestion.                                        |
| includeLabels      | Map<String,String> | Container label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.      |
| excludeLabels      | Map<String,String> | Container label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.      |
| includeEnvs        | Map<String,String> | Environment variable whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| excludeEnvs        | Map<String,String> | Environment variable blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| logLabels          | Map<String,String> | Container label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.                    |
| logEnvs            | Map<String,String> | Environment variable label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.         |
| includeK8sLabels   | Map<String,String> | Kubernetes label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.     |



| Parameter        | Type               | Description                                                                                                                                      |
|------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| excludeK8sLabels | Map<String,String> | Kubernetes label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| logK8s           | Map<String,String> | Kubernetes label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.               |

**Table 4-229** AccessConfigFormatCreate

| Parameter | Type                                                  | Description       |
|-----------|-------------------------------------------------------|-------------------|
| single    | <a href="#">AccessConfigFormatSingleCreate</a> object | Single-line logs. |
| multi     | <a href="#">AccessConfigFormatMutilCreate</a> object  | Multi-line logs.  |

**Table 4-230** AccessConfigFormatSingleCreate

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | String | Single-line logs. <b>system</b> indicates the system time, whereas <b>wildcard</b> indicates the time wildcard.                                                                                                                                                                                                                                                                                                                                                             |
| value     | String | Log time.If <b>mode</b> is <b>system</b> , the value is the current timestamp.If <b>mode</b> is <b>wildcard</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-231** AccessConfigFormatMutilCreate

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | String | Single-line logs. <b>time</b> indicates a time wildcard is used to detect log boundaries, whereas <b>regular</b> indicates that a regular expression is used.                                                                                                                                                                                                                                                                                                           |
| value     | String | Log time.If <b>mode</b> is <b>regular</b> , the value is a regular expression.If <b>mode</b> is <b>time</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-232** AccessConfigWindowsLogInfoCreate

| Parameter   | Type                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| categorys   | Array of strings                              | Type of Windows event logs to be collected. <ul style="list-style-type: none"><li>• <b>Application</b>: application event logs.</li><li>• <b>System</b>: system event logs.</li><li>• <b>Security</b>: security event logs.</li><li>• <b>Setup</b>: startup event logs.</li></ul>                                                                                                                                                                                                                                                                                           |
| time_offset | <a href="#">AccessConfigTimeOffset</a> object | Offset from first collection time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| event_level | Array of strings                              | Event level. <ul style="list-style-type: none"><li>• <b>information</b>: common information events, which do not affect system running.</li><li>• <b>warning</b>: warning events, which may affect system running but do not cause system breakdown.</li><li>• <b>error</b>: error events, which cause system breakdown or prevent the service from running properly.</li><li>• <b>critical</b>: critical events, which may cause system or application failures.</li><li>• <b>verbose</b>: detailed event information, which does not affect the system running.</li></ul> |

**Table 4-233** AccessConfigTimeOffset

| Parameter | Type   | Description                                                                                                                                                                                                                                                             |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | Long   | Time offset.<br>When <b>unit</b> is <b>day</b> , the value ranges from <b>1</b> to <b>7</b> .<br>When <b>unit</b> is <b>hour</b> , the value ranges from <b>1</b> to <b>168</b> .<br>When <b>unit</b> is <b>sec</b> , the value ranges from <b>1</b> to <b>604800</b> . |
| unit      | String | Unit of the time offset. <ul style="list-style-type: none"><li>• <b>day</b></li><li>• <b>hour</b></li><li>• <b>sec</b></li></ul>                                                                                                                                        |

**Table 4-234** AccessConfigQueryLogInfo

| Parameter             | Type   | Description       |
|-----------------------|--------|-------------------|
| log_group_id          | String | Log group ID.     |
| log_stream_id         | String | Log stream ID.    |
| log_group_name        | String | Log group name.   |
| log_stream_name       | String | Log stream name.  |
| log_group_name_alias  | String | Log group alias.  |
| log_stream_name_alias | String | Log stream alias. |

**Table 4-235** AccessConfigHostGroupIdList

| Parameter          | Type             | Description             |
|--------------------|------------------|-------------------------|
| host_group_id_list | Array of strings | List of host group IDs. |

**Table 4-236** accessConfigTagResponse

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

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

**Status code: 400**

**Table 4-237** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

**Status code: 500**

**Table 4-238** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

## Example Requests

### Deleting Log Ingestion Configurations

```
DELETE https://{endpoint}/v3/{project_id}/lts/access-config  
  
/v3/{project_id}/lts/access-config  
{  
  "access_config_id_list":["xxx","xxx"]  
}
```

## Example Responses

**Status code: 200**

Ingestion configurations deleted.

```
{  
  "result": [{  
    "access_config_detail": {  
      "black_paths": ["/wjy/hei/tesxxx", "/wjy/hei/tesxxx" ],  
      "format": {  
        "single": {  
          "mode": "wildcard",  
          "value": "1111"  
        }  
      },  
    },  
    "paths": ["/wjy/tesxxx", "/wjy/texxx", "/wjyxxxxx" ],  
    "windows_log_info": {  
      "categorys": [ "System", "Application", "Security", "Setup" ],  
      "event_level": [ "information", "warning", "error", "critical", "verbose" ],  
      "time_offset": {  

```

```
{
  "offset" : 168,
  "unit" : "hour"
}
},
"access_config_id" : "aa58d29e-21a9-4761-ba16-8xxxxx",
"access_config_name" : "CollectionWjyxxxxxt2",
"access_config_tag" : [ {
  "key" : "xxx",
  "value" : "xxx"
}, {
  "key" : "xxx1",
  "value" : "xxx1"
} ],
"access_config_type" : "AGENT",
"create_time" : 1635043645628,
"host_group_info" : {
  "host_group_id_list" : [ "de4dbed4-a3bc-4877-a7ee-0xxxxxx6" ]
},
"log_info" : {
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e89xxxxx0",
  "log_group_name" : "lts-groupxxxxxka",
  "log_stream_id" : "c4de0538-53e6-41fd-b951-a8xxxxx58d7",
  "log_stream_name" : "lts-topic-txxxxx"
}
} ],
"total" : 1
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.1807",
  "error_msg" : "Invalid access config id"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Ingestion configurations deleted.                                                                |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.5.5 Modifying a Log Ingestion Configuration

### Function

This API is used to modify a log ingestion configuration.

### URI

PUT /v3/{project\_id}/lts/access-config

**Table 4-239** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                           |
|------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Account Tenant ID, Project Resource Set ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

### Request Parameters

**Table 4-240** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-241** Request body parameters

| Parameter            | Mandatory | Type                                               | Description                                                             |
|----------------------|-----------|----------------------------------------------------|-------------------------------------------------------------------------|
| access_config_id     | Yes       | String                                             | Ingestion configuration ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |
| access_config_detail | No        | <a href="#">AccessConfigDeatilUpdate</a> object    | Ingestion configuration details.                                        |
| host_group_info      | No        | <a href="#">AccessConfigHostGroupIdList</a> object | Host group ID list.                                                     |
| access_config_tag    | No        | Array of <a href="#">accessConfigTag</a> objects   | Tag information.                                                        |
| log_split            | No        | Boolean                                            | Log splitting.                                                          |
| binary_collect       | No        | Boolean                                            | Binary collection.                                                      |
| cluster_id           | No        | String                                             | CCE cluster ID. This parameter is mandatory for the CCE type.           |

**Table 4-242** AccessConfigDeatilUpdate

| Parameter        | Mandatory | Type                                                    | Description                                                                               |
|------------------|-----------|---------------------------------------------------------|-------------------------------------------------------------------------------------------|
| paths            | No        | Array of strings                                        | Log collection paths.<br>Minimum: <b>1</b><br>Maximum: <b>128</b>                         |
| black_paths      | No        | Array of strings                                        | Log collection blacklist paths.<br>Minimum: <b>1</b><br>Maximum: <b>128</b>               |
| format           | No        | <a href="#">AccessConfigFormatUpdate</a> object         | Log format.                                                                               |
| windows_log_info | No        | <a href="#">AccessConfigWindowsLogInfoUpdate</a> object | Windows event logs. To stop collecting Windows event logs, leave this parameter to empty. |
| stdout           | No        | Boolean                                                 | Standard output switch. This parameter is used only when the CCE ingestion type is used.  |

| Parameter          | Mandatory | Type               | Description                                                                                                                                                                        |
|--------------------|-----------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| stderr             | No        | Boolean            | Standard output error switch. This parameter is used only when the CCE ingestion type is used.                                                                                     |
| pathType           | No        | String             | CCE ingestion type. This parameter is used only when the CCE ingestion type is used.                                                                                               |
| namespaceRegex     | No        | String             | Regular expression matching of Kubernetes namespaces. This parameter is used only when the CCE ingestion type is used.                                                             |
| podNameRegex       | No        | String             | Regular expression matching of the Kubernetes container name. This parameter is used only when the CCE ingestion type is used.                                                     |
| containerNameRegex | No        | String             | Regular expression matching of the Kubernetes container name. This parameter is used only when the CCE ingestion type is used.                                                     |
| includeLabels      | No        | Map<String,String> | Container label whitelist. A maximum of 30 container labels can be created. The key names must be unique. This parameter is used only when the access type is CCE.                 |
| excludeLabels      | No        | Map<String,String> | Container label blacklist. A maximum of 30 container labels can be created. The key names must be unique. This parameter is used only when the CCE access type is used.            |
| includeEnvs        | No        | Map<String,String> | Environment variable whitelist. A maximum of 30 environment variable whitelists can be created. Key names must be unique. This parameter is used only when the access type is CCE. |



| Parameter        | Mandatory | Type               | Description                                                                                                                                                                                       |
|------------------|-----------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| excludeEnvs      | No        | Map<String,String> | Environment variable blacklist. A maximum of 30 environment variables can be created. The key names must be unique. This parameter is used only when the CCE access type is used.                 |
| logLabels        | No        | Map<String,String> | Environment variable log tag. A maximum of 30 tags can be created. The key name must be unique. This parameter is used only when the access type is CCE.                                          |
| logEnvs          | No        | Map<String,String> | Environment variable log tag. A maximum of 30 tags can be created. The key name must be unique. This parameter is used only when the access type is CCE.                                          |
| includeK8sLabels | No        | Map<String,String> | Specifies the Kubernetes label whitelist. A maximum of 30 Kubernetes label whitelists can be created. The key names must be unique. This parameter is used only when the access type is CCE.      |
| excludeK8sLabels | No        | Map<String,String> | Specifies the Kubernetes label blacklist. A maximum of 30 Kubernetes label blacklists can be created. The key names must be unique. This parameter is used only when the CCE access type is used. |
| logK8s           | No        | Map<String,String> | Specifies the Kubernetes label. A maximum of 30 Kubernetes labels can be created. The key names must be unique. This parameter is used only when the access type is CCE.                          |

**Table 4-243** AccessConfigFormatUpdate

| Parameter | Mandatory | Type                                            | Description       |
|-----------|-----------|-------------------------------------------------|-------------------|
| single    | No        | <a href="#">AccessConfigFormatSingle</a> object | Single-line logs. |
| multi     | No        | <a href="#">AccessConfigFormatMutil</a> object  | Multi-line logs.  |

**Table 4-244** AccessConfigFormatSingle

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | Yes       | String | Single-line logs. <b>system</b> indicates the system time, whereas <b>wildcard</b> indicates the time wildcard.                                                                                                                                                                                                                                                                                                                                                                                          |
| value     | Yes       | String | Log time.If <b>mode</b> is <b>system</b> , the value is the current timestamp.If <b>mode</b> is <b>wildcard</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> .<br>Minimum: 1<br>Maximum: 64 |

**Table 4-245** AccessConfigFormatMutil

| Parameter | Mandatory | Type   | Description                                                                                                                                                   |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | Yes       | String | Single-line logs. <b>time</b> indicates a time wildcard is used to detect log boundaries, whereas <b>regular</b> indicates that a regular expression is used. |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| value     | Yes       | String | Log time.If <b>mode</b> is <b>regular</b> , the value is a regular expression.If <b>mode</b> is <b>time</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> .<br>Minimum: 1<br>Maximum: 64 |

**Table 4-246** AccessConfigWindowsLogInfoUpdate

| Parameter   | Mandatory | Type                                           | Description                                                                                                                                                            |
|-------------|-----------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| categories  | No        | Array of strings                               | The type of Windows event logs to be collected.<br><b>Application</b> : application system; <b>System</b> : system; <b>Security</b> : security; <b>Setup</b> : startup |
| time_offset | No        | <a href="#">AccessConfig TimeOffset</a> object | Time offset.                                                                                                                                                           |

| Parameter   | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| event_level | No        | Array of strings | Event level. <ul style="list-style-type: none"><li>• <b>information</b>: common information events, which do not affect system running.</li><li>• <b>warning</b>: warning events, which may affect system running but do not cause system breakdown.</li><li>• <b>error</b>: error events, which cause system breakdown or prevent the service from running properly.</li><li>• <b>critical</b>: critical events, which may cause system or application failures.</li><li>• <b>verbose</b>: detailed event information, which does not affect the system running.</li></ul> |

**Table 4-247** AccessConfigTimeOffset

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                             |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | Yes       | Long   | Time offset.<br>When <b>unit</b> is <b>day</b> , the value ranges from <b>1</b> to <b>7</b> .<br>When <b>unit</b> is <b>hour</b> , the value ranges from <b>1</b> to <b>168</b> .<br>When <b>unit</b> is <b>sec</b> , the value ranges from <b>1</b> to <b>604800</b> . |
| unit      | Yes       | String | Unit of the time offset. <ul style="list-style-type: none"><li>• <b>day</b></li><li>• <b>hour</b></li><li>• <b>sec</b></li></ul>                                                                                                                                        |

**Table 4-248** AccessConfigHostGroupIdList

| Parameter          | Mandatory | Type             | Description             |
|--------------------|-----------|------------------|-------------------------|
| host_group_id_list | Yes       | Array of strings | List of host group IDs. |

**Table 4-249** accessConfigTag

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                    |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./:=+@</code> . <i>Do not start with an underscore (<code>_</code>)</i> . Max 128 characters are allowed. |
| value     | No        | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./:=+@</code> . Max 255 characters are allowed.                                                         |

## Response Parameters

Status code: 200

**Table 4-250** Response body parameters

| Parameter            | Type                                                     | Description                                                                        |
|----------------------|----------------------------------------------------------|------------------------------------------------------------------------------------|
| access_config_id     | String                                                   | Ingestion configuration ID.                                                        |
| access_config_name   | String                                                   | Ingestion configuration name.                                                      |
| access_config_type   | String                                                   | Ingestion configuration type. The value <b>AGENT</b> indicates host log ingestion. |
| create_time          | Long                                                     | Creation time.                                                                     |
| access_config_detail | <a href="#">AccessConfigDetailResponse</a> object        | Ingestion configuration details.                                                   |
| log_info             | <a href="#">AccessConfigQueryLogInfo</a> object          | Log details.                                                                       |
| host_group_info      | <a href="#">AccessConfigHostGroupIdList</a> object       | Host group ID list.                                                                |
| access_config_tag    | Array of <a href="#">accessConfigTagResponse</a> objects | Tag information.                                                                   |
| log_split            | Boolean                                                  | Log splitting.                                                                     |
| binary_collect       | Boolean                                                  | Binary collection.                                                                 |
| cluster_id           | String                                                   | CCE cluster ID                                                                     |

**Table 4-251** AccessConfigDeatilResponse

| Parameter          | Type                                                    | Description                                                                                                                                          |
|--------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| paths              | Array of strings                                        | Collection paths.                                                                                                                                    |
| black_paths        | Array of strings                                        | Collection path blacklist.                                                                                                                           |
| format             | <a href="#">AccessConfigFormatCreate</a> object         | Log format.                                                                                                                                          |
| windows_log_info   | <a href="#">AccessConfigWindowsLogInfoCreate</a> object | Windows event logs.                                                                                                                                  |
| stdout             | Boolean                                                 | Standard output switch. This parameter is used only for CCE log ingestion.                                                                           |
| stderr             | Boolean                                                 | Standard error switch. This parameter is used only for CCE log ingestion.                                                                            |
| pathType           | String                                                  | CCE log ingestion type. This parameter is used only for CCE log ingestion.                                                                           |
| namespaceRegex     | String                                                  | Regular expression matching of Kubernetes namespaces. This parameter is used only for CCE log ingestion.                                             |
| podNameRegex       | String                                                  | Regular expression matching of Kubernetes pods. This parameter is used only for CCE log ingestion.                                                   |
| containerNameRegex | String                                                  | Regular expression matching of Kubernetes container names. This parameter is used only for CCE log ingestion.                                        |
| includeLabels      | Map<String,String>                                      | Container label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.      |
| excludeLabels      | Map<String,String>                                      | Container label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.      |
| includeEnvs        | Map<String,String>                                      | Environment variable whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion. |

| Parameter        | Type               | Description                                                                                                                                          |
|------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| excludeEnvs      | Map<String,String> | Environment variable blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion. |
| logLabels        | Map<String,String> | Container label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.                    |
| logEnvs          | Map<String,String> | Environment variable label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.         |
| includeK8sLabels | Map<String,String> | Kubernetes label whitelist. You can create up to 30 whitelists. The key names must be unique. This parameter is used only for CCE log ingestion.     |
| excludeK8sLabels | Map<String,String> | Kubernetes label blacklist. You can create up to 30 blacklists. The key names must be unique. This parameter is used only for CCE log ingestion.     |
| logK8s           | Map<String,String> | Kubernetes label. You can create up to 30 labels. The key names must be unique. This parameter is used only for CCE log ingestion.                   |

**Table 4-252** AccessConfigFormatCreate

| Parameter | Type                                                  | Description       |
|-----------|-------------------------------------------------------|-------------------|
| single    | <a href="#">AccessConfigFormatSingleCreate</a> object | Single-line logs. |
| multi     | <a href="#">AccessConfigFormatMutilCreate</a> object  | Multi-line logs.  |

**Table 4-253** AccessConfigFormatSingleCreate

| Parameter | Type   | Description                                                                                                     |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------|
| mode      | String | Single-line logs. <b>system</b> indicates the system time, whereas <b>wildcard</b> indicates the time wildcard. |

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| value     | String | Log time.If <b>mode</b> is <b>system</b> , the value is the current timestamp.If <b>mode</b> is <b>wildcard</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-254** AccessConfigFormatMutilCreate

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mode      | String | Single-line logs. <b>time</b> indicates a time wildcard is used to detect log boundaries, whereas <b>regular</b> indicates that a regular expression is used.                                                                                                                                                                                                                                                                                                           |
| value     | String | Log time.If <b>mode</b> is <b>regular</b> , the value is a regular expression.If <b>mode</b> is <b>time</b> , the value is a time wildcard, which is used by ICAgent to look for the log printing time as the beginning of a log event. If the time format in a log event is <b>2019-01-01 23:59:59</b> , the time wildcard is <b>YYYY-MM-DD hh:mm:ss</b> . If the time format in a log event is <b>19-1-1 23:59:59</b> , the time wildcard is <b>YY-M-D hh:mm:ss</b> . |

**Table 4-255** AccessConfigWindowsLogInfoCreate

| Parameter   | Type                                          | Description                                                                                                                                                                                                                                                                       |
|-------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| categorys   | Array of strings                              | Type of Windows event logs to be collected. <ul style="list-style-type: none"><li>• <b>Application</b>: application event logs.</li><li>• <b>System</b>: system event logs.</li><li>• <b>Security</b>: security event logs.</li><li>• <b>Setup</b>: startup event logs.</li></ul> |
| time_offset | <a href="#">AccessConfigTimeOffset</a> object | Offset from first collection time.                                                                                                                                                                                                                                                |



| Parameter   | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| event_level | Array of strings | Event level. <ul style="list-style-type: none"><li>• <b>information</b>: common information events, which do not affect system running.</li><li>• <b>warning</b>: warning events, which may affect system running but do not cause system breakdown.</li><li>• <b>error</b>: error events, which cause system breakdown or prevent the service from running properly.</li><li>• <b>critical</b>: critical events, which may cause system or application failures.</li><li>• <b>verbose</b>: detailed event information, which does not affect the system running.</li></ul> |

**Table 4-256** AccessConfigTimeOffset

| Parameter | Type   | Description                                                                                                                                                                                                                                                             |
|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset    | Long   | Time offset.<br>When <b>unit</b> is <b>day</b> , the value ranges from <b>1</b> to <b>7</b> .<br>When <b>unit</b> is <b>hour</b> , the value ranges from <b>1</b> to <b>168</b> .<br>When <b>unit</b> is <b>sec</b> , the value ranges from <b>1</b> to <b>604800</b> . |
| unit      | String | Unit of the time offset. <ul style="list-style-type: none"><li>• <b>day</b></li><li>• <b>hour</b></li><li>• <b>sec</b></li></ul>                                                                                                                                        |

**Table 4-257** AccessConfigQueryLogInfo

| Parameter       | Type   | Description      |
|-----------------|--------|------------------|
| log_group_id    | String | Log group ID.    |
| log_stream_id   | String | Log stream ID.   |
| log_group_name  | String | Log group name.  |
| log_stream_name | String | Log stream name. |

| Parameter             | Type   | Description       |
|-----------------------|--------|-------------------|
| log_group_name_alias  | String | Log group alias.  |
| log_stream_name_alias | String | Log stream alias. |

**Table 4-258** AccessConfigHostGroupIdList

| Parameter          | Type             | Description             |
|--------------------|------------------|-------------------------|
| host_group_id_list | Array of strings | List of host group IDs. |

**Table 4-259** accessConfigTagResponse

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

**Status code: 400**

**Table 4-260** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

**Status code: 500**

**Table 4-261** Response body parameters

| Parameter  | Type   | Description       |
|------------|--------|-------------------|
| error_code | String | Error code        |
| error_msg  | String | Error description |

## Example Requests

Modifying a Log Ingestion Configuration (for ECS)

PUT https://{endpoint}/v3/{project\_id}/lts/access-config

```
{
  "access_config_id": "ed90802a-8475-4702-955e-e3ee16a5dde9",
  "access_config_detail": {
    "paths": [ "/test/222", "/test/111" ],
    "black_paths": [ ],
    "format": {
      "multi": {
        "mode": "regular",
        "value": "aaaa"
      }
    },
    "windows_log_info": {
      "categorys": [ "Application", "System" ],
      "time_offset": {
        "offset": 7,
        "unit": "day"
      },
      "event_level": [ "information", "warning", "error", "critical", "verbose" ]
    },
    "host_group_info": {
      "host_group_id_list": [ "de4dbed4-a3bc-4877-a7ee-096a2a63e036" ]
    },
    "access_config_tag": [ {
      "key": "xxx",
      "value": "xxx"
    }, {
      "key": "xxx1",
      "value": "xxx1"
    } ]
  }
}
```

## Example Responses

**Status code: 200**

Ingestion configuration modified.

```
{
  "access_config_detail": {
    "black_paths": [ "/wjy/hei/tesxxx", "/wjy/hei/tesxxx" ],
    "format": {
      "single": {
        "mode": "wildcard",
        "value": "1111"
      }
    },
    "paths": [ "/wjy/tesxxx" ],
    "windows_log_info": {
      "categorys": [ "System", "Application", "Security", "Setup" ],
      "event_level": [ "information", "warning", "error", "critical", "verbose" ],
      "time_offset": {
        "offset": 168,
        "unit": "hour"
      }
    }
  },
  "access_config_id": "aa58d29e-21a9-4761-ba16-8cxxxxd",
  "access_config_name": "CollectionWjy_xxxxt2",
  "access_config_tag": [ {
    "key": "xxx",
    "value": "xxx"
  }, {
    "key": "xxx1",
    "value": "xxx1"
  } ],
  "access_config_type": "AGENT",
}
```

```
"create_time" : 163504332654,
"host_group_info" : {
  "host_group_id_list" : [ "de4dbed4-a3bc-4877-a7ee-09xxxxxx" ]
},
"log_info" : {
  "log_group_id" : "9a7e2183-2d6d-4732-9axxxx49e0",
  "log_group_name" : "lts-groupxxxa",
  "log_group_name_alias" : "lts-groupxxxa",
  "log_stream_id" : "c4de0538-53e6-41fd-b951-xxxx8d7",
  "log_stream_name" : "lts-topixxx",
  "log_stream_name_alias" : "lts-topixxx"
}
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.1807",
  "error_msg" : "Invalid access config id"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Ingestion configuration modified.                                                                |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.6 Log Transfer

## 4.6.1 Creating a Log Transfer Task (Old Version)

### Function

This API is used to transfer logs of one or more specified log streams to Object Storage Service (OBS).

### URI

POST /v2/{project\_id}/log-dump/obs

**Table 4-262** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

### Request Parameters

**Table 4-263** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-264** Request body parameters

| Parameter       | Mandatory | Type             | Description                                                                                                                                            |
|-----------------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_group_id    | Yes       | String           | Log group ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                              |
| log_stream_ids  | Yes       | Array of strings | Indicates IDs of log streams whose logs are to be periodically transferred to OBS. You can specify one or more log streams.                            |
| obs_bucket_name | Yes       | String           | Name of an OBS bucket.<br>Minimum: <b>3</b><br>Maximum: <b>63</b>                                                                                      |
| type            | Yes       | String           | Set this parameter to <b>cycle</b> , which indicates that the log transfer is periodic.<br>Minimum: <b>5</b><br>Maximum: <b>5</b>                      |
| storage_format  | Yes       | String           | Whether the logs are stored in raw or JSON format. The default value is <b>RAW</b> .<br>Minimum length: 3 characters.<br>Maximum length: 4 characters. |
| switch_on       | No        | Boolean          | Whether log transfer is enabled. The value is <b>true</b> (default) or <b>false</b> .                                                                  |
| prefix_name     | No        | String           | The file name prefix of the log files transferred to an OBS bucket.<br>Minimum: <b>0</b><br>Maximum: <b>64</b>                                         |
| dir_prefix_name | No        | String           | A custom path to store the log files.<br>Minimum: <b>0</b><br>Maximum: <b>64</b>                                                                       |
| period          | Yes       | Integer          | Length of the log transfer interval.                                                                                                                   |

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                     |
|-------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| period_unit | Yes       | String | Unit of the log transfer interval.>The combination of <b>period</b> and <b>period_unit</b> must be one of ["2min","5min","30min","1hour","3hour","6hour","12hour"].<br>Minimum: 3<br>Maximum: 4 |

## Response Parameters

**Status code: 201**

**Table 4-265** Response body parameters

| Parameter       | Type   | Description       |
|-----------------|--------|-------------------|
| log_dump_obs_id | String | Transfer task ID. |

**Status code: 400**

**Table 4-266** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403**

**Table 4-267** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-268** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Creating a log transfer task

POST https://{endpoint}/v2/{project\_id}/log-dump/obs

```
{
  "log_group_id": "d9dba9f3-xxxx-48bd-xxxx-xxxxa24a8053",
  "log_stream_ids": [ "45e7f609-xxxx-4cd3-835b-xxxx4a124718" ],
  "obs_bucket_name": "lts-test",
  "type": "cycle",
  "storage_format": "RAW",
  "switch_on": "true",
  "prefix_name": "fileprefixname",
  "dir_prefix_name": "dirprefixname",
  "period": 5,
  "period_unit": "min"
}
```

## Example Responses

**Status code: 200**

The request is successful.

- The log group does not exist.

```
{
  "error_code": "LTS.0201",
  "error_msg": "The log group does not existed"
}
```

- The log stream does not exist.

```
{
  "error_code": "LTS.0208",
  "error_msg": "Log stream id does not exist: 632b9bdc-5afd-4666-a5de-2579f8b80314-"
}
```

- The OBS bucket does not exist.

```
{
  "error_code": "LTS.0416",
  "error_msg": "obs bucket does not exist: zhuanchu"
}
```

- The log stream ID has been associated during log transfer.

```
{
  "error_code": "LTS.0207",
  "error_msg": "Log stream id is associated by transfer: 632b9bdc-5afd-4666-a5de-2579f8b80314"
}
```

- The transfer type is not in the list.

```
{
  "error_code": "LTS.1901",
  "error_msg": "type is not in the list [cycle]"
}
```



- The transfer format is not in the list.

```
{
  "error_code": "LTS.1901",
  "error_msg": "storage_format is not in the list [RAW, JSON]"
}
```

- The transfer interval is not in the list.

```
{
  "error_code": "LTS.1901",
  "error_msg": "period+period_unit is not in the list [2min, 5min, 30min, 1hour, 3hour, 6hour, 12hour]"
}
```

- The transfer unit is not in the list.

```
{
  "error_code": "LTS.1901",
  "error_msg": "period_unit is not in the list [min, hour]"
}
```

- The prefix of the transferred log file is invalid. Check the prefix.

```
{
  "error_code": "LTS.1902",
  "error_msg": "prefix_name is invalid, please verify if it's provided as required"
}
```

- The prefix of the custom transfer path is invalid. Check the prefix.

```
{
  "error_code": "LTS.1902",
  "error_msg": "dir_prefix_name is invalid, please verify if it's provided as required"
}
```

### Status code: 201

The request is successful.

```
{
  "log_dump_obs_id": "45fdc36b-xxxx-4567-xxxx-559xxxxdf968"
}
```

### Status code: 400

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code": "LTS.0007",
  "error_msg": "The request body format must be json"
}
```

### Status code: 403

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

```
{
  "error_code": "LTS.0001",
  "error_msg": "Invalid projectId"
}
```

### Status code: 500

InternalServerError.

The server has received the request but encountered an internal error.

```
InternalServerError. The server has received the request but encountered an internal error.
{
  "error_code": "LTS.0010",
  "error_msg": "Internal Server Error"}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                                                                                                                     |
| 201         | The request is successful.                                                                                                                                                                     |
| 400         | BadRequest. The request is invalid. Modify the request based on the description in <b>error_msg</b> before a retry.                                                                            |
| 403         | Forbidden. The request has been rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                                 |

## Error Codes

See [Error Codes](#).

## 4.6.2 Creating a Log Transfer Task (New Version)

### Function

This API is used to transfer logs to OBS, DIS, and DMS.

### URI

POST /v2/{project\_id}/transfers

**Table 4-269** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-270** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-271** Request body parameters

| Parameter         | Mandatory | Type                                        | Description                                                                                                                  |
|-------------------|-----------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| log_group_id      | Yes       | String                                      | Log group ID.<br>Minimum length: 36 characters.<br>Maximum length: 36 characters<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |
| log_streams       | Yes       | Array of <a href="#">LogStreams</a> objects | Log stream list.                                                                                                             |
| log_transfer_info | Yes       | <a href="#">log_transfer_info</a> object    | Log transfer information.                                                                                                    |

**Table 4-272** LogStreams

| Parameter     | Mandatory | Type   | Description                                                |
|---------------|-----------|--------|------------------------------------------------------------|
| log_stream_id | Yes       | String | Log stream ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

| Parameter       | Mandatory | Type   | Description      |
|-----------------|-----------|--------|------------------|
| log_stream_name | No        | String | Log stream name. |

**Table 4-273** log\_transfer\_info

| Parameter           | Mandatory | Type                                       | Description                                                                                                                                                                                                                                                                             |
|---------------------|-----------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_transfer_type   | Yes       | String                                     | Log transfer type. You can transfer logs to OBS, DIS, and DMS.                                                                                                                                                                                                                          |
| log_transfer_mode   | Yes       | String                                     | Log transfer mode. <b>cycle</b> indicates periodical transfer, and <b>realTime</b> indicates real-time transfer. <b>cycle</b> is available to OBS transfer tasks and <b>realTime</b> is available to DIS and DMS transfer tasks.                                                        |
| log_storage_format  | Yes       | String                                     | Log transfer format. The value can be <b>RAW</b> or <b>JSON</b> . <b>RAW</b> indicates the raw log format, and <b>JSON</b> indicates the JSON format. <b>JSON</b> and <b>RAW</b> are supported for OBS and DIS transfer tasks, but only <b>RAW</b> is supported for DMS transfer tasks. |
| log_transfer_status | Yes       | String                                     | Log transfer status. The value can be <b>ENABLE</b> , <b>DISABLE</b> , or <b>EXCEPTION</b> . <b>ENABLE</b> indicates that log transfer is enabled, <b>DISABLE</b> indicates that log transfer is disabled, and <b>EXCEPTION</b> indicates that log transfer is abnormal.                |
| log_agency_transfer | No        | <a href="#">log_agency_transfer</a> object | Information about delegated log transfer. This parameter is required if you transfer logs for another account.                                                                                                                                                                          |
| log_transfer_detail | Yes       | <a href="#">log_transfer_detail</a> object | Log transfer details.                                                                                                                                                                                                                                                                   |

**Table 4-274** log\_agency\_transfer

| Parameter            | Mandatory | Type   | Description                                                                                       |
|----------------------|-----------|--------|---------------------------------------------------------------------------------------------------|
| agency_domain_id     | Yes       | String | Delegator account ID.                                                                             |
| agency_domain_name   | Yes       | String | Delegator account name.                                                                           |
| agency_name          | Yes       | String | Name of the agency created by the delegator.                                                      |
| agency_project_id    | Yes       | String | Project ID of the delegator.                                                                      |
| be_agency_domain_id  | Yes       | String | Account ID of the delegated party (ID of the account that created the log transfer task).         |
| be_agency_project_id | Yes       | String | Project ID of the delegated party (project ID of the account that created the log transfer task). |

**Table 4-275** log\_transfer\_detail

| Parameter  | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                 |
|------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_period | Yes       | Integer | Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. |

| Parameter           | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_period_unit     | Yes       | String | Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. |
| obs_bucket_name     | Yes       | String | OBS bucket name. This parameter is required when you create an OBS transfer task.<br>Minimum: <b>3</b><br>Maximum: <b>63</b>                                                                                                                                                                                                                              |
| obs_encrypted_id    | No        | String | KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                                                                           |
| obs_dir_prefix_name | No        | String | Custom transfer path of an OBS transfer task. This parameter is optional.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                                                                                                                                      |
| obs_prefix_name     | No        | String | Transfer file prefix of an OBS transfer task. This parameter is optional.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                                                                                                                                      |
| obs_time_zone       | No        | String | Time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, <b>obs_time_zone_id</b> must also be specified.                                                                                                                                                                                     |

| Parameter            | Mandatory | Type    | Description                                                                                                                                                                                                                                                             |
|----------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_time_zone_id     | No        | String  | ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, <b>obs_time_zone</b> must also be specified.                                                                                            |
| dis_id               | No        | String  | DIS stream ID. This parameter is required when you create a DIS transfer task.<br>Minimum: <b>1</b><br>Maximum: <b>128</b>                                                                                                                                              |
| dis_name             | No        | String  | DIS stream name. This parameter is required when you create a DIS transfer task.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                                             |
| kafka_id             | No        | String  | Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."    |
| kafka_topic          | No        | String  | Kafka topic of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance." |
| obs_transfer_path    | No        | String  | OBS bucket path, which is the log transfer destination.                                                                                                                                                                                                                 |
| obs_eps_id           | No        | String  | Enterprise project ID of an OBS transfer task.                                                                                                                                                                                                                          |
| obs_encrypted_enable | No        | Boolean | Whether OBS bucket encryption is enabled.                                                                                                                                                                                                                               |

| Parameter | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tags      | No        | Array of strings | If tag delivery is enabled, this field must contain the following host information: <b>hostIP</b> , <b>hostId</b> , <b>hostName</b> , <b>pathFile</b> , and <b>collectTime</b> .<br>The common fields are <b>logStreamName</b> , <b>regionName</b> , <b>logGroupName</b> , and <b>projectId</b> , which are optional. The tag for enabling transfer is <b>streamTag</b> , which is optional. |

## Response Parameters

Status code: 200

Table 4-276 Response body parameters

| Parameter         | Type                                              | Description               |
|-------------------|---------------------------------------------------|---------------------------|
| log_group_id      | String                                            | Log group ID.             |
| log_group_name    | String                                            | Log group name.           |
| log_streams       | Array of <a href="#">log_streams</a> objects      | Log stream list.          |
| log_transfer_id   | String                                            | Log transfer task ID.     |
| log_transfer_info | <a href="#">log_transfer_info_RespBody</a> object | Log transfer information. |

Table 4-277 log\_streams

| Parameter       | Type   | Description      |
|-----------------|--------|------------------|
| log_stream_id   | String | Log stream ID.   |
| log_stream_name | String | Log stream name. |



**Table 4-278** log\_transfer\_info\_RespBody

| Parameter           | Type                                       | Description                                                                                                                                                                                                                                                                             |
|---------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_agency_transfer | <a href="#">log_agency_transfer</a> object | Information about delegated log transfer. This parameter is returned for a delegated log transfer task.                                                                                                                                                                                 |
| log_create_time     | Integer                                    | Time when the log transfer task was created.                                                                                                                                                                                                                                            |
| log_storage_format  | String                                     | Log transfer format. The value can be <b>RAW</b> or <b>JSON</b> . <b>RAW</b> indicates the raw log format, and <b>JSON</b> indicates the JSON format. <b>JSON</b> and <b>RAW</b> are supported for OBS and DIS transfer tasks, but only <b>RAW</b> is supported for DMS transfer tasks. |
| log_transfer_detail | <a href="#">TransferDetail</a> object      | Log transfer details.                                                                                                                                                                                                                                                                   |
| log_transfer_mode   | String                                     | Log transfer mode. <b>cycle</b> indicates periodical transfer, and <b>realTime</b> indicates real-time transfer. <b>cycle</b> is available to OBS transfer tasks and <b>realTime</b> is available to DIS and DMS transfer tasks.                                                        |
| log_transfer_status | String                                     | Log transfer status. <b>ENABLE</b> indicates that log transfer is enabled, <b>DISABLE</b> indicates that log transfer is disabled, and <b>EXCEPTION</b> indicates that log transfer is abnormal.                                                                                        |
| log_transfer_type   | String                                     | Log transfer type. You can transfer logs to OBS, DIS, and DMS.                                                                                                                                                                                                                          |

**Table 4-279** log\_agency\_transfer

| Parameter           | Type   | Description                                                                               |
|---------------------|--------|-------------------------------------------------------------------------------------------|
| agency_domain_id    | String | Delegator account ID.                                                                     |
| agency_domain_name  | String | Delegator account name.                                                                   |
| agency_name         | String | Name of the agency created by the delegator.                                              |
| agency_project_id   | String | Project ID of the delegator.                                                              |
| be_agency_domain_id | String | Account ID of the delegated party (ID of the account that created the log transfer task). |

| Parameter            | Type   | Description                                                                                       |
|----------------------|--------|---------------------------------------------------------------------------------------------------|
| be_agency_project_id | String | Project ID of the delegated party (project ID of the account that created the log transfer task). |

**Table 4-280** TransferDetail

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_period           | Integer | Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. |
| obs_period_unit      | String  | Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.   |
| obs_bucket_name      | String  | OBS bucket name. This parameter is required when you create an OBS transfer task.                                                                                                                                                                                                                                                                           |
| obs_encrypted_id     | String  | KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.                                                                                                                                                                                                                                         |
| obs_dir_pre_fix_name | String  | Custom transfer path of an OBS transfer task. This parameter is optional.<br>The value must match the regular expression:<br>$\wedge(\wedge)?([a-zA-Z0-9._-]+)(\wedge)/[a-zA-Z0-9._-]+\wedge(\wedge)?\wedge$                                                                                                                                                |

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                 |
|----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_prefix_name      | String  | Transfer file prefix of an OBS transfer task. This parameter is optional.<br>The value must match the regular expression:<br><code>^[a-zA-Z0-9._]*\$</code>                                                                                                                 |
| obs_time_zone        | String  | Time zone for an OBS transfer task. If this parameter is specified, <b>obs_time_zone_id</b> must also be specified.                                                                                                                                                         |
| obs_time_zone_id     | String  | ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, <b>obs_time_zone</b> must also be specified.                                                                                                |
| dis_id               | String  | DIS stream ID. This parameter is required when you create a DIS transfer task.                                                                                                                                                                                              |
| dis_name             | String  | DIS stream name. This parameter is required when you create a DIS transfer task.                                                                                                                                                                                            |
| kafka_id             | String  | Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task.<br><br>Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance." |
| kafka_topic          | String  | Kafka topic of a DMS transfer task.<br><br>Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."                                                              |
| obs_transfer_path    | String  | OBS bucket path, which is the log transfer destination.                                                                                                                                                                                                                     |
| obs_eps_id           | String  | Enterprise project ID of an OBS transfer task.                                                                                                                                                                                                                              |
| obs_encrypted_enable | Boolean | Whether OBS bucket encryption is enabled.                                                                                                                                                                                                                                   |

| Parameter | Type             | Description                                                                                                                                                                                                                                                                                                                                                               |
|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tags      | Array of strings | If tag delivery is enabled, this field must contain the following host information: <b>hostIP</b> , <b>hostId</b> , <b>hostName</b> , <b>pathFile</b> , and <b>collectTime</b> .<br>The common fields include <b>logStreamName</b> , <b>regionName</b> , <b>logGroupName</b> and <b>projectId</b> , which are optional.<br>The transfer tag <b>streamTag</b> is optional. |

**Status code: 400****Table 4-281** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-282** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Example Requests**

- Transferring logs to OBS

POST https://{endpoint}/v2/{project\_id}/transfers

```
{
  "log_group_id": "8ba9e43f-be60-4d8c-9015-xxxxxxxxxxxx",
  "log_streams": [ {
    "log_stream_id": "c776e1a7-8548-430a-afe5-xxxxxxxxxxxx"
  } ],
  "log_transfer_info": {
    "log_transfer_type": "OBS",
    "log_transfer_mode": "xxxxx",
    "log_storage_format": "XXX",
    "log_transfer_status": "XXXXX",
    "log_agency_transfer": {
      "agency_domain_id": "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name": "paas_apm_z004xxxxx_xx",

```

```
"agency_name" : "test20210325",
"agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
"be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
"be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
},
"log_transfer_detail" : {
  "obs_period" : 2,
  "obs_period_unit" : "min",
  "obs_bucket_name" : "xxxxx",
  "obs_encrypted_id" : "1bd90032-1424-481f-8558-ba49854xxxxx",
  "obs_dir_pre_fix_name" : "xx",
  "obs_prefix_name" : "xxxxx",
  "obs_time_zone" : "UTC+01:00",
  "obs_time_zone_id" : "Africa/Lagos"
}
}
```

- **Creating a DIS transfer task**

POST https://{endpoint}/v2/{project\_id}/transfers

```
{
  "log_group_id" : "8ba9e43f-be60-4d8c-9015-xxxxxxxxxxxxx",
  "log_streams" : [ {
    "log_stream_id" : "c776e1a7-8548-430a-afe5-xxxxxxxxxxxxx"
  } ],
  "log_transfer_info" : {
    "log_transfer_type" : "DIS",
    "log_transfer_mode" : "xxxxx",
    "log_storage_format" : "XXX",
    "log_transfer_status" : "XXXXX",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "dis_id" : "i1y8vfMTvf4LQzxxxxx",
      "dis_name" : "xxxxx"
    }
  }
}
```

## Example Responses

**Status code: 200**

The log transfer task is created.

- The following parameters are returned for an OBS transfer task:

```
{
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",

```

```
"agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
"be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
"be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
},
"log_transfer_detail" : {
  "obs_period" : 2,
  "obs_prefix_name" : "",
  "obs_period_unit" : "min",
  "obs_transfer_path" : "/0002/LogTanks/xxxx-7/",
  "obs_bucket_name" : "0002",
  "obs_encrypted_enable" : false,
  "obs_dir_pre_fix_name" : "",
  "obs_time_zone" : "UTC+01:00",
  "obs_time_zone_id" : "Africa/Lagos",
  "tags" : [ ]
},
"log_transfer_mode" : "cycle",
"log_transfer_status" : "ENABLE",
"log_transfer_type" : "OBS"
}
```

- The following parameters are returned for a DIS transfer task:

```
{
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "dis_id" : "xxxxx",
      "dis_name" : "xxxxxx",
      "tags" : [ ]
    },
    "log_transfer_mode" : "cycle",
    "log_transfer_status" : "ENABLE",
    "log_transfer_type" : "OBS"
  }
}
```

- The following parameters are returned for a DMS transfer task:

```
{
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",

```

```
{
  "be_agency_domain_id": "1d26cc8c86a840e28a4f8d0d078xxxxx",
  "be_agency_project_id": "2a473356cca5487f8373be891bfxxxxx"
},
"log_transfer_detail": {
  "kafka_id": "xxxxxx",
  "kafka_topic": "xxxxx",
  "tags": [ ]
},
"log_transfer_mode": "cycle",
"log_transfer_status": "ENABLE",
"log_transfer_type": "OBS"
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code": "LTS.0207",
  "error_msg": "The log stream is associated by transfer"
}
```

**Status code: 500**

InternalServerError. The server has received the request but encountered an internal error.

```
{
  "error_code": "LTS.0207",
  "error_msg": "The log stream is associated by transfer"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The log transfer task is created.                                                                |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | InternalServerError. The server has received the request but encountered an internal error.      |

## Error Codes

See [Error Codes](#).

### 4.6.3 Deleting a Log Transfer Task

#### Function

This API is used to delete an OBS, DIS, or DMS transfer task.

## URI

DELETE /v2/{project\_id}/transfers

**Table 4-283** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

**Table 4-284** Query Parameters

| Parameter       | Mandatory | Type   | Description                                                                                                                                                                                                                              |
|-----------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_transfer_id | Yes       | String | Log transfer task ID. You can obtain the ID by using one of the following methods: 1. Calling the API for querying a log transfer task. 2. Calling the API for creating a log transfer task.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-285** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |



| Parameter    | Mandatory | Type   | Description                                                                                       |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b> |

## Response Parameters

Status code: 200

**Table 4-286** Response body parameters

| Parameter         | Type                                              | Description               |
|-------------------|---------------------------------------------------|---------------------------|
| log_group_id      | String                                            | Log group ID.             |
| log_group_name    | String                                            | Log group name.           |
| log_streams       | Array of <a href="#">log_streams</a> objects      | Log stream list.          |
| log_transfer_id   | String                                            | Log transfer task ID.     |
| log_transfer_info | <a href="#">log_transfer_info_RespBody</a> object | Log transfer information. |

**Table 4-287** log\_streams

| Parameter       | Type   | Description      |
|-----------------|--------|------------------|
| log_stream_id   | String | Log stream ID.   |
| log_stream_name | String | Log stream name. |

**Table 4-288** log\_transfer\_info\_RespBody

| Parameter           | Type                                       | Description                                                                                             |
|---------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------|
| log_agency_transfer | <a href="#">log_agency_transfer</a> object | Information about delegated log transfer. This parameter is returned for a delegated log transfer task. |
| log_create_time     | Integer                                    | Time when the log transfer task was created.                                                            |

| Parameter           | Type                                  | Description                                                                                                                                                                                                                                                                             |
|---------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_storage_format  | String                                | Log transfer format. The value can be <b>RAW</b> or <b>JSON</b> . <b>RAW</b> indicates the raw log format, and <b>JSON</b> indicates the JSON format. <b>JSON</b> and <b>RAW</b> are supported for OBS and DIS transfer tasks, but only <b>RAW</b> is supported for DMS transfer tasks. |
| log_transfer_detail | <a href="#">TransferDetail</a> object | Log transfer details.                                                                                                                                                                                                                                                                   |
| log_transfer_mode   | String                                | Log transfer mode. <b>cycle</b> indicates periodical transfer, and <b>realTime</b> indicates real-time transfer. <b>cycle</b> is available to OBS transfer tasks and <b>realTime</b> is available to DIS and DMS transfer tasks.                                                        |
| log_transfer_status | String                                | Log transfer status. <b>ENABLE</b> indicates that log transfer is enabled, <b>DISABLE</b> indicates that log transfer is disabled, and <b>EXCEPTION</b> indicates that log transfer is abnormal.                                                                                        |
| log_transfer_type   | String                                | Log transfer type. You can transfer logs to OBS, DIS, and DMS.                                                                                                                                                                                                                          |

**Table 4-289** log\_agency\_transfer

| Parameter            | Type   | Description                                                                                       |
|----------------------|--------|---------------------------------------------------------------------------------------------------|
| agency_domain_id     | String | Delegator account ID.                                                                             |
| agency_domain_name   | String | Delegator account name.                                                                           |
| agency_name          | String | Name of the agency created by the delegator.                                                      |
| agency_project_id    | String | Project ID of the delegator.                                                                      |
| be_agency_domain_id  | String | Account ID of the delegated party (ID of the account that created the log transfer task).         |
| be_agency_project_id | String | Project ID of the delegated party (project ID of the account that created the log transfer task). |

**Table 4-290** TransferDetail

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_period           | Integer | Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. |
| obs_period_unit      | String  | Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.   |
| obs_bucket_name      | String  | OBS bucket name. This parameter is required when you create an OBS transfer task.                                                                                                                                                                                                                                                                           |
| obs_encrypted_id     | String  | KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.                                                                                                                                                                                                                                         |
| obs_dir_pre_fix_name | String  | Custom transfer path of an OBS transfer task. This parameter is optional.<br>The value must match the regular expression:<br><code>^(/)?([a-zA-Z0-9._-]+)(/[a-zA-Z0-9._-]+)*(/)?\$</code>                                                                                                                                                                   |
| obs_prefix_name      | String  | Transfer file prefix of an OBS transfer task. This parameter is optional.<br>The value must match the regular expression:<br><code>^[a-zA-Z0-9._-]*\$</code>                                                                                                                                                                                                |
| obs_time_zone        | String  | Time zone for an OBS transfer task. If this parameter is specified, <b>obs_time_zone_id</b> must also be specified.                                                                                                                                                                                                                                         |

| Parameter            | Type             | Description                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_time_zone_id     | String           | ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, <b>obs_time_zone</b> must also be specified.                                                                                                                                                                                                      |
| dis_id               | String           | DIS stream ID. This parameter is required when you create a DIS transfer task.                                                                                                                                                                                                                                                                                                    |
| dis_name             | String           | DIS stream name. This parameter is required when you create a DIS transfer task.                                                                                                                                                                                                                                                                                                  |
| kafka_id             | String           | Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task.<br><br>Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."                                                                                                       |
| kafka_topic          | String           | Kafka topic of a DMS transfer task.<br><br>Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."                                                                                                                                                                    |
| obs_transfer_path    | String           | OBS bucket path, which is the log transfer destination.                                                                                                                                                                                                                                                                                                                           |
| obs_eps_id           | String           | Enterprise project ID of an OBS transfer task.                                                                                                                                                                                                                                                                                                                                    |
| obs_encrypted_enable | Boolean          | Whether OBS bucket encryption is enabled.                                                                                                                                                                                                                                                                                                                                         |
| tags                 | Array of strings | If tag delivery is enabled, this field must contain the following host information: <b>hostIP</b> , <b>hostId</b> , <b>hostName</b> , <b>pathFile</b> , and <b>collectTime</b> .<br><br>The common fields include <b>logStreamName</b> , <b>regionName</b> , <b>logGroupName</b> and <b>projectId</b> , which are optional.<br><br>The transfer tag <b>streamTag</b> is optional. |

**Status code: 400**

**Table 4-291** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-292** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Deleting a log transfer task based on the task ID

```
DELETE https://{endpoint}/v2/{project_id}/transfers
/v2/{project_id}/transfers?log_transfer_id=cfc43c45-9edc-4a03-8578-0eb00cxxxxxx
```

## Example Responses

**Status code: 200**

The log transfer task is deleted.

```
{
  "log_group_id": "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name": "lts-group-kafka",
  "log_streams": [ {
    "log_stream_id": "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name": "lts-topic-kafka"
  } ],
  "log_transfer_id": "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info": {
    "log_create_time": 1634802241847,
    "log_storage_format": "JSON",
    "log_agency_transfer": {
      "agency_domain_id": "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name": "paas_apm_z004xxxxx_xx",
      "agency_name": "test20210325",
      "agency_project_id": "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id": "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id": "2a473356cca5487f8373be891bfxxxxx"
    }
  },
  "log_transfer_detail": {
    "obs_period": 2,
    "obs_prefix_name": "",
    "obs_period_unit": "min",
    "obs_transfer_path": "/0002/LogTanks/xxx/",
    "obs_bucket_name": "0002",
    "obs_encrypted_enable": false,
    "obs_dir_pre_fix_name": ""
  }
}
```

```
{
  "obs_time_zone" : "UTC+01:00",
  "obs_time_zone_id" : "Africa/Lagos",
  "dis_id" : "xxxxx",
  "dis_name" : "xxxxxx",
  "kafka_id" : "xxxxxx",
  "kafka_topic" : "xxxxx"
},
"log_transfer_mode" : "cycle",
"log_transfer_status" : "ENABLE",
"log_transfer_type" : "OBS"
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.0405",
  "error_msg" : "The log transfer does not existed"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The log transfer task is deleted.                                                                |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.6.4 Updating a Log Transfer Task

### Function

This API is used to update an OBS, DIS, or DMS transfer task.

### URI

PUT /v2/{project\_id}/transfers

**Table 4-293** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-294** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-295** Request body parameters

| Parameter         | Mandatory | Type                                            | Description                                                       |
|-------------------|-----------|-------------------------------------------------|-------------------------------------------------------------------|
| log_transfer_id   | Yes       | String                                          | Log transfer task ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |
| log_transfer_info | Yes       | <a href="#">update_log_transfer_info</a> object | Log transfer information.                                         |

**Table 4-296** update\_log\_transfer\_info

| Parameter           | Mandatory | Type                                       | Description                                                                                                                                                                                                                                                                             |
|---------------------|-----------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_storage_format  | Yes       | String                                     | Log transfer format. The value can be <b>RAW</b> or <b>JSON</b> . <b>RAW</b> indicates the raw log format, and <b>JSON</b> indicates the JSON format. <b>JSON</b> and <b>RAW</b> are supported for OBS and DIS transfer tasks, but only <b>RAW</b> is supported for DMS transfer tasks. |
| log_transfer_status | Yes       | String                                     | Log transfer status. <b>ENABLE</b> indicates that log transfer is enabled, <b>DISABLE</b> indicates that log transfer is disabled, and <b>EXCEPTION</b> indicates that log transfer is abnormal.                                                                                        |
| log_transfer_detail | Yes       | <a href="#">log_transfer_detail</a> object | Log transfer details.                                                                                                                                                                                                                                                                   |

**Table 4-297** log\_transfer\_detail

| Parameter  | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                 |
|------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_period | Yes       | Integer | Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. |



| Parameter           | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_period_unit     | Yes       | String | Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. |
| obs_bucket_name     | Yes       | String | OBS bucket name. This parameter is required when you create an OBS transfer task.<br>Minimum: <b>3</b><br>Maximum: <b>63</b>                                                                                                                                                                                                                              |
| obs_encrypted_id    | No        | String | KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                                                                           |
| obs_dir_prefix_name | No        | String | Custom transfer path of an OBS transfer task. This parameter is optional.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                                                                                                                                      |
| obs_prefix_name     | No        | String | Transfer file prefix of an OBS transfer task. This parameter is optional.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                                                                                                                                      |
| obs_time_zone       | No        | String | Time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, <b>obs_time_zone_id</b> must also be specified.                                                                                                                                                                                     |

| Parameter            | Mandatory | Type    | Description                                                                                                                                                                                                                                                             |
|----------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_time_zone_id     | No        | String  | ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, <b>obs_time_zone</b> must also be specified.                                                                                            |
| dis_id               | No        | String  | DIS stream ID. This parameter is required when you create a DIS transfer task.<br>Minimum: <b>1</b><br>Maximum: <b>128</b>                                                                                                                                              |
| dis_name             | No        | String  | DIS stream name. This parameter is required when you create a DIS transfer task.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                                             |
| kafka_id             | No        | String  | Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."    |
| kafka_topic          | No        | String  | Kafka topic of a DMS transfer task. This parameter is required when you create a DMS transfer task. Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance." |
| obs_transfer_path    | No        | String  | OBS bucket path, which is the log transfer destination.                                                                                                                                                                                                                 |
| obs_eps_id           | No        | String  | Enterprise project ID of an OBS transfer task.                                                                                                                                                                                                                          |
| obs_encrypted_enable | No        | Boolean | Whether OBS bucket encryption is enabled.                                                                                                                                                                                                                               |

| Parameter | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tags      | No        | Array of strings | If tag delivery is enabled, this field must contain the following host information: <b>hostIP</b> , <b>hostId</b> , <b>hostName</b> , <b>pathFile</b> , and <b>collectTime</b> .<br>The common fields are <b>logStreamName</b> , <b>regionName</b> , <b>logGroupName</b> , and <b>projectId</b> , which are optional. The tag for enabling transfer is <b>streamTag</b> , which is optional. |

## Response Parameters

Status code: 200

Table 4-298 Response body parameters

| Parameter         | Type                                              | Description               |
|-------------------|---------------------------------------------------|---------------------------|
| log_group_id      | String                                            | Log group ID.             |
| log_group_name    | String                                            | Log group name.           |
| log_streams       | Array of <a href="#">log_streams</a> objects      | Log stream list.          |
| log_transfer_id   | String                                            | Log transfer task ID.     |
| log_transfer_info | <a href="#">log_transfer_info_RespBody</a> object | Log transfer information. |

Table 4-299 log\_streams

| Parameter       | Type   | Description      |
|-----------------|--------|------------------|
| log_stream_id   | String | Log stream ID.   |
| log_stream_name | String | Log stream name. |

**Table 4-300** log\_transfer\_info\_RespBody

| Parameter           | Type                                       | Description                                                                                                                                                                                                                                                                             |
|---------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_agency_transfer | <a href="#">log_agency_transfer</a> object | Information about delegated log transfer. This parameter is returned for a delegated log transfer task.                                                                                                                                                                                 |
| log_create_time     | Integer                                    | Time when the log transfer task was created.                                                                                                                                                                                                                                            |
| log_storage_format  | String                                     | Log transfer format. The value can be <b>RAW</b> or <b>JSON</b> . <b>RAW</b> indicates the raw log format, and <b>JSON</b> indicates the JSON format. <b>JSON</b> and <b>RAW</b> are supported for OBS and DIS transfer tasks, but only <b>RAW</b> is supported for DMS transfer tasks. |
| log_transfer_detail | <a href="#">TransferDetail</a> object      | Log transfer details.                                                                                                                                                                                                                                                                   |
| log_transfer_mode   | String                                     | Log transfer mode. <b>cycle</b> indicates periodical transfer, and <b>realTime</b> indicates real-time transfer. <b>cycle</b> is available to OBS transfer tasks and <b>realTime</b> is available to DIS and DMS transfer tasks.                                                        |
| log_transfer_status | String                                     | Log transfer status. <b>ENABLE</b> indicates that log transfer is enabled, <b>DISABLE</b> indicates that log transfer is disabled, and <b>EXCEPTION</b> indicates that log transfer is abnormal.                                                                                        |
| log_transfer_type   | String                                     | Log transfer type. You can transfer logs to OBS, DIS, and DMS.                                                                                                                                                                                                                          |

**Table 4-301** log\_agency\_transfer

| Parameter           | Type   | Description                                                                               |
|---------------------|--------|-------------------------------------------------------------------------------------------|
| agency_domain_id    | String | Delegator account ID.                                                                     |
| agency_domain_name  | String | Delegator account name.                                                                   |
| agency_name         | String | Name of the agency created by the delegator.                                              |
| agency_project_id   | String | Project ID of the delegator.                                                              |
| be_agency_domain_id | String | Account ID of the delegated party (ID of the account that created the log transfer task). |

| Parameter            | Type   | Description                                                                                       |
|----------------------|--------|---------------------------------------------------------------------------------------------------|
| be_agency_project_id | String | Project ID of the delegated party (project ID of the account that created the log transfer task). |

**Table 4-302** TransferDetail

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_period           | Integer | Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. |
| obs_period_unit      | String  | Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.   |
| obs_bucket_name      | String  | OBS bucket name. This parameter is required when you create an OBS transfer task.                                                                                                                                                                                                                                                                           |
| obs_encrypted_id     | String  | KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.                                                                                                                                                                                                                                         |
| obs_dir_pre_fix_name | String  | Custom transfer path of an OBS transfer task. This parameter is optional.<br>The value must match the regular expression:<br>$^(/)?([a-zA-Z0-9._-]+)(/[a-zA-Z0-9._-]+)?(/)?$$                                                                                                                                                                               |

| Parameter            | Type    | Description                                                                                                                                                                                                                                                                 |
|----------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_prefix_name      | String  | Transfer file prefix of an OBS transfer task. This parameter is optional.<br>The value must match the regular expression:<br><code>^[a-zA-Z0-9._]*\$</code>                                                                                                                 |
| obs_time_zone        | String  | Time zone for an OBS transfer task. If this parameter is specified, <b>obs_time_zone_id</b> must also be specified.                                                                                                                                                         |
| obs_time_zone_id     | String  | ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, <b>obs_time_zone</b> must also be specified.                                                                                                |
| dis_id               | String  | DIS stream ID. This parameter is required when you create a DIS transfer task.                                                                                                                                                                                              |
| dis_name             | String  | DIS stream name. This parameter is required when you create a DIS transfer task.                                                                                                                                                                                            |
| kafka_id             | String  | Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task.<br><br>Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance." |
| kafka_topic          | String  | Kafka topic of a DMS transfer task.<br><br>Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."                                                              |
| obs_transfer_path    | String  | OBS bucket path, which is the log transfer destination.                                                                                                                                                                                                                     |
| obs_eps_id           | String  | Enterprise project ID of an OBS transfer task.                                                                                                                                                                                                                              |
| obs_encrypted_enable | Boolean | Whether OBS bucket encryption is enabled.                                                                                                                                                                                                                                   |

| Parameter | Type             | Description                                                                                                                                                                                                                                                                                                                                                               |
|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tags      | Array of strings | If tag delivery is enabled, this field must contain the following host information: <b>hostIP</b> , <b>hostId</b> , <b>hostName</b> , <b>pathFile</b> , and <b>collectTime</b> .<br>The common fields include <b>logStreamName</b> , <b>regionName</b> , <b>logGroupName</b> and <b>projectId</b> , which are optional.<br>The transfer tag <b>streamTag</b> is optional. |

**Status code: 400****Table 4-303** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-304** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Example Requests**

- Updating an OBS transfer task

```
PUT https://{endpoint}/v2/{project_id}/transfers
```

```
{
  "log_transfer_id" : "9f74e101-b969-483c-a610-d3f3064xxxxx",
  "log_transfer_info" : {
    "log_storage_format" : "JSON",
    "log_transfer_status" : "DISABLE",
    "log_transfer_detail" : {
      "obs_period" : 3,
      "obs_period_unit" : "hour",
      "obs_bucket_name" : "0xxx",
      "obs_encrypted_id" : "1bd90032-1424-481f-8558-ba49854xxxxx",
      "obs_dir_pre_fix_name" : "xx",
      "obs_prefix_name" : "xxxxx",
      "obs_time_zone" : "UTC+01:00",
```

```
    "obs_time_zone_id" : "Africa/Lagos"
  }
}
```

- Updating a DIS transfer task

PUT https://{endpoint}/v2/{project\_id}/transfers

```
{
  "log_transfer_id" : "9f74e101-b969-483c-a610-d3f3064xxxxx",
  "log_transfer_info" : {
    "log_storage_format" : "JSON",
    "log_transfer_status" : "DISABLE",
    "log_transfer_detail" : {
      "dis_id" : "xxxxx",
      "dis_name" : "xxxxxx"
    }
  }
}
```

- Updating a DMS transfer task

PUT https://{endpoint}/v2/{project\_id}/transfers

```
{
  "log_transfer_id" : "9f74e101-b969-483c-a610-d3f3064xxxxx",
  "log_transfer_info" : {
    "log_storage_format" : "JSON",
    "log_transfer_status" : "DISABLE",
    "log_transfer_detail" : {
      "kafka_id" : "xxxxx",
      "kafka_topic" : "xxxxxx"
    }
  }
}
```

## Example Responses

### Status code: 200

The transfer task is updated.

- The following parameters are returned for an OBS transfer task:

```
{
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "obs_period" : 2,
      "obs_prefix_name" : "",
      "obs_period_unit" : "min",
      "obs_transfer_path" : "/0002/LogTanks/xxxx-7/",
      "obs_bucket_name" : "0002",
      "obs_encrypted_enable" : false,

```



```
"obs_dir_pre_fix_name" : "",
"obs_time_zone" : "UTC+01:00",
"obs_time_zone_id" : "Africa/Lagos",
"tags" : [ ]
},
"log_transfer_mode" : "cycle",
"log_transfer_status" : "ENABLE",
"log_transfer_type" : "OBS"
}
}
```

- The following parameters are returned for a DIS transfer task:

```
{
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "dis_id" : "xxxxx",
      "dis_name" : "xxxxxx",
      "tags" : [ ]
    },
    "log_transfer_mode" : "cycle",
    "log_transfer_status" : "ENABLE",
    "log_transfer_type" : "OBS"
  }
}
```

- The following parameters are returned for a DMS transfer task:

```
{
  "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
  "log_group_name" : "lts-group-kafka",
  "log_streams" : [ {
    "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
    "log_stream_name" : "lts-topic-kafka"
  } ],
  "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
  "log_transfer_info" : {
    "log_create_time" : 1634802241847,
    "log_storage_format" : "JSON",
    "log_agency_transfer" : {
      "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "agency_domain_name" : "paas_apm_z004xxxxx_xx",
      "agency_name" : "test20210325",
      "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
      "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
      "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
    },
    "log_transfer_detail" : {
      "kafka_id" : "xxxxxx",
      "kafka_topic" : "xxxxx",
      "tags" : [ ]
    },
    "log_transfer_mode" : "cycle",
    "log_transfer_status" : "ENABLE",
    "log_transfer_type" : "OBS"
  }
}
```

```
}  
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{  
  "error_code" : "LTS.0009",  
  "error_msg" : "The Field transfer id is invalid or missing."  
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{  
  "error_code" : "LTS.0010",  
  "error_msg" : "The system encountered an internal error"  
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The transfer task is updated.                                                                    |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.6.5 Querying a Log Transfer Task

### Function

This API is used to query an OBS, DIS, or DMS transfer task.

### URI

GET /v2/{project\_id}/transfers

**Table 4-305** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

**Table 4-306** Query Parameters

| Parameter         | Mandatory | Type    | Description                                                                                                                                                                      |
|-------------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_transfer_type | No        | String  | Log transfer type. You can transfer logs to OBS, DIS, and DMS.                                                                                                                   |
| log_group_name    | No        | String  | Log group name.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                       |
| log_stream_name   | No        | String  | Log stream name.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                      |
| offset            | No        | Integer | Query cursor. Set the value to 0 in the first query. In subsequent queries, obtain the value from the response to the last request.<br>Minimum: <b>0</b><br>Maximum: <b>1024</b> |
| limit             | No        | Integer | Number of records on each page. The maximum value is 100.<br>Minimum: <b>0</b><br>Maximum: <b>100</b>                                                                            |

## Request Parameters

**Table 4-307** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

Status code: 200

**Table 4-308** Response body parameters

| Parameter     | Type                                                        | Description                    |
|---------------|-------------------------------------------------------------|--------------------------------|
| log_transfers | Array of <a href="#">CreateTransferResponseBody</a> objects | Log transfer task information. |

**Table 4-309** CreateTransferResponseBody

| Parameter         | Type                                              | Description               |
|-------------------|---------------------------------------------------|---------------------------|
| log_group_id      | String                                            | Log group ID.             |
| log_group_name    | String                                            | Log group name.           |
| log_streams       | Array of <a href="#">log_streams</a> objects      | Log stream list.          |
| log_transfer_id   | String                                            | Log transfer task ID.     |
| log_transfer_info | <a href="#">log_transfer_info_RespBody</a> object | Log transfer information. |

**Table 4-310** log\_streams

| Parameter       | Type   | Description      |
|-----------------|--------|------------------|
| log_stream_id   | String | Log stream ID.   |
| log_stream_name | String | Log stream name. |

**Table 4-311** log\_transfer\_info\_RespBody

| Parameter           | Type                                       | Description                                                                                                                                                                                                                                                                             |
|---------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_agency_transfer | <a href="#">log_agency_transfer</a> object | Information about delegated log transfer. This parameter is returned for a delegated log transfer task.                                                                                                                                                                                 |
| log_create_time     | Integer                                    | Time when the log transfer task was created.                                                                                                                                                                                                                                            |
| log_storage_format  | String                                     | Log transfer format. The value can be <b>RAW</b> or <b>JSON</b> . <b>RAW</b> indicates the raw log format, and <b>JSON</b> indicates the JSON format. <b>JSON</b> and <b>RAW</b> are supported for OBS and DIS transfer tasks, but only <b>RAW</b> is supported for DMS transfer tasks. |
| log_transfer_detail | <a href="#">TransferDetail</a> object      | Log transfer details.                                                                                                                                                                                                                                                                   |
| log_transfer_mode   | String                                     | Log transfer mode. <b>cycle</b> indicates periodical transfer, and <b>realTime</b> indicates real-time transfer. <b>cycle</b> is available to OBS transfer tasks and <b>realTime</b> is available to DIS and DMS transfer tasks.                                                        |
| log_transfer_status | String                                     | Log transfer status. <b>ENABLE</b> indicates that log transfer is enabled, <b>DISABLE</b> indicates that log transfer is disabled, and <b>EXCEPTION</b> indicates that log transfer is abnormal.                                                                                        |
| log_transfer_type   | String                                     | Log transfer type. You can transfer logs to OBS, DIS, and DMS.                                                                                                                                                                                                                          |

**Table 4-312** log\_agency\_transfer

| Parameter        | Type   | Description           |
|------------------|--------|-----------------------|
| agency_domain_id | String | Delegator account ID. |

| Parameter            | Type   | Description                                                                                       |
|----------------------|--------|---------------------------------------------------------------------------------------------------|
| agency_domain_name   | String | Delegator account name.                                                                           |
| agency_name          | String | Name of the agency created by the delegator.                                                      |
| agency_project_id    | String | Project ID of the delegator.                                                                      |
| be_agency_domain_id  | String | Account ID of the delegated party (ID of the account that created the log transfer task).         |
| be_agency_project_id | String | Project ID of the delegated party (project ID of the account that created the log transfer task). |

**Table 4-313** TransferDetail

| Parameter        | Type    | Description                                                                                                                                                                                                                                                                                                                                                 |
|------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_period       | Integer | Length of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. |
| obs_period_unit  | String  | Unit of the transfer interval for an OBS transfer task. This parameter is required when you create an OBS transfer task. The log transfer interval is specified by the combination of the values of <b>obs_period</b> and <b>obs_period_unit</b> , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.   |
| obs_bucket_name  | String  | OBS bucket name. This parameter is required when you create an OBS transfer task.                                                                                                                                                                                                                                                                           |
| obs_encrypted_id | String  | KMS key ID for an OBS transfer task. This parameter is required if encryption is enabled for the target OBS bucket.                                                                                                                                                                                                                                         |

| Parameter            | Type   | Description                                                                                                                                                                                                                                                             |
|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_dir_pre_fix_name | String | Custom transfer path of an OBS transfer task. This parameter is optional.<br>The value must match the regular expression:<br><code>^(/)?([a-zA-Z0-9._-]+)(/[a-zA-Z0-9._-]+)*(/)?\$</code>                                                                               |
| obs_prefix_name      | String | Transfer file prefix of an OBS transfer task. This parameter is optional.<br>The value must match the regular expression:<br><code>^[a-zA-Z0-9._-]*\$</code>                                                                                                            |
| obs_time_zone        | String | Time zone for an OBS transfer task. If this parameter is specified, <b>obs_time_zone_id</b> must also be specified.                                                                                                                                                     |
| obs_time_zone_id     | String | ID of the time zone for an OBS transfer task. For details, see Time Zone List for OBS Transfer. If this parameter is specified, <b>obs_time_zone</b> must also be specified.                                                                                            |
| dis_id               | String | DIS stream ID. This parameter is required when you create a DIS transfer task.                                                                                                                                                                                          |
| dis_name             | String | DIS stream name. This parameter is required when you create a DIS transfer task.                                                                                                                                                                                        |
| kafka_id             | String | Kafka ID of a DMS transfer task. This parameter is required when you create a DMS transfer task.<br>Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance." |
| kafka_topic          | String | Kafka topic of a DMS transfer task.<br>Before creating a DMS transfer task, register your Kafka instance with Kafka ID and Kafka topic first. For details, see section "Registering a DMS Kafka Instance."                                                              |
| obs_transfer_path    | String | OBS bucket path, which is the log transfer destination.                                                                                                                                                                                                                 |

| Parameter            | Type             | Description                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obs_eps_id           | String           | Enterprise project ID of an OBS transfer task.                                                                                                                                                                                                                                                                                                                            |
| obs_encrypted_enable | Boolean          | Whether OBS bucket encryption is enabled.                                                                                                                                                                                                                                                                                                                                 |
| tags                 | Array of strings | If tag delivery is enabled, this field must contain the following host information: <b>hostIP</b> , <b>hostId</b> , <b>hostName</b> , <b>pathFile</b> , and <b>collectTime</b> .<br>The common fields include <b>logStreamName</b> , <b>regionName</b> , <b>logGroupName</b> and <b>projectId</b> , which are optional.<br>The transfer tag <b>streamTag</b> is optional. |

**Status code: 400****Table 4-314** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-315** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

If no parameter is specified, all log transfer tasks are returned. If `log_transfer_type`, `log_group_name`, and `log_stream_name` are specified, the corresponding log transfer task is returned.

```
GET https://{endpoint}/v2/{project_id}/transfers
```

```
/v2/{project_id}/transfers /v2/{project_id}/transfers?log_group_name=lbs-group-txxx /v2/{project_id}/  
transfers?log_transfer_type=OBS /v2/{project_id}/transfers?log_stream_name=lbs-topic-testRexxx /v2/  
{project_id}/transfers?log_group_name=lbs-group-txxx&log_transfer_type=OBS /v2/{project_id}/transfers?
```



```
log_group_name=lhs-group-txxx&log_stream_name=lhs-topic-testRxxx /v2/{project_id}/transfers?  
log_transfer_type=OBS&log_stream_name=lhs-topic-testRxxx /v2/{project_id}/transfers?log_group_name=lhs-  
group-txxx&log_transfer_type=OBS&log_stream_name=lhs-topic-testRxxx
```

## Example Responses

### Status code: 200

The query is successful.

- The following parameters are returned for an OBS transfer task:

```
{  
  "log_transfers" : [ {  
    "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",  
    "log_group_name" : "lhs-group-kafka",  
    "log_streams" : [ {  
      "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",  
      "log_stream_name" : "lhs-topic-kafka"  
    } ],  
    "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",  
    "log_transfer_info" : {  
      "log_create_time" : 1634802241847,  
      "log_storage_format" : "JSON",  
      "log_agency_transfer" : {  
        "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",  
        "agency_domain_name" : "paas_apm_z004xxxxx_xx",  
        "agency_name" : "test20210325",  
        "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",  
        "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",  
        "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"  
      },  
      "log_transfer_detail" : {  
        "obs_period" : 2,  
        "obs_prefix_name" : "",  
        "obs_period_unit" : "min",  
        "obs_transfer_path" : "/0002/LogTanks/xxx/",  
        "obs_bucket_name" : "0002",  
        "obs_encrypted_enable" : false,  
        "obs_dir_pre_fix_name" : "",  
        "obs_time_zone" : "UTC+01:00",  
        "obs_time_zone_id" : "Africa/Lagos"  
      },  
      "log_transfer_mode" : "cycle",  
      "log_transfer_status" : "ENABLE",  
      "log_transfer_type" : "OBS"  
    }  
  } ]  
}
```

- The following parameters are returned for a DIS transfer task:

```
{  
  "log_transfers" : [ {  
    "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",  
    "log_group_name" : "lhs-group-kafka",  
    "log_streams" : [ {  
      "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",  
      "log_stream_name" : "lhs-topic-kafka"  
    } ],  
    "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",  
    "log_transfer_info" : {  
      "log_create_time" : 1634802241847,  
      "log_storage_format" : "JSON",  
      "log_agency_transfer" : {  
        "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",  
        "agency_domain_name" : "paas_apm_z004xxxxx_xx",  
        "agency_name" : "test20210325",  
        "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",  
        "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",  
        "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"  
      },  
      "log_transfer_detail" : {  
        "obs_period" : 2,  
        "obs_prefix_name" : "",  
        "obs_period_unit" : "min",  
        "obs_transfer_path" : "/0002/LogTanks/xxx/",  
        "obs_bucket_name" : "0002",  
        "obs_encrypted_enable" : false,  
        "obs_dir_pre_fix_name" : "",  
        "obs_time_zone" : "UTC+01:00",  
        "obs_time_zone_id" : "Africa/Lagos"  
      },  
      "log_transfer_mode" : "cycle",  
      "log_transfer_status" : "ENABLE",  
      "log_transfer_type" : "DIS"  
    }  
  } ]  
}
```

```
    "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
  },
  "log_transfer_detail" : {
    "dis_id" : "xxxxx",
    "dis_name" : "xxxxxx"
  },
  "log_transfer_mode" : "cycle",
  "log_transfer_status" : "ENABLE",
  "log_transfer_type" : "OBS"
}
}]
}
```

- The following parameters are returned for a DMS transfer task:

```
{
  "log_transfers" : [ {
    "log_group_id" : "9a7e2183-2d6d-4732-9a9b-e897fd4e49e0",
    "log_group_name" : "lts-group-kafka",
    "log_streams" : [ {
      "log_stream_id" : "839dac89-35af-4db2-ab4a-a7dda0d0d3f8",
      "log_stream_name" : "lts-topic-kafka"
    } ],
    "log_transfer_id" : "ddced522-233a-4181-a5fc-7b458c819afc",
    "log_transfer_info" : {
      "log_create_time" : 1634802241847,
      "log_storage_format" : "JSON",
      "log_agency_transfer" : {
        "agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
        "agency_domain_name" : "paas_apm_z004xxxxx_xx",
        "agency_name" : "test20210325",
        "agency_project_id" : "2a473356cca5487f8373be891bfxxxxx",
        "be_agency_domain_id" : "1d26cc8c86a840e28a4f8d0d078xxxxx",
        "be_agency_project_id" : "2a473356cca5487f8373be891bfxxxxx"
      },
      "log_transfer_detail" : {
        "kafka_id" : "xxxxxx",
        "kafka_topic" : "xxxxx"
      },
      "log_transfer_mode" : "cycle",
      "log_transfer_status" : "ENABLE",
      "log_transfer_type" : "OBS"
    }
  } ]
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid log transfer type"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The query is successful.                                                                         |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

# 4.7 Log Collection Beyond Free Quota

## 4.7.1 Disabling Log Collection Beyond Free Quota

### Function

This API is used to configure log collection to stop when the free quota runs out.

### URI

POST /v2/{project\_id}/collection/disable

**Table 4-316** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |

## Request Parameters

**Table 4-317** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code: 403**

**Table 4-318** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-319** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Disabling log collection beyond free quota

```
POST https://{endpoint}/v2/{project_id}/collection/disable  
/v2/{project_id}/collection/disable
```

## Example Responses

### Status code: 403

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

### Status code: 500

Failed to change the setting of log collection beyond the free quota.

```
{
  "error_code" : "LTS.0210",
  "error_msg" : "Update continue Collection Status error."
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                                                                                                                   |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | Failed to change the setting of log collection beyond the free quota.                                                                                                                        |

## Error Codes

See [Error Codes](#).

## 4.7.2 Enabling Log Collection Beyond Free Quota

### Function

This API is used to configure log collection to continue when the free quota runs out.

### URI

POST /v2/{project\_id}/collection/enable

**Table 4-320** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-321** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code: 403**

**Table 4-322** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-323** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Enabling log collection beyond free quota

```
POST https://{endpoint}/v2/{project_id}/collection/enable
/v2/{project_id}/collection/enable
```

## Example Responses

### Status code: 403

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

### Status code: 500

Failed to change the setting of log collection beyond the free quota.

```
{
  "error_code" : "LTS.0210",
  "error_msg" : "Update continue Collection Status error."
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                                                                                                                     |
| 403         | Forbidden. The request has been rejected. The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | Failed to change the setting of log collection beyond the free quota.                                                                                                                          |
| 503         | ServiceUnavailable. The requested service is unavailable.                                                                                                                                      |

## Error Codes

See [Error Codes](#).

## 4.8 Cloud Structuring

### 4.8.1 Creating Structuring Configurations (Recommended)

#### Function

This API is used to create structuring configurations using a structuring template, which facilitates parameter extraction and simplifies the parameter structure.

A user can call this API only once per second.

#### URI

POST /v3/{project\_id}/lts/struct/template

**Table 4-324** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

#### Request Parameters

**Table 4-325** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |



**Table 4-326** Request body parameters

| Parameter     | Mandatory | Type                                        | Description                                                                                                                                                                                                                                                                  |
|---------------|-----------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_group_id  | Yes       | String                                      | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                        |
| log_stream_id | Yes       | String                                      | Log stream ID. For details about how to obtain a log stream ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                      |
| template_id   | Yes       | String                                      | Template ID. When the system template is used, the current attribute can be empty.<br>Minimum: <b>0</b><br>Maximum: <b>36</b>                                                                                                                                                |
| template_name | Yes       | String                                      | Template name, which cannot be empty and will be verified.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                                                                        |
| template_type | Yes       | String                                      | Type of the template. The value can be <b>built_in</b> (system templates) or <b>custom</b> (custom templates). For details about system template types, see section "Log Search and Analysis" > "Cloud Structuring Parsing" > "Structuring Templates" in the LTS User Guide. |
| demo_fields   | No        | Array of <a href="#">FieldModel</a> objects | Example field array. You only need to enter the fields whose status is different from that of <b>is_analysis</b> in the template.                                                                                                                                            |
| tag_fields    | No        | Array of <a href="#">FieldModel</a> objects | Tag field array. You only need to enter the fields whose status is different from that of <b>is_analysis</b> in the template.                                                                                                                                                |

| Parameter      | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                      |
|----------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| quick_analysis | No        | Boolean | Indicates whether to enable quick analysis for <b>demo_fields</b> and <b>tag_fields</b> . If this parameter is set to <b>true</b> , quick analysis is enabled for all fields. If this parameter is left blank or set to <b>false</b> , <b>is_analysis</b> in the template is used to determine whether to enable quick analysis. |

**Table 4-327** FieldModel

| Parameter   | Mandatory | Type    | Description                                                                                                                   |
|-------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------|
| field_name  | Yes       | String  | Field name. A log event can be split into multiple fields with customizable names.<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |
| is_analysis | No        | Boolean | Whether quick analysis is enabled.                                                                                            |

## Response Parameters

**Status code: 201**

**Table 4-328** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 400**

**Table 4-329** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-330** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

- Creating an ELB system template

POST https://{endpoint}/v3/{project\_id}/lts/struct/template

```
{
  "log_group_id" : "17f23e52-a23d-46e0-8bc5-xxxxxxxxxxxx",
  "log_stream_id" : "b4d56d47-b4c4-453e-9047-xxxxxxxxxxxx",
  "demo_fields" : [ {
    "field_name" : "msec",
    "is_analysis" : false
  }, {
    "field_name" : "access_log_topic_id",
    "is_analysis" : false
  }, {
    "field_name" : "time_iso8601",
    "is_analysis" : false
  }, {
    "field_name" : "log_ver",
    "is_analysis" : true
  }, {
    "field_name" : "remote_addr",
    "is_analysis" : true
  }, {
    "field_name" : "remote_port",
    "is_analysis" : false
  }, {
    "field_name" : "status",
    "is_analysis" : false
  }, {
    "field_name" : "request_method",
    "is_analysis" : false
  }, {
    "field_name" : "scheme",
    "is_analysis" : true
  }, {
    "field_name" : "host",
    "is_analysis" : true
  }, {
    "field_name" : "router_request_uri",
    "is_analysis" : true
  }, {
    "field_name" : "server_protocol",
    "is_analysis" : true
  }, {
    "field_name" : "request_length",
    "is_analysis" : true
  }, {
    "field_name" : "bytes_sent",
    "is_analysis" : false
  }, {
    "field_name" : "body_bytes_sent",
    "is_analysis" : false
  }, {

```

```
"field_name" : "request_time",
"is_analysis" : false
}, {
  "field_name" : "upstream_status",
  "is_analysis" : false
}, {
  "field_name" : "upstream_connect_time",
  "is_analysis" : false
}, {
  "field_name" : "upstream_header_time",
  "is_analysis" : false
}, {
  "field_name" : "upstream_response_time",
  "is_analysis" : false
}, {
  "field_name" : "upstream_addr",
  "is_analysis" : false
}, {
  "field_name" : "http_user_agent",
  "is_analysis" : false
}, {
  "field_name" : "http_referer",
  "is_analysis" : false
}, {
  "field_name" : "http_x_forwarded_for",
  "is_analysis" : false
}, {
  "field_name" : "lb_name",
  "is_analysis" : false
}, {
  "field_name" : "listener_name",
  "is_analysis" : false
}, {
  "field_name" : "listener_id",
  "is_analysis" : false
}, {
  "field_name" : "pool_name",
  "is_analysis" : false
}, {
  "field_name" : "member_name",
  "is_analysis" : false
}, {
  "field_name" : "tenant_id",
  "is_analysis" : false
}, {
  "field_name" : "eip_address",
  "is_analysis" : false
}, {
  "field_name" : "eip_port",
  "is_analysis" : false
}, {
  "field_name" : "upstream_addr_priv",
  "is_analysis" : false
}, {
  "field_name" : "certificate_id",
  "is_analysis" : false
}, {
  "field_name" : "ssl_protocol",
  "is_analysis" : false
}, {
  "field_name" : "ssl_cipher",
  "is_analysis" : false
}, {
  "field_name" : "sni_domain_name",
  "is_analysis" : false
}, {
  "field_name" : "tcpinfo_rtt",
  "is_analysis" : false
} ],
```

```
"tag_fields" : [ {  
  "field_name" : "hostIP",  
  "is_analysis" : true  
} ],  
"template_type" : "built_in",  
"template_name" : "ELB",  
"template_id" : "",  
"quick_analysis" : false  
}
```

- Creating a VPC system template

POST https://{endpoint}/v3/{project\_id}/lts/struct/template

```
{  
  "log_group_id" : "17f23e52-a23d-46e0-8bc5-xxxxxxxxxxxx",  
  "log_stream_id" : "b4d56d47-b4c4-453e-9047-xxxxxxxxxxxx",  
  "demo_fields" : [ {  
    "field_name" : "version",  
    "is_analysis" : false  
  }, {  
    "field_name" : "project_id",  
    "is_analysis" : true  
  }, {  
    "field_name" : "interface_id",  
    "is_analysis" : false  
  }, {  
    "field_name" : "srcaddr",  
    "is_analysis" : true  
  }, {  
    "field_name" : "dstaddr",  
    "is_analysis" : true  
  }, {  
    "field_name" : "srcport",  
    "is_analysis" : false  
  }, {  
    "field_name" : "dstport",  
    "is_analysis" : false  
  }, {  
    "field_name" : "protocol",  
    "is_analysis" : false  
  }, {  
    "field_name" : "packets",  
    "is_analysis" : false  
  }, {  
    "field_name" : "bytes",  
    "is_analysis" : false  
  }, {  
    "field_name" : "start",  
    "is_analysis" : false  
  }, {  
    "field_name" : "end",  
    "is_analysis" : false  
  }, {  
    "field_name" : "action",  
    "is_analysis" : true  
  }, {  
    "field_name" : "log_status",  
    "is_analysis" : true  
  } ],  
  "tag_fields" : [ {  
    "field_name" : "hostIP",  
    "is_analysis" : true  
  } ],  
  "template_type" : "built_in",  
  "template_name" : "VPC",  
  "template_id" : "",  
  "quick_analysis" : false  
}
```

## Example Responses

### Status code: 201

The request is successful.

```
none
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.2014",
  "error_msg" : "template_id is invalid!"
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2014",
  "error_msg" : "Failed to create struct config."
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 201         | The request is successful.                                                                       |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.8.2 Modifying Structuring Configurations (Recommended)

### Function

This API is used to modify structuring configurations using a structuring template.

### URI

PUT /v3/{project\_id}/lts/struct/template

**Table 4-331** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-332** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-333** Request body parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                                                           |
|--------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_group_id | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

| Parameter      | Mandatory | Type                                        | Description                                                                                                                                                                                                                                                                                                                      |
|----------------|-----------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| log_stream_id  | Yes       | String                                      | Log stream ID. For details about how to obtain a log stream ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                          |
| template_id    | Yes       | String                                      | Template ID. When the system template is used, the current attribute can be empty.<br>Minimum: <b>0</b><br>Maximum: <b>36</b>                                                                                                                                                                                                    |
| template_name  | Yes       | String                                      | Template name, which cannot be empty and will be verified.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                                                                                                                                                                                                            |
| template_type  | Yes       | String                                      | Type of the template. The value can be <b>built_in</b> (system templates) or <b>custom</b> (custom templates). For details about system template types, see section "Log Search and Analysis" > "Cloud Structuring Parsing" > "Structuring Templates" in the LTS User Guide.                                                     |
| demo_fields    | No        | Array of <a href="#">FieldModel</a> objects | Example field array. You only need to enter the fields whose status is different from that of <b>is_analysis</b> in the template.                                                                                                                                                                                                |
| tag_fields     | No        | Array of <a href="#">FieldModel</a> objects | Tag field array. You only need to enter the fields whose status is different from that of <b>is_analysis</b> in the template.                                                                                                                                                                                                    |
| quick_analysis | No        | Boolean                                     | Indicates whether to enable quick analysis for <b>demo_fields</b> and <b>tag_fields</b> . If this parameter is set to <b>true</b> , quick analysis is enabled for all fields. If this parameter is left blank or set to <b>false</b> , <b>is_analysis</b> in the template is used to determine whether to enable quick analysis. |



**Table 4-334** FieldModel

| Parameter   | Mandatory | Type    | Description                                                                                                                   |
|-------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------|
| field_name  | Yes       | String  | Field name. A log event can be split into multiple fields with customizable names.<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |
| is_analysis | No        | Boolean | Whether quick analysis is enabled.                                                                                            |

## Response Parameters

**Status code: 201**

**Table 4-335** Response body parameters

| Parameter | Type   | Description |
|-----------|--------|-------------|
| -         | String |             |

**Status code: 400**

**Table 4-336** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-337** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

- Modifying an ELB system template

PUT https://{endpoint}/v3/{project\_id}/lts/struct/template

```
{
  "log_group_id" : "17f23e52-a23d-46e0-8bc5-xxxxxxxxxxxx",
  "log_stream_id" : "b4d56d47-b4c4-453e-9047-xxxxxxxxxxxx",
  "demo_fields" : [ {
    "field_name" : "msec",
    "is_analysis" : false
  }, {
    "field_name" : "access_log_topic_id",
    "is_analysis" : false
  }, {
    "field_name" : "time_iso8601",
    "is_analysis" : false
  }, {
    "field_name" : "log_ver",
    "is_analysis" : true
  }, {
    "field_name" : "remote_addr",
    "is_analysis" : true
  }, {
    "field_name" : "remote_port",
    "is_analysis" : false
  }, {
    "field_name" : "status",
    "is_analysis" : false
  }, {
    "field_name" : "request_method",
    "is_analysis" : false
  }, {
    "field_name" : "scheme",
    "is_analysis" : true
  }, {
    "field_name" : "host",
    "is_analysis" : true
  }, {
    "field_name" : "router_request_uri",
    "is_analysis" : true
  }, {
    "field_name" : "server_protocol",
    "is_analysis" : true
  }, {
    "field_name" : "request_length",
    "is_analysis" : true
  }, {
    "field_name" : "bytes_sent",
    "is_analysis" : false
  }, {
    "field_name" : "body_bytes_sent",
    "is_analysis" : false
  }, {
    "field_name" : "request_time",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_status",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_connect_time",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_header_time",
    "is_analysis" : false
  }, {
    "field_name" : "upstream_response_time",
    "is_analysis" : false
  }, {
  }
```

```
"field_name" : "upstream_addr",
"is_analysis" : false
}, {
  "field_name" : "http_user_agent",
  "is_analysis" : false
}, {
  "field_name" : "http_referer",
  "is_analysis" : false
}, {
  "field_name" : "http_x_forwarded_for",
  "is_analysis" : false
}, {
  "field_name" : "lb_name",
  "is_analysis" : false
}, {
  "field_name" : "listener_name",
  "is_analysis" : false
}, {
  "field_name" : "listener_id",
  "is_analysis" : false
}, {
  "field_name" : "pool_name",
  "is_analysis" : false
}, {
  "field_name" : "member_name",
  "is_analysis" : false
}, {
  "field_name" : "tenant_id",
  "is_analysis" : false
}, {
  "field_name" : "eip_address",
  "is_analysis" : false
}, {
  "field_name" : "eip_port",
  "is_analysis" : false
}, {
  "field_name" : "upstream_addr_priv",
  "is_analysis" : false
}, {
  "field_name" : "certificate_id",
  "is_analysis" : false
}, {
  "field_name" : "ssl_protocol",
  "is_analysis" : false
}, {
  "field_name" : "ssl_cipher",
  "is_analysis" : false
}, {
  "field_name" : "sni_domain_name",
  "is_analysis" : false
}, {
  "field_name" : "tcpinfo_rtt",
  "is_analysis" : false
} ],
"tag_fields" : [ {
  "field_name" : "hostIP",
  "is_analysis" : true
} ],
"template_type" : "built_in",
"template_name" : "ELB",
"template_id" : "",
"quick_analysis" : false
}
```

- **Modifying a VPC system template**

[https://{endpoint}/v3/{project\\_id}/lts/struct/template](https://{endpoint}/v3/{project_id}/lts/struct/template)

```
{
  "log_group_id" : "17f23e52-a23d-46e0-8bc5-xxxxxxxxxxxx",
  "log_stream_id" : "b4d56d47-b4c4-453e-9047-xxxxxxxxxxxx",
```

```
"demo_fields" : [ {  
  "field_name" : "version"  
}, {  
  "field_name" : "project_id"  
}, {  
  "field_name" : "interface_id"  
}, {  
  "field_name" : "srcaddr"  
}, {  
  "field_name" : "dstaddr"  
}, {  
  "field_name" : "srcport"  
}, {  
  "field_name" : "dstport"  
}, {  
  "field_name" : "protocol"  
}, {  
  "field_name" : "packets"  
}, {  
  "field_name" : "bytes"  
}, {  
  "field_name" : "start"  
}, {  
  "field_name" : "end"  
}, {  
  "field_name" : "action"  
}, {  
  "field_name" : "log_status"  
} ],  
"tag_fields" : [ {  
  "field_name" : "hostIP",  
  "is_analysis" : true  
} ],  
"template_type" : "built_in",  
"template_name" : "VPC",  
"template_id" : "",  
"quick_analysis" : false  
}
```

## Example Responses

### Status code: 201

The request is successful.

```
None
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{  
  "error_code" : "LTS.2014",  
  "error_msg" : "Failed to create struct config."  
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{  
  "error_code" : "LTS.2016",  
  "error_msg" : "Failed to update struct config"  
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 201         | The request is successful.                                                                       |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.8.3 Deleting a Structuring Rule

#### Function

This API is used to delete a structuring rule of a log stream.

#### URI

DELETE /v2/{project\_id}/lts/struct/template

**Table 4-338** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |

## Request Parameters

**Table 4-339** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-340** Request body parameters

| Parameter | Mandatory | Type   | Description                                                        |
|-----------|-----------|--------|--------------------------------------------------------------------|
| id        | Yes       | String | Structuring rule ID.<br>Minimum: <b>106</b><br>Maximum: <b>106</b> |

## Response Parameters

**Status code: 200**

**Table 4-341** Response body parameters

| Parameter  | Type   | Description                       |
|------------|--------|-----------------------------------|
| error_code | String | SVCSTG.ALS.200200                 |
| error_msg  | String | delete struct config successfully |

**Status code: 400**

**Table 4-342** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error code. |

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| error_msg | String | Error message. |

**Status code: 401****Table 4-343** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-344** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-345** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Deleting the structuring rule of the current ID

```
DELETE https://{endpoint}/v2/{project_id}/lts/struct/template
```

```
/v2/{project_id}/lts/struct/template
{
  "id": "2a473356cca5487f8373be891bffc1cf_8a75b77d-7d72-4d7e-8c50-
a24562cf8b0b_fd5e1a7c-7412-475d-a013-8891d539574e"
}
```

## Example Responses

**Status code: 200**

The structuring rule is deleted.

```
{
  "id" : "xxxxxx"
}
```

**Status code: 400**

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "errorCode" : "LTS.0612",
  "errorMessage" : "timee fieldType is error"
}
```

**Status code: 401**

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0414",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | The structuring rule is deleted.                                                                                                                                                             |
| 400         | BadRequest. The request is invalid. Modify the request based on the description in <b>error_msg</b> before a retry.                                                                          |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                            |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |



| Status Code | Description                                                                                    |
|-------------|------------------------------------------------------------------------------------------------|
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error. |
| 503         | ServiceUnavailable. The requested service is unavailable.                                      |

## Error Codes

See [Error Codes](#).

## 4.8.4 Querying a Structuring Rule

### Function

This API is used to query the structuring rule of a specified log stream.

### URI

GET /v2/{project\_id}/lts/struct/template

**Table 4-346** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

**Table 4-347** Query Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                           |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| logGroupId | Yes       | String | Log group ID. For details about how to obtain a log group ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                             |
|-------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| logStreamId | Yes       | String | Log stream ID. For details about how to obtain a log stream ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-348** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code: 200**

**Table 4-349** Response body parameters

| Parameter  | Type                                                   | Description                         |
|------------|--------------------------------------------------------|-------------------------------------|
| demoFields | Array of <a href="#">StructFieldInfoReturn</a> objects | Structured field.                   |
| tagFields  | Array of <a href="#">tag_fields_info</a> objects       | Keyword details.                    |
| demoLog    | String                                                 | Sample log event.                   |
| demoLabel  | String                                                 | Attributes of the sample log event. |

| Parameter    | Type                                                 | Description          |
|--------------|------------------------------------------------------|----------------------|
| id           | String                                               | Structuring rule ID. |
| logGroupId   | String                                               | Log group ID.        |
| rule         | <a href="#">ShowStructTemplateRule</a> object        | Structuring method.  |
| cluster_info | <a href="#">ShowStructTemplateClusterInfo</a> object | Kafka information.   |
| logStreamId  | String                                               | Log stream ID.       |
| projectId    | String                                               | Project ID.          |
| templateName | String                                               | Template name.       |
| regex        | String                                               | Regular expression.  |

**Table 4-350** StructFieldInfoReturn

| Parameter  | Type    | Description                 |
|------------|---------|-----------------------------|
| fieldName  | String  | Field name.                 |
| type       | String  | Field data type.            |
| content    | String  | Field content.              |
| isAnalysis | Boolean | Whether parsing is enabled. |
| index      | Integer | Field sequence number.      |

**Table 4-351** tag\_fields\_info

| Parameter  | Type    | Description                 |
|------------|---------|-----------------------------|
| fieldName  | String  | Field name.                 |
| type       | String  | Field type.                 |
| content    | String  | Content.                    |
| isAnalysis | Boolean | Whether parsing is enabled. |
| index      | Integer | Field sequence number.      |

**Table 4-352** ShowStructTemplateRule

| Parameter | Type   | Description            |
|-----------|--------|------------------------|
| param     | String | Structuring parameter. |
| type      | String | Structuring type.      |

**Table 4-353** ShowStructTemplateclusterInfo

| Parameter               | Type    | Description                                                |
|-------------------------|---------|------------------------------------------------------------|
| cluster_name            | String  | Kafka cluster name.                                        |
| kafka_bootstrap_servers | String  | Kafka cluster server address.                              |
| kafka_ssl_enable        | Boolean | Whether SSL encrypted authentication is enabled for Kafka. |

**Status code: 400****Table 4-354** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 401****Table 4-355** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 403****Table 4-356** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error code. |

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| error_msg | String | Error message. |

**Status code: 500**

**Table 4-357** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

```
GET https://{endpoint}/v2/{project_id}/lts/struct/template?logGroupId=123456&logStreamId=654321
```

## Example Responses

**Status code: 200**

Details of the structuring rule are returned.

```
{
  "demoFields": [ {
    "content": "100.19.10.178",
    "fieldName": "authority",
    "index": 0,
    "isAnalysis": true,
    "type": "string"
  }, {
    "content": "0",
    "fieldName": "bytes_received",
    "index": 0,
    "isAnalysis": true,
    "type": "string"
  }, {
    "content": "1127",
    "fieldName": "bytes_sent",
    "index": 0,
    "isAnalysis": true,
    "type": "string"
  } ]
}
```

**Status code: 400**

BadRequest. The request is invalid. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "errorCode": "SVCSTG.ALS.200201",
  "errorMessage": "Query Param is error."
}
```

**Status code: 401**

AuthFailed. Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0414",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

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

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

InternalServerError.

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0102",
  "error_msg" : "Query empty."
}
```

## Status Codes

| Status Code | Description                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200         | Details of the structuring rule are returned.                                                                                                                                                |
| 400         | BadRequest. The request is invalid. Modify the request based on the description in <b>error_msg</b> before a retry.                                                                          |
| 401         | AuthFailed. Authentication failed. Check the token and try again.                                                                                                                            |
| 403         | Forbidden.The request has been rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500         | InternalServerError.<br>The server has received the request but encountered an internal error.                                                                                               |
| 503         | ServiceUnavailable. The requested service is unavailable.                                                                                                                                    |

## Error Codes

See [Error Codes](#).

## 4.8.5 Querying the Brief List of Structuring Templates

### Function

This API is used to query the brief list of structuring templates.

## URI

GET /v3/{project\_id}/lts/struct/customtemplate/list

**Table 4-358** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-359** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code:** 200

**Table 4-360** Response body parameters

| Parameter | Type                                                      | Description                          |
|-----------|-----------------------------------------------------------|--------------------------------------|
| results   | Array of <a href="#">BriefStructTemplateModel</a> objects | Brief list of structuring templates. |

**Table 4-361** BriefStructTemplateModel

| Parameter     | Type   | Description                                                                                 |
|---------------|--------|---------------------------------------------------------------------------------------------|
| create_time   | Long   | Template creation/update time.                                                              |
| id            | String | Template ID.                                                                                |
| template_name | String | Template name.                                                                              |
| template_type | String | Structuring type. Currently, regular expression, JSON, delimiters, and Nginx are supported. |
| project_id    | String | Project ID.                                                                                 |

**Status code: 400****Table 4-362** Response body parameters

| Parameter | Type                                           | Description            |
|-----------|------------------------------------------------|------------------------|
| message   | <a href="#">CustomTemplateErrorCode</a> object | Request error message. |

**Table 4-363** CustomTemplateErrorCode

| Parameter | Type   | Description     |
|-----------|--------|-----------------|
| code      | String | LTS error code. |
| details   | String | Error message.  |

**Status code: 500****Table 4-364** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Obtaining the Brief List of Structuring Templates of the Current Tenant

```
GET https://{endpoint}/v3/{project_id}/lts/struct/customtemplate/list  
/v3/{project_id}/lts/struct/customtemplate/list
```



## Example Responses

### Status code: 200

The request is successful.

```
{
  "results": [ {
    "create_time": 1632897983441,
    "id": "47629e46-287d-478c-8888-xxxxxxxxxxxx",
    "template_name": "jsonTemplate",
    "template_type": "json",
    "project_id": "2a473356cca5487f8373be89xxxxxxxx"
  } ]
}
```

### Status code: 400

Custom log template operation failed.

```
{
  "message": {
    "code": "LTS.0757",
    "details": "Log custom template operation failed"
  }
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code": "LTS.2017",
  "error_msg": "Find struct template failed."
}
```

## Status Codes

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 200         | The request is successful.                                             |
| 400         | Custom log template operation failed.                                  |
| 500         | The server has received the request but encountered an internal error. |

## Error Codes

See [Error Codes](#).

## 4.8.6 Querying a Structuring Template

### Function

This API is used to query a structuring template.

Note:

A user can call this API for up to 50 times per second.

## URI

GET /v3/{project\_id}/lts/struct/customtemplate

**Table 4-365** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

**Table 4-366** Query Parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                      |
|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id        | No        | String | ID of the template to be queried. This parameter is optional. If this parameter is not specified, all custom structuring templates used in the project are returned.<br>Minimum: <b>36</b><br>Maximum: <b>36</b> |

## Request Parameters

**Table 4-367** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |

| Parameter    | Mandatory | Type   | Description                                                                                       |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b> |

## Response Parameters

Status code: 200

**Table 4-368** Response body parameters

| Parameter | Type                                        | Description                                        |
|-----------|---------------------------------------------|----------------------------------------------------|
| results   | Array of <b>StructTemplateModel</b> objects | Array of queried customized structuring templates. |

**Table 4-369** StructTemplateModel

| Parameter     | Type                                | Description                                                                    |
|---------------|-------------------------------------|--------------------------------------------------------------------------------|
| project_id    | String                              | Project ID.                                                                    |
| template_name | String                              | Template name.                                                                 |
| template_type | String                              | Template type. The options are regular expression, JSON, delimiter, and Nginx. |
| demo_log      | String                              | Sample log event.                                                              |
| demo_fields   | Array of <b>DemoField</b> objects   | Example field array.                                                           |
| tag_fields    | Array of <b>TagFieldNew</b> objects | Tag field array.                                                               |
| rule          | <b>TemplateRule</b> object          | Structuring rule object.                                                       |
| demo_label    | String                              | Example log tag.                                                               |
| create_time   | Long                                | Creation time.                                                                 |
| id            | String                              | Template ID.                                                                   |

**Table 4-370** DemoField

| Parameter         | Type    | Description                                                                        |
|-------------------|---------|------------------------------------------------------------------------------------|
| field_name        | String  | Field name.                                                                        |
| content           | String  | Example field content, which is the example value of a field.                      |
| type              | String  | Field data type.<br>Value: <b>string</b> , <b>long</b> , or <b>float</b>           |
| is_analysis       | Boolean | Whether to enable quick analysis.                                                  |
| index             | Integer | Field number in manual regular expression and delimiter modes.                     |
| relation          | String  | Describes the hierarchical relationship between fields in a multi-level JSON file. |
| user_defined_name | String  | Custom field alias in JSON and Nginx modes.                                        |

**Table 4-371** TagFieldNew

| Parameter   | Type    | Description                                                              |
|-------------|---------|--------------------------------------------------------------------------|
| field_name  | String  | Field name.                                                              |
| content     | String  | Example field content, which is the example value of a field.            |
| type        | String  | Field data type.<br>Value: <b>string</b> , <b>long</b> , or <b>float</b> |
| is_analysis | Boolean | Whether to enable quick analysis.                                        |
| index       | Integer | Sequence number (starting from 0).                                       |

**Table 4-372** TemplateRule

| Parameter | Type   | Description                                                                                 |
|-----------|--------|---------------------------------------------------------------------------------------------|
| type      | String | Structuring type. Currently, regular expression, JSON, delimiters, and Nginx are supported. |

| Parameter | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| param     | String | <p>Specific structuring rule. Each structuring type has a unique structure:</p> <p>A manual regular expression is a JSON string that contains the <b>keyObject</b> and <b>regex_rules</b> objects. <b>keyObject</b> contains key-value pairs, where a key indicates the index of an element in the <b>demo_fields</b> array, and a value indicates <b>field_name</b>. <b>regex_rules</b> is a regular expression. Example:</p> <pre>{\ "keyObject\":{\ "1\":"date\","2\":"num\n"},\ "regex_rules\":"^(?&lt;date&gt;[^\"]+)(?:[^\"]* )?{8}(?&lt;num&gt;\\\\d+)\\"}</pre> <p>In JSON mode, <b>param</b> is a JSON string that contains the <b>keyObject</b> and <b>layers</b> objects. <b>keyObject</b> contains key-value pairs, where a key indicates the <b>field_name</b> of an element in the <b>demo_fields</b> array, and a value indicates <b>user_defined_name</b>. <b>layers</b> indicates the maximum number of parsing layers. Its maximum value is 4. Example:</p> <pre>{\ "keyObject\":{\ "metadata.dimension\n\":"dimension\","metadata.value\n\":"\","metadata.unit\":"\","collectionTime\n\":"\","layers\":3}</pre> <p>The delimiter mode uses a JSON string that contains the <b>keyObject</b> and <b>tokenizer</b> objects. <b>keyObject</b> contains key-value pairs, where a key indicates the index of an element in the <b>demo_fields</b> array, and a value indicates <b>field_name</b>. <b>tokenizer</b> indicates delimiters. Example:</p> <pre>{\ "keyObject\":{\ "0\":"field1\","1\":"field2\","2\":"field3\","3\":"field4\","4\":"field5\","5\":"field6\","6\":"field7\","7\":"field8\","8\":"field9\","tokenizer\n\":"\\"}</pre> <p>The Nginx mode uses a JSON string that contains the <b>keyObject</b>, <b>regex</b>, <b>field_names</b>, and <b>log_format</b> objects. <b>keyObject</b> contains key-value pairs, where a key indicates the <b>field_name</b> of an element in the <b>demo_fields</b> array, and a value indicates <b>user_defined_name</b>. <b>regex</b> is a regular expression, where the <b>field_names</b> object is the combination of <b>field_name</b> of each element in the</p> |

| Parameter | Type | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |      | <p><b>demo_fields</b> array. <b>field_names</b> are separated by commas (.). The <b>log_format</b> object indicates the Nginx log formatting mode. Example:</p> <pre>{\"keyObject\": {      \"http_host\": \"host\",     \"remote_addr\": \"\",     \"request_method\": \"\",     \"request_uri\": \"\",     \"time_local\": \"\",     \"regex\": \"^(\\\\\\\\d+\\\\\\\\S+\\\\\\\\d+\\\\\\\\d+\\\\\\\\d+:\\\\\\\\d+:\\\\\\\\d+)\\\\\\\\s+\\\\\\\\S+\\\\\\\\s+(\\\\\\\\S*)\\\\\\\\s+(\\\\\\\\S*)\\\\\\\\s+(\\\\\\\\S*)\\\\\\\\s+\\\\\\\\s+\\\\\\\\s+\"([^\"]*)\"\\\\\\\\s.*\",     \"fieldNames\": \"time_local,remote_addr,request_method,http_host,request_uri\",     \"log_format\": \"log_format '\$supstreaminfo '\$time_local \$remote_addr \$request_method \$http_host\\\\\\\\'\$request_uri\\\\\\\\'\";\" }</pre> |

**Status code: 400**

### Table 4-373 Response body parameters

| Parameter | Type                                                               | Description            |
|-----------|--------------------------------------------------------------------|------------------------|
| message   | <a href="#">CustomTemplate</a><br><a href="#">ErrorCode</a> object | Request error message. |

### Table 4-374 CustomTemplateErrorCode

| Parameter | Type   | Description     |
|-----------|--------|-----------------|
| code      | String | LTS error code. |
| details   | String | Error message.  |

**Status code: 500**

### Table 4-375 Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

### Querying Details About the Current Structuring Template

```
GET https://{endpoint}/v3/{project_id}/lts/struct/customtemplate?id=bc8e3f2c-87fe-4acd-8439-69cdf29251c1/v3/{project_id}/lts/struct/customtemplate?id=bc8e3f2c-87fe-4acd-8439-69cdf29251c1
```

## Example Responses

### Status code: 200

The request is successful.

```
{
  "results": [ {
    "create_time": 1641258099551,
    "demo_fields": [ {
      "content": "2022-01-03/14:52:28",
      "field_name": "field1",
      "index": 0,
      "is_analysis": true,
      "type": "string"
    }, {
      "content": "this",
      "field_name": "field2",
      "index": 1,
      "is_analysis": true,
      "type": "string"
    }, {
      "content": "log",
      "field_name": "field3",
      "index": 2,
      "is_analysis": false,
      "type": "string"
    }, {
      "content": "is",
      "field_name": "field4",
      "index": 3,
      "is_analysis": false,
      "type": "string"
    }, {
      "content": "Error",
      "field_name": "field5",
      "index": 4,
      "is_analysis": false,
      "type": "string"
    }, {
      "content": "NO",
      "field_name": "field6",
      "index": 5,
      "is_analysis": false,
      "type": "string"
    }, {
      "content": "13 testing.",
      "field_name": "field7",
      "index": 6,
      "is_analysis": false,
      "type": "string"
    }, {
      "content": "286",
      "field_name": "field8",
      "index": 7,
      "is_analysis": false,
      "type": "long"
    } ],
    "demo_log": "2022-01-03/14:52:28 this log is Error NO 13 testing 286.",
    "id": "43a8cc7b-b632-4c36-a65d-8150e98219f1",
    "project_id": "2a473356cca5487f8373be89xxxxxxx",
    "rule": {
      "param": "{keyObject}":
{"0\":"field1\","1\":"field2\","2\":"field3\","3\":"field4\","4\":"field5\","5\":"field6\","6\":"field7\","7\":"field8\","tokenizer\":" \"\""},

```

```
{
  "type" : "split"
},
"demo_label" : "here is a demo label",
"tag_fields" : [ {
  "content" : "172.16.10.69",
  "field_name" : "hostIP",
  "index" : 0,
  "is_analysis" : true,
  "type" : "string"
} ],
"template_name" : "testSplit13",
"template_type" : "split"
}]
}
```

**Status code: 400**

The ID does not exist.

```
{
  "message" : {
    "code" : "LTS.0751",
    "details" : "custom template doesn't exist"
  }
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2017",
  "error_msg" : "Find struct template failed."
}
```

## Status Codes

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 200         | The request is successful.                                             |
| 400         | The ID does not exist.                                                 |
| 500         | The server has received the request but encountered an internal error. |

## Error Codes

See [Error Codes](#).

## 4.9 Alarm Topics

### 4.9.1 Querying an SMN Topic

#### Function

This API is used to query an SMN topic.



## URI

GET /v2/{project\_id}/lts/notifications/topics

**Table 4-376** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

**Table 4-377** Query Parameters

| Parameter  | Mandatory | Type    | Description                                                                                                                                                                      |
|------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset     | Yes       | Integer | Query cursor. Set the value to 0 in the first query. In subsequent queries, obtain the value from the response to the last request.<br>Minimum: <b>0</b><br>Maximum: <b>1024</b> |
| limit      | Yes       | Integer | Number of records on each page. The maximum value is 100.<br>Minimum: <b>0</b><br>Maximum: <b>100</b>                                                                            |
| fuzzy_name | No        | String  | Specifies the name of the topic to be searched for, which is fuzzy match. startwith is used for the fuzzy match.                                                                 |

## Request Parameters

**Table 4-378** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

Status code: 200

**Table 4-379** Response body parameters

| Parameter   | Type                                    | Description             |
|-------------|-----------------------------------------|-------------------------|
| request_id  | String                                  | Unique ID of a request. |
| topic_count | Integer                                 | Number of topics.       |
| topics      | Array of <a href="#">Topics</a> objects | Topic information.      |

**Table 4-380** Topics

| Parameter    | Type    | Description                                                                                             |
|--------------|---------|---------------------------------------------------------------------------------------------------------|
| name         | String  | Topic name.                                                                                             |
| topic_urn    | String  | Specifies the resource identifier of the topic, which is unique.                                        |
| display_name | String  | Specifies the topic display name, which is presented as the name of the email sender in email messages. |
| push_policy  | Integer | Specifies the message push policy.                                                                      |

**Status code: 400****Table 4-381** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-382** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Querying an SMN topic

```
GET https://{endpoint}/v2/{project_id}/lts/notifications/topics
/v2/{project_id}/lts/notifications/topics?offset={offset}&limit={limit}
```

## Example Responses

**Status code: 200**

The request is successful.

```
{
  "request_id" : "1",
  "topic_count" : 100,
  "topics" : [ {
    "name" : "test",
    "topic_urn" : "urn:smn:xxx-7:{projectId}:fyy",
    "display_name" : "username",
    "push_policy" : 0
  } ]
}
```

**Status code: 400**

Insufficient permissions.

```
{
  "error_code" : "LTS.2009",
  "error_msg" : "User must have SMN service authority."
}
```

**Status code: 500**

The request is successful but the service is abnormal.

```
{  
  "error_code" : "LTS.0010",  
  "error_msg" : "Internal Server Error"  
}
```

## Status Codes

| Status Code | Description                                            |
|-------------|--------------------------------------------------------|
| 200         | The request is successful.                             |
| 400         | Insufficient permissions.                              |
| 500         | The request is successful but the service is abnormal. |

## Error Codes

See [Error Codes](#).

# 4.10 Message Template Management

## 4.10.1 Creating a Message Template

### Function

This API is used to create a notification template. Currently, each account can create a maximum of 100 notification templates. After a notification template is created, its name cannot be changed.

### URI

POST /v2/{project\_id}/{domain\_id}/lts/events/notification/templates

**Table 4-383** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                        |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| domain_id | Yes       | String | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-384** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-385** Request body parameters

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                     |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name      | Yes       | String | Notification rule name, which is mandatory. The value can contain only digits, letters, underscores (_), and hyphens (-), and cannot start or end with special characters such as underscores. The value can contain 1 to 100 characters and cannot be changed after being created.<br>Minimum: <b>1</b><br>Maximum: <b>100</b> |

| Parameter | Mandatory | Type                                | Description                                                                                                                                                                                                                                      |
|-----------|-----------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type      | No        | Array of strings                    | Notification method.                                                                                                                                                                                                                             |
| desc      | No        | String                              | Template description, which is mandatory. The value can contain only digits, letters, and underscores (_), and cannot start or end with an underscore. The value can contain 0 to 1,024 characters.<br>Minimum: <b>0</b><br>Maximum: <b>1024</b> |
| source    | Yes       | String                              | Template source. Currently, this parameter must be set to LTS. Otherwise, the template cannot be filtered.<br>Minimum: <b>3</b><br>Maximum: <b>3</b>                                                                                             |
| locale    | Yes       | String                              | Language type, for example, <b>en-us</b> .                                                                                                                                                                                                       |
| templates | Yes       | Array of <b>SubTemplate</b> objects | Template body is an array.                                                                                                                                                                                                                       |

**Table 4-386** SubTemplate

| Parameter | Mandatory | Type   | Description                                                 |
|-----------|-----------|--------|-------------------------------------------------------------|
| sub_type  | Yes       | String | Template subtype, for example, <b>sms</b> or <b>email</b> . |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| content   | Yes       | String | <p>Sub-template body. A variable following a dollar symbol (\$) can only be one of the following variables. The supported variables vary according to alarm types. Currently, the variables supported for keyword alarms are as follows:</p> <ul style="list-style-type: none"><li>Severity: \${event_severity};</li><li>Occurred: \${starts_at};</li><li>Alarm source: \$event.metadata.resource_provider;</li><li>Resource type: \$event.metadata.resource_type;</li><li>Resource ID: \${resources};</li><li>Statistical type: by keyword;</li><li>Expression: \$event.annotations.condition_expression;</li><li>Current value: \$event.annotations.current_value;</li><li>Statistical period: \$event.annotations.frequency;</li><li>Query time: \$event.annotations.results[0].time;</li><li>Query log: \$event.annotations.results[0].raw_results;</li></ul> <p><b>NOTE</b><br/>Each variable must be followed by an English semicolon (;). Otherwise, the template replacement fails.</p> <p>Minimum: <b>2</b><br/>Maximum: <b>1024</b></p> |
| topic     | No        | String | Email subject. This parameter is valid only when <b>sub_type</b> is set to <b>email</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Response Parameters

**Status code: 200**

**Table 4-387** Response body parameters

| Parameter | Type                                                 | Description                       |
|-----------|------------------------------------------------------|-----------------------------------|
| name      | String                                               | Notification rule name.           |
| type      | Array of strings                                     | Notification method.              |
| desc      | String                                               | Template description.             |
| source    | String                                               | Template source.                  |
| locale    | String                                               | Language.                         |
| templates | Array of <a href="#">SubTemplateRes Body</a> objects | Template body, which is an array. |

**Table 4-388** SubTemplateResBody

| Parameter | Type   | Description                                                                                                                                                                      |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sub_type  | String | Template subtype, for example, <b>sms</b> or <b>email</b> .                                                                                                                      |
| content   | String | Sub-template body. A variable following a dollar symbol (\$) can only be one of the following variables. The supported variables vary according to alarm types (keyword or SQL). |
| topic     | String | Email subject. This parameter is valid only when <b>sub_type</b> is set to <b>email</b> .                                                                                        |

**Status code: 400**

**Table 4-389** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**



**Table 4-390** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

### Creating a message template

POST https://{endpoint}/v2/{project\_id}/{domain\_id}/lts/events/notification/templates

```
{
  "name" : "alarm-template",
  "desc" : "test",
  "source" : "LTS",
  "locale" : "en-us",
  "templates" : [ {
    "sub_type" : "sms",
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical
type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value:
$event.annotations.current_value;\nStatistical period: $event.annotations.frequency;"
  }, {
    "sub_type" : "email",
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source:
$event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: $
{resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent
value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time:
$event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;"
  } ]
}
```

## Example Responses

### Status code: 200

The request is successful.

```
{
  "desc" : "description",
  "locale" : "en-us",
  "name" : "postman-test",
  "source" : "LTS",
  "templates" : [ {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical
type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value:
$event.annotations.current_value;\nStatistical period: $event.annotations.frequency;",
    "sub_type" : "sms"
  }, {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source:
$event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: $
{resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent
value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time:
$event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;",
    "sub_type" : "email"
  } ]
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.2014",
  "error_msg" : "desc is invalid!"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2014",
  "error_msg" : "Failed to create notification template."
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                       |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.10.2 Modifying a Message Template

### Function

This API is used to modify a notification template base on its name.

### URI

PUT /v2/{project\_id}/{domain\_id}/lts/events/notification/templates

**Table 4-391** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                        |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| domain_id | Yes       | String | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-392** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-393** Request body parameters

| Parameter | Mandatory | Type             | Description                                                                                                            |
|-----------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------|
| name      | Yes       | String           | Notification rule name, which cannot be changed after the rule is created.<br>Minimum: <b>1</b><br>Maximum: <b>100</b> |
| type      | No        | Array of strings | Notification method.                                                                                                   |

| Parameter | Mandatory | Type                                               | Description                                                                                                                                                                                                                                      |
|-----------|-----------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| desc      | No        | String                                             | Template description, which is mandatory. The value can contain only digits, letters, and underscores (_), and cannot start or end with an underscore. The value can contain 0 to 1,024 characters.<br>Minimum: <b>0</b><br>Maximum: <b>1024</b> |
| source    | Yes       | String                                             | Template source. Currently, this parameter must be set to LTS. Otherwise, the template cannot be filtered.<br>Minimum: <b>3</b><br>Maximum: <b>3</b>                                                                                             |
| locale    | Yes       | String                                             | Language.<br>• <b>en-us</b>                                                                                                                                                                                                                      |
| templates | Yes       | Array of <a href="#">UpdateSubTemplate</a> objects | Template body, which is an array.                                                                                                                                                                                                                |

**Table 4-394** UpdateSubTemplate

| Parameter | Mandatory | Type   | Description                                                 |
|-----------|-----------|--------|-------------------------------------------------------------|
| sub_type  | Yes       | String | Template subtype, for example, <b>sms</b> or <b>email</b> . |

| Parameter | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| content   | Yes       | String | <p>Sub-template body. A variable following a dollar symbol (\$) can only be one of the following variables. The supported variables vary according to alarm types. Currently, the variables supported for keyword alarms are as follows:</p> <ul style="list-style-type: none"><li>Severity: \${event_severity};</li><li>Occurred: \${starts_at};</li><li>Alarm source: \$event.metadata.resource_provider;</li><li>Resource type: \$event.metadata.resource_type;</li><li>Resource ID: \${resources};</li><li>Statistical type: by keyword;</li><li>Expression: \$event.annotations.condition_expression;</li><li>Current value: \$event.annotations.current_value;</li><li>Statistical period: \$event.annotations.frequency;</li><li>Query time: \$event.annotations.results[0].time;</li><li>Query log: \$event.annotations.results[0].raw_results;</li></ul> <p><b>NOTE</b><br/>Each variable must be followed by an English semicolon (;). Otherwise, the template replacement fails.</p> |
| topic     | No        | String | Email subject. This parameter is valid only when <b>sub_type</b> is set to <b>email</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Response Parameters

Status code: 201

**Table 4-395** Response body parameters

| Parameter | Type                                                | Description                       |
|-----------|-----------------------------------------------------|-----------------------------------|
| name      | String                                              | Notification rule name.           |
| type      | Array of strings                                    | Notification method.              |
| desc      | String                                              | Template description.             |
| source    | String                                              | Template source.                  |
| locale    | String                                              | Language.                         |
| templates | Array of <a href="#">SubTemplateResBody</a> objects | Template body, which is an array. |

**Table 4-396** SubTemplateResBody

| Parameter | Type   | Description                                                                                                                                                                      |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sub_type  | String | Template subtype, for example, <b>sms</b> or <b>email</b> .                                                                                                                      |
| content   | String | Sub-template body. A variable following a dollar symbol (\$) can only be one of the following variables. The supported variables vary according to alarm types (keyword or SQL). |
| topic     | String | Email subject. This parameter is valid only when <b>sub_type</b> is set to <b>email</b> .                                                                                        |

**Status code: 400****Table 4-397** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-398** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

### Modifying a message template

PUT https://{endpoint}/v2/{project\_id}/{domain\_id}/lts/events/notification/templates

```
{
  "name" : "alarm-template",
  "desc" : "test",
  "source" : "LTS",
  "locale" : "en-us",
  "templates" : [ {
    "sub_type" : "sms",
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical
type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value:
$event.annotations.current_value;\nStatistical period: $event.annotations.frequency;"
  }, {
    "sub_type" : "email",
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source:
$event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: $
{resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent
value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time:
$event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;"
  } ]
}
```

## Example Responses

### Status code: 201

The request is successful.

```
{
  "desc" : "description",
  "locale" : "en-us",
  "name" : "postman-test1",
  "source" : "LTS",
  "templates" : [ {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical
type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value:
$event.annotations.current_value;\nStatistical period: $event.annotations.frequency;",
    "sub_type" : "sms"
  }, {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source:
$event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: $
{resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent
value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time:
$event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;",
    "sub_type" : "email"
  } ]
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.2016",
  "error_msg" : "desc is invalid!"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2016",
  "error_msg" : "Failed to update notification template"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 201         | The request is successful.                                                                       |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.10.3 Querying Message Templates

### Function

This API is used to query the message template list.

### URI

GET /v2/{project\_id}/{domain\_id}/lts/events/notification/templates

**Table 4-399** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |



| Parameter | Mandatory | Type   | Description                                                                                                                                                                                        |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| domain_id | Yes       | String | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-400** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

Status code: 200

**Table 4-401** Response body parameters

| Parameter | Type                                                  | Description     |
|-----------|-------------------------------------------------------|-----------------|
| results   | Array of <a href="#">NotificationTemplate</a> objects | Template array. |

**Table 4-402** NotificationTemplate

| Parameter   | Type                                                | Description                                                                                                                                           |
|-------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| name        | String                                              | Notification rule name.                                                                                                                               |
| type        | Array of strings                                    | Notification method.                                                                                                                                  |
| desc        | String                                              | Template description.                                                                                                                                 |
| source      | String                                              | Template source.                                                                                                                                      |
| locale      | String                                              | Language.                                                                                                                                             |
| templates   | Array of <a href="#">SubTemplateResBody</a> objects | Template body, which is an array.                                                                                                                     |
| create_time | Long                                                | Creation time (timestamp in milliseconds).                                                                                                            |
| modify_time | Long                                                | Update time (timestamp in milliseconds).                                                                                                              |
| project_id  | String                                              | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID</a> . |

**Table 4-403** SubTemplateResBody

| Parameter | Type   | Description                                                                                                                                                                      |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sub_type  | String | Template subtype, for example, <b>sms</b> or <b>email</b> .                                                                                                                      |
| content   | String | Sub-template body. A variable following a dollar symbol (\$) can only be one of the following variables. The supported variables vary according to alarm types (keyword or SQL). |
| topic     | String | Email subject. This parameter is valid only when <b>sub_type</b> is set to <b>email</b> .                                                                                        |

**Status code: 500****Table 4-404** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error code. |

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| error_msg | String | Error message. |

## Example Requests

Querying a message template

```
GET https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/templates
/v2/{project_id}/{domain_id}/lts/events/notification/templates
```

## Example Responses

**Status code: 200**

The request is successful.

```
{
  "results": [ {
    "create_time": 1701352010150,
    "desc": "This is the email test mode.",
    "locale": "en-us",
    "modify_time": 1701352010150,
    "name": "15nWzUsOHA",
    "project_id": "2a473356cca5487f8373be891bffc1cf",
    "source": "LTS",
    "templates": [ {
      "content": "\\\"This is an email test template.\\\"\"",
      "sub_type": "email"
    } ],
    "type": [ "" ]
  }, {
    "create_time": 1702021411612,
    "desc": "This is the SMS test mode.",
    "locale": "en-us",
    "modify_time": 1702021411612,
    "name": "RZ2ObeluNN",
    "project_id": "2a473356cca5487f8373be891bffc1cf",
    "source": "LTS",
    "templates": [ {
      "content": "\\\"This is an SMS test template.\\\"\"",
      "sub_type": "sms"
    } ],
    "type": [ "" ]
  } ]
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code": "LTS.2017",
  "error_msg": "Find Alarm rule failed."
}
```

### Status Codes

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 200         | The request is successful.                                             |
| 500         | The server has received the request but encountered an internal error. |

### Error Codes

See [Error Codes](#).

## 4.10.4 Deleting a Message Template

### Function

This API is used to delete a notification template.

### URI

DELETE /v2/{project\_id}/{domain\_id}/lts/events/notification/templates

**Table 4-405** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                          |
|------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32  |
| domain_id  | Yes       | String | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |

## Request Parameters

**Table 4-406** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-407** Request body parameters

| Parameter      | Mandatory | Type             | Description                                |
|----------------|-----------|------------------|--------------------------------------------|
| template_names | Yes       | Array of strings | Array of names of templates to be deleted. |

## Response Parameters

**Status code: 400**

**Table 4-408** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-409** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Deleting a message template

```
DELETE https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/templates  
  
/v2/{project_id}/{domain_id}/lts/events/notification/templates  
{"template_names":["template1","template2"]}
```

## Example Responses

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{  
  "error_code" : "LTS.2015",  
  "error_msg" : "delete template name is empty or projectId is null"  
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{  
  "error_code" : "LTS.2015",  
  "error_msg" : "Failed to delete notification template."  
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 204         | If the response body is empty, the request is successfully responded.                            |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.10.5 Querying a Message Template

### Function

This API is used to query a notification template.

### URI

```
GET /v2/{project_id}/{domain_id}/lts/events/notification/template/  
{template_name}
```

**Table 4-410** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                                        |
|---------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b>  |
| domain_id     | Yes       | String | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| template_name | Yes       | String | template_name<br>Minimum: <b>1</b><br>Maximum: <b>100</b>                                                                                                                                          |

## Request Parameters

**Table 4-411** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

Status code: 200

**Table 4-412** Response body parameters

| Parameter   | Type                                                | Description                                                                                                                                           |
|-------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| name        | String                                              | Notification rule name.                                                                                                                               |
| type        | Array of strings                                    | Notification method.                                                                                                                                  |
| desc        | String                                              | Template description.                                                                                                                                 |
| source      | String                                              | Template source.                                                                                                                                      |
| locale      | String                                              | Language.                                                                                                                                             |
| templates   | Array of <a href="#">SubTemplateResBody</a> objects | Template body, which is an array.                                                                                                                     |
| create_time | Long                                                | Creation time (timestamp in milliseconds).                                                                                                            |
| modify_time | Long                                                | Update time (timestamp in milliseconds).                                                                                                              |
| project_id  | String                                              | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID</a> . |

**Table 4-413** SubTemplateResBody

| Parameter | Type   | Description                                                                                                                                                                      |
|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sub_type  | String | Template subtype, for example, <b>sms</b> or <b>email</b> .                                                                                                                      |
| content   | String | Sub-template body. A variable following a dollar symbol (\$) can only be one of the following variables. The supported variables vary according to alarm types (keyword or SQL). |
| topic     | String | Email subject. This parameter is valid only when <b>sub_type</b> is set to <b>email</b> .                                                                                        |

**Status code: 401****Table 4-414** Response body parameters

| Parameter | Type                                      | Description    |
|-----------|-------------------------------------------|----------------|
| message   | <a href="#">CodeDetailsRspBody</a> object | Error message. |



**Table 4-415** CodeDetailsRspBody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

**Status code: 500****Table 4-416** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Querying a message template with a specified name

```
GET https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/template/{template_name}
/v2/{project_id}/{domain_id}/lts/events/notification/template/{template_name}
```

## Example Responses

**Status code: 200**

The request is successful.

```
{
  "create_time" : 1702955600631,
  "desc" : "description",
  "locale" : "en-us",
  "modify_time" : 1702955600631,
  "name" : "postman-test",
  "project_id" : "2a473356cca5487f8373be891bffc1cf",
  "source" : "LTS",
  "templates" : [ {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nResource ID: ${resources};\nStatistical
type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent value:
$event.annotations.current_value;\nStatistical period: $event.annotations.frequency;",
    "sub_type" : "sms"
  }, {
    "content" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source:
$event.metadata.resource_provider;\nResource type: $event.metadata.resource_type;\nResource ID: $
{resources};\nStatistical type: by keyword;\nExpression: $event.annotations.condition_expression;\nCurrent
value: $event.annotations.current_value;\nStatistical period: $event.annotations.frequency;\nQuery time:
$event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results;",
    "sub_type" : "email"
  } ],
  "type" : [ ]
}
```

**Status code: 401**

ID verification failed.

```
{
  "message" : {
    "code" : "LTS.0001",
    "details" : "project verify error"
  }
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2018",
  "error_msg" : "Failed to get notification template."
}
```

## Status Codes

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 200         | The request is successful.                                             |
| 401         | ID verification failed.                                                |
| 500         | The server has received the request but encountered an internal error. |

## Error Codes

See [Error Codes](#).

## 4.10.6 Previewing the Email Format of a Message Template

### Function

This API is used to preview the email format of a notification template.

### URI

POST /v2/{project\_id}/{domain\_id}/lts/events/notification/templates/view

**Table 4-417** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                        |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b>  |
| domain_id  | Yes       | String | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-418** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-419** Request body parameters

| Parameter | Mandatory | Type   | Description                                                          |
|-----------|-----------|--------|----------------------------------------------------------------------|
| templates | Yes       | String | Email template content.<br>Minimum: <b>2</b><br>Maximum: <b>1024</b> |

| Parameter | Mandatory | Type   | Description                                                                            |
|-----------|-----------|--------|----------------------------------------------------------------------------------------|
| language  | Yes       | String | Language type, for example, <b>en-us</b> .                                             |
| source    | Yes       | String | Source. The value can only be LTS.<br>Minimum: <b>3</b><br>Maximum: <b>3</b>           |
| subject   | No        | String | The content of this field is rendered to be used as the title of the message template. |

## Response Parameters

Status code: 200

Table 4-420 Response body parameters

| Parameter | Type   | Description                                                                                          |
|-----------|--------|------------------------------------------------------------------------------------------------------|
| template  | String | The value is an HTML text and needs to be parsed before being displayed.                             |
| subject   | String | The title displayed after the field is parsed. It is displayed at the top of the returned HTML text. |

Status code: 500

Table 4-421 Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Previewing the email format of a message template

```
POST https://{endpoint}/v2/{project_id}/{domain_id}/lts/events/notification/templates/view
```

```
{
  "templates" : "Severity: ${event_severity};\nOccurred: ${starts_at};\nAlarm source:
${event.metadata.resource_provider};\nResource type: ${event.metadata.resource_type};\nResource ID: $
${resources};\nStatistical type: by keyword;\nExpression: ${event.annotations.condition_expression};\nCurrent
value: ${event.annotations.current_value};\nStatistical period: ${event.annotations.frequency};\nQuery time:
```

```
$event.annotations.results[0].time;\nQuery log: $event.annotations.results[0].raw_results";\n\n"language" : "en-us",\n"source" : "LTS",\n"subject" : "${region_name}${event_severity}_${event_type}_${clear_type}] generated an alarm at ${starts_at}"\n}\n}
```

## Example Responses

### Status code: 200

The request is successful.

```
{\n  "template" : "<style>\n    span {\n      display: inline-block;\n      float: left;\n      font-size: 14px;\n    }\n    b {\n      display: inline-block;\n      float: left;\n      color: #252B3A;\n      font-size: 14px;\n    }\n  </style>\n  <table border=\"0\" cellpadding=\"0\" cellspacing=\"0\" style=\"font-family:Helvetica,Arial,PingFangSC-Regular,Hiragino Sans GB;border-spacing:0px 14px;font-size:14px;padding-left: 30px;line-height:25px;\">\n    <thead>\n      <tr style=\"font-size:14px;\">\n        <td colspan=\"2\" style=\"line-height:28px;color:#6e6e6e;font-size:14px\">\n          <b>Dear</b>\n          <b>users</b>\n        </td>\n      </tr>\n    </thead>\n    <tr>\n      <td colspan=\"2\">\n        <span>1 notification has been</span>\n        <span>add</span>\n        <span>&nbsp;in region</span>\n        <span>&nbsp;based on</span>\n        <span>alarm rule</span>\n        <b>action_rule</b>\n        <span>. For more information, go to the LTS console.</span>\n      </td>\n    </tr>\n    <tr style=\"font-size:14px;\">\n      <td colspan=\"2\">\n        <p style=\"margin-top: -26px;margin-bottom: -20px;\">\n          <span style=\"color:#252B3A;line-height:24px\">Here are the details.</span>\n        </p>\n      </td>\n    </tr>\n    <tr>\n      <td><div>Severity: Major;</div></td>\n    </tr>\n  </table>\",\n  "subject" : "[Major_alarm_add] generated an alarm at 2022-03-21 18:23:20 GMT+08:00",\n  "header" : {\n    "dingding" : "[!screenshot](https://testthy.obs.{region_name}.com/warningAlarm.png)\n    [Major_alarm_add]have a new alert at 2022-03-21 18:23:20 GMT+08:00"\n  }\n}
```

### Status code: 500

An error is reported when an incorrect domain ID is entered.

```
{\n  "error_code" : "LTS.2019",\n  "error_msg" : "Failed to preview notification template."\n}
```

## Status Codes

| Status Code | Description                                                  |
|-------------|--------------------------------------------------------------|
| 200         | The request is successful.                                   |
| 500         | An error is reported when an incorrect domain ID is entered. |

## Error Codes

See [Error Codes](#).

## 4.11 Keyword Alarm Rules

### 4.11.1 Creating a Keyword Alarm Rule

#### Function

This API is used to create a keyword alarm. Currently, each account can create a maximum of 200 keyword alarms and SQL alarms.

#### URI

POST /v2/{project\_id}/lts/alarms/keywords-alarm-rule

**Table 4-422** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

#### Request Parameters

**Table 4-423** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-424** Request body parameters

| Parameter                       | Mandatory | Type                                             | Description                                                                                                                                                                                        |
|---------------------------------|-----------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| keywords_alarm_rule_name        | Yes       | String                                           | Keyword alarm rule names.<br><b>NOTE</b><br>Cannot start with a period (.) or underscore (_) or end with a period (.).<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                  |
| keywords_alarm_rule_description | No        | String                                           | Keyword alarm description.<br>Minimum: <b>0</b><br>Maximum: <b>64</b>                                                                                                                              |
| keywords_requests               | Yes       | Array of <a href="#">KeywordsRequest</a> objects | Keyword details.                                                                                                                                                                                   |
| frequency                       | Yes       | <a href="#">Frequency</a> object                 | Alarm statistical period.                                                                                                                                                                          |
| keywords_alarm_level            | Yes       | String                                           | Alarm severity.                                                                                                                                                                                    |
| keywords_alarm_send             | Yes       | Boolean                                          | Whether to send an alarm.                                                                                                                                                                          |
| domain_id                       | Yes       | String                                           | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| trigger_condition_count         | No        | Integer                                          | Number of times that log events meet the trigger condition. The default value is <b>1</b> .                                                                                                        |
| trigger_condition_frequency     | No        | Integer                                          | Number of queries in which the triggering condition is met. The default value is <b>1</b> .                                                                                                        |
| whether_recovery_policy         | No        | Boolean                                          | Whether to enable the alarm clearance notification. The default value is <b>false</b> .                                                                                                            |

| Parameter              | Mandatory | Type                                           | Description                                                                                                                                                                                        |
|------------------------|-----------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recovery_policy        | No        | Integer                                        | Number of queries in which the triggering condition is not met. The alarm is cleared when this number reaches the value ( <b>3</b> by default) of this parameter.                                  |
| notification_frequency | Yes       | Integer                                        | Notification frequency, in minutes.                                                                                                                                                                |
| alarm_action_rule_name | No        | String                                         | Alarm action rule name.<br><b>NOTE</b><br>Set <b>alarm_action_rule_name</b> or <b>notification_save_rule</b> . If you set both of them, the value of <b>alarm_action_rule_name</b> is prioritized. |
| notification_save_rule | No        | <a href="#">SqlNotificationSaveRule</a> object | Notification topic, which will be unavailable soon. You are advised to use the alarm action rule function.                                                                                         |

**Table 4-425** KeywordsRequest

| Parameter              | Mandatory | Type    | Description                                                                                                                            |
|------------------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------|
| log_stream_id          | Yes       | String  | Log stream ID.                                                                                                                         |
| log_stream_name        | No        | String  | Log stream name.                                                                                                                       |
| log_group_id           | Yes       | String  | Log group ID.                                                                                                                          |
| log_group_name         | No        | String  | Log group name.                                                                                                                        |
| keywords               | Yes       | String  | Keyword.                                                                                                                               |
| condition              | Yes       | String  | Condition.                                                                                                                             |
| number                 | Yes       | Integer | Keyword threshold, which forms a condition with <b>keyword</b> and <b>condition</b> . An alarm is triggered when the condition is met. |
| search_time_range      | Yes       | Integer | Time range for querying the latest data when a task is executed.                                                                       |
| search_time_range_unit | Yes       | String  | Query time unit.                                                                                                                       |



**Table 4-426** Frequency

| Parameter   | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type        | Yes       | String  | Time type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| cron_expr   | No        | String  | <p>Cron expression, which uses the 24-hour format and is precise down to the minute.</p> <ul style="list-style-type: none"><li>• 0/10 * * * *: The query starts from 00:00 and is performed every 10 minutes at 00:00, 00:10, 00:20, 00:30, 00:40, 00:50, 01:00, and so on. For example, if the current time is 16:37, the next query is at 16:50.</li><li>• 0 0/5 * * * *: The query starts from 00:00 and is performed every 5 hours at 00:00, 05:00, 10:00, 15:00, 20:00, and so on. For example, if the current time is 16:37, the next query is at 20:00.</li><li>• 0 14 * * * *: The query is performed at 14:00 every day.</li><li>• 0 0 10 * * * *: The query is performed at 00:00 on the 10th day of every month.</li></ul> |
| hour_of_day | No        | Integer | <p>This field is used when <b>type</b> is set to <b>DAILY</b> or <b>WEEKLY</b>.</p> <p><b>DAILY</b> ranges from 0 to 23.</p> <p><b>WEEKLY</b> ranges from 0 to 23.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| day_of_week | No        | Integer | <p>This field is used when <b>type</b> is set to <b>WEEKLY</b> (from Sunday to Saturday).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| fixed_rate  | No        | Integer | <p>Value of a period. This field is used when <b>type</b> is set to <b>FIXED_RATE</b>. It is used together with <b>fixed_rate_unit</b> to indicate a fixed period.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Parameter       | Mandatory | Type   | Description                                                                                                                                                                                                   |
|-----------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| fixed_rate_unit | No        | String | Unit of a period. This field is used when <b>type</b> is set to <b>FIXED_RATE</b> . It is used together with <b>fixed_rate</b> to indicate a fixed period.<br>The value can be <b>hour</b> or <b>minute</b> . |

**Table 4-427** SqlNotificationSaveRule

| Parameter     | Mandatory | Type                           | Description                                                                                                                                |
|---------------|-----------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| language      | Yes       | String                         | Language of the preference.<br>Minimum: <b>0</b><br>Maximum: <b>10</b>                                                                     |
| timezone      | No        | String                         | Time zone information used in a notification. Example: <b>+08:00</b><br>Minimum: <b>0</b><br>Maximum: <b>1024</b>                          |
| user_name     | Yes       | String                         | Username used in a notification. It is generally displayed in the first line of the greeting.<br>Minimum: <b>1</b><br>Maximum: <b>1024</b> |
| topics        | Yes       | Array of <b>Topics</b> objects | Topic information, which will be unavailable soon. You are advised to use the action rule function.                                        |
| template_name | Yes       | String                         | Message template name.                                                                                                                     |

**Table 4-428** Topics

| Parameter | Mandatory | Type   | Description                                                      |
|-----------|-----------|--------|------------------------------------------------------------------|
| name      | Yes       | String | Topic name.                                                      |
| topic_urn | Yes       | String | Specifies the resource identifier of the topic, which is unique. |

| Parameter    | Mandatory | Type    | Description                                                                                             |
|--------------|-----------|---------|---------------------------------------------------------------------------------------------------------|
| display_name | No        | String  | Specifies the topic display name, which is presented as the name of the email sender in email messages. |
| push_policy  | No        | Integer | Specifies the message push policy.                                                                      |

## Response Parameters

**Status code: 200**

**Table 4-429** Response body parameters

| Parameter              | Type   | Description    |
|------------------------|--------|----------------|
| keywords_alarm_rule_id | String | Alarm rule ID. |

**Status code: 400**

**Table 4-430** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500**

**Table 4-431** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Creating a keyword alarm rule

```
POST https://{endpoint}/v2/{project_id}/lts/alarms/keywords-alarm-rule
{
```

```
"keywords_alarm_rule_name" : "test",
"keywords_alarm_rule_description" : "test",
"keywords_requests" : [ {
  "log_stream_id" : "1",
  "log_group_id" : "1",
  "keywords" : "test",
  "condition" : ">",
  "number" : "100",
  "search_time_range" : 10,
  "search_time_range_unit" : "minute"
} ],
"frequency" : {
  "type" : "FIXED_RATE",
  "cron_expr" : "",
  "hour_of_day" : 0,
  "day_of_week" : 0,
  "fixed_rate" : 10,
  "fixed_rate_unit" : "minute"
},
"keywords_alarm_level" : "Critical",
"keywords_alarm_send" : true,
"domain_id" : "",
"notification_frequency" : 5,
"alarm_action_rule_name" : "",
"notification_save_rule" : {
  "language" : "en-us",
  "timezone" : "xx/xx",
  "user_name" : "test",
  "template_name" : "Message template name.",
  "topics" : [ {
    "name" : "test",
    "topic_urn" : "urn:smn:xxx-7:1b06fc5dc0814a4da1594a9ade9cb93c:test",
    "display_name" : "",
    "push_policy" : 0
  } ]
}
}
```

## Example Responses

### Status code: 200

The request is successful.

```
{
  "keywords_alarm_rule_id" : "cf46fce8-f8b5-4aff-85c0-35d0c828ea0c"
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "error_code" : "LTS.2005",
  "error_msg" : "Alarm rule params validator error."
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2001",
  "error_msg" : "Failed to create alarm rule."
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                       |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.11.2 Modifying a Keyword Alarm Rule

#### Function

This API is used to modify a keyword alarm.

#### URI

PUT /v2/{project\_id}/lts/alarms/keywords-alarm-rule

**Table 4-432** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                         |
|------------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |

## Request Parameters

**Table 4-433** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-434** Request body parameters

| Parameter                       | Mandatory | Type                                             | Description                                                                             |
|---------------------------------|-----------|--------------------------------------------------|-----------------------------------------------------------------------------------------|
| keywords_alarm_rule_id          | Yes       | String                                           | Keyword alarm rule ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                      |
| keywords_alarm_rule_name        | Yes       | String                                           | Original rule name, which cannot be changed.<br>Minimum: <b>1</b><br>Maximum: <b>64</b> |
| alarm_rule_alias                | No        | String                                           | Rule name.<br>Minimum: <b>1</b><br>Maximum: <b>64</b>                                   |
| keywords_alarm_rule_description | No        | String                                           | Keyword alarm description.<br>Minimum: <b>0</b><br>Maximum: <b>64</b>                   |
| keywords_requests               | Yes       | Array of <a href="#">KeywordsRequest</a> objects | Keyword details.                                                                        |
| frequency                       | Yes       | <a href="#">Frequency</a> object                 | Alarm statistical period.                                                               |
| keywords_alarm_level            | Yes       | String                                           | Alarm severity.                                                                         |

| Parameter                   | Mandatory | Type                                           | Description                                                                                                                                                                                        |
|-----------------------------|-----------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| keywords_alarm_send         | Yes       | Boolean                                        | Whether to send an alarm.                                                                                                                                                                          |
| keywords_alarm_send_code    | Yes       | Integer                                        | Subject. <b>0</b> : unchanged; <b>1</b> : added; <b>2</b> : modified; <b>3</b> : deleted.<br>Minimum: <b>0</b><br>Maximum: <b>3</b>                                                                |
| domain_id                   | Yes       | String                                         | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| notification_save_rule      | No        | <a href="#">SqlNotificationSaveRule</a> object | Notification topic, which will be unavailable soon. You are advised to use the alarm action rule function.                                                                                         |
| trigger_condition_count     | No        | Integer                                        | Number of times that log events meet the trigger condition. The default value is <b>1</b> .                                                                                                        |
| trigger_condition_frequency | No        | Integer                                        | Number of queries in which the triggering condition is met. The default value is <b>1</b> .                                                                                                        |
| whether_recovery_policy     | No        | Boolean                                        | Whether to enable the alarm clearance notification. The default value is <b>false</b> .                                                                                                            |
| recovery_policy             | No        | Integer                                        | Number of queries in which the triggering condition is not met. The alarm is cleared when this number reaches the value ( <b>3</b> by default) of this parameter.                                  |
| notification_frequency      | Yes       | Integer                                        | Notification frequency, in minutes.                                                                                                                                                                |
| alarm_action_rule_name      | No        | String                                         | Alarm action rule name.<br><b>NOTE</b><br>Set <b>alarm_action_rule_name</b> or <b>notification_save_rule</b> . If you set both of them, the value of <b>alarm_action_rule_name</b> is prioritized. |

**Table 4-435** KeywordsRequest

| Parameter              | Mandatory | Type    | Description                                                                                                                            |
|------------------------|-----------|---------|----------------------------------------------------------------------------------------------------------------------------------------|
| log_stream_id          | Yes       | String  | Log stream ID.                                                                                                                         |
| log_stream_name        | No        | String  | Log stream name.                                                                                                                       |
| log_group_id           | Yes       | String  | Log group ID.                                                                                                                          |
| log_group_name         | No        | String  | Log group name.                                                                                                                        |
| keywords               | Yes       | String  | Keyword.                                                                                                                               |
| condition              | Yes       | String  | Condition.                                                                                                                             |
| number                 | Yes       | Integer | Keyword threshold, which forms a condition with <b>keyword</b> and <b>condition</b> . An alarm is triggered when the condition is met. |
| search_time_range      | Yes       | Integer | Time range for querying the latest data when a task is executed.                                                                       |
| search_time_range_unit | Yes       | String  | Query time unit.                                                                                                                       |

**Table 4-436** Frequency

| Parameter | Mandatory | Type   | Description |
|-----------|-----------|--------|-------------|
| type      | Yes       | String | Time type.  |



| Parameter       | Mandatory | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cron_expr       | No        | String  | <p>Cron expression, which uses the 24-hour format and is precise down to the minute.</p> <ul style="list-style-type: none"><li>• 0/10 * * * *: The query starts from 00:00 and is performed every 10 minutes at 00:00, 00:10, 00:20, 00:30, 00:40, 00:50, 01:00, and so on. For example, if the current time is 16:37, the next query is at 16:50.</li><li>• 0 0/5 * * * *: The query starts from 00:00 and is performed every 5 hours at 00:00, 05:00, 10:00, 15:00, 20:00, and so on. For example, if the current time is 16:37, the next query is at 20:00.</li><li>• 0 14 * * * *: The query is performed at 14:00 every day.</li><li>• 0 0 10 * * *: The query is performed at 00:00 on the 10th day of every month.</li></ul> |
| hour_of_day     | No        | Integer | <p>This field is used when <b>type</b> is set to <b>DAILY</b> or <b>WEEKLY</b>.<br/><b>DAILY</b> ranges from 0 to 23.<br/><b>WEEKLY</b> ranges from 0 to 23.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| day_of_week     | No        | Integer | <p>This field is used when <b>type</b> is set to <b>WEEKLY</b> (from Sunday to Saturday).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| fixed_rate      | No        | Integer | <p>Value of a period. This field is used when <b>type</b> is set to <b>FIXED_RATE</b>. It is used together with <b>fixed_rate_unit</b> to indicate a fixed period.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| fixed_rate_unit | No        | String  | <p>Unit of a period. This field is used when <b>type</b> is set to <b>FIXED_RATE</b>. It is used together with <b>fixed_rate</b> to indicate a fixed period.</p> <p>The value can be <b>hour</b> or <b>minute</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Table 4-437** SqlNotificationSaveRule

| Parameter     | Mandatory | Type                           | Description                                                                                                                                |
|---------------|-----------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| language      | Yes       | String                         | Language of the preference.<br>Minimum: <b>0</b><br>Maximum: <b>10</b>                                                                     |
| timezone      | No        | String                         | Time zone information used in a notification. Example:<br><b>+08:00</b><br>Minimum: <b>0</b><br>Maximum: <b>1024</b>                       |
| user_name     | Yes       | String                         | Username used in a notification. It is generally displayed in the first line of the greeting.<br>Minimum: <b>1</b><br>Maximum: <b>1024</b> |
| topics        | Yes       | Array of <b>Topics</b> objects | Topic information, which will be unavailable soon. You are advised to use the action rule function.                                        |
| template_name | Yes       | String                         | Message template name.                                                                                                                     |

**Table 4-438** Topics

| Parameter    | Mandatory | Type    | Description                                                                                             |
|--------------|-----------|---------|---------------------------------------------------------------------------------------------------------|
| name         | Yes       | String  | Topic name.                                                                                             |
| topic_urn    | Yes       | String  | Specifies the resource identifier of the topic, which is unique.                                        |
| display_name | No        | String  | Specifies the topic display name, which is presented as the name of the email sender in email messages. |
| push_policy  | No        | Integer | Specifies the message push policy.                                                                      |

## Response Parameters

**Status code: 200**

**Table 4-439** Response body parameters

| Parameter                       | Type                                                  | Description                                                                                                                                                                                        |
|---------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| keywords_alarm_rule_id          | String                                                | Keyword alarm ID.                                                                                                                                                                                  |
| keywords_alarm_rule_name        | String                                                | Original rule name.                                                                                                                                                                                |
| alarm_rule_alias                | String                                                | Rule name.                                                                                                                                                                                         |
| keywords_alarm_rule_description | String                                                | Keyword alarm description.                                                                                                                                                                         |
| keywords_requests               | Array of <a href="#">KeywordsResponseBody</a> objects | Keyword details.                                                                                                                                                                                   |
| frequency                       | <a href="#">FrequencyResponseBody</a> object          | Alarm statistical period.                                                                                                                                                                          |
| keywords_alarm_level            | String                                                | Alarm severity.                                                                                                                                                                                    |
| keywords_alarm_send             | Boolean                                               | Whether to send an alarm.                                                                                                                                                                          |
| domain_id                       | String                                                | domainId                                                                                                                                                                                           |
| create_time                     | Long                                                  | Creation time (timestamp in milliseconds).                                                                                                                                                         |
| update_time                     | Long                                                  | Update time (timestamp in milliseconds).                                                                                                                                                           |
| language                        | String                                                | Language of information added to emails.                                                                                                                                                           |
| projectId                       | String                                                | Project ID.                                                                                                                                                                                        |
| topics                          | Array of <a href="#">Topics</a> objects               | Notification topic, which will be unavailable soon. You are advised to use the alarm action rule function.                                                                                         |
| condition_expression            | String                                                | Description.                                                                                                                                                                                       |
| indexId                         | String                                                | Index ID.                                                                                                                                                                                          |
| notification_frequency          | Integer                                               | Notification frequency, in minutes.                                                                                                                                                                |
| alarm_action_rule_name          | String                                                | Alarm action rule name.<br><b>NOTE</b><br>Set <b>alarm_action_rule_name</b> or <b>notification_save_rule</b> . If you set both of them, the value of <b>alarm_action_rule_name</b> is prioritized. |

**Table 4-440** KeywordsResBody

| Parameter              | Type    | Description                                                                                       |
|------------------------|---------|---------------------------------------------------------------------------------------------------|
| log_stream_id          | String  | Log stream ID.                                                                                    |
| log_stream_name        | String  | Log stream name.                                                                                  |
| log_group_id           | String  | Log group ID.                                                                                     |
| log_group_name         | String  | Log group name.                                                                                   |
| keywords               | String  | Keyword                                                                                           |
| condition              | String  | Condition                                                                                         |
| number                 | Integer | Number of lines.                                                                                  |
| search_time_range      | Integer | Time range for querying the latest data when a task is executed. The maximum value is <b>60</b> . |
| search_time_range_unit | String  | Query time unit.                                                                                  |

**Table 4-441** FrequencyRespBody

| Parameter       | Type    | Description                                                                                                                                                                               |
|-----------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type            | String  | Time type.                                                                                                                                                                                |
| cron_expr       | String  | This field is used when <b>type</b> is set to <b>CRON</b> .                                                                                                                               |
| hour_of_day     | Integer | This field is used when <b>type</b> is set to <b>DAILY</b> or <b>WEEKLY</b> .                                                                                                             |
| day_of_week     | Integer | This field is used when <b>type</b> is set to <b>WEEKLY</b> (Sunday to Saturday).                                                                                                         |
| fixed_rate      | Integer | This field is used when <b>type</b> is set to <b>FIXED_RATE</b> . If the unit of <b>fixed_rate_unit</b> is minute, the maximum value is 60. If the unit is hour, the maximum value is 24. |
| fixed_rate_unit | String  | Enumerated values of the time unit:                                                                                                                                                       |

**Table 4-442** Topics

| Parameter    | Type    | Description                                                                                             |
|--------------|---------|---------------------------------------------------------------------------------------------------------|
| name         | String  | Topic name.                                                                                             |
| topic_urn    | String  | Specifies the resource identifier of the topic, which is unique.                                        |
| display_name | String  | Specifies the topic display name, which is presented as the name of the email sender in email messages. |
| push_policy  | Integer | Specifies the message push policy.                                                                      |

**Status code: 400****Table 4-443** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-444** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Modifying a keyword alarm rule

PUT https://{endpoint}/v2/{project\_id}/lts/alarms/keywords-alarm-rule

```
{
  "keywords_alarm_rule_id": "",
  "keywords_alarm_rule_name": "test",
  "alarm_rule_alias": "zhangsan",
  "keywords_alarm_rule_description": "test",
  "keywords_requests": [ {
    "log_stream_id": "1",
    "log_group_id": "1",
    "keywords": "test",
    "condition": ">",
    "number": "100",
    "search_time_range": 10,
    "search_time_range_unit": "minute"
  }
]
```

```
    },
    "frequency": {
      "type": "FIXED_RATE",
      "cron_expr": "",
      "hour_of_day": 0,
      "day_of_week": 0,
      "fixed_rate": 10,
      "fixed_rate_unit": "minute"
    },
    "keywords_alarm_level": "Critical",
    "keywords_alarm_send": true,
    "keywords_alarm_send_code": "2",
    "domain_id": "",
    "notification_frequency": 5,
    "alarm_action_rule_name": "",
    "notification_save_rule": {
      "language": "en-us",
      "timezone": "xx/xx",
      "user_name": "test",
      "template_name": "Message template name.",
      "topics": [ {
        "name": "test",
        "topic_urn": "urn:smn:xxx-7:1b06fc5dc0814a4da1594a9ade9cb93c:test",
        "display_name": "",
        "push_policy": 0
      } ]
    }
  }
}
```

## Example Responses

### Status code: 200

The request is successful.

```
{
  "keywords_alarm_rule_id": "",
  "keywords_alarm_rule_name": "test",
  "keywords_alarm_rule_description": "test",
  "alarm_rule_alias": "zhangsan",
  "keywords_requests": [ {
    "log_stream_id": "1",
    "log_stream_name": "test",
    "log_group_name": "test",
    "log_group_id": "1",
    "keywords": "test",
    "condition": ">",
    "number": "100",
    "search_time_range": 10,
    "search_time_range_unit": "minute"
  } ],
  "frequency": {
    "type": "FIXED_RATE",
    "cron_expr": "",
    "hour_of_day": 0,
    "day_of_week": 0,
    "fixed_rate": 10,
    "fixed_rate_unit": "minute"
  },
  "keywords_alarm_level": "Critical",
  "keywords_alarm_send": false,
  "domain_id": "",
  "notification_frequency": 5,
  "alarm_action_rule_name": "",
  "topics": [ {
    "name": "test",
    "topic_urn": "urn:smn:xxx-7:1b06fc5dc0814a4da1594a9ade9cb93c:test",
    "display_name": "",
    "push_policy": 0
  } ]
}
```

```
  } ],  
  "language" : "en-us"  
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{  
  "error_code" : "LTS.2005",  
  "error_msg" : "Alarm rule params validator error."  
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{  
  "error_code" : "LTS.2003",  
  "error_msg" : "Failed to update alarm rule."  
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | The request is successful.                                                                       |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.11.3 Querying a Keyword Alarm Rule

#### Function

This API is used to query a keyword alarm.

#### URI

GET /v2/{project\_id}/lts/alarms/keywords-alarm-rule

**Table 4-445** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

## Request Parameters

**Table 4-446** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

Status code: 200

**Table 4-447** Response body parameters

| Parameter            | Type                                                       | Description |
|----------------------|------------------------------------------------------------|-------------|
| keywords_alarm_rules | Array of <a href="#">KeywordsAlarmRuleRespList</a> objects | Project ID. |



**Table 4-448** KeywordsAlarmRuleRespList

| Parameter                       | Type                                             | Description                                                                                          |
|---------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------|
| projectId                       | String                                           | Project ID.                                                                                          |
| keywords_alarm_rule_id          | String                                           | Keyword alarm ID.                                                                                    |
| keywords_alarm_rule_name        | String                                           | Keyword alarm rule name.                                                                             |
| keywords_alarm_rule_description | String                                           | Keyword alarm description.                                                                           |
| condition_expression            | String                                           | Condition.                                                                                           |
| keywords_requests               | Array of <a href="#">KeywordsRequest</a> objects | Keyword details.                                                                                     |
| frequency                       | <a href="#">Frequency</a> object                 | Alarm statistical period.                                                                            |
| keywords_alarm_level            | String                                           | Alarm severity.                                                                                      |
| keywords_alarm_send             | Boolean                                          | Whether to send an alarm.                                                                            |
| domain_id                       | String                                           | Domain ID                                                                                            |
| create_time                     | Long                                             | Creation time (timestamp in milliseconds).                                                           |
| update_time                     | Long                                             | Update time (timestamp in milliseconds).                                                             |
| topics                          | Array of <a href="#">Topics</a> objects          | Notification topic, which will be unavailable soon. You are advised to use the action rule function. |
| template_name                   | String                                           | Message template name.                                                                               |
| status                          | String                                           | Alarm status.                                                                                        |
| trigger_condition_count         | Integer                                          | Number of queries in which the triggering condition is met. The default value is <b>1</b> .          |
| trigger_condition_frequency     | Integer                                          | Number of times that log events meet the trigger condition. The default value is <b>1</b> .          |
| whether_recovery_policy         | Boolean                                          | Whether to enable the alarm clearance notification. The default value is <b>false</b> .              |

| Parameter              | Type    | Description                                                                                                                                                       |
|------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recovery_policy        | Integer | Number of queries in which the triggering condition is not met. The alarm is cleared when this number reaches the value ( <b>3</b> by default) of this parameter. |
| notification_frequency | Integer | Notification frequency, in minutes.                                                                                                                               |
| alarm_action_rule_name | String  | Alarm action rule name.                                                                                                                                           |
| id                     | String  | The value is the same as that of <b>keywords_alarm_rule_id</b> .                                                                                                  |
| indexId                | String  | The value is the same as that of <b>keywords_alarm_rule_id</b> .                                                                                                  |
| key                    | String  | The value is the same as that of <b>keywords_alarm_rule_id</b> .                                                                                                  |

**Table 4-449** KeywordsRequest

| Parameter              | Type    | Description                                                                                                                            |
|------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------|
| log_stream_id          | String  | Log stream ID.                                                                                                                         |
| log_stream_name        | String  | Log stream name.                                                                                                                       |
| log_group_id           | String  | Log group ID.                                                                                                                          |
| log_group_name         | String  | Log group name.                                                                                                                        |
| keywords               | String  | Keyword.                                                                                                                               |
| condition              | String  | Condition.                                                                                                                             |
| number                 | Integer | Keyword threshold, which forms a condition with <b>keyword</b> and <b>condition</b> . An alarm is triggered when the condition is met. |
| search_time_range      | Integer | Time range for querying the latest data when a task is executed.                                                                       |
| search_time_range_unit | String  | Query time unit.                                                                                                                       |

**Table 4-450** Frequency

| Parameter       | Type    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type            | String  | Time type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| cron_expr       | String  | <p>Cron expression, which uses the 24-hour format and is precise down to the minute.</p> <ul style="list-style-type: none"><li>• 0/10 * * * *: The query starts from 00:00 and is performed every 10 minutes at 00:00, 00:10, 00:20, 00:30, 00:40, 00:50, 01:00, and so on. For example, if the current time is 16:37, the next query is at 16:50.</li><li>• 0 0/5 * * * *: The query starts from 00:00 and is performed every 5 hours at 00:00, 05:00, 10:00, 15:00, 20:00, and so on. For example, if the current time is 16:37, the next query is at 20:00.</li><li>• 0 14 * * * *: The query is performed at 14:00 every day.</li><li>• 0 0 10 * * * *: The query is performed at 00:00 on the 10th day of every month.</li></ul> |
| hour_of_day     | Integer | <p>This field is used when <b>type</b> is set to <b>DAILY</b> or <b>WEEKLY</b>.</p> <p><b>DAILY</b> ranges from 0 to 23.</p> <p><b>WEEKLY</b> ranges from 0 to 23.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| day_of_week     | Integer | <p>This field is used when <b>type</b> is set to <b>WEEKLY</b> (from Sunday to Saturday).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| fixed_rate      | Integer | <p>Value of a period. This field is used when <b>type</b> is set to <b>FIXED_RATE</b>. It is used together with <b>fixed_rate_unit</b> to indicate a fixed period.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| fixed_rate_unit | String  | <p>Unit of a period. This field is used when <b>type</b> is set to <b>FIXED_RATE</b>. It is used together with <b>fixed_rate</b> to indicate a fixed period.</p> <p>The value can be <b>hour</b> or <b>minute</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Table 4-451** Topics

| Parameter | Type   | Description |
|-----------|--------|-------------|
| name      | String | Topic name. |

| Parameter    | Type    | Description                                                                                             |
|--------------|---------|---------------------------------------------------------------------------------------------------------|
| topic_urn    | String  | Specifies the resource identifier of the topic, which is unique.                                        |
| display_name | String  | Specifies the topic display name, which is presented as the name of the email sender in email messages. |
| push_policy  | Integer | Specifies the message push policy.                                                                      |

**Status code: 500**

**Table 4-452** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Querying a keyword alarm rule

```
GET https://{endpoint}/v2/{project_id}/lts/alarms/keywords-alarm-rule
/v2/{project_id}/lts/alarms/keywords-alarm-rule
```

## Example Responses

**Status code: 200**

The request is successful.

```
{
  "keywords_alarm_rules" : [ {
    "alarm_action_rule_name" : "Alarm Action Rule Name",
    "alarm_rule_alias" : "APITest",
    "condition_expressions" : [ {
      "alarm_level" : "CRITICAL",
      "condition_expression" : "Matching Log Events>1"
    } ],
    "create_time" : 1736498043489,
    "domain_id" : "78ac2cb7c0be4d0482bd7d949830e0b8",
    "frequency" : {
      "cron_expr" : "",
      "day_of_week" : 1,
      "fixed_rate" : 1,
      "fixed_rate_unit" : "minute",
      "hour_of_day" : 0,
      "type" : "FIXED_RATE"
    },
    "keywords_alarm_level" : "CRITICAL",
    "id" : "025a5375-c548-498c-8330-219cf8a1dbbf",
    "indexId" : "025a5375-c548-498c-8330-219cf8a1dbbf",
    "key" : "025a5375-c548-498c-8330-219cf8a1dbbf",
  } ],
}
```

```
"keywords_alarm_rule_description" : "",
"keywords_alarm_rule_id" : "025a5375-c548-498c-8330-219cf8a1dbbf",
"keywords_alarm_rule_name" : "APITest",
"keywords_alarm_send" : true,
"keywords_requests" : [ {
  "condition" : ">",
  "conditions" : [ {
    "alarm_level" : "CRITICAL",
    "condition" : ">",
    "number" : 1
  } ],
  "eps_id" : "0",
  "is_time_range_relative" : true,
  "keywords" : "aaa",
  "log_group_id" : "b2ead43b-c055-4581-8c13-56af52b6bc13",
  "log_group_name" : "lts-group-mwb002",
  "log_group_name_alias" : "lts-group-mwb002",
  "log_stream_id" : "072795c7-ce92-4ea3-b359-1928d47ab152",
  "log_stream_name" : "lts-topic-coredns",
  "log_stream_name_alias" : "lts-topic-coredns",
  "number" : 1,
  "search_time_range" : 5,
  "search_time_range_unit" : "minute"
} ],
"language" : "zh-cn",
"notification_frequency" : 0,
"projectId" : "a0a12b069ab4491185d7cf26c3e86ada",
"query_version" : "v2",
"query_version_for_query" : "newVersion",
"recovery_policy" : 3,
"status" : "RUNNING",
"tags" : [ {
  "key" : "tagTest",
  "value" : "level"
} ],
"topics" : [ ],
"trigger_condition_count" : 1,
"trigger_condition_frequency" : 1,
"update_time" : 1736498043489,
"whether_recovery_policy" : true
}, {
  "projectId" : "string",
  "keywords_alarm_rule_id" : "string",
  "keywords_alarm_rule_name" : "string",
  "keywords_alarm_rule_description" : "string",
  "condition_expression" : "string",
  "keywords_requests" : [ {
    "log_stream_id" : "string",
    "log_stream_name" : "string",
    "log_group_id" : "string",
    "log_group_name" : "string",
    "keywords" : "string",
    "condition" : ">=",
    "number" : 1,
    "search_time_range" : 0,
    "search_time_range_unit" : "minute"
  } ],
  "frequency" : {
    "type" : "CRON",
    "cron_expr" : "string",
    "hour_of_day" : 0,
    "day_of_week" : 0,
    "fixed_rate" : 0,
    "fixed_rate_unit" : "minute"
  },
  "keywords_alarm_level" : "Info",
  "keywords_alarm_send" : true,
  "domain_id" : "string",
  "create_time" : 0,
```

```
"update_time" : 0,
"template_name" : "Message template name.",
"status" : "RUNNING",
"trigger_condition_count" : "1",
"trigger_condition_frequency" : "1",
"whether_recovery_policy" : false,
"recovery_policy" : "3",
"notification_frequency" : 5,
"alarm_action_rule_name" : "",
"topics" : [ {
  "name" : "string",
  "topic_urn" : "string",
  "display_name" : "test-smn",
  "push_policy" : 0
} ]
} ]
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2008",
  "error_msg" : "Find Alarm rule failed."
}
```

## Status Codes

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 200         | The request is successful.                                             |
| 500         | The server has received the request but encountered an internal error. |

## Error Codes

See [Error Codes](#).

### 4.11.4 Deleting a Keyword Alarm Rule

#### Function

This API is used to delete a keyword alarm.

#### URI

DELETE /v2/{project\_id}/lts/alarms/keywords-alarm-rule/{keywords\_alarm\_rule\_id}

**Table 4-453** Path Parameters

| Parameter              | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id             | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| keywords_alarm_rule_id | Yes       | String | Keyword alarm rule ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                |

## Request Parameters

**Table 4-454** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

## Response Parameters

**Status code: 400**

**Table 4-455** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-456** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Deleting a keyword alarm by alarm ID

```
DELETE https://{endpoint}/v2/{project_id}/lts/alarms/keywords-alarm-rule/{keywords_alarm_rule_id}
/v2/{project_id}/lts/alarms/keywords-alarm-rule/{keywords_alarm_rule_id}
```

## Example Responses

**Status code: 200**

The request is successful.

None

**Status code: 400**

Error response content.

```
{
  "error_code" : "LTS.2007",
  "error_msg" : "Alarm rule not exist."
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.2002",
  "error_msg" : "Failed to update alarm rule."
}
```

## Status Codes

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 200         | The request is successful.                                             |
| 400         | Error response content.                                                |
| 500         | The server has received the request but encountered an internal error. |



## Error Codes

See [Error Codes](#).

# 4.12 Alarm List

## 4.12.1 Querying the Active or Historical Alarm List

### Function

This API is used to query the alarm list.

### URI

POST /v2/{project\_id}/{domain\_id}/lts/alarms/sql-alarm/query

**Table 4-457** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                          |
|------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32  |
| domain_id  | Yes       | String | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: 32<br>Maximum: 32 |

**Table 4-458** Query Parameters

| Parameter | Mandatory | Type   | Description                                                 |
|-----------|-----------|--------|-------------------------------------------------------------|
| type      | Yes       | String | Whether the alarm is an active alarm or a historical alarm. |

| Parameter | Mandatory | Type    | Description                                                                                                                                                                       |
|-----------|-----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| marker    | No        | String  | The value is the ID of the last record on the previous page (value of previous_marker or next_marker returned by the previous page).<br>Minimum: <b>0</b><br>Maximum: <b>1000</b> |
| limit     | No        | Integer | Number of records on each page.<br>Minimum: <b>0</b><br>Maximum: <b>1000</b>                                                                                                      |

## Request Parameters

**Table 4-459** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                        |

**Table 4-460** Request body parameters

| Parameter               | Mandatory | Type    | Description                                                                                      |
|-------------------------|-----------|---------|--------------------------------------------------------------------------------------------------|
| whether_customize_field | Yes       | Boolean | Whether to customize the query time segment.                                                     |
| start_time              | No        | Long    | Start time of a customized time segment (timestamp).<br>Minimum: <b>13</b><br>Maximum: <b>13</b> |

| Parameter | Mandatory | Type | Description                                                                                    |
|-----------|-----------|------|------------------------------------------------------------------------------------------------|
| end_time  | No        | Long | End time of a customized time segment (timestamp).<br>Minimum: <b>13</b><br>Maximum: <b>13</b> |

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| time_range | No        | String | <p>Time range specified to query data of the last N minutes when the client time is inconsistent with the server time. It can also be used to accurately query the data of a specified period.</p> <p>Examples:</p> <ul style="list-style-type: none"><li>• <b>-1.-1.60</b> indicates that the data of the latest 60 minutes is queried. This query is based on the server time regardless of the current client time.</li><li>• <b>1650852000000.1650852300000.5</b> indicates the 5 minutes from 10:00:00 to 10:05:00 on April 25, 2022 UTC+08:00.</li></ul> <p>Format:<br/>startTimeInMillis.endTimeInMillis.durationInMinutes</p> <p>Parameter description:</p> <ul style="list-style-type: none"><li>• <b>startTimeInMillis</b>: start time (UTC) of the query, in milliseconds. If this parameter is set to <b>-1</b>, the server calculates the start time as follows:<br/><math>\text{endTimeInMillis} - \text{durationInMinutes} \times 60 \times 1,000</math>. For example, <b>-1.1650852300000.5</b> is equivalent to <b>1650852000000.1650852300000.5</b>.</li><li>• <b>endTimeInMillis</b>: end time (UTC) of the query, in milliseconds. If this parameter is set to <b>-1</b>, the server calculates the end time as follows:<br/><math>\text{startTimeInMillis} + \text{durationInMinutes} \times 60 \times 1,000</math>. If the calculated end time is later than the current system time, the current system time is used.</li></ul> |

| Parameter       | Mandatory | Type             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |           |                  | <p>For example, 1650852000000.-1.5 is equivalent to 1650852000000.165085230000.5.</p> <ul style="list-style-type: none"><li>• <b>durationInMinutes</b>: time span, in minutes. The value must be greater than <b>0</b>, and also greater than or equal to the result of "(endTimeInMillis – startTimeInMillis)/(60 x 1,000) – 1". If both the start time and end time are set to <b>-1</b>, the system sets the end time to the current UTC time (in milliseconds) and calculates the start time as follows: endTimeInMillis – durationInMinutes x 60 x 1,000. For example, <b>-1.-1.60</b> indicates the latest 60 minutes.</li></ul> <p>Constraint: In a single request, the following condition must be met: durationInMinutes x 60/period ≤ 1,440</p> <p>Minimum: <b>1</b><br/>Maximum: <b>32</b></p> |
| search          | No        | String           | <p>Field specified for fuzzy query, which can be left blank. If the value is not empty, fuzzy match will be performed. The <b>metadata</b> field is mandatory.</p> <p>Minimum: <b>1</b><br/>Maximum: <b>1024</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| alarm_level_ids | No        | Array of strings | <p>Alarm severity (<b>Critical, Major, Minor, Info</b>).</p> <p><b>NOTE</b></p> <p><b>alarmLevelIds</b> is a parameter of an earlier version and is currently compatible with this parameter. You are advised to use this parameter.</p> <p>alarm_level_ids</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Parameter | Mandatory | Type               | Description                                                                                                |
|-----------|-----------|--------------------|------------------------------------------------------------------------------------------------------------|
| sort      | No        | <b>Sort</b> object | Sorting order, which can be left blank.                                                                    |
| step      | No        | Integer            | Statistical step. Unit: ms. For example, if the duration is 1 minute, set this parameter to <b>60000</b> . |

**Table 4-461** Sort

| Parameter | Mandatory | Type             | Description                                                                                                                                                 |
|-----------|-----------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| order_by  | Yes       | Array of strings | List of sorted fields. Fields in this list are sorted based on the specified order.                                                                         |
| order     | Yes       | String           | Sorting order.<br>The value can be: <ul style="list-style-type: none"><li>• <b>asc</b> (ascending order)</li><li>• <b>desc</b> (descending order)</li></ul> |

## Response Parameters

Status code: 200

**Table 4-462** Response body parameters

| Parameter | Type                           | Description         |
|-----------|--------------------------------|---------------------|
| events    | Array of <b>Events</b> objects | Alarm information.  |
| page_info | <b>PageInfo</b> object         | Pagination details. |

**Table 4-463** Events

| Parameter   | Type                      | Description                       |
|-------------|---------------------------|-----------------------------------|
| annotations | <b>Annotations</b> object | Alert details.                    |
| metadata    | <b>Metadata</b> object    | Alarm information.                |
| arrives_at  | Long                      | Arrival time (timestamp).         |
| ends_at     | Long                      | Alarm clearance time (timestamp). |

| Parameter | Type   | Description                                              |
|-----------|--------|----------------------------------------------------------|
| id        | String | Alarm ID.                                                |
| starts_at | Long   | Alarm generation time (timestamp).                       |
| timeout   | Long   | Time when an alarm is automatically cleared (timestamp). |
| type      | String | Alarm rule type (SQL/keyword).                           |

**Table 4-464** Annotations

| Parameter       | Type   | Description                                   |
|-----------------|--------|-----------------------------------------------|
| message         | String | Alarm list details.                           |
| log_info        | String | Log group/stream ID.                          |
| current_value   | String | Current value.                                |
| old_annotations | String | Original data of (SQL/keyword) alarm details. |

**Table 4-465** Metadata

| Parameter         | Type   | Description                    |
|-------------------|--------|--------------------------------|
| event_type        | String | Alarm type.                    |
| event_id          | String | Alarm ID.                      |
| event_severity    | String | Alarm severity.                |
| event_name        | String | Alarm name.                    |
| resource_type     | String | Resource type.                 |
| resource_id       | String | Log group/stream name.         |
| resource_provider | String | Alarm source.                  |
| lts_alarm_type    | String | Alarm rule type (SQL/keyword). |

**Table 4-466** PageInfo

| Parameter   | Type   | Description                                                                                       |
|-------------|--------|---------------------------------------------------------------------------------------------------|
| next_marker | String | Address of the next page. If this parameter is left empty, no data is displayed on the next page. |

| Parameter       | Type   | Description                            |
|-----------------|--------|----------------------------------------|
| previous_marker | String | Address of the previous page.          |
| current_count   | String | Number of items returned on this page. |

**Status code: 400****Table 4-467** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-468** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

Querying the active or historical alarm list

```
POST https://{endpoint}/v2/{project_id}/{domain_id}/lts/alarms/sql-alarm/query?type=active_alert
```

```
{
  "whether_custom_field" : false,
  "start_time" : 0,
  "end_time" : 0,
  "time_range" : "30",
  "search" : "",
  "alarm_level_ids" : [ "Critical", "Major", "Minor", "Info" ],
  "sort" : {
    "order_by" : [ "starts_at" ],
    "order" : "desc"
  }
}
```

## Example Responses

**Status code: 200**

The request is successful.

```
{
  "events" : [ {
```



```
"annotations" : {
  "current_value" : "{pv\":"30}",
  "log_info" : "[{"log_group_id\":"50bcab14-xxxx-xxxx-xxxx-41ae4a6e3401\","log_group_name\":"lts-test-group\","log_group_name_alias\":"lts-test-group\","log_stream_id\":"90727e60-xxxx-xxxx-xxxx-19ba53adcbc5\","log_stream_name\":"lts-test-topic\","log_stream_name_alias\":"lts-test-topic"}]",
  "message" : "{alarm_action_rule_name\":"testlts\","alarm_rule_alias\":"lts001\","alarm_rule_id\":"2ef849e9-afb4-4983-9197-9049c3460b9d\","alarm_rule_name\":"lts001\","closed_alarm_time\":"0\","condition_expression\":"pv > 0\","condition_expressions\":[{"condition_expression\":"pv > 0"}],"create_time\":"0\","domain_id\":"1d26cc8c86a840e28a4f8dxxxxxxxx\","frequency\":[{"day_of_week\":"1\","fixed_rate\":"1\","fixed_rate_unit\":"minute\","hour_of_day\":"0\","type\":"FIXED_RATE"}],"is_css_sql\":"true\","ltsAlarmInfos\":[{"conditions\":[],"is_time_range_relative\":"true\","log_group_id\":"50bcab14-xxxx-xxxx-xxxx-41ae4a6e3401\","log_group_name\":"lts-test-group\","log_group_name_alias\":"lts-test-group\","log_stream_id\":"90727e60-xxxx-xxxx-xxxx-19ba53adcbc5\","log_stream_name\":"lts-test-topic\","log_stream_name_alias\":"lts-test-topic\","search_time_range\":"5\","search_time_range_unit\":"minute\","sql\":"\"* | SELECT count(*) as pv\","sql_request_title\":"\""}],"notification_frequency\":"0\","projectId\":"\","status\":"RUNNING\","topics\":[],"type\":"sql\","update_time\":"0\","whether_recovery_policy\":"false"}]",
},
"metadata" : {
  "event_type" : "alarm",
  "event_id" : "2ef849e9-xxxx-xxxx-xxxx-9049c3460b9d",
  "lts_alarm_type" : "search_analysis",
  "event_severity" : "Critical",
  "resource_type" : "Log group/stream.",
  "event_name" : "lts001",
  "resource_id" : "lts-test-group/lts-test-topic",
  "event_subtype" : "sql",
  "resource_provider" : "LTS"
},
"type" : "search_analysis"
}]
}
```

**Status code: 400**

Response content.

```
{
  "error_code" : "LTS.2005",
  "error_msg" : "Find alarm error start_time or end_time must not be empty."
}
```

**Status code: 500**

Response content.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "Internal Server Error"
}
```

**Status Codes**

| Status Code | Description                |
|-------------|----------------------------|
| 200         | The request is successful. |
| 400         | Response content.          |
| 500         | Response content.          |

## Error Codes

See [Error Codes](#).

## 4.12.2 Deleting an Active Alarm

### Function

This API is used to delete an active alarm.

### URI

POST /v2/{project\_id}/{domain\_id}/lts/alarms/sql-alarm/clear

**Table 4-469** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                        |
|------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b>  |
| domain_id  | Yes       | String | Account ID. For details about how to obtain an account ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |

### Request Parameters

**Table 4-470** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |

| Parameter    | Mandatory | Type   | Description                                                                                       |
|--------------|-----------|--------|---------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b> |

**Table 4-471** Request body parameters

| Parameter | Mandatory | Type                          | Description        |
|-----------|-----------|-------------------------------|--------------------|
| events    | Yes       | Array of <b>Event</b> objects | Topic information. |

**Table 4-472** Event

| Parameter | Mandatory | Type                   | Description                                                                   |
|-----------|-----------|------------------------|-------------------------------------------------------------------------------|
| metadata  | Yes       | <b>Metadata</b> object | Alarm information.<br>Minimum length: 0<br>Maximum length: 2048               |
| starts_at | Yes       | Long                   | Alarm generation time (timestamp).<br>Minimum: <b>0</b><br>Maximum: <b>32</b> |

**Table 4-473** Metadata

| Parameter         | Mandatory | Type   | Description            |
|-------------------|-----------|--------|------------------------|
| event_type        | Yes       | String | Alarm type.            |
| event_id          | Yes       | String | Alarm ID.              |
| event_severity    | Yes       | String | Alarm severity.        |
| event_name        | Yes       | String | Alarm name.            |
| resource_type     | Yes       | String | Resource type.         |
| resource_id       | Yes       | String | Log group/stream name. |
| resource_provider | Yes       | String | Alarm source.          |

| Parameter      | Mandatory | Type   | Description                    |
|----------------|-----------|--------|--------------------------------|
| lts_alarm_type | Yes       | String | Alarm rule type (SQL/keyword). |

## Response Parameters

None

## Example Requests

Deleting an active alarm by alarm ID

POST https://{endpoint}/v2/{project\_id}/{domain\_id}/lts/alarms/sql-alarm/clear

```
{
  "events" : [ {
    "metadata" : {
      "event_type" : "alarm",
      "event_id" : "1",
      "lts_alarm_type" : "keywords/sql",
      "resource_type" : "Log_group/stream.",
      "event_severity" : "Critical",
      "resource_id" : "lts-group-demo/lts-topic-demo",
      "event_name" : "demo",
      "resource_provider" : "LTS"
    },
    "starts_at" : 1629947408497
  } ]
}
```

## Example Responses

None

## Status Codes

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 200         | The request is successful.                                             |
| 500         | The server has received the request but encountered an internal error. |

## Error Codes

See [Error Codes](#).

# 4.13 Tag Management

## 4.13.1 Tag Management

### Function

This API is used to tag a resource.

### URI

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

**Table 4-474** Path Parameters

| Parameter     | Mandatory | Type   | Description                                                                                                                                                                                       |
|---------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id    | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| resource_type | Yes       | String | Resource type. The value can be <b>groups</b> or <b>topics</b> .                                                                                                                                  |
| resource_id   | Yes       | String | Resource ID.                                                                                                                                                                                      |

### Request Parameters

**Table 4-475** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                            |
|--------------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1</b><br>Maximum: <b>10000</b> |
| Content-Type | Yes       | String | Set this parameter to application/json;charset=UTF-8.<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                      |

**Table 4-476** Request body parameters

| Parameter | Mandatory | Type                                      | Description                                             |
|-----------|-----------|-------------------------------------------|---------------------------------------------------------|
| action    | Yes       | String                                    | Method of adding tags.                                  |
| is_open   | Yes       | Boolean                                   | Whether to call external APIs.                          |
| tags      | Yes       | Array of <a href="#">tagsBody</a> objects | Tag field information. Up to 20 tag fields are allowed. |

**Table 4-477** tagsBody

| Parameter | Mandatory | Type   | Description                                                                                                                                                                      |
|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| key       | Yes       | String | Tag key. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . <i>Do not start with an underscore ( ).</i> Max 128 characters are allowed. |
| value     | Yes       | String | Tag value. Use only UTF-8 letters, digits, spaces, and the following characters: <code>./=+-@</code> . Max 255 characters are allowed.                                           |

## Response Parameters

### Status code: 200

**Table 4-478** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

### Status code: 201

**Table 4-479** Response body parameters

| Parameter  | Type   | Description |
|------------|--------|-------------|
| error_code | String | Error code. |

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| error_msg | String | Error message. |

**Status code: 400****Table 4-480** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

**Status code: 500****Table 4-481** Response body parameters

| Parameter  | Type   | Description    |
|------------|--------|----------------|
| error_code | String | Error code.    |
| error_msg  | String | Error message. |

## Example Requests

- Creating a Tag

```
POST /v1/2a473356cca5487f8373be891bffc1cf/groups/0933a172-379e-44d0-9ed9-f491b1c528ea/tags/  
action
```

```
{  
  "action": "create",  
  "is_open": true,  
  "tags": [ {  
    "key": "zzz",  
    "value": "zzz"  
  }, {  
    "key": "sgq",  
    "value": "123"  
  } ]  
}
```

- Deleting a tag

```
POST /v1/2a473356cca5487f8373be891bffc1cf/groups/0933a172-379e-44d0-9ed9-f491b1c528ea/tags/  
action
```

```
{  
  "action": "delete",  
  "is_open": true,  
  "tags": [ {  
    "key": "zzz",  
    "value": "zzz"  
  }, {  
    "key": "sgq",  
    "value": "123"  
  } ]  
}
```

```
} ]  
}
```

## Example Responses

### Status code: 200

Succeeded.

```
none
```

### Status code: 201

Succeeded.

```
none
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{  
  "error_code" : "LTS.1836",  
  "error_msg" : "action is create or delete"  
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{  
  "error_code" : "LTS.0203",  
  "error_msg" : "Internal Server Error"  
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Succeeded.                                                                                       |
| 201         | Succeeded.                                                                                       |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.14 Quick Search



## 4.14.1 Adding a Quick Search

### Function

Adding a Quick Search

### URI

POST /v1.0/{project\_id}/groups/{group\_id}/topics/{topic\_id}/search-criterias

**Table 4-482** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| group_id   | Yes       | String | ID of the log group whose log streams will be queried. Generally, it contains 36 characters.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                          |
| topic_id   | Yes       | String | Log stream ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                        |

### Request Parameters

**Table 4-483** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |

| Parameter    | Mandatory | Type   | Description                                                                                               |
|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------|
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=UTF-8</b> .<br>Minimum: <b>30</b><br>Maximum: <b>30</b> |

**Table 4-484** Request body parameters

| Parameter   | Mandatory | Type   | Description                                                                                                                                                                                         |
|-------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| criteria    | Yes       | String | Quick search field. Enter the statement to be queried.                                                                                                                                              |
| eps_id      | No        | String | Enterprise project ID.                                                                                                                                                                              |
| name        | Yes       | String | Quick search name, which contains 1 to 64 characters, including only letters, digits, underscores (_), hyphens (-), and periods (.). Do not start with a period or underscore or end with a period. |
| search_type | Yes       | String | Search type, for example, raw logs.                                                                                                                                                                 |

## Response Parameters

**Status code: 201**

**Table 4-485** Response body parameters

| Parameter | Type   | Description      |
|-----------|--------|------------------|
| id        | String | Quick search ID. |

**Status code: 400**

**Table 4-486** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-487** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

**Status code: 500****Table 4-488** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-489** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

## Example Requests

Adding a Quick Search

```
POST /v1.0/2a473356cca5487f8373be891bffc1cf/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/topics/2b899d46-218c-4f0c-8ace-a36a290a83a0/search-criterias
```

```
{
  "name" : "test",
  "criteria" : "content : 1234567891234567891234567891234567891234567891234567891234567894",
  "eps_id" : "0",
  "search_type" : "ORIGINALLOG"
}
```

## Example Responses

**Status code: 201**

Quick search added.

```
{
  "id" : "0eb379f5-f847-4d25-ba89-05967bf1bae3"
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0208",
    "details" : "The log stream does not existed"
  }
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 201         | Quick search added.                                                                              |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

## 4.14.2 Obtaining a Quick Search

### Function

This API is used to obtain quick search.

### URI

GET /v1.0/{project\_id}/groups/{group\_id}/topics/{topic\_id}/search-criterias

**Table 4-490** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| group_id   | Yes       | String | ID of the log group whose log streams will be queried. Generally, it contains 36 characters.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                          |
| topic_id   | Yes       | String | Log stream ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                        |

**Table 4-491** Query Parameters

| Parameter   | Mandatory | Type   | Description |
|-------------|-----------|--------|-------------|
| search_type | No        | String | Raw logs.   |

## Request Parameters

**Table 4-492** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=UTF-8</b> .<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                |

## Response Parameters

**Status code: 200**

**Table 4-493** Response body parameters

| Parameter        | Type                                                         | Description    |
|------------------|--------------------------------------------------------------|----------------|
| search_criterias | Array of <a href="#">GetQuerySearchCriteriasBody</a> objects | Response body. |

**Table 4-494** GetQuerySearchCriteriasBody

| Parameter   | Type   | Description              |
|-------------|--------|--------------------------|
| criteria    | String | Quick search of a field. |
| name        | String | Quick search of a name.  |
| id          | String | Quick search ID.         |
| search_type | String | Quick search type.       |

**Status code: 400**

**Table 4-495** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-496** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

**Status code: 500**

**Table 4-497** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-498** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

## Example Requests

Obtaining a Quick Search

```
GET /v1.0/2a473356cca5487f8373be891bffc1cf/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/topics/2b899d46-218c-4f0c-8ace-a36a290a83a0/search-criterias?search_type=ORIGINALLOG
```

## Example Responses

### Status code: 200

Quick search obtained.

```
{
  "search_criterias": [ {
    "criteria": "content : 1234567891234567891234567891234567891234567891234567891234567894",
    "name": "Creating a Number",
    "id": "0eb379f5-f847-4d25-ba89-05967bf1bae3",
    "search_type": "ORIGINALLOG"
  } ]
}
```

### Status code: 400

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "message": {
    "code": "LTS.0208",
    "details": "The log stream does not existed"
  }
}
```

### Status code: 500

The server has received the request but encountered an internal error.

```
{
  "error_code": "LTS.0203",
  "error_msg": "Internal Server Error"
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Quick search obtained.                                                                           |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.14.3 Deleting a Quick Search

#### Function

This API is used to delete a quick search.

#### URI

DELETE /v1.0/{project\_id}/groups/{group\_id}/topics/{topic\_id}/search-criterias

**Table 4-499** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| group_id   | Yes       | String | ID of the log group whose log streams will be queried. Generally, it contains 36 characters.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                          |
| topic_id   | Yes       | String | Log stream ID.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                                                                                                        |



## Request Parameters

**Table 4-500** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=UTF-8</b> .<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                |

**Table 4-501** Request body parameters

| Parameter | Mandatory | Type   | Description            |
|-----------|-----------|--------|------------------------|
| epsId     | No        | String | Enterprise project ID. |
| id        | Yes       | String | Quick search ID.       |

## Response Parameters

**Status code: 400**

**Table 4-502** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-503** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

**Status code: 500****Table 4-504** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-505** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

## Example Requests

Deleting a quick search

```
DELETE /v1.0/2a473356cca5487f8373be891bffc1cf/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/topics/2b899d46-218c-4f0c-8ace-a36a290a83a0/search-criterias
{
  "id" : "345d2276-1ae8-4495-a6ee-bf77c2e5ffb9",
  "epsId" : "0"
}
```

## Example Responses

**Status code: 204**

Quick search deleted.

```
none
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0208",
    "details" : "The log stream does not existed"
  }
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 204         | Quick search deleted.                                                                            |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |
| 500         | The server has received the request but encountered an internal error.                           |

## Error Codes

See [Error Codes](#).

### 4.14.4 Querying All Quick Searches in a Log Group

#### Function

This API is used to query all quick searches in a log group.

#### URI

GET /v1.0/{project\_id}/lts/groups/{group\_id}/search-criterias

**Table 4-506** Path Parameters

| Parameter  | Mandatory | Type   | Description                                                                                                                                                                                       |
|------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| project_id | Yes       | String | Project ID. For details about how to obtain a project ID, see <a href="#">Obtaining the Project ID, Account ID, Log Group ID, and Log Stream ID</a> .<br>Minimum: <b>32</b><br>Maximum: <b>32</b> |
| group_id   | Yes       | String | ID of the log group whose log streams will be queried. Generally, it contains 36 characters.<br>Minimum: <b>36</b><br>Maximum: <b>36</b>                                                          |

## Request Parameters

**Table 4-507** Request header parameters

| Parameter    | Mandatory | Type   | Description                                                                                                                                                              |
|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X-Auth-Token | Yes       | String | User token obtained from IAM. For details about how to obtain a user token, see <a href="#">Obtaining a User Token</a> .<br>Minimum: <b>1000</b><br>Maximum: <b>2000</b> |
| Content-Type | Yes       | String | Set this parameter to <b>application/json;charset=UTF-8</b> .<br>Minimum: <b>30</b><br>Maximum: <b>30</b>                                                                |

## Response Parameters

Status code: 200

**Table 4-508** Response body parameters

| Parameter        | Type                                                  | Description   |
|------------------|-------------------------------------------------------|---------------|
| search_criterias | Array of <a href="#">search_criteriasBody</a> objects | Quick search. |

**Table 4-509** search\_criteriasBody

| Parameter       | Type                                                         | Description                          |
|-----------------|--------------------------------------------------------------|--------------------------------------|
| criterias       | Array of <a href="#">GetQuerySearchCriteriasBody</a> objects | Quick search of a single log stream. |
| log_stream_id   | String                                                       | Log stream ID.                       |
| log_stream_name | String                                                       | Log stream name.                     |
| search_type     | String                                                       | Quick search type.                   |

**Table 4-510** GetQuerySearchCriteriaBody

| Parameter   | Type   | Description              |
|-------------|--------|--------------------------|
| criteria    | String | Quick search of a field. |
| name        | String | Quick search of a name.  |
| id          | String | Quick search ID.         |
| search_type | String | Quick search type.       |

**Status code: 400****Table 4-511** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-512** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

**Status code: 500****Table 4-513** Response body parameters

| Parameter | Type                                    | Description         |
|-----------|-----------------------------------------|---------------------|
| message   | <a href="#">ErrorMessagebody</a> object | Error message body. |

**Table 4-514** ErrorMessagebody

| Parameter | Type   | Description    |
|-----------|--------|----------------|
| code      | String | Error code.    |
| details   | String | Error message. |

## Example Requests

Querying All Quick Searches in a Log Group

```
GET /v1.0/2a473356cca5487f8373be891bffc1cf/lts/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/search-criterias
```

## Example Responses

**Status code: 200**

Obtained.

```
{
  "search_criterias" : [ {
    "criterias" : [ {
      "criteria" : "234",
      "name" : "234",
      "id" : "aee53496-xxxx-xxxx-xxxx-5a83d1aae134",
      "search_type" : "ORIGINALLOG"
    }, {
      "criteria" : "24",
      "name" : "2342",
      "id" : "939c930a-xxxx-xxxx-xxxx-a3040d857ce1",
      "search_type" : "ORIGINALLOG"
    } ],
    "log_stream_id" : "85025a4b-xxxx-xxxx-xxxx-2b6851d84ea2",
    "log_stream_name" : "lts-test-topic",
    "search_type" : "ORIGINALLOG"
  } ]
}
```

**Status code: 400**

Invalid request. Modify the request based on the description in **error\_msg** before a retry.

```
{
  "message" : {
    "code" : "LTS.0201",
    "details" : "The log group does not existed"
  }
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "message" : {
    "code" : "LTS.0203",
    "details" : "Internal Server Error"
  }
}
```

## Status Codes

| Status Code | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 200         | Obtained.                                                                                        |
| 400         | Invalid request. Modify the request based on the description in <b>error_msg</b> before a retry. |

| Status Code | Description                                                            |
|-------------|------------------------------------------------------------------------|
| 500         | The server has received the request but encountered an internal error. |

Error Codes

See [Error Codes](#).

# 5 Appendix

## 5.1 Status Codes

Table 1 lists the status codes.

Table 5-1 Status codes

| Status Code | Returned Value        | Description                                                                                    |
|-------------|-----------------------|------------------------------------------------------------------------------------------------|
| 200         | OK                    | The normal response for the GET or PUT operation is returned.                                  |
| 201         | OK                    | The POST request is successful and the query result is returned.                               |
| 204         | No Content            | The normal response for the DELETE operation is returned.                                      |
| 400         | Bad Request           | Request error.                                                                                 |
| 401         | Unauthorized          | The authentication information is not provided or is incorrect.                                |
| 403         | Forbidden             | You are forbidden to access the page requested.                                                |
| 404         | Not Found             | The server failed to find the requested resource.                                              |
| 408         | Request Timeout       | The request timed out.                                                                         |
| 429         | Too Many Requests     | The number of requests exceeded the upper limit.                                               |
| 500         | Internal Server Error | The server encountered an unexpected condition which prevented it from fulfilling the request. |
| 503         | Service Unavailable   | The service is currently unavailable.                                                          |



## 5.2 Error Codes

| Status Code | Error Codes | Error Message                              | Description                                                                               | Solution                                                                         |
|-------------|-------------|--------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 400         | LTS.0009    | Failed to validate the request body.       | Parameter verification failed.                                                            | Modify request parameters based on the returned error information and try again. |
| 400         | LTS.0010    | The system encountered an internal error   | An internal error occurred                                                                | An internal error occurred in LTS. Contact technical support.                    |
| 400         | LTS.0201    | The log group is not existed               | Failed to create the log stream because the associated log group does not exist.          | Check whether the ID of the log group is correct.                                |
| 400         | LTS.0208    | Log stream is associated by transfer       | The log stream does not exist.                                                            | Check whether the log stream to be deleted exists.                               |
| 400         | LTS.0301    | '*' and '?' not allowed as first character | Asterisks (*) and question marks (?) are placed in the middle or at the end of a keyword. | Check the keywords field based on the error information.                         |
| 400         | LTS.2001    | Failed to create alarm rule                | Creation error.                                                                           | Check whether the project ID is correct.                                         |
| 400         | LTS.2002    | Failed to delete alarm rule                | Deletion error.                                                                           | Check whether the database or network connection is normal.                      |
| 400         | LTS.2003    | Failed to update alarm rule                | Modification error.                                                                       | Abnormal connection to the database. Check the database instance status.         |

| Status Code | Error Codes | Error Message                                                                                            | Description                                                                                              | Solution                                                       |
|-------------|-------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 400         | LTS.2004    | The size of alarm rule has exceed the limit: 200                                                         | The number of alarm rules cannot exceed 200.                                                             | Delete existing alarm rules that are no longer used.           |
| 400         | LTS.2005    | The parameter is incorrect                                                                               | Incorrect parameter.                                                                                     | Correct the parameter based on the returned error information. |
| 400         | LTS.2006    | Alarm rule name has already exist                                                                        | The alarm rule name already exists.                                                                      | Use another alarm rule name.                                   |
| 400         | LTS.2007    | Alarm rule not exist                                                                                     | The alarm rule does not exist.                                                                           | Check whether the alarm rule exists.                           |
| 400         | LTS.2008    | Find Alarm rule failed                                                                                   | Failed to query the alarm rule.                                                                          | Check whether the database or network connection is normal.    |
| 400         | LTS.2009    | User must have SMN service authority                                                                     | You must have the permissions on SMN.                                                                    | Acquire the permissions on SMN.                                |
| 400         | LTS.2010    | Topics cannot be empty                                                                                   | The SMN topic cannot be empty.                                                                           | Check whether the SMN topic is empty.                          |
| 400         | LTS.2011    | Alarm rule invalid query frequency or invalid cron expression                                            | Invalid query frequency or cron expression.                                                              | Check the query frequency or cron expression.                  |
| 400         | LTS.2012    | The query time range cannot be larger than 1 hour when the query frequency is less than every 5 minutes. | The query time range cannot be larger than 1 hour when the query frequency is less than every 5 minutes. | Check the query time range and query frequency.                |

| Status Code | Error Codes | Error Message                                                   | Description                     | Solution                                                                 |
|-------------|-------------|-----------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------|
| 400         | LTS.2013    | Send Subject Error                                              | Incorrect SMN topic.            | Correct the topic based on the error information.                        |
| 403         | LTS.0003    | No permission.                                                  | Invalid role                    | Grant the LTS service permission.                                        |
| 403         | LTS.0011    | Invalid projectId                                               | Invalid project ID.             | Ensure that the project ID in the URL is the same as that in the token.  |
| 500         | LTS.0107    | Current user does not have the permission to operate this group | Failed to update the log group. | Abnormal connection to the database. Check the database instance status. |

## 5.3 Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID

### Obtaining Account and Project IDs

Account and project IDs are required in URLs when you call some APIs.

If there are multiple projects in one region, expand **Region** and obtain subproject IDs from the **Project ID** column.

### Obtaining Log Group and Log Stream IDs

1. Log in to the LTS console.
2. On the **Log Management** page, move the cursor to a log group name to view the log group ID.
3. Click  of the target log group and move the cursor to a log stream name to view the log stream ID.