

Log Tank Service
2.0.5

API Reference

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1 Before You Start

1.1 Overview

Log Tank Service (LTS) collects log data from hosts and cloud services. By processing massive amounts of log data efficiently, securely, and in real time, LTS provides useful insights for you to optimize the availability and performance of cloud services and applications. Using LTS, you can efficiently perform real-time decision-making, device O&M management, and service trend analysis.

With the extension APIs provided by LTS, you can use the basic LTS functions. For example, you can query API versions, and create or delete log groups or log streams.

1.2 API Calling

LTS supports Representational State Transfer (REST) APIs that can be called over HTTPS. For details about API calling, see section *Calling APIs*.

1.3 Endpoints

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

1.4 Notes and Constraints

- The number of LTS resources that you can create is determined by your quota.
- For details about the constraints, see API descriptions.

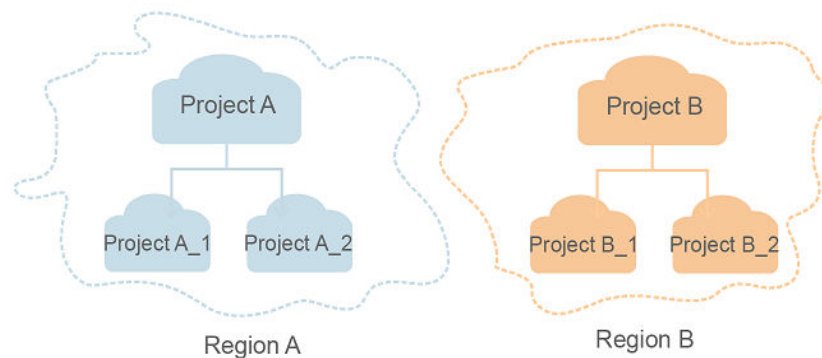
1.5 Basic Concepts

- Domain

A domain has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The domain should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.

- **User**
An IAM user is created using an account to use cloud services. Each IAM user has their own identity credentials (password and access keys).
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 of one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Computing, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.
- **Project**
Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. If you need more refined access control, create subprojects under a default project and create resources in subprojects. Then you can assign users the permissions required to access only the resources in the specific subprojects.

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 the administrator.
- **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 HTTP 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://{{endpoint}}/v3/auth/tokens
```

Request Header

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

[Table 2-1](#) describes common request headers.

Table 2-1 Common request headers

Parameter	Description	Mandatory	Example Value
Host	Specifies the 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 https is 443 .	No This field is mandatory for AK/SK authentication.	code.test.com or code.test.com:443

Parameter	Description	Mandatory	Example Value
Content-Type	Specifies the type (or format) of the message body. The default value application/json is recommended. Other values of this field will be provided for specific APIs if any.	Yes	application/json
Content-Length	Specifies the length of the request body. The unit is byte.	No	3495
X-Project-Id	Specifies the project ID. Obtain the project ID by following the instructions in Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID .	No	e9993fc787d94b6c886cb aa340f9c0f4
X-Auth-Token	Specifies a user token. User token. It is a response to the API for obtaining a user token. This API is the only one that does not require authentication. After the request is processed, the value of X-Subject-Token in the response header is the token value.	No This field is mandatory for token authentication.	The following is part of an example token: MIIPAgYJKoZlhvcNAQc-Co...ggg1BBIIlNPXsidG9rZ

 **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://{{endpoint}}/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.

If an API is used to obtain a user token, the request parameters and parameter description can be obtained from the API request. The following section provides an example request with the body included. Replace *username*, *domainname* (account name), ******* (login password), and *XXXXXXXXXXXXXXXXXXXX* (project name, which can be obtained from the administrator) with the actual values.

NOTE

The **scope** parameter specifies where a token takes effect. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see obtaining a user token.

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

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

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.

When calling an API to obtain a user token, set **auth.scope** in the request body to **project**.

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

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

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

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
→ MIIVXQVJKoZiIhvcNAQcCoIYYTCCGEoCAQExDTALBglghkgB8ZQMEEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6ijlwMTktMDItMTNUMC
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgkklqO1wi4JlGzrpdl8LGXK5tdffq4lqHCYb8P4NaY0NYejcAgzJVeFYtLWT1GSO0zxKZmlQHqj82HBqHdglZO9fuEbL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jggIFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUubpvGw-oPNFYxJECKnoH3HRozv0wN--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 the **APIs** section are case-sensitive.

4.1 Host Group Management

4.1.1 Querying Hosts

Function

Query a 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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

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. Minimum: 36 Maximum: 36 Array Length: 0 - 100
filter	No	GetHostListFilter 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. Minimum: 1 Maximum: 128 Array Length: 0 - 100

Parameter	Mandatory	Type	Description
host_ip_list	No	Array of strings	Host ID list. You can filter hosts by host IP address. Minimum: 1 Maximum: 16 Array Length: 0 - 100
host_status	No	String	Host status. You can filter hosts by host status. uninstall : The host is not installed. running : The host is running. offline : The host is offline. error : The host is abnormal. plugin error : invalid plug-in. installing : The host is being installed. install-fail : The installation fails. upgrading : The upgrade is in progress. upgrading-transient : The upgrade is in progress. upgrade failed : The upgrade fails. upgrade-fail : The upgrade fails. uninstalling : The host is being uninstalled. uninstalling-transient : The host is being uninstalled. authentication error : The authentication fails. Enumeration values: <ul style="list-style-type: none"> ● uninstall ● running ● offline ● error ● plugin error ● installing ● install-fail ● upgrading ● upgrading-transient ● upgrade failed ● upgrade-fail ● uninstalling ● uninstalling-transient ● authentication error

Parameter	Mandatory	Type	Description
host_version	No	String	Host version. You can filter hosts by host version. Minimum: 1 Maximum: 16

Response Parameters

Status code: 200

Table 4-5 Response body parameters

Parameter	Type	Description
result	Array of GetHostListInfo objects	Host list. Array Length: 0 - 1000
total	Long	Total number of hosts. Minimum: 0 Maximum: 10000

Table 4-6 GetHostListInfo

Parameter	Type	Description
host_id	String	Host ID. Minimum: 36 Maximum: 36
host_ip	String	Host IP address. Minimum: 1 Maximum: 16
host_name	String	Host name. Minimum: 1 Maximum: 128

Parameter	Type	Description
host_status	String	<p>Host status. uninstall: not installed. running: The job is running. offline: The host is offline. error: The host is abnormal. plugin error: invalid plug-in. installing: The host is being installed. install-fail: The installation fails. upgrading: The upgrade is in progress. upgrading-transient: The upgrade is in progress. upgrade failed: The upgrade fails. upgrade-fail: The upgrade fails. uninstalling: The host is being uninstalled. uninstalling-transient: The host is being uninstalled. authentication error: The authentication fails.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> ● uninstall ● running ● offline ● error ● plugin error ● installing ● install-fail ● upgrading ● upgrading-transient ● upgrade failed ● upgrade-fail ● uninstalling ● uninstalling-transient ● authentication error
host_type	String	<p>Host type. The value can be linux.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> ● linux
host_version	String	<p>Host version.</p> <p>Minimum: 1</p> <p>Maximum: 16</p>
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 message.

Status code: 500

Table 4-8 Response body parameters

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

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}/v2/{project_id}/lts/host-list
/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": "ruxxxx",
    "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-apmtxxxxxx",
    "host_status": "xxxxxx",
    "host_type": "xxxxxx",
    "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" : "The system encountered an internal error"
}
```

Status Codes

Status Code	Description
200	The host query is successful.
400	Invalid request. Modify the request based on the description in error_msg before a retry.
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 list of host groups.

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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-10 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=utf8 . Default: None Minimum: 29 Maximum: 29

Table 4-11 Request body parameters

Parameter	Mandatory	Type	Description
host_group_id_list	No	Array of strings	Host group ID. Minimum: 36 Maximum: 36 Array Length: 0 - 1000
filter	No	GetHostGroupListFilter object	Host group filters.

Table 4-12 GetHostGroupListFilter

Parameter	Mandatory	Type	Description
host_group_type	No	String	Host type. The value can be linux . Enumeration values: • linux
host_group_name_list	No	Array of strings	List of host group names. Minimum: 1 Maximum: 64 Array Length: 0 - 1000

Parameter	Mandatory	Type	Description
host_name_list	No	Array of strings	Host name list. Minimum: 1 Maximum: 128 Array Length: 0 - 1000
host_group_tag	No	GetHostGroupListTag object	Host group tags.

Table 4-13 GetHostGroupListTag

Parameter	Mandatory	Type	Description
tag_type	No	String	Tag type. Tag filtering logic: AND or OR . Enumeration values: <ul style="list-style-type: none"> • AND • OR
tag_list	No	Array of HostGroupTag objects	Host group tags. Array Length: 1 - 1000

Table 4-14 HostGroupTag

Parameter	Mandatory	Type	Description
key	No	String	Tag key. Minimum: 1 Maximum: 36
value	No	String	Tag value. Minimum: 1 Maximum: 36

Response Parameters

Status code: 200

Table 4-15 Response body parameters

Parameter	Type	Description
result	Array of GetHostGroupInfo objects	Host group list. Array Length: 0 - 1000
total	Long	Total number of host groups. Minimum: 0 Maximum: 1000

Table 4-16 GetHostGroupInfo

Parameter	Type	Description
host_group_id	String	Host group ID. Minimum: 36 Maximum: 36
host_group_name	String	Host group name. Minimum: 1 Maximum: 64
host_group_type	String	Host type. The value can be linux . Enumeration values: <ul style="list-style-type: none"> linux
host_id_list	Array of strings	Host ID list. Minimum: 36 Maximum: 36 Array Length: 0 - 1000
host_group_tags	Array of HostGroupTag objects	Tags. Array Length: 0 - 1000
create_time	Long	Creation time. Minimum: 0 Maximum: 999999999999999
update_time	Long	Update time. Minimum: 0 Maximum: 999999999999999

Parameter	Type	Description
agent_access_type	String	Host group type. Enumeration values: <ul style="list-style-type: none"> • LABEL • IP
labels	Array of strings	Tag.

Table 4-17 HostGroupTag

Parameter	Type	Description
key	String	Tag key. Minimum: 1 Maximum: 36
value	String	Tag value. Minimum: 1 Maximum: 36

Status code: 400

Table 4-18 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8
error_msg	String	Error message. Minimum: 1 Maximum: 1000

Status code: 500

Table 4-19 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8
error_msg	String	Error message. Minimum: 1 Maximum: 1000

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
/v3/{project_id}/lts/host-group-list
{
  "host_group_id_list": ["bca6d903-3528-42a8-91f4-586722cxxxx"],
  "filter": {
    "host_group_type": "linux",
    "host_group_name_list": ["wjtxxx", "xxxest"],
    "host_name_list": ["ecs-apmtexxdeletion"],
    "host_group_tag": {
      "tag_type": "AND",
      "tag_list": [{
        "key": "xxx",
        "value": "xxx"
      }
    ]
  }
}
}
```

Example Responses

Status code: 200

The host group query is successful.

```
{
  "result": [ {
    "agent_access_type": "IP",
    "create_time": 1684811693411,
    "host_group_id": "xxxx-3edb-4bb9-ba61-6b690d44d1cd",
    "host_group_name": "lmy-xxxx-0522-3",
    "host_group_tag": [ {
      "key": "test001",
      "value": "bbb1"
    }, {
      "key": "aaa2",
      "value": "bbb2"
    }
  ],
    "host_group_type": "linux",
    "host_id_list": [ "xxxx-3054-4f4a-a0b3-86c804d31841" ],
    "labels": [ ],
    "update_time": 1684811693411
  } ],
}
```

```
"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" : "The system encountered an internal error"  
}
```

Status Codes

Status Code	Description
200	The host group query is successful.
400	Invalid request. Modify the request based on the description in error_msg 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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-21 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-22 Request body parameters

Parameter	Mandatory	Type	Description
host_group_name	Yes	String	Host group name. Minimum: 1 Maximum: 64
host_group_type	Yes	String	Host type. The value can be linux . Enumeration values: • linux

Parameter	Mandatory	Type	Description
host_id_list	No	Array of strings	List of host group IDs. The host type must be the same as the host group type. Minimum: 36 Maximum: 36 Array Length: 1 - 1000
host_group_tag	No	Array of HostGroupTag objects	Tag information. You can add up to 20 tags. The tag key must be unique. Array Length: 1 - 10
agent_access_type	No	String	Host group type. Enumeration values: <ul style="list-style-type: none"> • LABEL • IP
labels	No	Array of strings	Tags.

Table 4-23 HostGroupTag

Parameter	Mandatory	Type	Description
key	No	String	Tag key. Minimum: 1 Maximum: 36
value	No	String	Tag value. Minimum: 1 Maximum: 36

Response Parameters

Status code: 200

Table 4-24 Response body parameters

Parameter	Type	Description
host_group_id	String	Host group ID. Minimum: 36 Maximum: 36

Parameter	Type	Description
host_group_name	String	Host group name. Minimum: 1 Maximum: 64
host_group_type	String	Host type. The value can be linux . Enumeration values: <ul style="list-style-type: none"> linux
host_id_list	Array of strings	Host ID list. Minimum: 36 Maximum: 36 Array Length: 0 - 1000
host_group_tag	Array of HostGroupTag objects	Tags. Array Length: 0 - 1000
create_time	Long	Creation time. Minimum: 0 Maximum: 9999999999999
update_time	Long	Update time. Minimum: 0 Maximum: 9999999999999
agent_access_type	String	Host group type. Enumeration values: <ul style="list-style-type: none"> LABEL IP
labels	Array of strings	Tag.

Table 4-25 HostGroupTag

Parameter	Type	Description
key	String	Tag key. Minimum: 1 Maximum: 36
value	String	Tag value. Minimum: 1 Maximum: 36

Status code: 400

Table 4-26 Response body parameters

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

Status code: 500

Table 4-27 Response body parameters

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

Example Requests

Create a host group.

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

/v3/{project_id}/lts/host-group
{
  "host_group_name": "APIxx3",
  "host_group_type": "linxx",
  "host_id_list": ["dc1dab7e-b045-4e77xxd1bf7", "713a9fxx2df-24c4ca599def"]
}
```

Example Responses

Status code: 200

The host group is created.

```
{
  "agent_access_type": "IP",
  "create_time": 1684982746202,
  "host_group_id": "xxxx-abb8-4ec7-914c-25ce9ea10835",
  "host_group_name": "lmy-test-0522-8",
  "host_group_tag": [ ],
  "host_group_type": "linux",
  "host_id_list": [ "xxx-e8ad-430c-ac12-46bac5e39fe6", "xxxx-7179-463b-90b1-0c3261aedceb" ],
  "labels": [ ],
  "update_time": 1684982746202
}
```

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" : "The system encountered an internal error"
}
```

Status Codes

Status Code	Description
200	The host group is created.
400	Invalid request. Modify the request based on the description in error_msg 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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-29 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-30 Request body parameters

Parameter	Mandatory	Type	Description
host_group_id_list	Yes	Array of strings	List of host group IDs. Minimum: 36 Maximum: 36 Array Length: 1 - 1000

Response Parameters

Status code: 200

Table 4-31 Response body parameters

Parameter	Type	Description
result	Array of GetHostGroupInfo objects	Host group details. Array Length: 0 - 1000
total	Long	Number of deleted host groups. Minimum: 0 Maximum: 1000

Table 4-32 GetHostGroupInfo

Parameter	Type	Description
host_group_id	String	Host group ID. Minimum: 36 Maximum: 36
host_group_name	String	Host group name. Minimum: 1 Maximum: 64
host_group_type	String	Host type. The value can be linux . Enumeration values: <ul style="list-style-type: none"> • linux
host_id_list	Array of strings	Host ID list. Minimum: 36 Maximum: 36 Array Length: 0 - 1000
host_group_tag	Array of HostGroupTag objects	Tags. Array Length: 0 - 1000
create_time	Long	Creation time. Minimum: 0 Maximum: 999999999999999
update_time	Long	Update time. Minimum: 0 Maximum: 999999999999999
agent_access_type	String	Host group type. Enumeration values: <ul style="list-style-type: none"> • LABEL • IP
labels	Array of strings	Tag.

Table 4-33 HostGroupTag

Parameter	Type	Description
key	String	Tag key. Minimum: 1 Maximum: 36

Parameter	Type	Description
value	String	Tag value. Minimum: 1 Maximum: 36

Status code: 400

Table 4-34 Response body parameters

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

Status code: 500

Table 4-35 Response body parameters

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

Example Requests

Delete a host group.

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

```
{
  "host_group_id_list": [ "xxx", "xxx" ]
}
```

Example Responses

Status code: 200

Host groups are deleted.

```
{
  "result": [ {
    "agent_access_type": "IP",
    "create_time": 1684718581734,
    "host_group_id": "xxx-a0f3-47bb-8449-c7740a9e764d",
    "host_group_name": "lmy-xxx-0522-2",
    "host_group_tag": [ {
      "key": "tag0522",
      "value": "xxx"
    } ],
  } ],
}
```

```

"host_group_type": "linux",
"host_id_list": [ "xxx-3054-4f4a-a0b3-86c804d31841", "bd0a5fce-a834-xxxxx-b9c5-28a812c6643a" ],
"labels": [ ],
"update_time": 1684719073657
}],
"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": "The system encountered an internal error"
}

```

Status Codes

Status Code	Description
200	Host groups are deleted.
400	Invalid request. Modify the request based on the description in error_msg 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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-37 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-38 Request body parameters

Parameter	Mandatory	Type	Description
host_group_id	Yes	String	Host group ID. Minimum: 36 Maximum: 36
host_group_name	No	String	Host group name. Minimum: 1 Maximum: 64

Parameter	Mandatory	Type	Description
host_id_list	No	Array of strings	Host ID list. The host type must be the same as the host group type. Minimum: 36 Maximum: 36 Array Length: 0 - 1000
host_group_tag	No	Array of HostGroupTag objects	Host group tags. The tag key must be unique. Array Length: 1 - 10

Table 4-39 HostGroupTag

Parameter	Mandatory	Type	Description
key	No	String	Tag key. Minimum: 1 Maximum: 36
value	No	String	Tag value. Minimum: 1 Maximum: 36

Response Parameters

Status code: 200

Table 4-40 Response body parameters

Parameter	Type	Description
host_group_id	String	Host group ID. Minimum: 36 Maximum: 36
host_group_name	String	Host group name. Minimum: 1 Maximum: 64
host_group_type	String	Host type. The value can be linux . Enumeration values: <ul style="list-style-type: none"> linux

Parameter	Type	Description
host_id_list	Array of strings	Host ID list. Minimum: 36 Maximum: 36 Array Length: 0 - 1000
host_group_tag	Array of HostGroupTag objects	Tags. Array Length: 0 - 1000
create_time	Long	Creation time. Minimum: 0 Maximum: 999999999999999
update_time	Long	Update time. Minimum: 0 Maximum: 999999999999999
agent_access_type	String	Host group type. Enumeration values: <ul style="list-style-type: none"> • LABEL • IP
labels	Array of strings	Tag.

Table 4-41 HostGroupTag

Parameter	Type	Description
key	String	Tag key. Minimum: 1 Maximum: 36
value	String	Tag value. Minimum: 1 Maximum: 36

Status code: 400

Table 4-42 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-43 Response body parameters

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

Example Requests

Modify a host group.

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.

```
{
  "result": [{
    "agent_access_type": "IP",
    "create_time": 1684718581734,
    "host_group_id": "xxxx-a0f3-47bb-8449-c7740a9e764d",
    "host_group_name": "lmy-xxx-0522-2",
    "host_group_tag": [{
      "key": "tag0522",
      "value": "xxxx"
    }],
    "host_group_type": "linux",
    "host_id_list": [ "xxx-3054-4f4a-a0b3-86c804d31841", "bd0a5fce-a834-xxxxxx-b9c5-28a812c6643a" ],
    "labels": [],
    "update_time": 1684719073657
  }],
  "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" : "The system encountered an internal error"
}
```

Status Codes

Status Code	Description
200	The host group is modified.
400	Invalid request. Modify the request based on the description in error_msg 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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-45 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-46 Request body parameters

Parameter	Mandatory	Type	Description
log_group_name	Yes	String	Name of the log group to be created. Minimum: 1 Maximum: 64 Enumeration values: <ul style="list-style-type: none"> • lts-group-01nh

Parameter	Mandatory	Type	Description
ttl_in_days	Yes	Integer	Log retention duration . Enumeration values: <ul style="list-style-type: none"> 7

Response Parameters

Status code: 201

Table 4-47 Response body parameters

Parameter	Type	Description
log_group_id	String	ID of the created log group. Minimum: 36 Maximum: 36

Status code: 400

Table 4-48 Response body parameters

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

Status code: 401

Table 4-49 Response body parameters

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

Status code: 403

Table 4-50 Response body parameters

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

Status code: 500

Table 4-51 Response body parameters

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

Status code: 503

Table 4-52 Response body parameters

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

Example Requests

```
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. 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.0003",
  "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.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. Invalid request. Modify the request based on the description in error_msg 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](#).

4.2.2 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 4-53 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-54 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Response Parameters

Status code: **200**

Table 4-55 Response body parameters

Parameter	Type	Description
log_groups	Array of LogGroup objects	Log group information. Array Length: 0 - 100

Table 4-56 LogGroup

Parameter	Type	Description
creation_time	Number	Creation time.
log_group_name	String	Log group name. Minimum: 1 Maximum: 64
log_group_id	String	Log group ID. Minimum: 36 Maximum: 36
ttl_in_days	Integer	Log retention duration ().
tag	Map<String,String>	Log stream tags.
stream_size	Integer	Number of log streams in a log group.

Status code: 401

Table 4-57 Response body parameters

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

Status code: 403

Table 4-58 Response body parameters

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

Status code: 500

Table 4-59 Response body parameters

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

Status code: 503

Table 4-60 Response body parameters

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

Example Requests

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

Example Responses

Status code: 200

The request is successful.

```
{
  "log_groups" : [ {
    "creation_time" : 1684916141865,
    "stream_size" : 1,
    "log_group_name" : "aom-090-002",
    "tag" : { },
    "log_group_id" : "d5c78cea-7c53-467e-b17e-344f2370b8e9",
    "ttl_in_days" : 7
  }, {
    "creation_time" : 1684720336218,
    "stream_size" : 1,
    "log_group_name" : "lts-group-lmytest-0522-2",
    "tag" : {
      "tag8" : "test8",
      "tag9" : "test9",
      "tag" : "66666@.com",
      "tag7" : "test7",
      "tag2" : "test"
    },
    "log_group_id" : "dd723a1e-43b4-4964-943c-e43fd1d1bef3",
    "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 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.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 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](#).

4.2.3 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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32
log_group_id	Yes	String	Log group ID. For details about how to obtain the log group ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Default: None Minimum: 36 Maximum: 36

Request Parameters

Table 4-62 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

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.

Status code: 503

Table 4-67 Response body parameters

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

Example Requests

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

Example Responses

Status code: 400

BadRequest. Invalid request. 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 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.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. Invalid request. Modify the request based on the description in error_msg 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.

Status Code	Description
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 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 4-68 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	[Project]ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32
log_group_id	Yes	String	ID of the log group to which the log stream to be created belongs. Default: None Minimum: 36 Maximum: 36

Request Parameters

Table 4-69 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-70 Request body parameters

Parameter	Mandatory	Type	Description
log_stream_name	Yes	String	Name of the log stream to be created. Minimum: 1 Maximum: 64

Response Parameters

Status code: 201

Table 4-71 Response body parameters

Parameter	Type	Description
log_stream_id	String	ID of the created log stream. Minimum: 36 Maximum: 36

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.

Status code: 503

Table 4-76 Response body parameters

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

Example Requests

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams
{
  "log_stream_name" : "lts-stream-02kh",
  "ttl_in_days" : 7,
  "enterprise_project_name" : "h2"
}
```

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. 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.0003",
  "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.0202",
  "error_msg" : "Failed to create Log stream"
}
```

Status code: 503

ServiceUnavailable. The requested service is unavailable.

```
{
  "error_code" : "LTS.0403",
}
```



```
"error_msg" : "ServiceUnavailable"
}
```

Status Codes

Status Code	Description
201	The request is successful and the log stream has been created.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg 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](#).

4.3.2 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 4-77 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	[Project]ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	ID of the log group whose log streams will be queried. Default: None Minimum: 36 Maximum: 36

Request Parameters

Table 4-78 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Response Parameters

Status code: 200

Table 4-79 Response body parameters

Parameter	Type	Description
log_streams	Array of LogStream objects	List of log groups. Array Length: 0 - 100

Table 4-80 LogStream

Parameter	Type	Description
creation_time	Long	Creation time.

Parameter	Type	Description
log_stream_name	String	Log stream name. Minimum: 1 Maximum: 64
log_stream_id	String	Log stream ID. Minimum: 36 Maximum: 36
filter_count	Integer	Number of filters. Minimum: 0 Maximum: 5
tag	Map<String,String>	Log stream tags.
is_favorite	Boolean	Indicates whether to favorite the media asset.

Status code: 401

Table 4-81 Response body parameters

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

Status code: 403

Table 4-82 Response body parameters

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

Status code: 500

Table 4-83 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 503

Table 4-84 Response body parameters

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

Example Requests

```
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": 1684725311230,
    "log_stream_name": "lts-xxxx-lmytest-0522-12",
    "is_favorite": true,
    "tag": {
      "_sys_enterprise_project_id": "0",
      "tag8": "test8",
      "tag6": "test6",
      "tag": "66666@.com",
      "tag5": "test5",
      "tag2": "test"
    }
  },
  "filter_count": 0,
  "log_stream_id": "xxxx-ccc5-46xxx89-8b8a-90d269f7db76"
}, {
  "creation_time": 1684740643926,
  "log_stream_name": "lts-topic-test001002",
  "is_favorite": false,
  "tag": {
    "_sys_enterprise_project_id": "0"
  },
  "filter_count": 0,
  "log_stream_id": "7cdc28ce-xxxx-4f4b-9247-6edd42808f8a"
} ]
}
```

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

Status code: 503

ServiceUnavailable. The requested service is unavailable.

```
{
  "error_code": "LTS.0403",
  "error_msg": "ServiceUnavailable"
}
```

Status Codes

Status Code	Description
200	The request is successful.
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](#).

4.3.3 Querying Log Streams

Function

This API is used to query log streams.

URI

GET /v2/{project_id}/log-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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Table 4-86 Query Parameters

Parameter	Mandatory	Type	Description
log_group_name	No	String	Log group name. Minimum: 1 Maximum: 64
log_stream_name	No	String	Log stream name. Minimum: 1 Maximum: 64
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. Minimum: 0 Maximum: 1024
limit	No	Integer	Number of records on each page. The maximum value is 100 . Minimum: 0 Maximum: 100

Request Parameters

Table 4-87 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Response Parameters

Status code: 200

Table 4-88 Response body parameters

Parameter	Type	Description
log_streams	Array of LogStream objects	List of log groups. Array Length: 0 - 100

Table 4-89 LogStream

Parameter	Type	Description
creation_time	Long	Creation time.
log_stream_name	String	Log stream name. Minimum: 1 Maximum: 64
log_stream_id	String	Log stream ID. Minimum: 36 Maximum: 36

Parameter	Type	Description
filter_count	Integer	Number of filters. Minimum: 0 Maximum: 5
tag	Map<String,String>	Log stream tags.
is_favorite	Boolean	Indicates whether to favorite the media asset.

Status code: 400

Table 4-90 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8
error_msg	String	Error message. Minimum: 1 Maximum: 1000

Status code: 500

Table 4-91 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8
error_msg	String	Error message. Minimum: 1 Maximum: 1000

Example Requests

If no parameter is specified, all log streams are returned. 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=lts-group-txxxx
```



```
/v2/{project_id}/log-streams?log_stream_name=lts-xunjian-topic-xxxx
/v2/{project_id}/log-streams?log_stream_name=lts-xunjian-topic-xxxx&log_group_name=lts-group-xxx
```

Example Responses

Status code: 200

Log stream information is returned.

```
{
  "log_streams": [ {
    "creation_time": 1684725311230,
    "log_stream_name": "lts-xxxx-lmytest-0522-12",
    "is_favorite": true,
    "tag": {
      "_sys_enterprise_project_id": "0",
      "tag": "666666@.com",
      "tag5": "test5"
    },
    "filter_count": 0,
    "log_stream_id": "f5fdce2d-xxxx-4689-8b8a-90d269f7db76"
  } ]
}
```

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 error_msg 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 a log transfer task has been associated with the log stream, delete the task first.

URI

DELETE /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}

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 Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID . Default: None Minimum: 32 Maximum: 32
log_group_id	Yes	String	ID of the log group whose log streams will be deleted. Default: None Minimum: 36 Maximum: 36
log_stream_id	Yes	String	ID of the log stream to be deleted. For details about how to obtain the log stream ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID . Default: None Minimum: 36 Maximum: 36

Request Parameters

Table 4-93 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Response Parameters

Status code: 400

Table 4-94 Response body parameters

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

Status code: 401

Table 4-95 Response body parameters

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

Status code: 403

Table 4-96 Response body parameters

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

Status code: 500

Table 4-97 Response body parameters

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

Status code: 503

Table 4-98 Response body parameters

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

Example Requests

```
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. Invalid request. 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 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.0203",
  "error_msg" : "Failed to delete Log stream"
}
```

Status code: 503

ServiceUnavailable. The requested service is unavailable.

```
{
  "error_code" : "LTS.0403",
  "error_msg" : "ServiceUnavailable"
}
```

Status Codes

Status Code	Description
204	The request is successful and the log stream has been deleted.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg 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](#).

4.4 Log Management

4.4.1 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 4-99 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	[Project]ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32
log_group_id	Yes	String	Log group ID. For details about how to obtain a log group ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID . Default: None Minimum: 36 Maximum: 36
log_stream_id	Yes	String	Log stream ID. For details about how to obtain a log stream ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID . Default: None Minimum: 36 Maximum: 36

Request Parameters

Table 4-100 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-101 Request body parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time of the query (UTC, in milliseconds). Note: Maximum query time range: 30 days
end_time	Yes	String	End time of the query (UTC, in milliseconds). Note: Maximum query time range: 30 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. Enumeration values: <ul style="list-style-type: none"> 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 line_num should be between the values of start_time and end_time . Minimum: 19 Maximum: 19
is_desc	No	Boolean	Whether the search order is descending or ascending. The default value is false , indicating that search results are displayed in ascending order. Default: false
search_type	No	String	The value is init (default value) for the first query, or forwards or backwards for a pagination query. This parameter is used together with is_desc for pagination queries. Enumeration values: <ul style="list-style-type: none"> • forwards • backwards
limit	No	Integer	Number of logs to be queried each time. The value is 50 when this parameter is not set. You are advised to set this parameter to 100 . Minimum: 1 Maximum: 5000 Default: 50
highlight	No	Boolean	Whether the keyword is highlighted. The default value is true , indicating that the keyword is highlighted. Default: true

Parameter	Mandatory	Type	Description
is_count	No	Boolean	Whether the number of log events is counted. The default value is false , indicating that the number of log events is not counted. Enumeration values: <ul style="list-style-type: none"> • true

Response Parameters

Status code: 200

Table 4-102 Response body parameters

Parameter	Type	Description
logs	LogContents object	Log information.
count	Integer	Number of logs.
isQueryComplete	Boolean	Indicates whether the query is complete.

Table 4-103 LogContents

Parameter	Type	Description
content	String	Raw log data. Minimum: 1 Maximum: 10000
line_num	String	Sequence number of a log line. Minimum: 19 Maximum: 19
labels	Map<String,String>	Indicates the log labels.

Status code: 400

Table 4-104 Response body parameters

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

Status code: 401

Table 4-105 Response body parameters

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

Status code: 403

Table 4-106 Response body parameters

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

Status code: 500

Table 4-107 Response body parameters

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

Status code: 503

Table 4-108 Response body parameters

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

Example Requests

- Log content.

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query
```

```
2020-07-25/14:44:42 this log is Error NO 1
2020-07-25/14:44:43 this log is Error NO 2
2020-07-25/14:44:44 this log is Error NO 3
2020-07-25/14:44:45 this log is Error NO 4
2020-07-25/14:44:46 this log is Error NO 5
2020-07-25/14:44:47 this log is Error NO 6
2020-07-25/14:44:48 this log is Error NO 7
2020-07-25/14:44:49 this log is Error NO 8
2020-07-25/14:44:50 this log is Error NO 9
2020-07-25/14:44:51 this log is Error NO 10
```

- 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):

```
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
}
```

- 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):

```
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.

```
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):

```
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
}
```

- 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):

```
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
}
```

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\n",
      "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\n",
      "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\n",
  "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\n",
  "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\n",
  "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\n",
  "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\n",
  "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\n",
  "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\n",
  "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\n",
  "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\n",  
      "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\n",  
      "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\n",  
      "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\n",
```

```
    "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\n",
    "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\n",
    "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\n",
      "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\n",
      "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\n",
      "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\n",
      "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": "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3\n",
      "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"
    }
  ]
}
```

```
    "category": "LTS"
  },
  "line_num": "1595659490239433656"
},
{
  "content": "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2\n",
  "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

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.0003",
  "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.0202",
  "error_msg" : "Failed to query lts log"
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg 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](#).

4.4.2 Querying Structured Logs

Function

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

URI

POST /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/struct-content/query

Table 4-109 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. Default: None Minimum: 36 Maximum: 36
log_stream_id	Yes	String	Log stream ID. Default: None Minimum: 36 Maximum: 36

Request Parameters

Table 4-110 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-111 Request body parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time of the query (UTC, in milliseconds). Minimum: 13 Maximum: 13
end_time	Yes	String	End time of the query (UTC, in milliseconds). Minimum: 13 Maximum: 13

Parameter	Mandatory	Type	Description
sql_expression	No	String	SQL statement used for search. GROUP BY , LIKE , WHERE , and SELECT are supported. Default: SELECT* Minimum: 0 Maximum: 100 Enumeration values: <ul style="list-style-type: none"> • SELECT* • GROUP BY • LIKE • WHERE
original_content	No	Boolean	Whether raw logs are returned. The default value is false . Default: false

Response Parameters

Status code: 200

Table 4-112 Response body parameters

Parameter	Type	Description
struct_logs	Array of StructLogContents objects	Log information. Array Length: 1 - 5000

Table 4-113 StructLogContents

Parameter	Type	Description
log_content	String	Raw log data. Minimum: 1 Maximum: 10000
line_num	String	Sequence number of a log line. Minimum: 19 Maximum: 19

Status code: 400

Table 4-114 Response body parameters

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

Status code: 401

Table 4-115 Response body parameters

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

Status code: 403

Table 4-116 Response body parameters

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

Status code: 500

Table 4-117 Response body parameters

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

Status code: 503

Table 4-118 Response body parameters

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

Example Requests

- When **sql_expression** is set to **select count(test3), sum(test4):**

```
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/struct-content/query
{
  "start_time": "1595811590539",
  "end_time": "1595811593539",
  "sql_expression": "select count(test3), sum(test4)"
}
```

- When **sql_expression** is set to **select count(test3), sum(test4) group by(test1):**

```
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/struct-content/query
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/struct-content/query { "start_time":
"1595811590539", "end_time": "1595811593539", "sql_expression": "select count(test3),
sum(test4) group by(test1)"}
```

- When **sql_expression** is set to ****select ***:**

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/struct-
content/query
```

```
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/struct-content/query { "start_time":
"1595811590539", "end_time": "1595811593539", "original_content": "true", "sql_expression":
"select ***"}
```

Example Responses

Status code: 200

The request is successful.

When ****sql_expression**** is set to ****select ***:**

```
"struct_logs": [
  {
    "test4": "151687",
    "test2": "08:59:53",
    "test3": "this",
    "line_num": "1595811593539371695",
    "log_content": "2020-07-27/08:59:53 this log is Error NO 151687\n",
    "test1": "2020-07-27"
  },
  {
    "test4": "151686",
    "test2": "08:59:52",
    "test3": "this",
    "line_num": "1595811592539361171",
    "log_content": "2020-07-27/08:59:52 this log is Error NO 151686\n",
    "test1": "2020-07-27"
  },
  {
    "test4": "151685",
    "test2": "08:59:51",
    "test3": "this",
    "line_num": "1595811591539422860",
    "log_content": "2020-07-27/08:59:51 this log is Error NO 151685\n",
    "test1": "2020-07-27"
  },
  {
    "test4": "151684",
    "test2": "08:59:50",
    "test3": "this",
    "line_num": "1595811590539454127",
    "log_content": "2020-07-27/08:59:50 this log is Error NO 151684\n",
    "test1": "2020-07-27"
  }
]
```

```
]
}

When **sql_expression** is set to **select count(test3), sum(test4)**:
{
  "struct_logs": [
    {
      "cnt(test3)": "4",
      "sum(test4)": "606742.000"
    }
  ]
}

When **sql_expression** is set to **select count(test3), sum(test4) group by(test1)**:
{
  "struct_logs": [
    {
      "cnt(test3)": "4",
      "sum(test4)": "606742.000",
      "test1": "2020-07-27"
    }
  ]
}

When **sql_expression** is set to **select count(test3), sum(test4) group by(test1)**:
{
  "struct_logs": [
    {
      "cnt(test3)": "4",
      "sum(test4)": "606742.000",
      "test1": "2020-07-27"
    }
  ]
}
```

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.0202",
  "error_msg" : "Failed to query lts struct log"
}
```

Status Codes

Status Code	Description
200	The request is successful.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg 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](#).

4.4.3 Querying the Log Histogram

Function

Query the number of results returned by keyword.

URI

POST /v2/{project_id}/lts/keyword-count

Table 4-119 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-120 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-121 Request body parameters

Parameter	Mandatory	Type	Description
start_time	Yes	String	Start time of the query (UTC, in milliseconds). Minimum: 13 Maximum: 13
end_time	Yes	String	End time of the query (UTC, in milliseconds). Minimum: 13 Maximum: 13
step_interval	Yes	Long	Time step in milliseconds (ms). Recommended formula: (end_time-start_time)/1000 x 1000/60 , where /1000 x 1000 means rounding to an integer. Note: If the calculated result is less than or equal to 1000, the value 1000 is used.
group_id	Yes	String	Log group ID. Minimum: 36 Maximum: 36

Parameter	Mandatory	Type	Description
stream_id	Yes	String	Log stream ID. Minimum: 36 Maximum: 36
key_word	Yes	String	A keyword is a word between two adjacent delimiters.

Response Parameters

Status code: 200

Table 4-122 Response body parameters

Parameter	Type	Description
count	Long	Number of logs.
histogram	String	Histogram result.

Status code: 400

Table 4-123 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 request is successful.

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

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 Codes

Status Code	Description
200	The request is successful.
400	Invalid request. Modify the request based on the description in error_msg before a retry.

Error Codes

See [Error Codes](#).

4.5 Log Ingestion (Old 1.0)

4.5.1 Configuring Log Collection Paths

Function

This API is used to configure the log collection paths of a specified ICAgent. This API applies only to configurations of log collection paths on the **Log > Path Configuration** page of the Application Operations Management (AOM) console.

URI

POST /v2/{project_id}/log-paths

Table 4-124 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Minimum: 32 Maximum: 32

Request Parameters

Table 4-125 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default value: None. Minimum length: 1000 characters. Maximum length: 2000 characters. Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=utf8 . Default value: None. Minimum length: 29 characters. Maximum length: 29 characters. Minimum: 29 Maximum: 29

Table 4-126 Request body parameters

Parameter	Mandatory	Type	Description
agent_config_infos	Yes	Array of AgentConfInfo objects	ICAgent collection path configuration array.

Table 4-127 AgentConflInfo

Parameter	Mandatory	Type	Description
agent_id	Yes	String	The unique ID of ICAgent. Minimum length: 36 characters. Maximum length: 36 characters. Minimum: 36 Maximum: 36
log_paths	Yes	Array of strings	List of log collection paths. Minimum length: 0 characters. Maximum length: 20 characters. Minimum: 0 Maximum: 20

Response Parameters

Status code: 200

Table 4-128 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.
result	String	The return result is empty.

Status code: 400

Table 4-129 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 401

Table 4-130 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 500

Table 4-131 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 503

Table 4-132 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Example Requests

```
POST https://{endpoint}/v2/${project_id}/log-paths
{
  "agent_config_infos" : [ {
    "agent_id" : "c44fd66b-4bf5-4424-8c13-a2bfc927f51d",
    "log_paths" : [ "/log/trace.log", "/var/ICAagent" ]
  } ]
}
```

Example Responses

Status code: 200

The request is successful. The log collection path is configured.

```
{
  "errorCode" : "SVCSTG.ALS.200.200",
  "errorMessage" : "ES INSERT SUCCESSFULLY.",
  "result" : null
}
```

Status code: 401

The authentication information is incorrect or invalid.

```
{
  "errorCode": "SVCSTG.ALS.403.105",
  "errorMessage": "Project id is invalid."
}
```

Status Codes

Status Code	Description
200	The request is successful. The log collection path is configured.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg before a retry.
401	The authentication information is incorrect or invalid.
500	Internal server error.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See [Error Codes](#).

4.5.2 Querying the Log Collection Path

Function

This API is used to query the log collection path of a specified ICAgent. This API applies only to the query of log collection paths on the **Log > Path Configuration** page of the Application Operations Management (AOM) console.

URI

GET /v2/{project_id}/log-paths

Table 4-133 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Minimum: 32 Maximum: 32

Table 4-134 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	<p>The ICAgent of which the log collection paths you want to query. When querying the paths of multiple ICAgents, separate the ICAgent IDs with commas (,).</p> <p>Default value: Obtain the log collection paths of all ICAgents.</p> <p>Minimum length: 0 characters.</p> <p>Maximum length: 35,999 characters.</p> <p>Minimum: 0</p> <p>Maximum: 35999</p>

Request Parameters

Table 4-135 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	<p>User token obtained from IAM.</p> <p>Default value: None.</p> <p>Minimum length: 1000 characters.</p> <p>Maximum length: 2000 characters.</p> <p>Minimum: 1000</p> <p>Maximum: 2000</p>
Content-Type	Yes	String	<p>Set this parameter to application/json;charset=utf8.</p> <p>Default value: None.</p> <p>Minimum length: 29 characters.</p> <p>Maximum length: 29 characters.</p> <p>Minimum: 29</p> <p>Maximum: 29</p>

Response Parameters

Status code: 200

Table 4-136 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.
result	Array of AgentConflInfo objects	ICAgent collection path information array.

Table 4-137 AgentConflInfo

Parameter	Type	Description
agent_id	String	The unique ID of ICAgent. Minimum length: 36 characters. Maximum length: 36 characters. Minimum: 36 Maximum: 36
log_paths	Array of strings	List of log collection paths. Minimum length: 0 characters. Maximum length: 20 characters. Minimum: 0 Maximum: 20

Status code: 400

Table 4-138 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 401

Table 4-139 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 500

Table 4-140 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 503

Table 4-141 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Example Requests

```
GET https://{endpoint}/v2/${project_id}/log-paths?id=86072d0f-1580-4bbe-a467-66cf61767f80,79e86731-b22b-4207-ae1b-8de882ea3711
```

Example Responses

Status code: 200

The request is successful. Log collection paths obtained.

```
{
  "errorCode": "SVCSTG.ALS.200.200",
  "errorMessage": "Query agent info success."
  "result": [
    {
      "agent_id": "c44fd66b-4bf5-4424-8c13-a2bfc927f51c",
      "log_paths": [
        "/log/trace.log"
      ]
    },
    {
      "agent_id": "c44fd66b-4bf5-4424-8c13-a2bfc927f51d",
      "log_paths": [
        "/log/trace.log"
      ]
    }
  ]
}
```

```
}
]
```

Status code: 401

The authentication information is incorrect or invalid.

```
{
  "errorCode" : "SVCSTG.ALS.403.105",
  "errorMessage" : "Project id is invalid."
}
```

Status Codes

Status Code	Description
200	The request is successful. Log collection paths obtained.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg before a retry.
401	The authentication information is incorrect or invalid.
500	Internal server error.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See [Error Codes](#).

4.6 Log Ingestion (Old 2.0)

4.6.1 Configuring Log Collection Paths

Function

This API is used to configure the log collection paths of a specified ICAgent. This API applies only to configurations of log collection paths on the **Log > Path Configuration** page of the Application Operations Management (AOM) console.

URI

POST /v3/{project_id}/log-paths

Table 4-142 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Minimum: 32 Maximum: 32

Request Parameters

Table 4-143 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=utf8 . Minimum: 29 Maximum: 29

Table 4-144 Request body parameters

Parameter	Mandatory	Type	Description
agent_config_infos	Yes	Array of AgentConfInfo1 objects	ICAgent collection path configuration array.

Table 4-145 AgentConfInfo1

Parameter	Mandatory	Type	Description
agent_id	Yes	String	The unique ID of ICAgent.
log_paths	Yes	Array of strings	Log collection paths.

Response Parameters

Status code: 400

Table 4-146 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 401

Table 4-147 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 500

Table 4-148 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 503

Table 4-149 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Example Requests

```
POST https://{endpoint}/v3/${project_id}/log-paths
{
  "agent_config_infos" : [ {
    "agent_id" : "c44fd66b-4bf5-4424-8c13-a2bfc927f51d",
```

```
"log_paths" : [ "/log/root.log", "/var/ICAgent" ]
} ]
}
```

Example Responses

Status code: 401

The authentication information is incorrect or invalid.

```
{
  "errorCode": "SVCSTG.ALS.403.105",
  "errorMessage": "Project id is invalid."
}
```

Status Codes

Status Code	Description
200	The request is successful. The log collection path is configured.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg before a retry.
401	The authentication information is incorrect or invalid.
500	Internal server error.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See [Error Codes](#).

4.6.2 Querying the Log Collection Path

Function

This API is used to query the log collection path of a specified ICAGENT. This API applies only to the query of log collection paths on the **Log > Path Configuration** page of the Application Operations Management (AOM) console.

URI

GET /v3/{project_id}/log-paths

Table 4-150 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID. Minimum: 32 Maximum: 32

Table 4-151 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	The ICAgent of which the log collection paths you want to query. When querying the paths of multiple ICAgents, separate the ICAgent IDs with commas (.). Default value: Obtain the log collection paths of all ICAgents. Minimum length: 0 characters. Maximum length: 35,999 characters. Minimum: 0 Maximum: 35999

Request Parameters

Table 4-152 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default value: None. Minimum length: 1000 characters. Minimum: 1000 Maximum: 2000

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Set this parameter to application/json;charset=utf8 . Default value: None. Minimum length: 29 characters. Minimum: 29 Maximum: 29

Response Parameters

Status code: 200

Table 4-153 Response body parameters

Parameter	Type	Description
[items]	Array of AgentConflInfo1 objects	The request is successful. Log collection paths obtained.

Table 4-154 AgentConflInfo1

Parameter	Type	Description
agent_id	String	The unique ID of ICAgent.
log_paths	Array of strings	Log collection paths.

Status code: 400

Table 4-155 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 401

Table 4-156 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 500

Table 4-157 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Status code: 503

Table 4-158 Response body parameters

Parameter	Type	Description
errorCode	String	Status code.
errorMessage	String	Description of the response for calling the API.

Example Requests

```
GET https://{endpoint}/v3/${project_id}/log-paths?id=86072d0f-1580-4bbe-a467-66cf61767f80,79e86731-b22b-4207-ae1b-8de882ea3711
```

Example Responses

Status code: 200

The request is successful. Log collection paths obtained.

```
[ {
  "agent_id" : "c44fd66b-4bf5-4424-8c13-a2bfc927f51c",
  "log_paths" : [ "/log/trace.log" ]
}, {
  "agent_id" : "c44fd66b-4bf5-4424-8c13-a2bfc927f51d",
  "log_paths" : [ "/log/trace.log" ]
} ]
```

Status code: 401

The authentication information is incorrect or invalid.

```
{
  "errorCode" : "SVCSTG.ALS.403.105",
```

```
"errorMessage" : "Project id is invalid."
}
```

Status Codes

Status Code	Description
200	The request is successful. Log collection paths obtained.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg before a retry.
401	The authentication information is incorrect or invalid.
500	Internal server error.
503	ServiceUnavailable. The requested service is unavailable.

Error Codes

See [Error Codes](#).

4.7 Log Transfer

4.7.1 Creating a Log Transfer Task

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 4-159 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	[Project]ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID . Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-160 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-161 Request body parameters

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. Minimum: 36 Maximum: 36
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. Minimum: 36 Maximum: 36 Array Length: 1 - 100
obs_bucket_name	Yes	String	Indicates the name of an OBS bucket. Minimum: 3 Maximum: 63
type	Yes	String	Set this parameter to cycle , which indicates that the log transfer is periodic. Minimum: 5 Maximum: 5

Parameter	Mandatory	Type	Description
storage_format	No	String	Whether the logs are stored in raw or JSON format. The default value is RAW . Default: RAW Minimum: 3 Maximum: 4 Enumeration values: <ul style="list-style-type: none"> • RAW • JSON
switch_on	No	Boolean	Whether log transfer is enabled. The value is true (default) or false . Default: true
prefix_name	No	String	The file name prefix of the log files transferred to an OBS bucket. Minimum: 0 Maximum: 64
dir_prefix_name	No	String	A custom path to store the log files. Minimum: 0 Maximum: 64
period	Yes	Integer	Length of the storage period of logs in an OBS bucket. The storage period is specified by the combination of the values of period and period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hour, 6 hour, and 12 hour . Minimum: 1 Maximum: 30 Enumeration values: <ul style="list-style-type: none"> • 1 • 2 • 3 • 5 • 6 • 12 • 30

Parameter	Mandatory	Type	Description
period_unit	Yes	String	Unit of the log transfer interval. Note: The combination of period and period_unit must be one of ["2min", "5min", "30min", "1hour", "3hour", "6hour", "12hour"]. Minimum: 3 Maximum: 4 Enumeration values: <ul style="list-style-type: none"> "min" "hour"

Response Parameters

Status code: 201

Table 4-162 Response body parameters

Parameter	Type	Description
log_dump_objects_id	String	Transfer task ID. Default: None Minimum: 36 Maximum: 36

Status code: 400

Table 4-163 Response body parameters

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

Status code: 403

Table 4-164 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-165 Response body parameters

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

Status code: 503

Table 4-166 Response body parameters

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

Example Requests

```
POST https://{endpoint}/v2/{project_id}/log-dump/obs

/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 OBS transfer task has been created.

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

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

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

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

Invalid unit of the log transfer interval.
{
  "error_code": "LTS.1901",
  "error_msg": "period_unit is not in the list [min, hour]"
}

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

Invalid custom path to store log files.
{
  "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. 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: 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.0202",
  "error_msg": "Failed to query lts struct log"
}
```

Status Codes

Status Code	Description
200	The request is successful. The OBS transfer task has been created.
201	The request is successful.
400	BadRequest. Invalid request. Modify the request based on the description in error_msg before a retry.
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](#).

4.7.2 Creating a Log Transfer Task (New Version)

Function

This API is used to transfer logs to OBS.

URI

POST /v2/{project_id}/transfers

Table 4-167 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID . Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-168 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-169 Request body parameters

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID. Minimum: 36 Maximum: 36
log_streams	Yes	Array of log_streams objects	Log stream list. Array Length: 1 - 1000
log_transfer_info	Yes	log_transfer_info object	Log transfer information.

Table 4-170 log_streams

Parameter	Mandatory	Type	Description
log_stream_id	Yes	String	Log stream ID. Minimum: 36 Maximum: 36
log_stream_name	No	String	Log stream name.

Table 4-171 log_transfer_info

Parameter	Mandatory	Type	Description
log_transfer_type	Yes	String	Log transfer type. You can transfer logs to OBS.
log_transfer_mode	Yes	String	Log transfer mode. cycle indicates periodic transfer. Enumeration values: <ul style="list-style-type: none">• cycle
log_storage_format	Yes	String	Log transfer format. The value can be RAW or JSON . RAW indicates the raw log format, and JSON indicates the JSON format. Both JSON and RAW are available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none">• JSON• RAW
log_transfer_status	Yes	String	Log transfer status. The value can be ENABLE , DISABLE , or EXCEPTION . ENABLE indicates that log transfer is enabled, DISABLE indicates that log transfer is disabled, and EXCEPTION indicates that log transfer is abnormal. Enumeration values: <ul style="list-style-type: none">• ENABLE• DISABLE• EXCEPTION

Parameter	Mandatory	Type	Description
log_agency_transfer	No	log_agency_transfer object	Information about delegated log transfer. This parameter is required if you transfer logs for another account.
log_transfer_detail	Yes	TransferDetail object	Log transfer details.

Table 4-172 log_agency_transfer

Parameter	Mandatory	Type	Description
agency_domain_id	Yes	String	Delegator account ID. Minimum: 1 Maximum: 128
agency_domain_name	Yes	String	Delegator account name. Minimum: 1 Maximum: 128
agency_name	Yes	String	Name of the agency created by the delegator. Minimum: 1 Maximum: 128
agency_project_id	Yes	String	Project ID of the delegator. Minimum: 32 Maximum: 32
be_agency_domain_id	Yes	String	Account ID of the delegated party (ID of the account that created the log transfer task). Minimum: 1 Maximum: 128
be_agency_project_id	Yes	String	Project ID of the delegated party (project ID of the account that created the log transfer task). Minimum: 32 Maximum: 32

Table 4-173 TransferDetail

Parameter	Mandatory	Type	Description
obs_period	Yes	Integer	<p>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 obs_period and obs_period_unit, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • 1 • 2 • 3 • 5 • 6 • 12 • 30
obs_period_unit	Yes	String	<p>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 obs_period and obs_period_unit, and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours.</p> <p>Enumeration values:</p> <ul style="list-style-type: none"> • "min" • "hour"
obs_bucket_name	Yes	String	<p>OBS log bucket name. This parameter is required when you create an OBS transfer task.</p> <p>Minimum: 3 Maximum: 63</p>

Parameter	Mandatory	Type	Description
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. Minimum: 36 Maximum: 36
obs_dir_prefix_name	No	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^(/)?([a-zA-Z0-9.-]+)/([a-zA-Z0-9.-]+)*(/)?\$</code> Minimum: 1 Maximum: 64
obs_prefix_name	No	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^[a-zA-Z0-9._]*\$</code> Minimum: 1 Maximum: 64
obs_time_zone	No	String	Time zone for an OBS transfer task. If this parameter is specified, obs_time_zone_id must also be specified.
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, obs_time_zone must also be specified.
obs_transfer_path	No	String	OBS bucket path, which is the log transfer destination. Minimum: 0 Maximum: 256
obs_encrypted_enable	No	Boolean	Whether OBS bucket encryption is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false

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

Response Parameters

Status code: 200

Table 4-174 Response body parameters

Parameter	Type	Description
log_group_id	String	Log group ID. Minimum: 36 Maximum: 36
log_group_name	String	Log group name. Minimum: 1 Maximum: 64
log_streams	Array of log_streams objects	Log stream list. Array Length: 1 - 1000
log_transfer_id	String	Log transfer task ID. Minimum: 36 Maximum: 36
log_transfer_info	log_transfer_info object	Log transfer information.

Table 4-175 log_streams

Parameter	Type	Description
log_stream_id	String	Log stream ID. Minimum: 36 Maximum: 36
log_stream_name	String	Log stream name. Minimum: 1 Maximum: 64

Table 4-176 log_transfer_info

Parameter	Type	Description
log_agency_transfer	log_agency_transfer object	Information about delegated log transfer. This parameter is returned for a delegated log transfer task.
log_create_time	Long	Time when the log transfer task was created. Minimum: 0 Maximum: 999999999999999
log_storage_format	String	Log transfer format. The value can be RAW or JSON . RAW indicates the raw log format, and JSON indicates the JSON format. Both JSON and RAW are available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • JSON • RAW
log_transfer_detail	TransferDetail object	Log transfer details.
log_transfer_mode	String	Log transfer mode. cycle indicates periodic transfer. Only cycle is available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • cycle
log_transfer_status	String	Log transfer status. ENABLE indicates that log transfer is enabled, DISABLE indicates that log transfer is disabled, and EXCEPTION indicates that log transfer is abnormal. Enumeration values: <ul style="list-style-type: none"> • ENABLE • DISABLE • EXCEPTION

Parameter	Type	Description
log_transfer_type	String	Log transfer type. You can transfer logs to OBS. Enumeration values: <ul style="list-style-type: none"> OBS

Table 4-177 log_agency_transfer

Parameter	Type	Description
agency_domain_id	String	Delegator account ID. Minimum: 1 Maximum: 128
agency_domain_name	String	Delegator account name. Minimum: 1 Maximum: 128
agency_name	String	Name of the agency created by the delegator. Minimum: 1 Maximum: 128
agency_project_id	String	Project ID of the delegator. Minimum: 32 Maximum: 32
be_agency_domain_id	String	Account ID of the delegated party (ID of the account that created the log transfer task). Minimum: 1 Maximum: 128
be_agency_project_id	String	Project ID of the delegated party (project ID of the account that created the log transfer task). Minimum: 32 Maximum: 32

Table 4-178 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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • 1 • 2 • 3 • 5 • 6 • 12 • 30
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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • "min" • "hour"
obs_bucket_name	String	OBS log bucket name. This parameter is required when you create an OBS transfer task. Minimum: 3 Maximum: 63
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. Minimum: 36 Maximum: 36

Parameter	Type	Description
obs_dir_pre_fix_name	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: $^(/)?([a-zA-Z0-9.-]+)(/[a-zA-Z0-9.-]+)?/?$$ Minimum: 1 Maximum: 64
obs_prefix_name	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: $^[a-zA-Z0-9._]*$$ Minimum: 1 Maximum: 64
obs_time_zone	String	Time zone for an OBS transfer task. If this parameter is specified, obs_time_zone_id 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, obs_time_zone must also be specified.
obs_transfer_path	String	OBS bucket path, which is the log transfer destination. Minimum: 0 Maximum: 256
obs_encrypted_enable	Boolean	Whether OBS bucket encryption is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false
tags	Array of strings	If tag delivery is enabled, this field must contain the following host information: hostIP , hostId , hostName , pathFile , and collectTime . The common fields include logStreamName , regionName , logGroupName and projectId , which are optional. The transfer tag streamTag is optional.

Status code: 400

Table 4-179 Response body parameters

Parameter	Type	Description
error_code	String	Error code.

Parameter	Type	Description
error_msg	String	Error message.

Status code: 500

Table 4-180 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8
error_msg	String	Error message. Minimum: 1 Maximum: 1000

Example Requests

The OBS transfer task has been created.

```
POST https://{endpoint}/v2/{project_id}/transfers
/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"
    }
  }
}
```

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_z004xxxx_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/XX/",
      "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"
  }
}
```

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.0010",
  "error_msg": "Internal Server Error"
}}
```

Status Codes

Status Code	Description
200	The log transfer task is created.
400	Invalid request. Modify the request based on the description in error_msg before a retry.
500	InternalServerError. The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.7.3 Deleting a Log Transfer Task

Function

This API is used to transfer logs to OBS.

URI

DELETE /v2/{project_id}/transfers

Table 4-181 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID . Default: None Minimum: 32 Maximum: 32

Table 4-182 Query Parameters

Parameter	Mandatory	Type	Description
log_transfer_id	Yes	String	Log transfer task ID. You can obtain the ID by using either of the following methods: 1. Call the API for querying a log transfer task. 2. Call the API for creating a log transfer task. 3. Call the API for deleting a log transfer task. Minimum: 36 Maximum: 36

Request Parameters

Table 4-183 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Response Parameters

Status code: 200

Table 4-184 Response body parameters

Parameter	Type	Description
log_group_id	String	Log group ID. Minimum: 36 Maximum: 36

Parameter	Type	Description
log_group_name	String	Log group name. Minimum: 1 Maximum: 64
log_streams	Array of log_streams objects	Log stream list. Array Length: 1 - 1000
log_transfer_id	String	Log transfer task ID. Minimum: 36 Maximum: 36
log_transfer_info	log_transfer_info object	Log transfer information.

Table 4-185 log_streams

Parameter	Type	Description
log_stream_id	String	Log stream ID. Minimum: 36 Maximum: 36
log_stream_name	String	Log stream name. Minimum: 1 Maximum: 64

Table 4-186 log_transfer_info

Parameter	Type	Description
log_agency_transfer	log_agency_transfer object	Information about delegated log transfer. This parameter is returned for a delegated log transfer task.
log_create_time	Long	Time when the log transfer task was created. Minimum: 0 Maximum: 9999999999999

Parameter	Type	Description
log_storage_format	String	Log transfer format. The value can be RAW or JSON . RAW indicates the raw log format, and JSON indicates the JSON format. Both JSON and RAW are available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • JSON • RAW
log_transfer_detail	TransferDetail object	Log transfer details.
log_transfer_mode	String	Log transfer mode. cycle indicates periodic transfer. Only cycle is available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • cycle
log_transfer_status	String	Log transfer status. ENABLE indicates that log transfer is enabled, DISABLE indicates that log transfer is disabled, and EXCEPTION indicates that log transfer is abnormal. Enumeration values: <ul style="list-style-type: none"> • ENABLE • DISABLE • EXCEPTION
log_transfer_type	String	Log transfer type. You can transfer logs to OBS. Enumeration values: <ul style="list-style-type: none"> • OBS

Table 4-187 log_agency_transfer

Parameter	Type	Description
agency_domain_id	String	Delegator account ID. Minimum: 1 Maximum: 128
agency_domain_name	String	Delegator account name. Minimum: 1 Maximum: 128
agency_name	String	Name of the agency created by the delegator. Minimum: 1 Maximum: 128

Parameter	Type	Description
agency_project_id	String	Project ID of the delegator. Minimum: 32 Maximum: 32
be_agency_domain_id	String	Account ID of the delegated party (ID of the account that created the log transfer task). Minimum: 1 Maximum: 128
be_agency_project_id	String	Project ID of the delegated party (project ID of the account that created the log transfer task). Minimum: 32 Maximum: 32

Table 4-188 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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • 1 • 2 • 3 • 5 • 6 • 12 • 30

Parameter	Type	Description
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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • "min" • "hour"
obs_bucket_name	String	OBS log bucket name. This parameter is required when you create an OBS transfer task. Minimum: 3 Maximum: 63
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. Minimum: 36 Maximum: 36
obs_dir_prefix_name	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^(/)?([a-zA-Z0-9.-]+)(/[a-zA-Z0-9.-]+)*(/)?\$</code> Minimum: 1 Maximum: 64
obs_prefix_name	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^[a-zA-Z0-9._-]*\$</code> Minimum: 1 Maximum: 64
obs_time_zone	String	Time zone for an OBS transfer task. If this parameter is specified, obs_time_zone_id 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, obs_time_zone must also be specified.

Parameter	Type	Description
obs_transfer_path	String	OBS bucket path, which is the log transfer destination. Minimum: 0 Maximum: 256
obs_encrypted_enable	Boolean	Whether OBS bucket encryption is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false
tags	Array of strings	If tag delivery is enabled, this field must contain the following host information: hostIP , hostId , hostName , pathFile , and collectTime . The common fields include logStreamName , regionName , logGroupName and projectId , which are optional. The transfer tag streamTag is optional.

Status code: 400

Table 4-189 Response body parameters

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

Status code: 500

Table 4-190 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": {
      //The following parameters are returned for an OBS transfer task:
      "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"
  }
}
```

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

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 error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.7.4 Updating a Log Transfer Task

Function

This API is used to update an OBS transfer task.

URI

PUT /v2/{project_id}/transfers

Table 4-191 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID . Default: None Minimum: 32 Maximum: 32

Request Parameters

Table 4-192 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Table 4-193 Request body parameters

Parameter	Mandatory	Type	Description
log_transfer_id	Yes	String	Log transfer task ID. Minimum: 36 Maximum: 36
log_transfer_info	Yes	log_transfer_info object	Log transfer information.

Table 4-194 log_transfer_info

Parameter	Mandatory	Type	Description
log_storage_format	Yes	String	Log transfer format. The value can be RAW or JSON . RAW indicates the raw log format, and JSON indicates the JSON format. Both JSON and RAW are available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • JSON • RAW

Parameter	Mandatory	Type	Description
log_transfer_status	Yes	String	Log transfer status. ENABLE indicates that log transfer is enabled, DISABLE indicates that log transfer is disabled, and EXCEPTION indicates that log transfer is abnormal. Enumeration values: <ul style="list-style-type: none"> • ENABLE • DISABLE • EXCEPTION
log_transfer_detail	Yes	TransferDetail object	Log transfer details.

Table 4-195 TransferDetail

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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • 1 • 2 • 3 • 5 • 6 • 12 • 30

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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • "min" • "hour"
obs_bucket_name	Yes	String	OBS log bucket name. This parameter is required when you create an OBS transfer task. Minimum: 3 Maximum: 63
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. Minimum: 36 Maximum: 36
obs_dir_prefix_name	No	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^(/)?([a-zA-Z0-9.-]+)/([a-zA-Z0-9.-]+)*(/)?\$</code> Minimum: 1 Maximum: 64
obs_prefix_name	No	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^[a-zA-Z0-9._-]*\$</code> Minimum: 1 Maximum: 64

Parameter	Mandatory	Type	Description
obs_time_zone	No	String	Time zone for an OBS transfer task. If this parameter is specified, obs_time_zone_id must also be specified.
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, obs_time_zone must also be specified.
obs_transfer_path	No	String	OBS bucket path, which is the log transfer destination. Minimum: 0 Maximum: 256
obs_encrypted_enable	No	Boolean	Whether OBS bucket encryption is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false
tags	No	Array of strings	If tag delivery is enabled, this field must contain the following host information: hostIP , hostId , hostName , pathFile , and collectTime . The common fields include logStreamName , regionName , logGroupName and projectId , which are optional. The transfer tag streamTag is optional.

Response Parameters

Status code: 200

Table 4-196 Response body parameters

Parameter	Type	Description
log_group_id	String	Log group ID. Minimum: 36 Maximum: 36

Parameter	Type	Description
log_group_name	String	Log group name. Minimum: 1 Maximum: 64
log_streams	Array of log_streams objects	Log stream list. Array Length: 1 - 1000
log_transfer_id	String	Log transfer task ID. Minimum: 36 Maximum: 36
log_transfer_info	log_transfer_info object	Log transfer information.

Table 4-197 log_streams

Parameter	Type	Description
log_stream_id	String	Log stream ID. Minimum: 36 Maximum: 36
log_stream_name	String	Log stream name. Minimum: 1 Maximum: 64

Table 4-198 log_transfer_info

Parameter	Type	Description
log_agency_transfer	log_agency_transfer object	Information about delegated log transfer. This parameter is returned for a delegated log transfer task.
log_create_time	Long	Time when the log transfer task was created. Minimum: 0 Maximum: 9999999999999

Parameter	Type	Description
log_storage_format	String	Log transfer format. The value can be RAW or JSON . RAW indicates the raw log format, and JSON indicates the JSON format. Both JSON and RAW are available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • JSON • RAW
log_transfer_detail	TransferDetail object	Log transfer details.
log_transfer_mode	String	Log transfer mode. cycle indicates periodic transfer. Only cycle is available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • cycle
log_transfer_status	String	Log transfer status. ENABLE indicates that log transfer is enabled, DISABLE indicates that log transfer is disabled, and EXCEPTION indicates that log transfer is abnormal. Enumeration values: <ul style="list-style-type: none"> • ENABLE • DISABLE • EXCEPTION
log_transfer_type	String	Log transfer type. You can transfer logs to OBS. Enumeration values: <ul style="list-style-type: none"> • OBS

Table 4-199 log_agency_transfer

Parameter	Type	Description
agency_domain_id	String	Delegator account ID. Minimum: 1 Maximum: 128
agency_domain_name	String	Delegator account name. Minimum: 1 Maximum: 128
agency_name	String	Name of the agency created by the delegator. Minimum: 1 Maximum: 128

Parameter	Type	Description
agency_project_id	String	Project ID of the delegator. Minimum: 32 Maximum: 32
be_agency_domain_id	String	Account ID of the delegated party (ID of the account that created the log transfer task). Minimum: 1 Maximum: 128
be_agency_project_id	String	Project ID of the delegated party (project ID of the account that created the log transfer task). Minimum: 32 Maximum: 32

Table 4-200 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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • 1 • 2 • 3 • 5 • 6 • 12 • 30

Parameter	Type	Description
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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • "min" • "hour"
obs_bucket_name	String	OBS log bucket name. This parameter is required when you create an OBS transfer task. Minimum: 3 Maximum: 63
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. Minimum: 36 Maximum: 36
obs_dir_prefix_name	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^(/)?([a-zA-Z0-9.-]+)(/[a-zA-Z0-9.-]+)*(/)?\$</code> Minimum: 1 Maximum: 64
obs_prefix_name	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^[a-zA-Z0-9._-]*\$</code> Minimum: 1 Maximum: 64
obs_time_zone	String	Time zone for an OBS transfer task. If this parameter is specified, obs_time_zone_id 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, obs_time_zone must also be specified.

Parameter	Type	Description
obs_transfer_path	String	OBS bucket path, which is the log transfer destination. Minimum: 0 Maximum: 256
obs_encrypted_enable	Boolean	Whether OBS bucket encryption is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false
tags	Array of strings	If tag delivery is enabled, this field must contain the following host information: hostIP , hostId , hostName , pathFile , and collectTime . The common fields include logStreamName , regionName , logGroupName and projectId , which are optional. The transfer tag streamTag is optional.

Status code: 400

Table 4-201 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8
error_msg	String	Error message. Minimum: 1 Maximum: 1000

Status code: 500

Table 4-202 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8

Parameter	Type	Description
error_msg	String	Error message. Minimum: 1 Maximum: 1000

Example Requests

Update an OBS transfer task.

PUT https://{endpoint}/v2/{project_id}/transfers

```
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"
    }
  }
}
```

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/XX/"
  }
}
```



```

"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"
}
}

```

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

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 error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.7.5 Querying a Log Transfer Task

Function

This API is used to query an OBS transfer task.

URI

GET /v2/{project_id}/transfers

Table 4-203 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account Tenant ID, Log Group ID, and Log Stream ID . Default: None Minimum: 32 Maximum: 32

Table 4-204 Query Parameters

Parameter	Mandatory	Type	Description
log_transfer_type	No	String	Log transfer type. You can transfer logs to OBS. Enumeration values: <ul style="list-style-type: none">• OBS
log_group_name	No	String	Log group name. Minimum: 1 Maximum: 64
log_stream_name	No	String	Log stream name. Minimum: 1 Maximum: 64
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. Minimum: 0 Maximum: 1024
limit	No	Integer	Number of records on each page. The maximum value is 100 . Minimum: 0 Maximum: 100

Request Parameters

Table 4-205 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Default: None Minimum: 1000 Maximum: 2000
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default: None Minimum: 30 Maximum: 30

Response Parameters

Status code: 200

Table 4-206 Response body parameters

Parameter	Type	Description
log_transfers	Array of CreateTransferResponseBody objects	Log transfer task information. Array Length: 0 - 10000

Table 4-207 CreateTransferResponseBody

Parameter	Type	Description
log_group_id	String	Log group ID. Minimum: 36 Maximum: 36
log_group_name	String	Log group name. Minimum: 1 Maximum: 64
log_streams	Array of log_streams objects	Log stream list. Array Length: 1 - 1000

Parameter	Type	Description
log_transfer_id	String	Log transfer task ID. Minimum: 36 Maximum: 36
log_transfer_info	log_transfer_info object	Log transfer information.

Table 4-208 log_streams

Parameter	Type	Description
log_stream_id	String	Log stream ID. Minimum: 36 Maximum: 36
log_stream_name	String	Log stream name. Minimum: 1 Maximum: 64

Table 4-209 log_transfer_info

Parameter	Type	Description
log_agency_transfer	log_agency_transfer object	Information about delegated log transfer. This parameter is returned for a delegated log transfer task.
log_create_time	Long	Time when the log transfer task was created. Minimum: 0 Maximum: 999999999999999
log_storage_format	String	Log transfer format. The value can be RAW or JSON . RAW indicates the raw log format, and JSON indicates the JSON format. Both JSON and RAW are available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • JSON • RAW
log_transfer_detail	TransferDetail object	Log transfer details.

Parameter	Type	Description
log_transfer_mode	String	Log transfer mode. cycle indicates periodic transfer. Only cycle is available for OBS transfer tasks. Enumeration values: <ul style="list-style-type: none"> • cycle
log_transfer_status	String	Log transfer status. ENABLE indicates that log transfer is enabled, DISABLE indicates that log transfer is disabled, and EXCEPTION indicates that log transfer is abnormal. Enumeration values: <ul style="list-style-type: none"> • ENABLE • DISABLE • EXCEPTION
log_transfer_type	String	Log transfer type. You can transfer logs to OBS. Enumeration values: <ul style="list-style-type: none"> • OBS

Table 4-210 log_agency_transfer

Parameter	Type	Description
agency_domain_id	String	Delegator account ID. Minimum: 1 Maximum: 128
agency_domain_name	String	Delegator account name. Minimum: 1 Maximum: 128
agency_name	String	Name of the agency created by the delegator. Minimum: 1 Maximum: 128
agency_project_id	String	Project ID of the delegator. Minimum: 32 Maximum: 32
be_agency_domain_id	String	Account ID of the delegated party (ID of the account that created the log transfer task). Minimum: 1 Maximum: 128

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). Minimum: 32 Maximum: 32

Table 4-211 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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • 1 • 2 • 3 • 5 • 6 • 12 • 30
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 obs_period and obs_period_unit , and must be set to one of the following: 2 min, 5 min, 30 min, 1 hour, 3 hours, 6 hours, and 12 hours. Enumeration values: <ul style="list-style-type: none"> • "min" • "hour"
obs_bucket_name	String	OBS log bucket name. This parameter is required when you create an OBS transfer task. Minimum: 3 Maximum: 63

Parameter	Type	Description
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. Minimum: 36 Maximum: 36
obs_dir_pre_fix_name	String	Custom transfer path of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^(/)?([a-zA-Z0-9.-]+)/(/[a-zA-Z0-9.-]+)*(/)?\$</code> Minimum: 1 Maximum: 64
obs_prefix_name	String	Transfer file prefix of an OBS transfer task. This parameter is optional. The value must match the regular expression: <code>^[a-zA-Z0-9._]*\$</code> Minimum: 1 Maximum: 64
obs_time_zone	String	Time zone for an OBS transfer task. If this parameter is specified, obs_time_zone_id 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, obs_time_zone must also be specified.
obs_transfer_path	String	OBS bucket path, which is the log transfer destination. Minimum: 0 Maximum: 256
obs_encrypted_enable	Boolean	Whether OBS bucket encryption is enabled. Enumeration values: <ul style="list-style-type: none"> • true • false
tags	Array of strings	If tag delivery is enabled, this field must contain the following host information: hostIP , hostId , hostName , pathFile , and collectTime . The common fields include logStreamName , regionName , logGroupName and projectId , which are optional. The transfer tag streamTag is optional.

Status code: 400

Table 4-212 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8
error_msg	String	Error message. Minimum: 1 Maximum: 1000

Status code: 500

Table 4-213 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 8
error_msg	String	Error message. Minimum: 1 Maximum: 1000

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-testRxxx /v2/
{project_id}/transfers?log_group_name=lbs-group-txxx&log_transfer_type=OBS /v2/{project_id}/transfers?
log_group_name=lbs-group-txxx&log_stream_name=lbs-topic-testRxxx /v2/{project_id}/transfers?
log_transfer_type=OBS&log_stream_name=lbs-topic-testRxxx /v2/{project_id}/transfers?log_group_name=lbs-
group-txxx&log_transfer_type=OBS&log_stream_name=lbs-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": "lbs-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"
  },
  "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.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	The query is successful.
400	Invalid request. Modify the request based on the description in error_msg before a retry.

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

Error Codes

See [Error Codes](#).

4.8 Resource Statistics

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

Function

Collect traffic statistics on top N log groups or log streams.

URI

POST /v2/{project_id}/lts/topn-traffic-statistics

Table 4-214 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Minimum length: 1 character. Maximum length: 64 characters.

Request Parameters

Table 4-215 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token obtained from IAM. Minimum length: 1000 characters. Maximum length: 2000 characters.
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Minimum length: 30 characters. Maximum length: 30 characters.

Table 4-216 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 (true or false).
resource_type	Yes	String	Resource type: The value is log_group / log_stream / tenant.
sort_by	Yes	String	Sorting criteria: index , write , or storage . The value must exist in search_list .
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.

Parameter	Mandatory	Type	Description
filter	Yes	Map<String,String>	Filter criteria { "log_group_id": "xxxxxx" }Filter is in the map structure. The key is the filtering attribute, and the value is the attribute value. Fuzzy match is not supported.
search_list	Yes	Array of strings	Query data type. Multiple string arrays can be used together. This parameter can be set only to index , write , or storage .

Response Parameters

Status code: 200

Table 4-217 Response body parameters

Parameter	Type	Description
results	Array of ResultsTopnBody objects	Response result.

Table 4-218 ResultsTopnBody

Parameter	Type	Description
index_traffic	Double	Index traffic, in bytes. This parameter is returned when the queried data type contains index .
storage	Double	Storage capacity, in bytes. This parameter is returned when the queried data type contains storage .
write_traffic	Double	Write traffic, in bytes. This parameter is returned when the queried data type contains write .
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.

Parameter	Type	Description
log_stream_name	String	Log stream name. This parameter is returned when the resource type is log stream.

Status code: 400

Table 4-219 Response body parameters

Parameter	Type	Description
errorCode	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
errorMessage	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Status code: 500

Table 4-220 Response body parameters

Parameter	Type	Description
errorCode	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
errorMessage	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Example Requests

```
/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" : "cldb-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" : "a14dacb0-5a13-43a8-89a3-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 error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.8.2 Querying Resources by Time Segment

Function

Query resources by time segment.

URI

POST /v2/{project_id}/lts/timeline-traffic-statistics

Table 4-221 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Default value: None. Minimum length: 32 characters. Maximum length: 32 characters.

Table 4-222 Query Parameters

Parameter	Mandatory	Type	Description
timezone	Yes	String	The time zone.

Request Parameters

Table 4-223 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 Obtaining a User Token. Default value: None. Minimum length: 1000 characters. Maximum length: 2000 characters.
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default value: None. Minimum length: 30 characters. Maximum length: 30 characters.

Table 4-224 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	String	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	No	String	The traffic type can be write , index , or storage .

Parameter	Mandatory	Type	Description
resource_id	No	String	Resource ID. If the resource type is log_group , the value of resource_id is the log group ID. If the resource type is log_stream , the value of resource_id is the log stream ID.

Response Parameters

Status code: 200

Table 4-225 Response body parameters

Parameter	Type	Description
results	Array of Resultits objects	Response result.

Table 4-226 Resultits

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

Status code: 400

Table 4-227 Response body parameters

Parameter	Type	Description
errorCode	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
errorMessage	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Status code: 500

Table 4-228 Response body parameters

Parameter	Type	Description
errorCode	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
errorMessage	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Example Requests

```
v2/2a473356cca5487f8373be891bffc1cf/lts/timeline-traffic-statistics
{
  "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 error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.9 Tag Management

4.9.1 Adding a Tag

Function

Add a tag.

URI

POST /v1/{project_id}/{resource_type}/{resource_id}/tags/action

Table 4-229 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Minimum length: 1 character. Maximum length: 64 characters.
resource_type	Yes	String	Resource type.
resource_id	Yes	String	Resource ID.

Request Parameters

Table 4-230 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 Obtaining a User Token. Minimum length: 1 character. Maximum length: 10,000 characters.
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Minimum length: 30 characters. Maximum length: 30 characters.

Table 4-231 Request body parameters

Parameter	Mandatory	Type	Description
action	Yes	String	Method of adding tags.
is_open	No	Boolean	Whether to invoke external APIs.
tags	Yes	Array of tagsBody objects	Tag field information.

Table 4-232 tagsBody

Parameter	Mandatory	Type	Description
key	No	String	Tag key.
value	No	String	Tag value.

Response Parameters

Status code: 400

Table 4-233 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 36
error_msg	String	Error description. Minimum: 2 Maximum: 512

Status code: 500

Table 4-234 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum: 8 Maximum: 36
error_msg	String	Error description. Minimum: 2 Maximum: 512

Example Requests

```
/v1/2a473356cca5487f8373be891bffc1cf/groups/0933a172-379e-44d0-9ed9-f491b1c528ea/tags/action
{
  "action": "create",
  "is_open": false,
  "tags": [ {
    "key": "zzz",
    "value": "zzz"
  }, {
    "key": "sgq",
    "value": "123"
  } ]
}
```

Example Responses

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
201	The tag is added.
400	Invalid request. Modify the request based on the description in error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.10 Quick Search

4.10.1 Querying Historical SQL Statements

Function

Query historical SQL statements.

URI

GET /v2/{project_id}/lts/history-sql

Table 4-235 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Minimum length: 1 character. Maximum length: 64 characters.

Table 4-236 Query Parameters

Parameter	Mandatory	Type	Description
log_group_id	Yes	String	Log group ID.
log_stream_id	Yes	String	Log stream ID.

Request Parameters

Table 4-237 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token obtained from IAM. For details about how to obtain a user token, see Obtaining a User Token. Minimum length: 1 character. Maximum length: 10,000 characters.
Content-Type	No	String	Set this parameter to application/json;charset=UTF-8 . Minimum length: 30 characters. Maximum length: 30 characters.

Response Parameters

Status code: 200

Table 4-238 Response body parameters

Parameter	Type	Description
results	Array of QuertHistory SQLResultsB ody objects	Return the result.

Table 4-239 QuertHistorySQLResultsBody

Parameter	Type	Description
last_use_time	Long	Last modification time. The value is a timestamp, in milliseconds.
sql_statement	String	Historical SQL statements.

Status code: 400

Table 4-240 Response body parameters

Parameter	Type	Description
message	ErrorMessage body object	Error message body.

Table 4-241 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Status code: 500

Table 4-242 Response body parameters

Parameter	Type	Description
message	ErrorMessage body object	Error message body.

Table 4-243 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Example Requests

```
/v2/2a473356cca5487f8373be891bffc1cf/lts/history-sql?log_group_id=d1f4240d-5ee2-4e0b-9e2c-e25c7978c001&log_stream_id=f3d853be-0576-4dff-ae9-c093e4924b63
```

Example Responses

Status code: 200

Query SQL statements succeeded.

```
{
  "results": [ {
    "last_use_time": 1669689650936,
    "sql_statement": "SELECT *"
  }, {
    "last_use_time": 1666775421613,
    "sql_statement": "select count(\"t\") as pv"
  }, {
    "last_use_time": 1666661494805,
    "sql_statement": "SELECT count(\"time\")"
  }, {
    "last_use_time": 1666598233252,
    "sql_statement": "SELECT count(\"t\") as pv"
  }, {
    "last_use_time": 1666598226763,
    "sql_statement": "SELECT count(\"t\") "
  }, {
    "last_use_time": 1666598222298,
    "sql_statement": "SELECT count(\"t\") as pv"
  }, {
    "last_use_time": 1666598221585,
    "sql_statement": "SELECT count(\"t\") as p"
  }, {
    "last_use_time": 1666598220276,
    "sql_statement": "SELECT count(\"t\") as "
  }, {
    "last_use_time": 1666598212453,
    "sql_statement": "SELECT count(\"t\")"
  }
]
```

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
200	Query SQL statements succeeded.
400	Invalid request. Modify the request based on the description in error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.10.2 Adding a Quick Search

Function

Add a quick search.

URI

POST /v1.0/{project_id}/groups/{group_id}/topics/{topic_id}/search-criterias

Table 4-244 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Minimum length: 1 character. Maximum length: 64 characters.
group_id	Yes	String	ID of the log group whose log streams will be queried. Default value: None. Minimum length: 36 characters. Maximum length: 36 characters.
topic_id	Yes	String	Log stream ID.

Request Parameters

Table 4-245 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 Obtaining a User Token. Default value: None. Minimum length: 1000 characters. Maximum length: 2000 characters.
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default value: None. Minimum length: 30 characters. Maximum length: 30 characters.

Table 4-246 Request body parameters

Parameter	Mandatory	Type	Description
criteria	Yes	String	Quick search of a field.
name	Yes	String	Create a quick search name.
search_type	No	String	Search type. Raw log: ORIGINALLOG Visual log: VISUALIZATION

Response Parameters

Status code: 201

Table 4-247 Response body parameters

Parameter	Type	Description
id	String	Quick search ID.

Status code: 400

Table 4-248 Response body parameters

Parameter	Type	Description
message	ErrorMessage body object	Error message body.

Table 4-249 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Status code: 500

Table 4-250 Response body parameters

Parameter	Type	Description
message	ErrorMessage body object	Error message body.

Table 4-251 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Example Requests

```

/v1.0/2a473356cca5487f8373be891bffc1cf/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/topics/2b899d46-218c-4f0c-8ace-a36a290a83a0/search-criterias
{
  "name" : "Creating a Number",
  "criteria" : "content : 1234567891234567891234567891234567891234567891234567891234567894",
  "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 error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.10.3 Obtaining a Quick Search

Function

Obtain quick search.

URI

GET /v1.0/{project_id}/groups/{group_id}/topics/{topic_id}/search-criterias

Table 4-252 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Default value: None. Minimum length: 32 characters. Maximum length: 32 characters.
group_id	Yes	String	ID of the log group whose log streams will be queried. Default value: None. Minimum length: 36 characters. Maximum length: 36 characters.
topic_id	Yes	String	Log stream ID.

Table 4-253 Query Parameters

Parameter	Mandatory	Type	Description
search_type	Yes	String	Raw logs: ORIGINALLOG Visualized logs: VISUALIZATION

Request Parameters

Table 4-254 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 Obtaining a User Token. Default value: None. Minimum length: 1000 characters. Maximum length: 2000 characters.
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default value: None. Minimum length: 30 characters. Maximum length: 30 characters.

Response Parameters

Status code: 200

Table 4-255 Response body parameters

Parameter	Type	Description
search_criteria	Array of GetQuerySearchCriteriaBody objects	Return the result.

Table 4-256 GetQuerySearchCriteriaBody

Parameter	Type	Description
criteria	String	Quick search of a field.
name	String	Quick search of a name.
id	String	Quick search ID.

Parameter	Type	Description
search_type	String	Quick search type. Raw log: ORIGINALLOG Visual log: VISUALIZATION

Status code: 400

Table 4-257 Response body parameters

Parameter	Type	Description
message	ErrorMessage body object	Error message body.

Table 4-258 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Status code: 500

Table 4-259 Response body parameters

Parameter	Type	Description
message	ErrorMessage body object	Error message body.

Table 4-260 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Example Requests

```
/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 error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.10.4 Deleting Quick Search Criteria

Function

Delete quick search criteria.

URI

DELETE /v1.0/{project_id}/groups/{group_id}/topics/{topic_id}/search-criterias

Table 4-261 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Default value: None. Minimum length: 32 characters. Maximum length: 32 characters.
group_id	Yes	String	ID of the log group whose log streams will be queried. Default value: None. Minimum length: 36 characters. Maximum length: 36 characters.
topic_id	Yes	String	Log stream ID.

Request Parameters

Table 4-262 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 Obtaining a User Token. Default value: None. Minimum length: 1000 characters. Maximum length: 2000 characters.
Content-Type	Yes	String	Set this parameter to application/json;charset=UTF-8 . Default value: None. Minimum length: 30 characters. Maximum length: 30 characters.

Table 4-263 Request body parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Quick search ID.

Response Parameters

Status code: 400

Table 4-264 Response body parameters

Parameter	Type	Description
message	ErrorMessage body object	Error message body.

Table 4-265 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Status code: 500

Table 4-266 Response body parameters

Parameter	Type	Description
message	ErrorMessagebody object	Error message body.

Table 4-267 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Example Requests

```
/v1.0/2a473356cca5487f8373be891bffc1cf/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/topics/2b899d46-218c-4f0c-8ace-a36a290a83a0/search-criterias
{
  "id": "345d2276-1ae8-4495-a6ee-bf77c2e5ffb9",
  "Id": "0"
}
```

Example Responses

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 error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

4.10.5 Querying All Quick Searches in a Log Group

Function

Query all quick searches in a log group.

URI

GET /v1.0/{project_id}/lts/groups/{group_id}/search-criterias

Table 4-268 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain a project ID, see Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID. Default value: None. Minimum length: 32 characters. Maximum length: 32 characters.

Parameter	Mandatory	Type	Description
group_id	Yes	String	ID of the log group whose log streams will be queried. Default value: None. Minimum length: 36 characters. Maximum length: 36 characters.

Request Parameters

Table 4-269 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	User token obtained from IAM. For details about how to obtain a user token, see Obtaining a User Token. Default value: None. Minimum length: 1000 characters. Maximum length: 2000 characters.
Content-Type	No	String	Set this parameter to application/json;charset=UTF-8 . Default value: None. Minimum length: 30 characters. Maximum length: 30 characters.

Response Parameters

Status code: 200

Table 4-270 Response body parameters

Parameter	Type	Description
search_criteria	Array of search_criteria objects	Quick Search

Table 4-271 search_criteriaBody

Parameter	Type	Description
criteria	Array of GetQuerySearchCriteriaBody objects	Quick search of a single log stream.
log_stream_id	String	Log stream ID.
log_stream_name	String	Log stream name.

Table 4-272 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. Raw log: ORIGINALLOG Visual log: VISUALIZATION

Status code: 400

Table 4-273 Response body parameters

Parameter	Type	Description
message	ErrorMessage object	Error message body.

Table 4-274 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Status code: 500

Table 4-275 Response body parameters

Parameter	Type	Description
message	ErrorMessagebody object	Error message body.

Table 4-276 ErrorMessagebody

Parameter	Type	Description
code	String	Error code. Minimum length: 8 characters. Maximum length: 36 characters.
details	String	Error description. Minimum length: 2 characters. Maximum length: 512 characters.

Example Requests

```
/v1.0/2a473356cca5487f8373be891bffc1cf/lts/groups/d1f4240d-5ee2-4e0b-9e2c-e25c7978c001/search-criterias
```

Example Responses

Status code: 200

Query succeeded.

```
{
  "search_criterias" : [ {
    "criterias" : [ ],
    "log_stream_id" : "c0e668bd-32eb-428d-8d9b-8ff9e17b054e",
    "log_stream_name" : "lts-topic-lqd API cs"
  }, {
    "criterias" : [ ],
    "log_stream_id" : "e142ef8e-0702-4a6f-abb0-172e0eaf8f36",
    "log_stream_name" : "lts-urltwo URL"
  }, {
    "criterias" : [ ],
    "log_stream_id" : "99e2b128-1771-4678-83c0-0d14410ffc1",
    "log_stream_name" : "lts-lts01-delegated ingestion"
  }, {

```



```
"criterias" : [ ],
"log_stream_id" : "d2a3ed40-8dba-4538-9522-6e6455101787",
"log_stream_name" : "lts-split-scheduled SQL test"
}, {
  "criterias" : [ ],
  "log_stream_id" : "774cee72-fc25-4e2d-a2f2-d0379c8605a4",
  "log_stream_name" : "lts-topic-lqdSQLtest"
}, {
  "criterias" : [ ],
  "log_stream_id" : "2413e15a-1fa9-47a6-ac50-8be75ca569e6",
  "log_stream_name" : "lts-topic-lqd600"
}, {
  "criterias" : [ ],
  "log_stream_id" : "6595c251-18ef-4f97-a5c4-29877eaf8dc3",
  "log_stream_name" : "lts-topic-JSON"
}, {
  "criterias" : [ ],
  "log_stream_id" : "eaeb0d3d-89bb-47e4-b6b6-e01bd41af2e0",
  "log_stream_name" : "lts-TEST-A3"
}, {
  "criterias" : [ ],
  "log_stream_id" : "1bc454cd-e352-4939-a7a5-f515eee0af85",
  "log_stream_name" : "lts-duo-numberone"
}, {
  "criterias" : [ ],
  "log_stream_id" : "2b899d46-218c-4f0c-8ace-a36a290a83a0",
  "log_stream_name" : "lts-test64 structuring"
}, {
  "criterias" : [ ],
  "log_stream_id" : "6b78cb81-9199-4463-8445-611dbd088e72",
  "log_stream_name" : "lts-urlip port"
}, {
  "criterias" : [ {
    "criteria" : "content : this",
    "name" : "testCreate",
    "id" : "6be3877c-66d0-4189-b05c-25704a3213b7",
    "search_type" : "ORIGINALLOG"
  } ],
  "log_stream_id" : "f3d853be-0576-4dff-ae9-c093e4924b63",
  "log_stream_name" : "lts-topic-lqdjiegou"
}, {
  "criterias" : [ ],
  "log_stream_id" : "60906859-e91e-4d4a-9a21-ae319f544567",
  "log_stream_name" : "lts-lqd-Nginxshili"
}
}]
}
```

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	Query succeeded.
400	Invalid request. Modify the request based on the description in error_msg before a retry.
500	The server has received the request but encountered an internal error.

Error Codes

See [Error Codes](#).

5 Permissions and Supported Actions

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

New IAM users do not have any permissions assigned by default. You need to first add them to one or more groups and attach policies or roles to these groups. The users then inherit permissions from the groups and can perform specified operations on LTS based on the permissions they have been assigned.

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

NOTE

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

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

Supported Actions

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

- Permissions: statements in a policy that allow or deny certain operations.
- APIs: REST APIs that can be called by a user who has been granted specific permissions.
- Actions: specific operations that are allowed or denied in a custom policy.

- Dependencies: actions which a specific action depends on. When allowing an action for a user, you also need to allow any existing action dependencies for that user.
- IAM projects: the authorization scope of a custom policy.

 **NOTE**

The check mark (√) and cross symbol (x) respectively indicate that a permission can be or cannot be granted for the corresponding type of projects.

Permission	API	Action	Dependencies	IAM Project
Creating a log group	POST /v2/{project_id}/groups	lts:groups:create	-	√
Querying all log groups of an account	GET /v2/{project_id}/groups	lts:groups:list	-	√
Deleting a log group	DELETE /v2/{project_id}/groups/{log_group_id}	lts:groups:delete	-	√
Creating a log stream	POST /v2/{project_id}/groups/{log_group_id}/streams	lts:topics:create	-	√
Querying all log streams in a specified log group	GET /v2/{project_id}/groups/{log_group_id}/streams	lts:topics:list	-	√
Deleting a log stream	DELETE /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}	lts:topics:delete	-	√
Querying logs	POST /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query	lts:logs:list	-	√

Permission	API	Action	Dependencies	IAM Project
Transferring logs to OBS	POST /v2/{project_id}/log-dump/obs	lts:transfers:create	obs:bucket:CreateBucket obs:bucket:HeadBucket obs:bucket:GetLifecycleConfiguration obs:bucket:PutLifecycleConfiguration obs:bucket:GetBucketAcl obs:bucket:PutBucketAcl	√

6 Appendix

6.1 Status Codes

[Table 6-1](#) lists the status codes.

Table 6-1 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.

6.2 Error Codes

Introduction

This section explains the meanings of error codes returned by LTS APIs.

Response Format

```
{
  "error_msg":"Current user is not authenticated correctly, check your token.",
  "error_code":"LTS.0002"
}
```

Error Code Description

Table 6-2 Error codes

Stat us Code	Error Code	Error Message	Description	Solution
400	LTS.0007	The request body format must be json	The request body is not in JSON format.	Modify the request body to the JSON format and try again.
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.	Contact the administrator.
400	LTS.0101	Failed to create log group, the group name has been existed	Failed to create the log group because a log group with the same name already exists.	Check the log group name.

Stat us Code	Error Code	Error Message	Description	Solution
400	LTS.0104	Failed to create log group, the number of log groups exceeds the quota	Failed to create the log group because the maximum number of log groups allowed has been reached.	Check whether the number of log groups has reached the quota (100 by default).
400	LTS.0105	Log group is associated by transfer	Failed to delete the log group because the log group has been associated with log transfer tasks.	Delete the associated log transfer tasks first.
400	LTS.0106	The log group TTL day must be 7	The log retention duration is seven days by default.	Ensure that the log retention duration is seven days.
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.0205	The log stream name has been existed	Failed to create the log stream because a log stream with the same name already exists.	Check the log stream name.
400	LTS.0206	Failed to create log stream, the number of Log streams exceeds the quota	Failed to create the log stream because the maximum number of log streams allowed has been reached.	Check whether the number of log streams in the log group has reached the quota (100 by default).
400	LTS.0207	Log stream is associated by transfer	Failed to delete the log stream because the log stream has been associated with log transfer tasks.	Check whether the log stream is associated with a log transfer task. A log stream associated with a log transfer task cannot be deleted.

Stat us Code	Error Code	Error Message	Description	Solution
400	LTS.0208	The log stream does not exist	The log stream does not exist.	Check whether the log stream to be deleted exists.
400	LTS.0416	obs bucket does not exist	The OBS bucket does not exist.	Create an OBS bucket first.
400	LTS.0701	end_time must be superior to start_time, and line_num must be between them if it's provided	The values of time parameters must meet the following requirements: start_time < line_num < end_time	Modify the parameter values to meet the requirements.
400	LTS.1901	field is not in the list	A parameter is not in the specified list.	Modify the parameter based on the description in error_msg .
400	LTS.1902	name is invalid	A parameter is invalid.	Modify the parameter based on the description in error_msg .
400	LTS.1903	limit must be between lower boundary and upper boundary	The value of limit is not in the range allowed.	Set limit to a value ranging from 1 to 5000.
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.
401	LTS.0001	Invalid projectId	Invalid project ID.	Ensure that the project ID in the URI is the same as that in the token.
401	LTS.0023	Current user is suspended or restricted or unverified.	Your account has not completed the real-name authentication, or has been frozen or restricted.	Ensure that your account has completed the real-name authentication, and is not in arrears or frozen.

Stat us Code	Error Code	Error Message	Description	Solution
401	LTS.0003	Incorrect IAM authentication information: decrypt token fail	Invalid token.	Obtain a token again.
403	LTS.0001	Invalid projectId	Invalid ID.	Obtain the ID again.
403	LTS.0018	Current user does not have the permission to operate obs	You do not have the permissions required to perform operations on the OBS bucket.	Obtain the permissions required and try again.
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.0010	Internal Server Error	Internal server error.	Contact the administrator.
500	LTS.0102	Failed to create log group	Failed to create the log group.	Check whether the project ID is correct and whether the log group name meets the requirements.
500	LTS.0103	Failed to delete log group	Failed to delete the log group.	Check whether the database or network connection is normal.
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.
500	LTS.0202	Failed to create log stream	Failed to create the log stream.	Check whether the project ID and group ID are correct and whether the log stream name meets the requirements.

Stat us Code	Error Code	Error Message	Description	Solution
500	LTS.0203	Failed to delete log stream	Failed to delete the log stream.	Check whether the database or network connection is normal.
500	LTS.2125	Failed to create a host group.	Failed to create a host group.	The number of host groups has reached the upper limit. Delete unnecessary ones and try again.
500	LTS.0744	The rule name can contain only letters, digits, underscores (_), hyphens (-), and periods (.).	The rule name can contain only letters, digits, underscores (_), hyphens (-), and periods (.).	Check the rule name and try again.
400	LTS.1808	Invalid host status	Invalid host status.	Check whether the host is working or whether the network connection is normal.
400	LTS.1811	Invalid host name	Invalid host name.	Confirm the host name and enter a correct one.
400	LTS.1807	Invalid host id	Invalid host ID.	Confirm the host ID and enter a correct one.
400	LTS.1813	Invalid host group type	Invalid host group type.	Confirm the host group type and enter a correct one.
400	LTS.1814	Invalid host group name	Invalid host group name.	Confirm the host group name and enter a correct one.
400	LTS.1602	Failed to create search criteria, the number of search criteria exceeds the quota	Failed to create search criteria. The search criteria exceed the quota.	Delete invalid or expired search criteria and create a new one.
400	LTS.1606	Search criteria record not existed	The search criteria record does not exist.	Check whether the search criteria are correct.

Status Code	Error Code	Error Message	Description	Solution
400	LTS.1812	Invalid host group id	Invalid host group ID.	Enter a correct host group ID.
400	LTS.1818	Invalid host group tag type	Invalid host group tag type.	Enter a correct host group tag type.

6.3 Obtaining the Account ID, Project ID, Log Group ID, and Log Stream ID

Obtaining the Account ID and Project ID

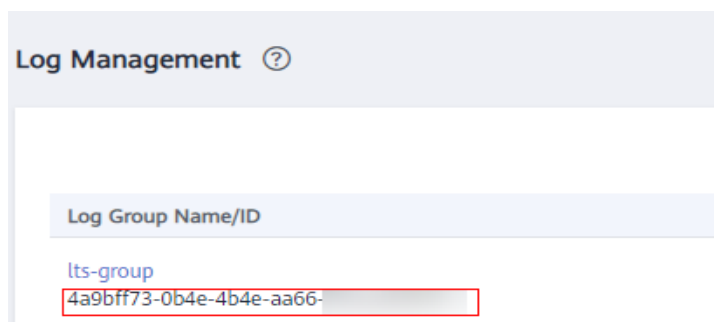
Account and project IDs are required in URLs when you call some APIs.

1. Log in to the management console.
2. Hover the mouse pointer over the username and choose **My Credentials** from the drop-down list.
3. On the **My Credentials** page, obtain the account ID and project ID.

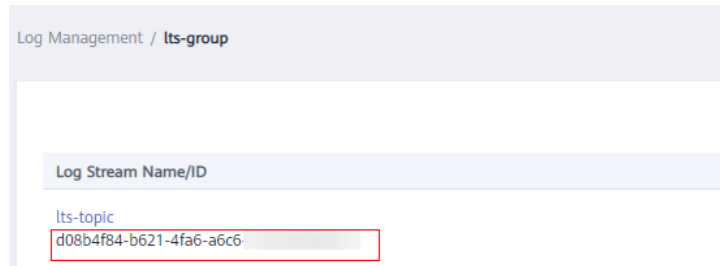
If there are multiple projects in one region, expand **Region** and obtain subproject IDs from the **Project ID** column.

Obtaining Log Group and Log Stream IDs

- Obtain the IDs from the console.
 - a. Log in to the LTS console.
 - b. On the **Log Management** page, obtain the log group ID.



- c. Click the name of a log group and obtain the log stream ID on the page displayed.



- Obtain the IDs by calling APIs.
 - [Querying All Log Groups of an Account](#)
 - [Querying All Log Streams in a Specified Log Group](#)

7 Change History

Released On	Description
2024-04-15	The issue is the first official release.