

DataArtsFabric

API Reference

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1 Before You Start

Welcome to the DataArts Fabric service. You can use the DataArts Fabric console or application programming interfaces (APIs) to implement services such as foundation model inference and Ray jobs.

This document describes how to use APIs to perform operations, such as creating and deleting inference jobs or job endpoints, on the DataArts Fabric. For more operations, see [API Overview](#).

Endpoints

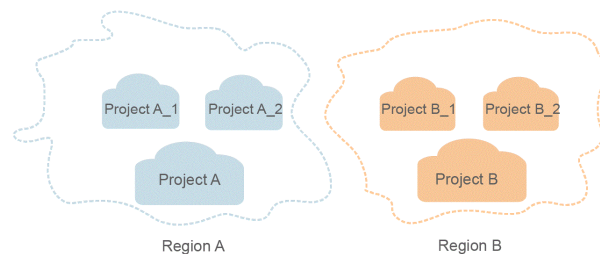
An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints of all services, see [Regions and Endpoints](#). Select the endpoint of the region based on your service requirements.

Basic Concepts

- **Account**
An account is created upon successful registration with the Huawei Cloud. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity. For security purposes, do not use the account to perform routine management. Instead, create Identity and Access Management (IAM) users for routine management.
- **User**
An IAM user is created using an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).
For details about the account ID and IAM user ID, see [My Credentials](#). They are required for API authentication.
- **Region**
Regions are divided based on geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants. For details, see [Region and AZ](#).

- **Availability Zone (AZ)**
An AZ contains one or more physical data centers. Each AZ has independent cooling, fire-extinguishing, moisture-proof, and electricity facilities. Computing, network, storage, and other resources in an AZ are logically divided into clusters. AZs within a region are interconnected using high-speed optical fibers to support cross-AZ high-availability systems.
- **Project**
Each Huawei Cloud region corresponds to a default project. These default projects isolate computing, storage, and network resources across physical regions. By default, users are granted permissions to access all resources in a default project. For more refined access control, you can create subprojects under a default project, purchase resources for the subprojects, and grant users permissions to access resources in specified subprojects. For details about how to obtain the project ID, see [My Credentials](#).

Figure 1-1 Project isolation model



- **Enterprise Project**
Enterprise projects, different from projects, are used to logically isolate resources of different projects in an enterprise. An enterprise project can contain resources from different regions, and resources can be transferred between enterprise projects.
For more information about enterprise projects, see [Enterprise Project Management Service](#).

2 API Overview

You can use basic functions of the Fabric through the APIs on the Fabric. [Table 2-1](#) lists the APIs provided by Fabric.

Table 2-1 APIs provided by Fabric

Type	Subtype	Description
Fabric-admin	Service Health Check	This API is used to perform the health check.
	User Agreement Management	This API is used to manage user agreements.
	Agency Management	This API is used to manage agencies.
	Workspace Management	This API is used to manage Workspaces.
	Service Specifications	This API is used to manage service specifications.
	Endpoint Management	This API is used to manage endpoints.
	Model Definition	This API is used to manage model definitions.
	Tag Management Service (TMS) Management	This API is used for TMS management.
	Message Management	This API is used for message management.
	Monitoring Management	This API is used for monitoring management.
	Configuration Center	This API is used to manage Fabric configurations.

Type	Subtype	Description
Fabric-ep	Listing Deployed Service Instances	This API is used to list deployed service instances.
	Checking Details About Deployed Service Instances	This API is used to check details about deployed service instances.
	Deploying a Service	This API is used to deploy a service.
	Updating a Service Instance	This API is used to update a service instance.
	Deleting a Service Instance	This API is used to delete a service instance.
	Initiating a Calling Request	This API is used to initiate a calling request.

3 Calling APIs

3.1 Making an API Request

This section describes the structure of a REST API request and introduces how to call an API. For details, see [Creating an IAM User](#).

Request URI

The format of a request URI is as follows:

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

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

- **URI-scheme:** Protocol used to transmit requests. All APIs use **HTTPS**.
- **Hostname:** Domain name or IP address of the server hosting the REST service endpoint. Obtain the value from [Regions and Endpoints](#). For example, the hostname of IAM in the CN-Hong Kong region is **iam.ap-southeast-1.myhuaweicloud.com**.
- **resource-path:** access path of an API for performing a specific operation. Obtain the value from the URI of an API. For example, the **resource-path** of the API for Creating an IAM User is **/v3.0/OS-USER/users**.
- **query-string:** Query parameter, which is optional. A query parameter must be prefixed with a question mark (?), in the format of *Parameter name=Parameter value*. For example, **? limit=10** indicates that a maximum of 10 data records will be displayed.

For example, if you want to create an IAM user, use the endpoint of any region (for example, CN-Hong Kong **iam.ap-southeast-1.myhuaweicloud.com**) because IAM is a global service. Then, find the **resource-path** (**/v3.0/OS-USER/users**) in the URI of the API for [Creating an IAM User](#). The result is as follows:

```
https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
```

 NOTE

In the URI of each API, only **resource-path** and the request method are provided. This is because the **URI-scheme** of all APIs is HTTPS and the hostnames of all APIs in the same region are identical.

Request Method

The HTTP protocol defines the following request methods that can be used to send a request to the server.

Table 3-1 Request methods

Request Method	Description
GET	Request the server to return specified resources.
PUT	Request the server to update specified resources.
POST	Request the server to add resources or perform special operations.
DELETE	Requests the server to delete a specified resource, for example, an object.
HEAD	Request the server resource header.
PATCH	Request the server to update partial content of a specified resource. If the requested resource does not exist, the server may create a resource using the PATCH method.

For example, in the URI of the API for [Creating an IAM User](#), the request method is **POST** and the request is as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
```

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, add **Content-Type** that defines a request body type to request the authentication information.

The following common headers need to be added to the request:

Table 3-2 Common headers

Field	Mandatory (Yes/No)	Description
Content-Type	Yes	Request body type (format). The default value is application/json . Other values will be provided for specific APIs.

Field	Mandatory (Yes/No)	Description
Authorization	No	Signature authentication information. When AK/SK-based authentication is used, SDK will automatically fill in this field when signing the request. For details about Access Key ID (AK)/Secret Access Key (SK)-based authentication, see AK/SK-based Authentication .
X-Sdk-Date	No	Time when a request is sent. When AK/SK-based authentication is used, SDK will automatically fill in this field when signing the request. For details about AK/SK-based authentication, see AK/SK-based Authentication .
X-Auth-Token	No	User token. This field is mandatory for token authentication. It is the response value of the API for Obtaining a User Token . This API is the only one that does not require authentication.
X-Project-ID	No	Subproject ID. This field is used in multi-project scenarios. If cloud service resources are created in a subproject, the request for calling the API to perform operations on the resources must contain the X-Project-ID header field when AK/SK-based authentication is used.
X-Domain-ID	No	Account ID. In AK/SK-based authentication, the request for calling the API of a global service must contain the X-Domain-ID header field.

The following shows a request for calling the API for [Creating an IAM User](#) when AK/SK-based authentication is used.

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****
```

Request Body

The body of a request is often sent in a structured format as specified in the **Content-Type** header. The request body transfers content except the request header. If the request body contains Chinese characters, the Chinese characters must be encoded using **UTF-8** and the encoding mode must be specified in **Content-Type**, for example, **Content-Type: application/json; charset=utf-8**.

The request body varies depending on APIs. Some APIs do not require a request body, such as the APIs requested using the GET or DELETE method.

The request body of the API for [Creating an IAM User](#) is as follows. You can find the required request parameters and parameter description in the API request. Set the parameters in bold based on the site requirements.

Table 3-3 Field description

Field	Description
accountid	Account ID of the IAM user.
username	IAM username to be created
email	Email address of the IAM user
*****	Login password of the IAM user

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****

{
  "user": {
    "domain_id": "accountid",
    "name": "username",
    "password": "*****",
    "email": "email",
    "description": "IAM User Description"
  }
}
```

Till now, the content required by an API request is ready. You can send the request to call an API through **curl**, Postman, or coding.

3.2 Authentication

You can use either of the authentication methods below to call APIs.

- AK/SK-based authentication: Requests are encrypted using an AK/SK.
- Token-based authentication: Requests are authenticated using a token.

AK/SK-based Authentication

NOTE

- AK/SK-based authentication supports only requests with a body not larger than 12 MB. For requests with a larger body, use token-based authentication.
- You can use either a permanent or temporary AK/SK. If you use a temporary AK/SK, the request must contain the **X-Security-Token** field whose value is the **security_token** of the temporary AK/SK.

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

- AK: a unique identifier used with an SK to sign requests cryptographically.

- SK: a key used with an AK to sign requests, identify a request sender, and prevent 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. For details about how to sign requests and use the signing SDK, see [AK/SK Signing and Authentication Guide](#).

NOTICE

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

Token-based Authentication

 NOTE

- A token obtained from IAM is valid for 24 hours. You can cache a token to avoid frequent API calls.
- Before using a token, ensure that the token will not expire during the API calling.

A token is a temporary credential that grants permissions. During token-based authentication, the token is added to requests to get permissions for calling an API.

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

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

After obtaining the token, add **X-Auth-Token** to the request header of each API request. The token you obtained is the value of **X-Auth-Token**. For example, if the token is **ABCDEFGH....**, add **X-Auth-Token: ABCDEFGH....** to the request header as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3.0/OS-USER/users
Content-Type: application/json
X-Auth-Token: ABCDEFGH....
```

3.3 Responses

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

Status Code

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

For example, if status code **201** is returned for calling the API used to [create an IAM user](#), the request succeeded.

Response Header

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

[Figure 3-1](#) shows the response header for the API used to [create an IAM user](#).

Figure 3-1 Response header for the API used to create an IAM user

```
"X-Frame-Options": "SAMEORIGIN",  
"X-IAM-ETag-id": "2562365939-d8f6f12921974cb097338ac11fceac8a",  
"Transfer-Encoding": "chunked",  
"Strict-Transport-Security": "max-age=31536000; includeSubdomains;",  
"Server": "api-gateway",  
"X-Request-Id": "af2953f2bcc67a42325a69a19e6c32a2",  
"X-Content-Type-Options": "nosniff",  
"Connection": "keep-alive",  
"X-Download-Options": "noopen",  
"X-XSS-Protection": "1; mode=block;",  
"X-IAM-Trace-Id": "token_ null_af2953f2bcc67a42325a69a19e6c32a2",  
"Date": "Tue, 21 May 2024 09:03:40 GMT",  
"Content-Type": "application/json; charset=utf8"
```

Response Body

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

The following is part of the response body for the API used to [create an IAM user](#).

```
{  
  "user": {  
    "id": "c131886aec...",  
    "name": "IAMUser",  
    "description": "IAM User Description",  
    "areacode": "",  
    "phone": "",  
    "email": "****@***.com",  
    "status": null,  
    "enabled": true,  
    "pwd_status": false,  
    "access_mode": "default",  
  }  
}
```

```
"is_domain_owner": false,
"xuser_id": "",
"xuser_type": "",
"password_expires_at": null,
"create_time": "2024-05-21T09:03:41.000000",
"domain_id": "d78cbac1.....",
"xdomain_id": "30086000.....",
"xdomain_type": "",
"default_project_id": null
}
}
```

If an error occurs during API calling, an error code and an error message will be returned, as shown in the following:

```
{
  "error_msg": "Request body is invalid.",
  "error_code": "IAM.0011"
}
```

In the preceding information, **error_code** is an error code, and **error_msg** indicates the error message.

4 APIs

4.1 Service Health Check

4.1.1 Performing a Health Check

Function

This API is used to check the system health status. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /healthcheck

Request Parameters

None

Response Parameters

Status code: 200

OK

Status code: 400

Table 4-1 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-2** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-3** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-4** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-5** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 503

Table 4-6 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/healthcheck
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status code: 503

ServiceUnavailable

```
{
  "error_code" : "common.00000503",
  "error_msg" : "service unavailable"
}
```

Status Codes

Status Code	Description
200	OK

Status Code	Description
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError
503	ServiceUnavailable

Error Codes

See [Error Codes](#).

4.2 User Agreement Management

4.2.1 Querying a System Agreement

Function

This API is used to query the content of a tenant agreement, allowing you to understand the agreement name, version, and other details. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/agreement-rule

Request Parameters

Table 4-7 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-8 Response body parameters

Parameter	Type	Description
agreement_rules	Array of AgreementRule objects	Definition: System agreement list. Range: [0, 1000].

Table 4-9 AgreementRule

Parameter	Type	Description
agreement_name	String	Definition: Agreement name. Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.
agreement_display_name	String	Definition: Agreement display name. Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Parameter	Type	Description
agreement_version	String	Definition: Agreement version. Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.
agreement_url	String	Definition: Agreement URL. Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Status code: 400**Table 4-10** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-11** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-12** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-13** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-14 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
/v1/agreement-rule
```

Example Responses

Status code: 200

The system agreement list is queried.

```
{
  "agreement_rules": [ {
    "agreement_name": "agreement AAA",
    "agreement_display_name": "AAA",
    "agreement_version": "v1",
```

```
{
  "agreement_url" : "https://AAA"
}, {
  "agreement_name" : "agreement BBB",
  "agreement_display_name" : "BBB",
  "agreement_version" : "v1",
  "agreement_url" : "https://BBB"
}]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	The system agreement list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.2.2 Registering a Tenant Agreement

Function

This API is used to register a tenant agreement. This API is synchronous with no accompanying APIs or specific scenarios.

URI

POST /v1/agreement

Request Parameters

Table 4-15 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-16 Request body parameters

Parameter	Mandatory	Type	Description
agreements	No	Array of TenantAgreement objects	Definition: Tenant agreement list. Constraints: [0,1000].

Table 4-17 TenantAgreement

Parameter	Mandatory	Type	Description
agreement_name	No	String	Definition: Agreement name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
agreement_version	No	String	Definition: Agreement version. Constraints: N/A. Range: 1 to 32 characters. Only letters and digits are allowed. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-18 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400

Table 4-19 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-20** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-21 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-22** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-23 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Register a tenant agreement. The agreement name is **test_name**, and the agreement version is **v1**.

```
/v1/agreement
{
  "agreements" : [ {
    "agreement_name" : "test_name",
    "agreement_version" : "v1"
  } ]
}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.2.3 Querying Whether a User Has Registered with an Agreement

Function

This API is used to query whether a user has registered with an agreement. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/agreement

Request Parameters

Table 4-24 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-25 Response body parameters

Parameter	Type	Description
agreements	Array of TenantAgreement objects	Definition: Tenant agreement list. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.

Table 4-26 TenantAgreement

Parameter	Type	Description
agreement_name	String	Definition: Agreement name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
agreement_version	String	Definition: Agreement version. Constraints: N/A. Range: 1 to 32 characters. Only letters and digits are allowed. Default Value: N/A.

Status code: 400**Table 4-27** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-28 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-29** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-30 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-31** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/agreement

Example Responses

Status code: 200

The tenant registration agreement is queried.

```
{
  "agreements" : [ {
    "agreement_name" : "test_name",
    "agreement_version" : "v1"
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{  
  "error_code" : "common.00000500",  
  "error_msg" : "internal error"  
}
```

Status Codes

Status Code	Description
200	The tenant registration agreement is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.2.4 Deleting a User Registration Agreement

Function

This API is used to delete a user registration agreement. This API is synchronous with no accompanying APIs or specific scenarios.

URI

DELETE /v1/agreement

Request Parameters

Table 4-32 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-33 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400

Table 4-34 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-35** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-36** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-37** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-38** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/v1/agreement
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
}
```

```
{  
  "error_msg": "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code": "common.00000500",  
  "error_msg": "internal error"  
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.3 Agency Management

4.3.1 Creating a Service Agency

Function

This API is used to authorize an agency to Fabric. When you call this API, an agency is created and then authorized to Fabric. You can grant access by passing in the supported agency permission policies. This API is synchronous with no accompanying APIs or specific scenarios.

URI

POST /v1/agency

Request Parameters

Table 4-39 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-40 Request body parameters

Parameter	Mandatory	Type	Description
policy_types	No	Array of strings	Definition: permission type list. To use DataArts Fabric functions, you may need to grant some permission policies by adding policy types to policy_types. Constraints: N/A. Range: • FABRIC_COMMON_POLICY : permission policy for basic common services, which is mandatory for agencies. • FABRIC_SELF_POLICY: permission policies required for accessing its own services. • FABRIC_SMN_POLICY: permission policies related to the notification function, which is used to forward system notifications to SMN. • FABRIC_LAKEFORMATION_POLICY: permission policies related to the LakeFormation function. • FABRIC_AOM_POLICY: permission policies related to the AOM function. • FABRIC_SWR_POLICY: permission policies related to the image package registration function. • FABRIC_LTS_POLICY: permission policies related to the log function. • FABRIC_VPCEP_POLICY: permission policies related to the network connection function. • FABRIC_DNS_POLICY: permission policies related to DNS.

Parameter	Mandatory	Type	Description
			FABRIC_OBS_POLICY: permission policies related to OBS. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-41 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400

Table 4-42 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-43 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-44** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-45 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-46** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Authorize the **FABRIC_LAKEFORMATION_POLICY** policy.

```
POST https://{endpoint}/v1/agency
```

```
{
```

```
{  
  "policy_types" : [ "FABRIC_LAKEFORMATION_POLICY" ]  
}
```

Example Responses

Status code: 200

OK

```
{  
  "policy_types" : [ "FABRIC_LAKEFORMATION_POLICY" ]  
}
```

Status code: 400

BadRequest

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,  
cause: TypeMismatchException"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "APIG.1002",  
  "error_msg" : "Incorrect token or token resolution failed"  
}
```

Status code: 403

Forbidden

```
{  
  "error" : {  
    "code" : "403",  
    "message" : "X-Auth-Token is invalid in the request",  
    "title" : "Forbidden"  
  },  
  "error_code" : 403,  
  "error_msg" : "X-Auth-Token is invalid in the request",  
  "title" : "Forbidden"  
}
```

Status code: 404

NotFound

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "response status exception, code: 404"  
}
```

Status code: 408

Request Time-out

```
{  
  "error_code" : "common.00000408",  
  "error_msg" : "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code" : "common.00000500",  
  "error_msg" : "internal error"  
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.3.2 Querying a Service Agency

Function

This API is used to query the agency authorized to DataArts Fabric. You can call this API to query the agency authorized to DataArts Fabric and the specific permissions within the agency. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/agency

Table 4-47 Query Parameters

Parameter	Mandatory	Type	Description
policy_type	No	String	Definition: Policy type. Constraints: Fuzzy match is supported. Range: • FABRIC_COMMON_POLICY : permission policies for basic general services, which is mandatory for agencies. • FABRIC_SELF_POLICY: permission policies required for accessing its own services. • FABRIC_SMN_POLICY: permission policies related to the notification function, which is used to forward system notifications to SMN. • FABRIC_LAKEFORMATION_POLICY: permission policies related to the LakeFormation function. • FABRIC_AOM_POLICY: permission policies related to the AOM function. • FABRIC_SWR_POLICY: permission policies related to the image package registration function. • FABRIC_LTS_POLICY: permission policies related to the log function. • FABRIC_VPCEP_POLICY: permission policies related to the network connection function. • FABRIC_DNS_POLICY: permission policies related to DNS. • FABRIC_OBS_POLICY: permission policies related to OBS. Default Value: N/A.

Request Parameters

Table 4-48 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-49 Response body parameters

Parameter	Type	Description
agency_name	String	Definition: Agency name. Constraints: N/A. Range: [1, 128]. Default Value: N/A.
authorized	Boolean	Definition: Whether an agency is authorized. If the user's service agency permissions include the agency permissions required by the system, true is returned; otherwise, false is returned. Constraints: N/A. Range: true or false . Default Value: N/A.
agency_policies	Array of AgencyPolicy objects	Definition: Agency policy list. Constraints: [1, 100].

Table 4-50 AgencyPolicy

Parameter	Type	Description
policy_type	String	Definition: permission type list. To use DataArts Fabric functions, you may need to grant some permission policies by adding policy types to policy_types. Constraints: N/A. Range: • FABRIC_COMMON_POLICY: permission policies for basic general services, which is mandatory for agencies. • FABRIC_SELF_POLICY: permission policies required for accessing its own services. • FABRIC_SMN_POLICY: permission policies related to the notification function, which is used to forward system notifications to SMN. • FABRIC_LAKEFORMATION_POLICY : permission policies related to the LakeFormation function. • FABRIC_AOM_POLICY: permission policies related to the AOM function. • FABRIC_SWR_POLICY: permission policies related to the image package registration function. • FABRIC_LTS_POLICY: permission policies related to the log function. • FABRIC_VPCEP_POLICY: permission policies related to the network connection function. • FABRIC_DNS_POLICY: permission policies related to DNS. Default Value: N/A.
is_required	Boolean	Definition: Whether agency policy properties are required. Constraints: N/A. Range: true or false. Default Value: N/A.

Parameter	Type	Description
is_enable	Boolean	Definition: Whether agency policy properties are enabled. Constraints: N/A. Range: true or false. Default Value: N/A.
actions	Array of strings	Definition: Permission list. Constraints: [0,1000].
description	String	Definition: Policy description. Constraints: N/A. Range: N/A. Default Value: N/A.

Status code: 400**Table 4-51** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-52 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-53** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-54 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-55** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/agency

Example Responses

Status code: 200

An agency is queried.

```
{
  "agency_name" : "admin_trust",
  "authorized" : true,
  "agency_policies" : [ {
    "policy_type" : "FABRIC_COMMON_POLICY",
    "is_required" : false,
    "is_enable" : true,
    "actions" : [ "lakeformation:instance:show" ],
    "description" : "You need to obtain some necessary permissions when using DataArts Fabric."
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	An agency is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error CodesSee [Error Codes](#).**4.3.3 Deleting a Service Agency****Function**

This API is used to cancel the agency authorized to DataArts Fabric. An agency includes both mandatory and non-mandatory permission policies defined by DataArts Fabric. Non-mandatory permission policies can be deleted by specifying the permission policy name. The deletion does not affect other permission policies. Mandatory permission policies cannot be deleted individually. They can only be deleted by deleting the entire agency. Before deleting certain permission policies, the system checks whether the deletion conditions are met. If not, the permission policies cannot be deleted. This prevents services from being impacted by accidental deletion of permission policies. This API is synchronous with no accompanying APIs or specific scenarios.

URI

DELETE /v1/agency

Table 4-56 Query Parameters

Parameter	Mandatory	Type	Description
policy_type	No	String	Definition: Permission policy type. Constraints: Fuzzy match is supported. Range: • FABRIC_COMMON_POLICY : permission policies related to basic general services. • FABRIC_SMN_POLICY: permission policies related to the notification function. • FABRIC_LAKEFORMATION_POLICY: permission policies related to the LakeFormation function. • FABRIC_AOM_POLICY: permission policies related to the AOM function. • FABRIC_SELF_POLICY: permission policies required for accessing its own services. • FABRIC_SWR_POLICY: permission policies required for the image package registration function. • FABRIC_LTS_POLICY: permission policies related to the log function. • FABRIC_VPCEP_POLICY: permission policies related to the network connection function. • FABRIC_DNS_POLICY: permission policies related to DNS. • FABRIC_OBS_POLICY: permission policies related to OBS. Default Value: N/A.

Request Parameters

Table 4-57 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-58 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400

Table 4-59 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-60** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-61** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-62** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-63** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/v1/agency
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
}
```

```
{  
  "error_msg" : "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code" : "common.00000500",  
  "error_msg" : "internal error"  
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.4 Workspace Management

4.4.1 Querying the Workspace List

Function

This API is used to list workspaces. You can use this API to obtain a list of workspaces that meet the filter criteria. The API supports pagination queries and queries by name, ID, and enterprise project ID. A list of workspaces that meet the filter criteria is returned. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/workspaces

Table 4-64 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
name	No	String	Definition: Workspace name. Constraints: N/A. Range: 4 to 32 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
id	No	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
enterprise_project_id	Yes	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: 1 to 36 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Range: N/A. Default Value: all_granted_eps.

Request Parameters

Table 4-65 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-66 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of workspaces. Constraints: N/A. Range: N/A. Default Value: N/A.
workspaces	Array of Workspace objects	Definition: Workspace list. Constraints: [0,1000].

Table 4-67 Workspace

Parameter	Type	Description
id	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Type	Description
name	String	Definition: Workspace name. Constraints: N/A. Range: 4 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
description	String	Definition: Description entered by a user. Constraints: N/A. Range: 0 to 255 characters. Default Value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.
create_domain_name	String	Definition: Account name. Constraints: N/A. Range: N/A. Default Value: N/A.
create_user_name	String	Definition: Username. Constraints: N/A. Range: N/A. Default Value: N/A.
metastore_id	String	Definition: Instance ID of LakeFormation, that is, MetaStore ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
access_url	String	Definition: Resource access address. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Type	Description
enterprise_project_id	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: This parameter can be set only when an enterprise project is connected. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: 0, meaning the default ID is used.
tags	Array of ResourceTag objects	Definition: Resource tag of a workspace. Constraints: N/A.

Table 4-68 ResourceTag

Parameter	Type	Description
key	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: 1 to 128 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.
value	String	Definition: Resource tag value. Constraints: N/A. Range: 0 to 255 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.

Status code: 400

Table 4-69 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-70** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-71 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-72** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-73 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/v1/workspaces
```

Example Responses

Status code: 200

The workspace list is queried.

```
{
  "total" : 2,
  "workspaces" : [ {
    "id" : "90a827a1-ca72-4be8-943b-774f94xxxxxx",
    "name" : "workspace1SqlResourceDef",
    "create_time" : "2025-01-10T03:37:12.000+00:00",
    "create_domain_name" : "create_domain_name_001",
    "create_user_name" : "create_user_name_001",
    "enterprise_project_id" : 0
  }, {
    "id" : "90a827a1-ca72-4be8-943b-774f95xxxxxx",
    "name" : "workspace2",
    "create_time" : "2025-01-11T03:37:12.000+00:00",
    "create_domain_name" : "create_domain_name_002",
    "create_user_name" : "create_user_name_002",
    "enterprise_project_id" : 0
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	The workspace list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound

Status Code	Description
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.4.2 Updating a Workspace

Function

This API is used to update a workspace. You can input the name, description, and MetaStore ID. Details about the updated workspace are returned. This API is synchronous with no accompanying APIs or specific scenarios.

URI

PUT /v1/workspaces/{workspace_id}

Table 4-74 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-75 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-76 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Workspace name. Constraints: N/A. Range: 4 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
description	No	String	Definition: Description entered by a user. Constraints: N/A. Range: 0 to 255 characters. Default Value: N/A.
metastore_id	No	String	Definition: Instance ID of LakeFormation, that is, MetaStore ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
enterprise_project_id	No	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: This parameter can be set only when an enterprise project is connected. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: 0, meaning the default ID is used.

Response Parameters

Status code: 200

Table 4-77 Response body parameters

Parameter	Type	Description
id	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
name	String	Definition: Workspace name. Constraints: N/A. Range: 4 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
description	String	Definition: Description entered by a user. Constraints: N/A. Range: 0 to 255 characters. Default Value: N/A.

Parameter	Type	Description
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.
create_domain_name	String	Definition: Account name. Constraints: N/A. Range: N/A. Default Value: N/A.
create_user_name	String	Definition: Username. Constraints: N/A. Range: N/A. Default Value: N/A.
metastore_id	String	Definition: Instance ID of LakeFormation, that is, MetaStore ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
access_url	String	Definition: Resource access address. Constraints: N/A. Range: N/A. Default Value: N/A.
enterprise_project_id	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: This parameter can be set only when an enterprise project is connected. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: 0, meaning the default ID is used.
tags	Array of ResourceTag objects	Definition: Resource tag of a workspace. Constraints: N/A.

Table 4-78 ResourceTag

Parameter	Type	Description
key	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: 1 to 128 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.
value	String	Definition: Resource tag value. Constraints: N/A. Range: 0 to 255 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.

Status code: 400**Table 4-79** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-80** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-81** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-82** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-83** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Change the workspace name to **fabric**, update the description to **fabric-description**, and change the MetaStore ID to **xxxxxx**.

```
PUT https://{endpoint}/v1/workspaces/{workspace_id}
```

```
{
  "name" : "fabric",
  "description" : "fabric-description",
  "metastore_id" : "xxxxxx"
}
```

Example Responses

Status code: 200

The workspace list is updated.

```
{
  "id" : "xxxx0ef-f4eb-4b95-aff1-9d33ae9fxxxx",
  "name" : "fabric",
  "description" : "fabric-description",
  "create_time" : "2023-05-30T12:24:30.401Z",
  "create_domain_name" : "domain_name",
  "create_user_name" : "user_name",
  "metastore_id" : "2xxx518f-42b8-4947-b20b-adfcxxx81a2x",
  "access_url" : "https://test.fabric.com/",
  "enterprise_project_id" : "01049549-82cd-4b2b-9733-ddb9435xxxxx"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error": {
    "code": "403",
    "message": "X-Auth-Token is invalid in the request",
    "title": "Forbidden"
  },
  "error_code": 403,
  "error_msg": "X-Auth-Token is invalid in the request",
  "title": "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code": "common.01000001",
  "error_msg": "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code": "common.00000408",
  "error_msg": "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code": "common.00000500",
  "error_msg": "internal error"
}
```

Status Codes

Status Code	Description
200	The workspace list is updated.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.4.3 Creating a Workspace

Function

This API is used to create a workspace. You can use this API to create a workspace. You can input the name, description, MetaStore ID, enterprise project ID, and tag. The workspace details can be returned. This API is synchronous with no accompanying APIs. This API performs duplicate name verification and does not support creating workspaces with identical names. Additionally, there is an upper limit on the number of workspaces that can be created under the same account.

URI

POST /v1/workspaces

Request Parameters

Table 4-84 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-85 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Workspace name. Constraints: N/A. Range: 4 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
description	No	String	Definition: Description entered by a user. Constraints: N/A. Range: 0 to 255 characters. Default Value: N/A.

Parameter	Mandatory	Type	Description
metastore_id	No	String	Definition: Instance ID of LakeFormation, that is, MetaStore ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
enterprise_project_id	No	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: This parameter can be set only when an enterprise project is connected. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: 0, meaning the default ID is used.
tags	No	Array of ResourceTag objects	Definition: Resource tag. Constraints: N/A.

Table 4-86 ResourceTag

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: 1 to 128 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.
value	No	String	Definition: Resource tag value. Constraints: N/A. Range: 0 to 255 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-87 Response body parameters

Parameter	Type	Description
id	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Type	Description
name	String	Definition: Workspace name. Constraints: N/A. Range: 4 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
description	String	Definition: Description entered by a user. Constraints: N/A. Range: 0 to 255 characters. Default Value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.
create_domain_name	String	Definition: Account name. Constraints: N/A. Range: N/A. Default Value: N/A.
create_user_name	String	Definition: Username. Constraints: N/A. Range: N/A. Default Value: N/A.
metastore_id	String	Definition: Instance ID of LakeFormation, that is, MetaStore ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
access_url	String	Definition: Resource access address. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Type	Description
enterprise_project_id	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: This parameter can be set only when an enterprise project is connected. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: 0, meaning the default ID is used.
tags	Array of ResourceTag objects	Definition: Resource tag of a workspace. Constraints: N/A.

Table 4-88 ResourceTag

Parameter	Type	Description
key	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: 1 to 128 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.
value	String	Definition: Resource tag value. Constraints: N/A. Range: 0 to 255 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.

Status code: 400

Table 4-89 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-90** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-91 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-92** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-93 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Create a workspace. The name is **fabric**, the description is **fabric-description**, the corresponding MetaStore ID is **xxxxxx**, the enterprise project ID is **01049549-82cd-4b2b-9733-ddb94350c125**, the tags are **key1** with value **value1**, and **key2** with value **value2**.

POST https://{endpoint}/v1/workspaces

```
{
  "name": "fabric",
  "description": "fabric-description",
  "metastore_id": "xxxxxx",
  "enterprise_project_id": "01049549-82cd-4b2b-9733-ddb94350c125",
  "tags": [ {
    "key": "key1",
    "value": "value1"
  }, {
    "key": "key2",
    "value": "value2"
  } ]
}
```

Example Responses

Status code: 200

A workspace list is created.

```
{
  "id": "90a827a1-ca72-4be8-943b-774f94xxxxxx",
  "name": "workspace1",
  "description": "workspace1-description",
  "create_time": "2025-01-10T03:37:12.000+00:00",
  "create_domain_name": "create_domain_name_001",
  "create_user_name": "create_user_name_001",
  "metastore_id": "2180518f-42b8-4947-b20b-adfc539xxxxx",
}
```

```
"access_url" : "https://test.fabric.com/",  
"enterprise_project_id" : 0  
}
```

Status code: 400

BadRequest

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,  
cause: TypeMismatchException"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "APIG.1002",  
  "error_msg" : "Incorrect token or token resolution failed"  
}
```

Status code: 403

Forbidden

```
{  
  "error" : {  
    "code" : "403",  
    "message" : "X-Auth-Token is invalid in the request",  
    "title" : "Forbidden"  
  },  
  "error_code" : 403,  
  "error_msg" : "X-Auth-Token is invalid in the request",  
  "title" : "Forbidden"  
}
```

Status code: 404

NotFound

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "response status exception, code: 404"  
}
```

Status code: 408

Request Time-out

```
{  
  "error_code" : "common.00000408",  
  "error_msg" : "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code" : "common.00000500",  
  "error_msg" : "internal error"  
}
```

Status Codes

Status Code	Description
200	A workspace list is created.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.4.4 Deleting a Workspace

Function

This API is used to delete a workspace. This API is synchronous with no accompanying APIs. If a workspace contains compute resources, endpoints, and applications, the workspace cannot be deleted. You must first clear all resources created within the workspace before deletion.

URI

DELETE /v1/workspaces/{workspace_id}

Table 4-94 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-95 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

A workspace is deleted.

Status code: 400

Table 4-96 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-97 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-98** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-99 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-100** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
DELETE https://{endpoint}/v1/workspaces/{workspace_id}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	A workspace is deleted.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.5 Service Specifications

4.5.1 Querying the Resource Specification List

Function

This API is used to list resource specifications. You can use this API to list resource specifications. You can filter resource specifications by code, type, and use case. Pagination query is supported. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/specs

Table 4-101 Query Parameters

Parameter	Mandatory	Type	Description
spec_code	No	String	Specification code.

Parameter	Mandatory	Type	Description
spec_types	No	Array of strings	Definition: Collection of resource specification types, allowing you to search for resource specifications by their type. Constraints: The specifications must be queried from the specification list. Range: [0, 100]. Default Value: N/A.
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 10000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
scenario	No	Object	Definition: Use case of specifications. Constraints: N/A. Range: • If this parameter is not specified, resource specifications can be used in any scenario. • COMPUTE: Physical node specification configured when you purchase Ray compute resources. • ENDPOINT: Resource group specification configured when you create an endpoint. Default Value: N/A.

Request Parameters

None

Response Parameters

Status code: 200

Table 4-102 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of specifications. Constraints: N/A. Range: N/A. Default Value: N/A.
spec_codes	Array of Spec objects	Definition: Specification code list. Constraints: N/A. Range: [0, 100]. Default Value: N/A.

Table 4-103 Spec

Parameter	Type	Description
spec_code	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.
spec_type	String	Definition: Resource specification type. Constraints: N/A. Range: • APU; • SQL_DPU; • MU; • RESOURCE_USAGE_UNIT; • RAY_APU; • RAY_DPU; • RAY_CACHE. Default Value: N/A.

Parameter	Type	Description
resource_type	String	Definition: Resource type. Constraints: N/A. Range: [1, 64]. Default Value: N/A.
stride	Integer	Definition: Resource stride. Constraints: N/A. Range: N/A. Default Value: N/A.
unit	String	Definition: Resource unit. Constraints: N/A. Range: [1, 16]. Default Value: N/A.
min_stride_num	Integer	Definition: Number of resource steps. Constraints: N/A. Range: [1, 10000]. The input value must be a value in the step count whitelist of the specification list API. Default Value: N/A.
max_stride_num	Integer	Definition: Number of resource steps. Constraints: N/A. Range: [1, 10000]. The input value must be a value in the step count whitelist of the specification list API. Default Value: N/A.
usage_measure_id	Integer	Definition: Usage unit ID. Constraints: N/A. Range: N/A. Default Value: N/A.
usage_factor	String	Definition: Usage factor. Constraints: N/A. Range: [1, 32]. Default Value: N/A.
stride_num_whitelist	Array of integers	Definition: Step count whitelist. The returned step count must be a value in the whitelist. Constraints: N/A. Range: [0, 100]. Default Value: N/A.

Parameter	Type	Description
extra_info	SpecExtraInfo object	Definition: Additional information. Constraints: N/A.

Table 4-104 SpecExtraInfo

Parameter	Type	Description
mu_multiple	Double	Definition: Conversion multiple of a model unit. Constraints: N/A. Range: N/A. Default Value: N/A.
mu_code	String	Definition: Model unit code. Constraints: N/A. Range: [1, 64]. Default Value: N/A.

Status code: 400**Table 4-105** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-106 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-107** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-108 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-109** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/specs

Example Responses

Status code: 200

The specification list is queried.

```
{
  "total" : 1,
  "spec_codes" : [ {
    "spec_code" : "string",
    "spec_type" : "APU",
    "resource_type" : "hws.resource.type.fabric.ray.dpu",
    "stride" : 1,
    "unit" : "string",
    "min_stride_num" : 0,
    "max_stride_num" : 1,
    "usage_measure_id" : 6,
    "usage_factor" : "string",
    "stride_num_whitelist" : [ 12, 13 ],
    "extra_info" : {
      "mu_multiple" : 0,
      "mu_code" : "string"
    }
  }
]
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	The specification list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error CodesSee [Error Codes](#).

4.6 Endpoint Management

4.6.1 Querying the Endpoint List

Function

This API is used to list endpoints. You can call this API to list endpoints within a workspace. You can filter endpoints by model ID, endpoint ID, name, type, and visibility. Pagination query is supported. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/workspaces/{workspace_id}/endpoints

Table 4-110 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-111 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
model_id	No	String	Definition: Model ID, allowing you to search for models by their ID. Constraints: N/A. Range: [32, 36]. Only letters, digits, and hyphens (-) are allowed. For how to obtain a model ID, see [Obtaining a Model ID] (dataartsfabric_03_0024.xml). Default Value: N/A.

Parameter	Mandatory	Type	Description
name	No	String	Definition: Endpoint name, allowing you to search for endpoints by their name. Constraints: N/A. Range: 1 to 128 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Fuzzy search is supported. Default Value: N/A.
endpoint_id	No	String	Definition: Endpoint ID, allowing you to search for endpoints by their ID. For how to obtain an endpoint ID, see [Obtaining an Endpoint ID] (dataartsfabric_03_0023.xml). Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
type	No	Object	Definition: Endpoint type. Constraints: N/A. Range: • service: Service endpoint, indicating a resource group that can receive service requests. • ray: Endpoint of a Ray cluster on Kubernetes, indicating a Ray cluster. • inference: Inference endpoint, indicating an inference function instance. • job: Job endpoint, indicating a resource group that can receive job requests. • ray_service: Endpoint of a Ray service on Kubernetes, indicating a Ray service. • sql: SQL endpoint, indicating a resource group that can receive SQL requests. Default Value: N/A.
visibility	No	String	Definition: Visibility search parameter. Constraints: N/A. Range: • PRIVATE: private, created by users. • PUBLIC: Query all public objects, including those created by other users. • ALL: All. • Default Value: By default, this parameter is left blank. If left blank, the visibility of the current user is queried, including PRIVATE and PUBLIC.

Request Parameters

Table 4-112 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-113 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of endpoints that meet the filter criteria. Constraints: N/A. Range: N/A. Default Value: N/A.
endpoints	Array of EndpointBriefInfo objects	Definition: List of brief information about endpoints that meet the filter criteria. Constraints: [0,1000].

Table 4-114 EndpointBriefInfo

Parameter	Type	Description
visibility	String	Definition: Visibility. Constraints: N/A. Range: - PRIVATE; - PUBLIC. Default Value: PRIVATE.

Parameter	Type	Description
id	String	Definition: Endpoint ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
name	String	Definition: Endpoint name. Constraints: N/A. Range: 1 to 128 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
type	String	Definition: Endpoint type. Constraints: N/A. Range: • service: Service endpoint, indicating a resource group that can receive service requests. • ray: Endpoint of a Ray cluster on Kubernetes, indicating a Ray cluster. • inference: Inference endpoint, indicating an inference function instance. • job: Job endpoint, indicating a resource group that can receive job requests. • ray_service: Endpoint of a Ray service on Kubernetes, indicating a Ray service. • sql: SQL endpoint, indicating a resource group that can receive SQL requests. Default Value: N/A.

Parameter	Type	Description
status	String	Definition: Endpoint status. Constraints: N/A. Range: • CREATING: being created. • RUNNING: running. • CREATE_FAILED: creation failed. • DELETING: being deleted. • DELETED: deleted. • UPDATING: being updated. • UPDATE_FAILED: upgrade failed. • DELETE_FAILED: creation failed. • FROZEN: frozen. • INACTIVE: disabled (public endpoint). • TRIAL_ENDED: trial ended. Default Value: N/A.
description	String	Definition: Description. Constraints: N/A. Range: N/A. Default Value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.
update_time	String	Definition: Update time. Constraints: N/A. Range: N/A. Default Value: N/A.
owner	User object	Definition: Tenant information, including the account name, account ID, username, and user ID. Constraints: N/A.
cap	CapRef object	Definition: Image package information. Constraints: N/A.

Parameter	Type	Description
reserved_resource	ReservedResource object	Definition: General reserved resources. Constraints: N/A. Range: N/A. Default Value: N/A.
ray_resource	RayResourceInfo object	Definition: Ray resource configuration. Constraints: N/A.
caches	Array of CacheConfig objects	Definition: Cache association information. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
error_code	String	Definition: Error code in the failure state. Constraints: N/A. Range: N/A. Default Value: N/A.
error_msg	String	Definition: Error message in the failure state. Constraints: N/A. Range: N/A. Default Value: N/A.
public_access	Boolean	Definition: Whether to enable public network access. Constraints: N/A. Range: true (enabled) or false (disabled). Default Value: N/A.

Table 4-115 User

Parameter	Type	Description
domain_name	String	Definition: Account name. Constraints: N/A. Range: 0 to 64 characters. Default Value: N/A.

Parameter	Type	Description
domain_id	String	Definition: Account ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
user_name	String	Definition: Username. Constraints: N/A. Range: 0 to 64 characters. Default Value: N/A.
user_id	String	Definition: User ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-116 CapRef

Parameter	Type	Description
cap_id	String	Definition: Image package ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
version_id	String	Definition: Image package version ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-117 ReservedResource

Parameter	Type	Description
apu	ResourceDef object	Definition: Resource definition. Constraints: N/A.

Parameter	Type	Description
dpu	SqlResourceDef object	Definition: SQL resource definition. Constraints: N/A.
mu	ResourceDemand object	Definition: Resource requirement configuration. Constraints: N/A.

Table 4-118 ResourceDef

Parameter	Type	Description
spec_code	String	Definition: Endpoint status. Constraints: Resource specification code, which is queried using the ListSpecs API. Range: N/A. Default Value: N/A.
warm_up_num	Integer	Definition: Number of resources to be warmed up. Constraints: N/A. Range: N/A. Default Value: N/A.
max_num	Integer	Definition: Maximum number of resources. If left blank, it defaults to the preheating resource amount, meaning elastic resources are not used. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.

Table 4-119 SqlResourceDef

Parameter	Type	Description
spec_code	String	Definition: Endpoint status. Constraints: Resource specification code, which is queried using the ListSpecs API. Range: N/A. Default Value: N/A.

Parameter	Type	Description
warm_up_num	Integer	Definition: Number of resources to be warmed up. Constraints: N/A. Range: [1, 5000]. Default Value: N/A.
max_num	Integer	Definition: Maximum number of resources. If left unset, it defaults to the preheating resource amount, meaning elastic resources are not used. Constraints: N/A. Range: [1, 5000]. Default Value: N/A.
use_public_resource	Boolean	Definition: Whether to use public resources. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-120 ResourceDemand

Parameter	Type	Description
spec_code	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.
min	Integer	Definition: Minimum number. Constraints: N/A. Range: The minimum value is 0 . Default Value: N/A.
max	Integer	Definition: Maximum number. Constraints: N/A. Range: The minimum value is 1 . Default Value: N/A.

Table 4-121 RayResourceInfo

Parameter	Type	Description
head_group_spec	HeadGroupSpec object	Definition: Ray head configuration. Constraints: N/A.
worker_group_spec	Array of WorkerGroupSpec objects	Definition: Ray worker group configuration. Constraints: N/A. Range: [1, 10]. Default Value: N/A.

Table 4-122 HeadGroupSpec

Parameter	Type	Description
spec_code	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.

Table 4-123 WorkerGroupSpec

Parameter	Type	Description
name	String	Definition: Name. Constraints: N/A. Range: N/A. Default Value: N/A.
spec_code	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.
min_replicas	Integer	Definition: Minimum number of replicas. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.

Parameter	Type	Description
max_replicas	Integer	Definition: Maximum number of replicas. Constraints: N/A. Range: [1, 10000]. Default Value: N/A.

Table 4-124 CacheConfig

Parameter	Type	Description
mnt_path	String	Definition: Mount path. Constraints: N/A. Range: N/A. Default Value: N/A.
cache_ins_id	String	Definition: Distributed cache ID. Constraints: N/A. Range: ID of a created distributed cache resource. Default Value: N/A.

Status code: 400**Table 4-125** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-126** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-127** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-128 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/workspaces/{workspace_id}/endpoints

Example Responses

Status code: 200

The endpoint list is queried.

```
{
  "total": 1,
  "endpoints": [ {
    "visibility": "PRIVATE",
    "id": "0b5633ba2b904511ad514346f4dxxxxx",
    "name": "endpoint1",
    "type": "job",
    "status": "CREATING",
    "description": "description",
    "create_time": "2023-05-30T12:24:30.401Z",
    "update_time": "2023-05-30T12:24:30.401Z",
    "owner": {
      "domain_name": "string",
      "domain_id": "0b5633ba2b904511ad514346f4dxxxxx",
      "user_name": "string",
      "user_id": "0b5633ba2b904511ad514346f4dxxxxx"
    },
    "cap": {
      "cap_id": "0b5633ba2b904511ad514346f4dxxxxx",
      "version_id": "0b5633ba2b904511ad514346f4dxxxxx"
    },
    "reserved_resource": {
      "apu": {
        "spec_code": "a1x",
        "warm_up_num": 1,
        "max_num": 100
      },
      "dpu": {
        "spec_code": "d1x",
```

```
{
  "warm_up_num" : 1,
  "max_num" : 100,
  "use_public_resource" : false
},
"mu" : {
  "spec_code" : "mu",
  "min" : 0,
  "max" : 1
}
},
"ray_resource" : {
  "head_group_spec" : {
    "spec_code" : "string"
  },
  "worker_group_spec" : [ {
    "name" : "string",
    "spec_code" : "string",
    "min_replicas" : 10000,
    "max_replicas" : 10000
  } ]
},
"cache" : [ {
  "mnt_path" : "string",
  "cache_ins_id" : "string"
} ],
"error_code" : "string",
"error_msg" : "string"
} ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
}
```

```
{  
  "error_msg": "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code": "common.00000500",  
  "error_msg": "internal error"  
}
```

Status Codes

Status Code	Description
200	The endpoint list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.6.2 Creating an Endpoint

Function

This API is used to create an endpoint. You can call this API to create an endpoint within a workspace. You need to enter information like the name, description, type, resource configuration, and CAP configuration. The endpoint information will then be returned. This is an asynchronous API. It is used in conjunction with the ShowEndpoint API to query details about an endpoint, with no specific scenarios involved.

URI

POST /v1/workspaces/{workspace_id}/endpoints

Table 4-129 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-130 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-131 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Endpoint name. Constraints: N/A. Range: 1 to 128 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
description	No	String	Definition: Description. Constraints: N/A. Range: N/A. Default Value: N/A.
type	Yes	String	Definition: Endpoint type. Constraints: N/A. Range: • service: Service endpoint, indicating a resource group that can receive service requests. • ray: Endpoint of a Ray cluster on Kubernetes, indicating a Ray cluster. • inference: Inference endpoint, indicating an inference function instance. • job: Job endpoint, indicating a resource group that can receive job requests. • ray_service: Endpoint of a Ray service on Kubernetes, indicating a Ray service. • sql: SQL endpoint, indicating a resource group that can receive SQL requests. Default Value: N/A.
reserved_resource	No	ReservedResource object	Definition: General reserved resources. Constraints: N/A. Range: N/A. Default Value: N/A.
ray_resource	No	RayResourceInput object	Definition: Resource configuration for creating a Ray cluster. Constraints: N/A.
cap	No	CapRef object	Definition: Image package information. Constraints: N/A.

Parameter	Mandatory	Type	Description
config	No	EndpointConfig object	Definition: Endpoint configuration. Constraints: N/A.
cache_list	No	Array of CacheConfig objects	Definition: Distributed cache configuration. Constraints: N/A.
public_access	No	Boolean	Definition: Whether to enable public network access. Constraints: N/A. Range: true (enabled) or false (disabled). Default Value: false .

Table 4-132 ReservedResource

Parameter	Mandatory	Type	Description
apu	No	ResourceDef object	Definition: Resource definition. Constraints: N/A.
dpu	No	SqlResourceDef object	Definition: SQL resource definition. Constraints: N/A.
mu	No	ResourceDemand object	Definition: Resource requirement configuration. Constraints: N/A.

Table 4-133 ResourceDef

Parameter	Mandatory	Type	Description
spec_code	Yes	String	Definition: Endpoint status. Constraints: Resource specification code, which is queried using the ListSpecs API. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
warm_up_num	Yes	Integer	Definition: Number of resources to be warmed up. Constraints: N/A. Range: N/A. Default Value: N/A.
max_num	No	Integer	Definition: Maximum number of resources. If left blank, it defaults to the preheating resource amount, meaning elastic resources are not used. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.

Table 4-134 SqlResourceDef

Parameter	Mandatory	Type	Description
spec_code	Yes	String	Definition: Endpoint status. Constraints: Resource specification code, which is queried using the ListSpecs API. Range: N/A. Default Value: N/A.
warm_up_num	Yes	Integer	Definition: Number of resources to be warmed up. Constraints: N/A. Range: [1, 5000]. Default Value: N/A.
max_num	No	Integer	Definition: Maximum number of resources. If left unset, it defaults to the preheating resource amount, meaning elastic resources are not used. Constraints: N/A. Range: [1, 5000]. Default Value: N/A.

Parameter	Mandatory	Type	Description
use_public_resource	No	Boolean	Definition: Whether to use public resources. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-135 RayResourceInput

Parameter	Mandatory	Type	Description
head_node_resource	Yes	HeadNodeResourceDemand object	Definition: headNode resource requirement configuration. Constraints: N/A.
work_node_resources	Yes	Array of WorkNodeResourceDemand objects	Definition: Resource configuration of worker nodes. Constraints: N/A. Range: [1, 10]. Default Value: N/A.

Table 4-136 HeadNodeResourceDemand

Parameter	Mandatory	Type	Description
spec_code	Yes	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.

Table 4-137 WorkNodeResourceDemand

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Resource configuration name. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
resource	Yes	ResourceDemand object	Definition: Resource requirement configuration. Constraints: N/A.

Table 4-138 ResourceDemand

Parameter	Mandatory	Type	Description
spec_code	Yes	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.
min	Yes	Integer	Definition: Minimum number. Constraints: N/A. Range: The minimum value is 0. Default Value: N/A.
max	Yes	Integer	Definition: Maximum number. Constraints: N/A. Range: The minimum value is 1. Default Value: N/A.

Table 4-139 CapRef

Parameter	Mandatory	Type	Description
cap_id	No	String	Definition: Image package ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
version_id	No	String	Definition: Image package version ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-140 EndpointConfig

Parameter	Mandatory	Type	Description
ray_service_config	No	RayServiceConfig object	Definition: Configuration of a Ray service endpoint. Constraints: N/A.

Table 4-141 RayServiceConfig

Parameter	Mandatory	Type	Description
ray_serve_config	Yes	RayServeConfig object	Definition: Ray Serve configuration. Constraints: N/A.
ray_cluster_config	Yes	RayClusterConfig object	Definition: Ray cluster configuration. Constraints: N/A.
log_config	No	RayServiceLogConfig object	Definition: Log configuration of a Ray service. Constraints: N/A.
data_infos	No	Array of DataBriefInfo objects	Definition: Data information. Constraints: N/A. Range: [0, 1]. Default Value: N/A.

Table 4-142 RayServeConfig

Parameter	Mandatory	Type	Description
applications	No	Array of ServeApplication objects	Definition: Application. Constraints: N/A. Range: [0, 5]. Default Value: N/A.

Table 4-143 ServeApplication

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Application name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
import_path	Yes	String	Definition: Input path. Constraints: N/A. Range: N/A. Default Value: N/A.
deployments	Yes	Array of Deployment objects	Definition: Deployment list. Constraints: N/A. Range: [1, 5]. Default Value: N/A.
runtime_env	Yes	ServeRuntimeEnv object	Definition: Runtime environment configuration of Serve. Constraints: N/A. Range: working_dir: working directory where the code will run. The value must be a remote URI, such as an S3 or a local path; env_vars: environment variables to be set. Default Value: N/A.

Parameter	Mandatory	Type	Description
route_prefix	No	String	Definition: Route prefix. Constraints: The value must be unique in Ray Serve and cannot be the same as the prefixes of other applications. Range: N/A. Default Value: N/A.

Table 4-144 Deployment

Parameter	Mandatory	Type	Description
name	No	String	Description: Name of a deployment. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
ray_actor_options	No	RayActorOptions object	Definition: Ray actor configuration. Constraints: N/A.
autoscaling_config	No	AutoscalingConfig object	Definition: Auto scaling configuration. Constraints: N/A.
num_replicas	No	Integer	Definition: Number of replicas. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
user_config	No	Object	Definition: User-defined configuration. Constraints: N/A.
max_replicas_per_node	No	Integer	Definition: Maximum number of replicas allowed per node. Constraints: N/A. Range: [1, 100]. Default Value: 1.

Parameter	Mandatory	Type	Description
max_ongoing_requests	No	Integer	Definition: Maximum number of concurrent requests that each replica can accept. Constraints: N/A. Range: [1, 100000]. Default Value: N/A.
max_queued_requests	No	Integer	Definition: Maximum number of queued requests that a deployment can accept. -1 indicates no limit. Constraints: N/A. Range: [-1, 100000]. Default Value: N/A.

Table 4-145 RayActorOptions

Parameter	Mandatory	Type	Description
num_cpus	No	Double	Definition: CPU size. Constraints: N/A. Range: N/A. Default Value: N/A.
memory	No	Double	Definition: Memory size. Constraints: N/A. Range: N/A. Default Value: N/A.
resources	No	String	Definition: Resource configuration. Constraints: N/A. Range: [0, 1024]. Default Value: N/A.

Table 4-146 AutoscalingConfig

Parameter	Mandatory	Type	Description
target_ongoing_requests	No	Integer	Definition: Average number of requests that each replica can provide per unit time. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.
min_replicas	No	Integer	Definition: Minimum number of replicas. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
max_replicas	No	Integer	Definition: Maximum number of replicas. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
initial_replicas	No	Integer	Definition: Number of initial replicas. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
upscale_delay_s	No	Integer	Definition: Waiting time before scale-up. Constraints: N/A. Range: [0, 86400]. Default Value: N/A.
downscale_delay_s	No	Integer	Definition: Waiting time before scale-down. Constraints: N/A. Range: [0, 86400]. Default Value: N/A.

Table 4-147 ServeRuntimeEnv

Parameter	Mandatory	Type	Description
working_dir	No	String	Definition: Working directory where the code will run. Constraints: The value must be a remote URI, for example, an S3 or a local path. Range: N/A. Default Value: N/A.
env_vars	No	Map<String,String>	Definition: Environment variables to be set. Constraints: N/A.

Table 4-148 RayClusterConfig

Parameter	Mandatory	Type	Description
enable_custom	No	Boolean	Definition: Whether to enable resource customization. Constraints: N/A. Range: true (enabled) or false (disabled). Default Value: false .
head_group_spec	Yes	HeadGroupSpecV2 object	Definition: Head group configuration. Constraints: N/A.
worker_group_specs	Yes	Array of WorkerGroupSpecV2 objects	Definition: Worker group configuration. Constraints: [1, 1000].

Table 4-149 HeadGroupSpecV2

Parameter	Mandatory	Type	Description
limits	No	ResourceSpec object	Definition: Resource configuration. Constraints: N/A.
requests	No	ResourceSpec object	Definition: Resource configuration. Constraints: N/A.

Table 4-150 WorkerGroupSpecV2

Parameter	Mandatory	Type	Description
name	No	String	Definition: Name. Constraints: N/A. Range: 0 to 128 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
min_replicas	No	Integer	Definition: Minimum number of replicas. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.
max_replicas	No	Integer	Definition: Maximum number of replicas. Constraints: N/A. Range: [1, 10000]. Default Value: N/A.
limits	No	ResourceSpec object	Definition: Resource limit. Constraints: N/A.
requests	No	ResourceSpec object	Definition: Minimum number of resources. Constraints: N/A.

Table 4-151 ResourceSpec

Parameter	Mandatory	Type	Description
spec_code	No	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.
cpu_resource	No	Integer	Definition: Number of CPU cores. Constraints: N/A. Range: [0, 192]. Default Value: null.

Parameter	Mandatory	Type	Description
memory_resource	No	Integer	Definition: Memory size. Constraints: N/A. Range: [0, 1536]. Default Value: null.
npu_resource	No	Integer	Definition: Number of Huawei Cloud AI processing units (PUs). Constraints: N/A. Range: [0, 8]. Default Value: null.

Table 4-152 RayServiceLogConfig

Parameter	Mandatory	Type	Description
lts	No	RayServiceLogLtsConfig object	Definition: Log configuration of a Ray service. Constraints: N/A.

Table 4-153 RayServiceLogLtsConfig

Parameter	Mandatory	Type	Description
enabled	No	Boolean	Definition: Whether to enable the function of dumping Ray service logs to LTS. Constraints: N/A. Range: true or false. Default Value: false.
log_group_id	No	String	Definition: ID of an LTS log group where Ray service logs are dumped. Constraints: The ID must correspond to an existing LTS log group. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
log_stream_id	No	String	Definition: ID of an LTS log stream where Ray service logs are dumped. Constraints: The ID must correspond to an existing LTS log stream. Range: N/A. Default value: N/A.

Table 4-154 DataBriefInfo

Parameter	Mandatory	Type	Description
input_path	No	String	Definition: Address. Constraints: N/A. Range: [4, 1024]. Default Value: N/A.

Table 4-155 CacheConfig

Parameter	Mandatory	Type	Description
mnt_path	Yes	String	Definition: Mount path. Constraints: N/A. Range: N/A. Default Value: N/A.
cache_ins_id	Yes	String	Definition: Distributed cache ID. Constraints: N/A. Range: ID of a created distributed cache resource. Default Value: N/A.

Response Parameters

Status code: 202

Endpoint details are queried.

Status code: 400

Table 4-156 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-157** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-158 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-159** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Create an endpoint. The specifications are shown in the example.

```
POST https://{endpoint}/v1/workspaces/{workspace_id}/endpoints
{
```

```
"name" : "endpoint1",
"description" : "description",
"type" : "job",
"reserved_resource" : {
  "apu" : {
    "spec_code" : "dpu.d1x",
    "warm_up_num" : 1,
    "max_num" : 100
  },
  "dpu" : {
    "spec_code" : "dpu.d1x",
    "warm_up_num" : 4,
    "max_num" : 100
  },
  "mu" : {
    "spec_code" : "string",
    "min" : 0,
    "max" : 1
  }
},
"ray_resource" : {
  "head_node_resource" : {
    "spec_code" : "string"
  },
  "work_node_resources" : [ {
    "name" : "cpuGroup1",
    "resource" : {
      "spec_code" : "string",
      "min" : 0,
      "max" : 1
    }
  }
],
"cap" : {
  "cap_id" : "0b5633ba2b904511ad514346f4d23d4b",
  "version_id" : "0b5633ba2b904511ad514346f4d23d4b"
},
"config" : {
  "ray_service_config" : {
    "log_config" : {
      "lts" : {
        "enabled" : true,
        "log_group_id" : "string",
        "log_stream_id" : "string"
      }
    }
  },
  "ray_serve_config" : {
    "applications" : [ {
      "name" : "string",
      "import_path" : "string",
      "deployments" : [ {
        "name" : "string",
        "ray_actor_options" : {
          "num_cpus" : 0,
          "memory" : 0,
          "resources" : "string"
        }
      }
    ],
    "autoscaling_config" : {
      "target_ongoing_requests" : 1000,
      "max_ongoing_requests" : 1000,
      "min_replicas" : 1000,
      "max_replicas" : 1000,
      "initial_replicas" : 1000,
      "upscale_delay_s" : 86400,
      "downscale_delay_s" : 86400
    },
    "num_replicas" : 1000,
    "user_config" : { },
    "max_replicas_per_node" : 1
  }
}
```

```
    } ],
    "runtime_env" : {
      "working_dir" : "string",
      "env_vars" : {
        "additionalProp1" : "string",
        "additionalProp2" : "string",
        "additionalProp3" : "string"
      }
    },
    "route_prefix" : "string"
  } ]
},
"ray_cluster_config" : {
  "head_group_spec" : {
    "limits" : {
      "spec_code" : "string"
    },
    "requests" : {
      "spec_code" : "string"
    }
  },
  "worker_group_specs" : [ {
    "name" : "string",
    "min_replicas" : 10000,
    "max_replicas" : 10000,
    "limits" : {
      "spec_code" : "string"
    },
    "requests" : {
      "spec_code" : "string"
    }
  } ]
},
"data_infos" : [ {
  "input_path" : "OBS://bucket/dir/"
} ]
},
"cache_list" : [ {
  "mnt_path" : "string",
  "cache_ins_id" : "string"
} ]
}
```

Example Responses

Status code: 202

Endpoint details are queried.

```
{
  "visibility" : "PRIVATE",
  "id" : "0b5633ba2b904511ad514346f4d23d4b",
  "name" : "endpoint1",
  "type" : "job",
  "status" : "CREATING",
  "description" : "description",
  "create_time" : "2023-05-30T12:24:30.401Z",
  "update_time" : "2023-05-30T12:24:30.401Z",
  "owner" : {
    "domain_name" : "string",
    "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
    "user_name" : "string",
    "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
  },
  "cap" : {
    "cap_id" : "0b5633ba2b904511ad514346f4d23d4b",
    "version_id" : "0b5633ba2b904511ad514346f4d23d4b"
  },
}
```

```
"reserved_resource" : {
  "apu" : {
    "spec_code" : "dpu.d1x",
    "warm_up_num" : 1,
    "max_num" : 100
  },
  "dpu" : {
    "spec_code" : "dpu.d1x",
    "warm_up_num" : 1,
    "max_num" : 100,
    "use_public_resource" : false
  },
  "mu" : {
    "spec_code" : "string",
    "min" : 0,
    "max" : 1
  }
},
"ray_resource" : {
  "head_group_spec" : {
    "spec_code" : "string"
  },
  "worker_group_spec" : [ {
    "name" : "string",
    "spec_code" : "string",
    "min_replicas" : 10000,
    "max_replicas" : 10000
  } ]
},
"cache" : [ {
  "mnt_path" : "string",
  "cache_ins_id" : "string"
} ],
"error_code" : "string",
"error_msg" : "string",
"urls" : [ {
  "name" : "string",
  "address" : "string",
  "type" : "PRIVATE",
  "token" : "string"
} ],
"business_engine_instance_ids" : [ "string" ],
"tokens_quota" : {
  "total" : 0,
  "used" : 0,
  "expire_time" : "2025-01-17T01:12:24.663Z"
},
"runtime_env_type" : "RELEASE",
"config" : {
  "ray_service_config" : {
    "log_config" : {
      "lts" : {
        "enabled" : true,
        "log_group_id" : "string",
        "log_stream_id" : "string"
      }
    }
  },
  "ray_serve_config" : {
    "applications" : [ {
      "name" : "string",
      "import_path" : "string",
      "deployments" : [ {
        "name" : "string",
        "ray_actor_options" : {
          "num_cpus" : 0,
          "memory" : 0,
          "resources" : "string"
        }
      } ],
      "autoscaling_config" : {
```

```
    "target_ongoing_requests" : 1000,
    "max_ongoing_requests" : 1000,
    "min_replicas" : 1000,
    "max_replicas" : 1000,
    "initial_replicas" : 1000,
    "upscale_delay_s" : 86400,
    "downscale_delay_s" : 86400
  },
  "num_replicas" : 1000,
  "user_config" : { },
  "max_replicas_per_node" : ""
} ],
"runtime_env" : {
  "working_dir" : "string",
  "env_vars" : {
    "additionalProp1" : "string",
    "additionalProp2" : "string",
    "additionalProp3" : "string"
  }
},
"route_prefix" : "string"
} ]
},
"ray_cluster_config" : {
  "head_group_spec" : {
    "limits" : {
      "spec_code" : "string"
    },
    "requests" : {
      "spec_code" : "string"
    }
  },
  "worker_group_specs" : [ {
    "name" : "string",
    "min_replicas" : 10000,
    "max_replicas" : 10000,
    "limits" : {
      "spec_code" : "string"
    },
    "requests" : {
      "spec_code" : "string"
    }
  }
]
},
"data_infos" : [ {
  "input_path" : "OBS://bucket/dir/",
  "output_path" : "OBS://bucket/dir/",
  "env_var_name" : "string"
} ]
}
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
}
```

```
{
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
202	Endpoint details are queried.
400	BadRequest
401	Unauthorized
403	Forbidden
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.6.3 Querying Details About an Endpoint

Function

This API is used to query endpoint details. You can call this API to query details about an endpoint by specifying the endpoint ID. Endpoint details will then be returned. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/workspaces/{workspace_id}/endpoints/{endpoint_id}

Table 4-160 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
endpoint_id	Yes	String	Definition: Endpoint ID. For how to obtain an endpoint ID, see [Obtaining an Endpoint ID] (dataartsfabric_03_0023.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-161 Query Parameters

Parameter	Mandatory	Type	Description
version	No	String	Definition: Version of the endpoint to be queried. Constraints: N/A. Range: • CURRENT: current version; • PREVIOUS: previous version. Default Value: N/A.

Request Parameters

Table 4-162 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Endpoint details are queried.

Status code: 400

Table 4-163 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-164** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-165** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-166 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/v1/workspaces/{workspace_id}/endpoints/{endpoint_id}
```

Example Responses

Status code: 200

Endpoint details are queried.

```
{
  "visibility": "PRIVATE",
  "id": "0b5633ba2b904511ad514346f4d23d4b",
  "name": "endpoint1",
  "type": "job",
```

```
"status" : "CREATING",
"description" : "description",
"create_time" : "2023-05-30T12:24:30.401Z",
"update_time" : "2023-05-30T12:24:30.401Z",
"owner" : {
  "domain_name" : "string",
  "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
  "user_name" : "string",
  "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
},
"cap" : {
  "cap_id" : "0b5633ba2b904511ad514346f4d23d4b",
  "version_id" : "0b5633ba2b904511ad514346f4d23d4b"
},
"reserved_resource" : {
  "apu" : {
    "spec_code" : "dpu.d1x",
    "warm_up_num" : 1,
    "max_num" : 100
  },
  "dpu" : {
    "spec_code" : "dpu.d1x",
    "warm_up_num" : 1,
    "max_num" : 100,
    "use_public_resource" : false
  },
  "mu" : {
    "spec_code" : "string",
    "min" : 0,
    "max" : 1
  }
},
"ray_resource" : {
  "head_group_spec" : {
    "spec_code" : "string"
  },
  "worker_group_spec" : [ {
    "name" : "string",
    "spec_code" : "string",
    "min_replicas" : 10000,
    "max_replicas" : 10000
  } ]
},
"caches" : [ {
  "mnt_path" : "string",
  "cache_ins_id" : "string"
} ],
"error_code" : "string",
"error_msg" : "string",
"urls" : [ {
  "name" : "string",
  "address" : "string",
  "type" : "PRIVATE",
  "token" : "string"
} ],
"business_engine_instance_ids" : [ "string" ],
"tokens_quota" : {
  "total" : 0,
  "used" : 0,
  "expire_time" : "2025-01-17T07:24:06.877Z"
},
"runtime_env_type" : "RELEASE",
"config" : {
  "ray_service_config" : {
    "log_config" : {
      "lts" : {
        "enabled" : false,
        "log_group_id" : "string",
        "log_stream_id" : "string"
      }
    }
  }
}
```

```
}
},
"ray_serve_config": {
  "applications": [ {
    "name": "string",
    "import_path": "string",
    "deployments": [ {
      "name": "string",
      "ray_actor_options": {
        "num_cpus": 0,
        "memory": 0,
        "resources": "string"
      },
      "autoscaling_config": {
        "target_ongoing_requests": 1000,
        "max_ongoing_requests": 1000,
        "min_replicas": 1000,
        "max_replicas": 1000,
        "initial_replicas": 1000,
        "upscale_delay_s": 86400,
        "downscale_delay_s": 86400
      },
      "num_replicas": 1000,
      "user_config": { },
      "max_replicas_per_node": ""
    } ],
    "runtime_env": {
      "working_dir": "string",
      "env_vars": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
      }
    },
    "route_prefix": "string"
  } ]
},
"ray_cluster_config": {
  "head_group_spec": {
    "limits": {
      "spec_code": "string"
    },
    "requests": {
      "spec_code": "string"
    }
  },
  "worker_group_specs": [ {
    "name": "string",
    "min_replicas": 10000,
    "max_replicas": 10000,
    "limits": {
      "spec_code": "string"
    },
    "requests": {
      "spec_code": "string"
    }
  } ]
},
"data_infos": [ {
  "input_path": "OBS://bucket/dir/",
  "output_path": "OBS://bucket/dir/",
  "env_var_name": "string"
} ]
}
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	Endpoint details are queried.
400	BadRequest
401	Unauthorized
403	Forbidden
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.6.4 Modifying an Endpoint

Function

This API is used to update an endpoint. You can call this API to update the details of an endpoint by providing inputs such as the name, description, resource configuration, and image package configuration. The updated endpoint information will then be returned. However, note that the **log_config** of a Ray service remains unaffected and cannot be updated through this operation. This is an asynchronous API. It is used in conjunction with the ShowEndpoint API to query information about an endpoint, with no specific scenarios involved.

URI

PUT /v1/workspaces/{workspace_id}/endpoints/{endpoint_id}

Table 4-167 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
endpoint_id	Yes	String	Definition: Endpoint ID. For how to obtain an endpoint ID, see [Obtaining an Endpoint ID] (dataartsfabric_03_0023.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-168 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-169 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Endpoint name. Constraints: N/A. Range: 1 to 128 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	No	String	Definition: Description. Constraints: N/A. Range: [0, 1024]. Default Value: N/A.
reserved_resource	No	ReservedResource object	Definition: General reserved resources. Constraints: N/A. Range: N/A. Default Value: N/A.
ray_resource	No	RayResourceInput object	Definition: Resource configuration for creating a Ray cluster. Constraints: N/A.
cap	No	CapRef object	Definition: Image package information. Constraints: N/A.

Parameter	Mandatory	Type	Description
config	No	EndpointConfig object	Definition: Endpoint configuration. Constraints: N/A.
public_access	No	Boolean	Definition: Whether to enable public network access. Constraints: N/A. Range: true (enabled) or false (disabled). Default Value: N/A.

Table 4-170 ReservedResource

Parameter	Mandatory	Type	Description
apu	No	ResourceDef object	Definition: Resource definition. Constraints: N/A.
dpu	No	SqlResourceDef object	Definition: SQL resource definition. Constraints: N/A.
mu	No	ResourceDemand object	Definition: Resource requirement configuration. Constraints: N/A.

Table 4-171 ResourceDef

Parameter	Mandatory	Type	Description
spec_code	Yes	String	Definition: Endpoint status. Constraints: Resource specification code, which is queried using the ListSpecs API. Range: N/A. Default Value: N/A.
warm_up_num	Yes	Integer	Definition: Number of resources to be warmed up. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
max_num	No	Integer	Definition: Maximum number of resources. If left blank, it defaults to the preheating resource amount, meaning elastic resources are not used. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.

Table 4-172 SqlResourceDef

Parameter	Mandatory	Type	Description
spec_code	Yes	String	Definition: Endpoint status. Constraints: Resource specification code, which is queried using the ListSpecs API. Range: N/A. Default Value: N/A.
warm_up_num	Yes	Integer	Definition: Number of resources to be warmed up. Constraints: N/A. Range: [1, 5000]. Default Value: N/A.
max_num	No	Integer	Definition: Maximum number of resources. If left unset, it defaults to the preheating resource amount, meaning elastic resources are not used. Constraints: N/A. Range: [1, 5000]. Default Value: N/A.
use_public_resource	No	Boolean	Definition: Whether to use public resources. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-173 RayResourceInput

Parameter	Mandatory	Type	Description
head_node_resource	Yes	HeadNodeResourceDemand object	Definition: headNode resource requirement configuration. Constraints: N/A.
work_node_resources	Yes	Array of WorkNodeResourceDemand objects	Definition: Resource configuration of worker nodes. Constraints: N/A. Range: [1, 10]. Default Value: N/A.

Table 4-174 HeadNodeResourceDemand

Parameter	Mandatory	Type	Description
spec_code	Yes	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.

Table 4-175 WorkNodeResourceDemand

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Resource configuration name. Constraints: N/A. Range: N/A. Default Value: N/A.
resource	Yes	ResourceDemand object	Definition: Resource requirement configuration. Constraints: N/A.

Table 4-176 ResourceDemand

Parameter	Mandatory	Type	Description
spec_code	Yes	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.
min	Yes	Integer	Definition: Minimum number. Constraints: N/A. Range: The minimum value is 0. Default Value: N/A.
max	Yes	Integer	Definition: Maximum number. Constraints: N/A. Range: The minimum value is 1. Default Value: N/A.

Table 4-177 CapRef

Parameter	Mandatory	Type	Description
cap_id	No	String	Definition: Image package ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
version_id	No	String	Definition: Image package version ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-178 EndpointConfig

Parameter	Mandatory	Type	Description
ray_service_config	No	RayServiceConfig object	Definition: Configuration of a Ray service endpoint. Constraints: N/A.

Table 4-179 RayServiceConfig

Parameter	Mandatory	Type	Description
ray_serve_config	Yes	RayServeConfig object	Definition: Ray Serve configuration. Constraints: N/A.
ray_cluster_config	Yes	RayClusterConfig object	Definition: Ray cluster configuration. Constraints: N/A.
log_config	No	RayServiceLogConfig object	Definition: Log configuration of a Ray service. Constraints: N/A.
data_infos	No	Array of DataBriefInfo objects	Definition: Data information. Constraints: N/A. Range: [0, 1]. Default Value: N/A.

Table 4-180 RayServeConfig

Parameter	Mandatory	Type	Description
applications	No	Array of ServeApplication objects	Definition: Application. Constraints: N/A. Range: [0, 5]. Default Value: N/A.

Table 4-181 ServeApplication

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Application name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
import_path	Yes	String	Definition: Input path. Constraints: N/A. Range: N/A. Default Value: N/A.
deployments	Yes	Array of Deployment objects	Definition: Deployment list. Constraints: N/A. Range: [1, 5]. Default Value: N/A.
runtime_env	Yes	ServeRuntimeEnv object	Definition: Runtime environment configuration of Serve. Constraints: N/A. Range: working_dir: working directory where the code will run. The value must be a remote URI, such as an S3 or a local path; env_vars: environment variables to be set. Default Value: N/A.
route_prefix	No	String	Definition: Route prefix. Constraints: The value must be unique in Ray Serve and cannot be the same as the prefixes of other applications. Range: N/A. Default Value: N/A.

Table 4-182 Deployment

Parameter	Mandatory	Type	Description
name	No	String	Description: Name of a deployment. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
ray_actor_options	No	RayActorOptions object	Definition: Ray actor configuration. Constraints: N/A.
autoscaling_config	No	AutoscalingConfig object	Definition: Auto scaling configuration. Constraints: N/A.
num_replicas	No	Integer	Definition: Number of replicas. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
user_config	No	Object	Definition: User-defined configuration. Constraints: N/A.
max_replicas_per_node	No	Integer	Definition: Maximum number of replicas allowed per node. Constraints: N/A. Range: [1, 100]. Default Value: 1.
max_ongoing_requests	No	Integer	Definition: Maximum number of concurrent requests that each replica can accept. Constraints: N/A. Range: [1, 100000]. Default Value: N/A.

Parameter	Mandatory	Type	Description
max_queued_requests	No	Integer	Definition: Maximum number of queued requests that a deployment can accept. -1 indicates no limit. Constraints: N/A. Range: [-1, 100000]. Default Value: N/A.

Table 4-183 RayActorOptions

Parameter	Mandatory	Type	Description
num_cpus	No	Double	Definition: CPU size. Constraints: N/A. Range: N/A. Default Value: N/A.
memory	No	Double	Definition: Memory size. Constraints: N/A. Range: N/A. Default Value: N/A.
resources	No	String	Definition: Resource configuration. Constraints: N/A. Range: [0, 1024]. Default Value: N/A.

Table 4-184 AutoscalingConfig

Parameter	Mandatory	Type	Description
target_ongoing_requests	No	Integer	Definition: Average number of requests that each replica can provide per unit time. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.

Parameter	Mandatory	Type	Description
min_replicas	No	Integer	Definition: Minimum number of replicas. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
max_replicas	No	Integer	Definition: Maximum number of replicas. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
initial_replicas	No	Integer	Definition: Number of initial replicas. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.
upscale_delay_s	No	Integer	Definition: Waiting time before scale-up. Constraints: N/A. Range: [0, 86400]. Default Value: N/A.
downscale_delay_s	No	Integer	Definition: Waiting time before scale-down. Constraints: N/A. Range: [0, 86400]. Default Value: N/A.

Table 4-185 ServeRuntimeEnv

Parameter	Mandatory	Type	Description
working_dir	No	String	Definition: Working directory where the code will run. Constraints: The value must be a remote URI, for example, an S3 or a local path. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
env_vars	No	Map<String,String>	Definition: Environment variables to be set. Constraints: N/A.

Table 4-186 RayClusterConfig

Parameter	Mandatory	Type	Description
enable_custom	No	Boolean	Definition: Whether to enable resource customization. Constraints: N/A. Range: true (enabled) or false (disabled). Default Value: false .
head_group_spec	Yes	HeadGroupSpecV2 object	Definition: Head group configuration. Constraints: N/A.
worker_group_specs	Yes	Array of WorkerGroupSpecV2 objects	Definition: Worker group configuration. Constraints: [1, 1000].

Table 4-187 HeadGroupSpecV2

Parameter	Mandatory	Type	Description
limits	No	ResourceSpec object	Definition: Resource configuration. Constraints: N/A.
requests	No	ResourceSpec object	Definition: Resource configuration. Constraints: N/A.

Table 4-188 WorkerGroupSpecV2

Parameter	Mandatory	Type	Description
name	No	String	Definition: Name. Constraints: N/A. Range: 0 to 128 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
min_replicas	No	Integer	Definition: Minimum number of replicas. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.
max_replicas	No	Integer	Definition: Maximum number of replicas. Constraints: N/A. Range: [1, 10000]. Default Value: N/A.
limits	No	ResourceSpec object	Definition: Resource limit. Constraints: N/A.
requests	No	ResourceSpec object	Definition: Minimum number of resources. Constraints: N/A.

Table 4-189 ResourceSpec

Parameter	Mandatory	Type	Description
spec_code	No	String	Definition: Resource specifications. Constraints: N/A. Range: The value must be queried from the specifications list. Default Value: N/A.
cpu_resource	No	Integer	Definition: Number of CPU cores. Constraints: N/A. Range: [0, 192]. Default Value: null.

Parameter	Mandatory	Type	Description
memory_resource	No	Integer	Definition: Memory size. Constraints: N/A. Range: [0, 1536]. Default Value: null.
npu_resource	No	Integer	Definition: Number of Huawei Cloud AI processing units (PUs). Constraints: N/A. Range: [0, 8]. Default Value: null.

Table 4-190 RayServiceLogConfig

Parameter	Mandatory	Type	Description
lts	No	RayServiceLogLtsConfig object	Definition: Log configuration of a Ray service. Constraints: N/A.

Table 4-191 RayServiceLogLtsConfig

Parameter	Mandatory	Type	Description
enabled	No	Boolean	Definition: Whether to enable the function of dumping Ray service logs to LTS. Constraints: N/A. Range: true or false. Default Value: false.
log_group_id	No	String	Definition: ID of an LTS log group where Ray service logs are dumped. Constraints: The ID must correspond to an existing LTS log group. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
log_stream_id	No	String	Definition: ID of an LTS log stream where Ray service logs are dumped. Constraints: The ID must correspond to an existing LTS log stream. Range: N/A. Default value: N/A.

Table 4-192 DataBriefInfo

Parameter	Mandatory	Type	Description
input_path	No	String	Definition: Address. Constraints: N/A. Range: [4, 1024]. Default Value: N/A.

Response Parameters

Status code: 202

Endpoint details are queried.

Status code: 400

Table 4-193 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-194 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-195 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-196 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Update an endpoint. Specific update information is shown in the following example.

PUT https://{endpoint}/v1/workspaces/{workspace_id}/endpoints/{endpoint_id}

```
{
  "name" : "endpoint1",
  "description" : "description",
  "reserved_resource" : {
    "apu" : {
      "spec_code" : "dpu.d1x",
      "warm_up_num" : 1,
      "max_num" : 100
    },
    "dpu" : {
      "spec_code" : "dpu.d1x",
      "warm_up_num" : 1,
      "max_num" : 100,
      "use_public_resource" : false
    },
    "mu" : {
      "spec_code" : "string",
      "min" : 0,
      "max" : 1
    }
  },
  "ray_resource" : {
    "head_node_resource" : {
      "spec_code" : "string"
    },
    "work_node_resources" : [ {
      "name" : "cpuGroup1",
      "resource" : {
        "spec_code" : "string",
        "min" : 0,
        "max" : 1
      }
    }
  ]
}
```

```
    } ]
  },
  "cap" : {
    "cap_id" : "0b5633ba2b904511ad514346f4d23d4b",
    "version_id" : "0b5633ba2b904511ad514346f4d23d4b"
  },
  "config" : {
    "ray_service_config" : {
      "ray_serve_config" : {
        "applications" : [ {
          "name" : "string",
          "import_path" : "string",
          "deployments" : [ {
            "name" : "string",
            "ray_actor_options" : {
              "num_cpus" : 0,
              "memory" : 0,
              "resources" : "string"
            },
            "autoscaling_config" : {
              "target_ongoing_requests" : 1000,
              "max_ongoing_requests" : 1000,
              "min_replicas" : 1000,
              "max_replicas" : 1000,
              "initial_replicas" : 1000,
              "upscale_delay_s" : 86400,
              "downscale_delay_s" : 86400
            },
            "num_replicas" : 1000,
            "user_config" : { },
            "max_replicas_per_node" : 1
          } ],
          "runtime_env" : {
            "working_dir" : "string",
            "env_vars" : {
              "additionalProp1" : "string",
              "additionalProp2" : "string",
              "additionalProp3" : "string"
            }
          },
          "route_prefix" : "string"
        } ]
      },
      "ray_cluster_config" : {
        "head_group_spec" : {
          "limits" : {
            "spec_code" : "string"
          },
          "requests" : {
            "spec_code" : "string"
          }
        },
        "worker_group_specs" : [ {
          "name" : "string",
          "min_replicas" : 10000,
          "max_replicas" : 10000,
          "limits" : {
            "spec_code" : "string"
          },
          "requests" : {
            "spec_code" : "string"
          }
        } ]
      },
      "data_infos" : [ {
        "input_path" : "OBS://bucket/dir/"
      } ]
    }
  }
}
```

```
}  
}
```

Example Responses

Status code: 202

Endpoint details are queried.

```
{  
  "visibility": "PRIVATE",  
  "id": "0b5633ba2b904511ad514346f4d23d4b",  
  "name": "endpoint1",  
  "type": "job",  
  "status": "CREATING",  
  "description": "description",  
  "create_time": "2023-05-30T12:24:30.401Z",  
  "update_time": "2023-05-30T12:24:30.401Z",  
  "owner": {  
    "domain_name": "string",  
    "domain_id": "0b5633ba2b904511ad514346f4d23d4b",  
    "user_name": "string",  
    "user_id": "0b5633ba2b904511ad514346f4d23d4b"  
  },  
  "cap": {  
    "cap_id": "0b5633ba2b904511ad514346f4d23d4b",  
    "version_id": "0b5633ba2b904511ad514346f4d23d4b"  
  },  
  "reserved_resource": {  
    "apu": {  
      "spec_code": "dpu.d1x",  
      "warm_up_num": 1,  
      "max_num": 100  
    },  
    "dpu": {  
      "spec_code": "dpu.d1x",  
      "warm_up_num": 1,  
      "max_num": 100,  
      "use_public_resource": false  
    },  
    "mu": {  
      "spec_code": "string",  
      "min": 0,  
      "max": 1  
    }  
  },  
  "ray_resource": {  
    "head_group_spec": {  
      "spec_code": "string"  
    },  
    "worker_group_spec": [ {  
      "name": "string",  
      "spec_code": "string",  
      "min_replicas": 10000,  
      "max_replicas": 10000  
    } ]  
  },  
  "caches": [ {  
    "mnt_path": "string",  
    "cache_ins_id": "string"  
  } ],  
  "error_code": "string",  
  "error_msg": "string",  
  "urls": [ {  
    "name": "string",  
    "address": "string",  
    "type": "PRIVATE",  
    "token": "string"  
  } ],  
}
```

```
"business_engine_instance_ids" : [ "string" ],
"tokens_quota" : {
  "total" : 0,
  "used" : 0,
  "expire_time" : "2025-01-17T07:30:35.677Z"
},
"runtime_env_type" : "RELEASE",
"config" : {
  "ray_service_config" : {
    "ray_serve_config" : {
      "applications" : [ {
        "name" : "string",
        "import_path" : "string",
        "deployments" : [ {
          "name" : "string",
          "ray_actor_options" : {
            "num_cpus" : 0,
            "memory" : 0,
            "resources" : "string"
          }
        },
        "autoscaling_config" : {
          "target_ongoing_requests" : 1000,
          "max_ongoing_requests" : 1000,
          "min_replicas" : 1000,
          "max_replicas" : 1000,
          "initial_replicas" : 1000,
          "upscale_delay_s" : 86400,
          "downscale_delay_s" : 86400
        },
        "num_replicas" : 1000,
        "user_config" : { },
        "max_replicas_per_node" : ""
      } ],
      "runtime_env" : {
        "working_dir" : "string",
        "env_vars" : {
          "additionalProp1" : "string",
          "additionalProp2" : "string",
          "additionalProp3" : "string"
        }
      }
    },
    "route_prefix" : "string"
  } ],
  "ray_cluster_config" : {
    "head_group_spec" : {
      "limits" : {
        "spec_code" : "string"
      },
      "requests" : {
        "spec_code" : "string"
      }
    },
    "worker_group_specs" : [ {
      "name" : "string",
      "min_replicas" : 10000,
      "max_replicas" : 10000,
      "limits" : {
        "spec_code" : "string"
      },
      "requests" : {
        "spec_code" : "string"
      }
    } ],
    "data_infos" : [ {
      "input_path" : "OBS://bucket/dir/",
      "output_path" : "OBS://bucket/dir/",
      "env_var_name" : "string"
    } ]
  }
}
```

```
}]
}
}
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
202	Endpoint details are queried.
400	BadRequest

Status Code	Description
401	Unauthorized
403	Forbidden
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.6.5 Deleting an Endpoint

Function

This API is used to delete an endpoint. You can call this API to delete an endpoint within a workspace by entering the endpoint ID. The operation result will then be returned. This is an asynchronous API. It is used in conjunction with the ShowEndpoint API to query information about an endpoint, with no specific scenarios involved.

URI

DELETE /v1/workspaces/{workspace_id}/endpoints/{endpoint_id}

Table 4-197 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
endpoint_id	Yes	String	Definition: Endpoint ID. For how to obtain an endpoint ID, see [Obtaining an Endpoint ID] (dataartsfabric_03_0023.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-198 Query Parameters

Parameter	Mandatory	Type	Description
is_delete_app_instance	No	Boolean	Definition: Whether to delete all running job instances of a Ray endpoint upon its deletion. Constraints: N/A. Range: true or false. Default Value: false.

Request Parameters

Table 4-199 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 202

Table 4-200 Response body parameters

Parameter	Type	Description
id	String	Definition: endpoint ID. Constraints: N/A. Range: N/A. Default Value: N/A.

Status code: 400**Table 4-201** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-202** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-203** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-204** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
DELETE https://{endpoint}/v1/workspaces/{workspace_id}/endpoints/{endpoint_id}
```

Example Responses

Status code: 202

An endpoint is deleted.

```
{
  "id" : "ac8111bf-3601-4905-8ddd-b41d3e636a4e"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
}
```

```
{  
  "error_msg" : "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code" : "common.00000500",  
  "error_msg" : "internal error"  
}
```

Status Codes

Status Code	Description
202	An endpoint is deleted.
400	BadRequest
401	Unauthorized
403	Forbidden
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.6.6 Subscribing to an Endpoint

Function

This API is used to enable an endpoint. You can call this API to enable a public endpoint by specifying the endpoint ID. The operation result will then be returned. This API is synchronous with no accompanying APIs or specific scenarios.

URI

POST /v1/workspaces/{workspace_id}/endpoints/{endpoint_id}/subscribe

Table 4-205 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
endpoint_id	Yes	String	Definition: Endpoint ID. For how to obtain an endpoint ID, see [Obtaining an Endpoint ID] (dataartsfabric_03_0023.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-206 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-207 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400**Table 4-208** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-209** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-210** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-211** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-212 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
PUT https://{endpoint}/v1/workspaces/{workspace_id}/endpoints/{endpoint_id}/subscribe
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
}
```

```
"error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.7 Model Definition

4.7.1 Creating a Model

Function

This API is used to create a model. You can call this API to create a model by specifying the name, description, version name, version description, base model type, and OBS path of the model. The API then returns the model ID and version ID. This is an asynchronous API. It is used in conjunction with the ListModels API to query the model list. This API performs duplicate name verification and does not support creating models with identical names.

URI

POST /v1/workspaces/{workspace_id}/models

Table 4-213 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-214 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-215 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Model name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	No	String	Definition: Description. Constraints: N/A. Range: [0, 1024]. Default Value: N/A.
type	Yes	String	Definition: Model type. Constraints: N/A. Range: LLM_MODEL (large language model). Default Value: N/A.
version	Yes	ModelVersionInput object	Definition: Details of each model version. Constraints: N/A.

Table 4-216 ModelVersionInput

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Model version name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	No	String	Definition: Description. Constraints: N/A. Range: N/A. Default Value: N/A.
config	No	ModelConfig object	Definition: Model configuration. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-217 ModelConfig

Parameter	Mandatory	Type	Description
llm_model_config	No	LlmModelConfig object	Definition: LLM configuration. Constraints: N/A.

Table 4-218 LlmModelConfig

Parameter	Mandatory	Type	Description
base_model_type	Yes	String	Definition: Base model type. Constraints: N/A. Range: For how to obtain a base model type, see [Listing Base Models] (ListBaseModels.xml). Default Value: N/A.

Parameter	Mandatory	Type	Description
model_path	No	String	Definition: Model file path. Constraints: Only valid OBS paths are allowed. Range: N/A. Default Value: N/A.
local_model_path	No	String	Definition: Local model file path. Constraints: Only local model file paths are allowed. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-219 Response body parameters

Parameter	Type	Description
id	String	Definition: Model ID. For how to obtain a model ID, see [Obtaining a Model ID] (dataartsfabric_03_0024.xml). Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
version_id	String	Definition: Model version ID. Constraints: This ID is automatically generated by the system and cannot be changed. If you enter an ID, the input does not take effect. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Status code: 400

Table 4-220 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-221** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-222 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-223** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-224 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Create a model. The name is **LLama3-8b**, the description is **description**, and the type is **LLM_MODEL**. The following is an example request of version information.

```
POST https://{endpoint}/v1/workspaces/{workspace_id}/models
{
  "name" : "LLama3-8b",
  "description" : "description",
  "type" : "LLM_MODEL",
  "version" : {
    "name" : "name",
    "description" : "description",
    "config" : {
      "llm_model_config" : {
        "base_model_type" : "string",
        "model_path" : "obs://bucketname/objectdir/modelpath/"
      }
    }
  }
}
```

Example Responses

Status code: 200

A model is created.

```
{
  "id" : "ac8111bf-3601-4905-8ddd-b41d3e636a4e"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
}
```

```
"error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,  
cause: TypeMismatchException"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "APIG.1002",  
  "error_msg" : "Incorrect token or token resolution failed"  
}
```

Status code: 403

Forbidden

```
{  
  "error" : {  
    "code" : "403",  
    "message" : "X-Auth-Token is invalid in the request",  
    "title" : "Forbidden"  
  },  
  "error_code" : 403,  
  "error_msg" : "X-Auth-Token is invalid in the request",  
  "title" : "Forbidden"  
}
```

Status code: 404

NotFound

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "response status exception, code: 404"  
}
```

Status code: 408

Request Time-out

```
{  
  "error_code" : "common.00000408",  
  "error_msg" : "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code" : "common.00000500",  
  "error_msg" : "internal error"  
}
```

Status Codes

Status Code	Description
200	A model is created.
400	BadRequest
401	Unauthorized

Status Code	Description
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.7.2 Querying the Model List

Function

This API is used to list models. You can call this API to query the model list. The API supports paginated queries and queries by name, ID, or type. It also lets you sort search results. The API returns a list of models that meet the filter criteria. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/workspaces/{workspace_id}/models

Table 4-225 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-226 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
name	No	String	Definition: Model name, allowing you to search for models by their name. Fuzzy search is supported. Constraints: N/A. Range: 1 to 128 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
id	No	String	Definition: Model ID, allowing you to search for models by their ID. Constraints: N/A. Range: [32, 36]. Only letters, digits, and hyphens (-) are allowed. For how to obtain a model ID, see [Obtaining a Model ID] (dataartsfabric_03_0024.xml). Default Value: N/A.
type	No	String	Definition: Model type, allowing you to search for models by their type. Constraints: N/A. Range: 1 to 128 characters. Default Value: N/A.

Parameter	Mandatory	Type	Description
visibility	No	String	Definition: Visibility search parameter. Constraints: N/A. Range: • PRIVATE: private, created by users. • PUBLIC: Query all public objects, including those created by other users. • ALL: All. • Default Value: By default, this parameter is left blank. If left blank, the visibility of the current user is queried, including PRIVATE and PUBLIC.
sort_by	No	String	Definition: Sorting field. Constraints: N/A. Range: • CREATE_TIME: creation time (default value); • UPDATE_TIME: update time; • NAME: service name. Default Value: N/A.
order_by	No	String	Definition: Sorting mode. Constraints: N/A. Range: • ASC: ascending order; • DESC: descending order. Default Value: DESC.

Request Parameters

Table 4-227 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-228 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of models that meet the filter criteria. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.
models	Array of ModelInfo objects	Definition: Total number of models that meet the filter criteria. Constraints: [0,1000].

Table 4-229 ModelInfo

Parameter	Type	Description
visibility	String	Definition: Visibility. Constraints: N/A. Range: • PRIVATE; • PUBLIC. Default Value: PRIVATE.

Parameter	Type	Description
id	String	Definition: Model ID. For how to obtain a model ID, see [Obtaining a Model ID] (dataartsfabric_03_0024.xml). Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
name	String	Definition: Model name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	String	Definition: Description. Constraints: N/A. Range: [0, 1024]. Default Value: N/A.
type	String	Definition: Model type. Constraints: N/A. Range: LLM_MODEL (large language model). Default Value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.
update_time	String	Definition: Update time. Constraints: N/A. Range: N/A. Default Value: N/A.
current_version	ModelVersionInfo object	Definition: Model version details. Constraints: N/A.
create_user	User object	Definition: Tenant information, including the account name, account ID, username, and user ID. Constraints: N/A.

Parameter	Type	Description
update_user	User object	Definition: Tenant information, including the account name, account ID, username, and user ID. Constraints: N/A.

Table 4-230 ModelVersionInfo

Parameter	Type	Description
id	String	Definition: Model version ID. Constraints: This ID is automatically generated by the system and cannot be changed. If you enter an ID, the input does not take effect. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
name	String	Definition: Model version name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
cap_white_list	Array of strings	Definition: Image package whitelist. Constraints: [0, 100].
description	String	Definition: Description. Constraints: N/A. Range: [0, 1024]. Default Value: N/A.
config	ModelConfig object	Definition: Model configuration. Constraints: N/A. Range: N/A. Default Value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Type	Description
create_user	User object	Definition: Tenant information, including the account name, account ID, username, and user ID. Constraints: N/A.

Table 4-231 ModelConfig

Parameter	Type	Description
llm_model_config	LlmModelConfig object	Definition: LLM configuration. Constraints: N/A.

Table 4-232 LlmModelConfig

Parameter	Type	Description
base_model_type	String	Definition: Base model type. Constraints: N/A. Range: For how to obtain a base model type, see [Listing Base Models] (ListBaseModels.xml). Default Value: N/A.
model_path	String	Definition: Model file path. Constraints: Only valid OBS paths are allowed. Range: N/A. Default Value: N/A.
local_model_path	String	Definition: Local model file path. Constraints: Only local model file paths are allowed. Range: N/A. Default Value: N/A.

Table 4-233 User

Parameter	Type	Description
domain_name	String	Definition: Account name. Constraints: N/A. Range: 0 to 64 characters. Default Value: N/A.
domain_id	String	Definition: Account ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
user_name	String	Definition: Username. Constraints: N/A. Range: 0 to 64 characters. Default Value: N/A.
user_id	String	Definition: User ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Status code: 400**Table 4-234** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-235** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-236** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-237 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-238 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/workspaces/{workspace_id}/models

Example Responses

Status code: 200

The model list is queried.

```
{
  "total" : 10,
  "models" : [ {
    "visibility" : "PRIVATE",
    "id" : "0b5633ba2b904511ad514346f4d23d4b",
    "name" : "LLama3-8b",
    "description" : "description",
    "type" : "LLM_MODEL",
    "create_time" : "2023-05-30T12:24:30.401Z",
    "update_time" : "2023-05-30T12:24:30.401Z",
    "current_version" : {
      "id" : "0b5633ba2b904511ad514346f4d23d4b",
      "name" : "name",
      "cap_white_list" : [ "cap1 cap2 ca* cap*" ],
      "description" : "description",
      "config" : {
        "llm_model_config" : {
          "base_model_type" : "string",
          "model_path" : "obs://bucketname/objectdir/modelpath/"
        }
      },
      "create_time" : "2023-05-30T12:24:30.401Z",
      "create_user" : {
        "domain_name" : "string",
        "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
        "user_name" : "string",
        "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
      }
    },
    "create_user" : {
      "domain_name" : "string",
      "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
      "user_name" : "string",
      "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
    },
    "update_user" : {
      "domain_name" : "string",
      "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
      "user_name" : "string",
      "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
    }
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error": {
    "code": "403",
    "message": "X-Auth-Token is invalid in the request",
    "title": "Forbidden"
  },
  "error_code": 403,
  "error_msg": "X-Auth-Token is invalid in the request",
  "title": "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code": "common.01000001",
  "error_msg": "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code": "common.00000408",
  "error_msg": "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code": "common.00000500",
  "error_msg": "internal error"
}
```

Status Codes

Status Code	Description
200	The model list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.7.3 Listing Base Models

Function

This API is used to list base models. You can use this API to query the base model list. This API supports pagination queries. A list of base models that meet the filter criteria is returned. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/base-models

Table 4-239 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 10000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.

Request Parameters

Table 4-240 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-241 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of base models that meet the filter criteria. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.
models	Array of BaseModel objects	Definition: Base model list. Constraints: [0,1000].

Table 4-242 BaseModel

Parameter	Type	Description
base_model_type	String	Definition: Base model type. Constraints: N/A. Range: For how to obtain a base model type, see [Listing Base Models] (ListBaseModels.xml). Default Value: N/A.

Parameter	Type	Description
max_tokens	Integer	Definition: Maximum number of tokens supported. Constraints: N/A. Range: The minimum value is 1 . Default Value: N/A.
num_of_mu	Integer	Definition: Number of consumed MUs. Constraints: N/A. Range: [1, 128]. Default Value: N/A.

Status code: 400**Table 4-243** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-244 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-245** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-246 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-247** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/base-models

Example Responses

Status code: 200

The base model list is queried.

```
{
  "total" : 1,
  "models" : [ {
    "base_model_type" : "string",
    "max_tokens" : 1,
    "num_of_mu" : 128
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	The base model list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.7.4 Deleting a Specified Version of a Model

Function

This API is used to delete a specified version of a model. If the version is currently in use, it cannot be deleted. You must first delete the inference service that uses the model before deleting the version. You can delete a model version by calling this API. This API is synchronous with no accompanying APIs.

URI

DELETE /v1/workspaces/{workspace_id}/models/{model_id}/versions/{version_id}

Table 4-248 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
model_id	Yes	String	Definition: Model ID. For how to obtain a model ID, see [Obtaining a Model ID] (dataartsfabric_03_0024.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
version_id	Yes	String	Definition: Version ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-249 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 202

Table 4-250 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400

Table 4-251 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-252 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-253** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-254** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-255 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
DELETE https://{endpoint}/v1/workspaces/{workspace_id}/models/{model_id}/versions/{version_id}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
202	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound

Status Code	Description
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.7.5 Updating Model Information

Function

This API is used to update a model and generate a new version. You can call this API to update model information, including the name, description, and current version ID. It allows you to add a new version by passing in the version name, description, base model type, and model address. This is an asynchronous API. It is used in conjunction with the ListModelVersions API to check the model version information. If the version failed, it cannot be updated to the current version. The model path must exist when a model is added. Otherwise, an error will be reported.

URI

PUT /v1/workspaces/{workspace_id}/models/{model_id}

Table 4-256 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
model_id	Yes	String	Definition: Model ID. For how to obtain a model ID, see [Obtaining a Model ID] (dataartsfabric_03_0024.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-257 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-258 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Model name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	No	String	Definition: Description. Constraints: N/A. Range: [0, 1024]. Default Value: N/A.

Parameter	Mandatory	Type	Description
current_version_id	No	String	Definition: Model version ID. Constraints: This ID is automatically generated by the system and cannot be changed. If you enter an ID, the input does not take effect. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
version	No	ModelVersionInput object	Definition: Details of each model version. Constraints: N/A.

Table 4-259 ModelVersionInput

Parameter	Mandatory	Type	Description
name	Yes	String	Definition: Model version name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	No	String	Definition: Description. Constraints: N/A. Range: N/A. Default Value: N/A.
config	No	ModelConfig object	Definition: Model configuration. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-260 ModelConfig

Parameter	Mandatory	Type	Description
llm_model_config	No	LlmModelConfig object	Definition: LLM configuration. Constraints: N/A.

Table 4-261 LlmModelConfig

Parameter	Mandatory	Type	Description
base_model_type	Yes	String	Definition: Base model type. Constraints: N/A. Range: For how to obtain a base model type, see [Listing Base Models] (ListBaseModels.xml). Default Value: N/A.
model_path	No	String	Definition: Model file path. Constraints: Only valid OBS paths are allowed. Range: N/A. Default Value: N/A.
local_model_path	No	String	Definition: Local model file path. Constraints: Only local model file paths are allowed. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

A model is updated.

Status code: 400

Table 4-262 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-263** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-264 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-265** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-266 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Update a model. The name is **LLama3-8b**, the description is **description**, and the current version ID is **0b5633ba2b904511ad514346f4d23d4b**. The following is an example of the configuration for generating a new version.

PUT https://{endpoint}/v1/workspaces/{workspace_id}/models/{model_id}

```
{
  "name" : "LLama3-8b",
  "description" : "description",
  "current_version_id" : "0b5633ba2b904511ad514346f4d23d4b",
  "version" : {
    "name" : "name",
    "description" : "description",
    "config" : {
      "llm_model_config" : {
        "base_model_type" : "string",
        "model_path" : "obs://bucketname/objectdir/modelpath/"
      }
    }
  }
}
```

Example Responses

Status code: 200

A model is updated.

```
{
  "visibility" : "PRIVATE",
  "id" : "0b5633ba2b904511ad514346f4d23d4b",
  "name" : "LLama3-8b",
  "description" : "description",
  "type" : "LLM_MODEL",
  "create_time" : "2023-05-30T12:24:30.401Z",
  "update_time" : "2023-05-30T12:24:30.401Z",
}
```

```
"current_version" : {
  "id" : "0b5633ba2b904511ad514346f4d23d4b",
  "name" : "name",
  "cap_white_list" : [ "cap1 cap2 ca* cap*" ],
  "description" : "description",
  "config" : {
    "llm_model_config" : {
      "base_model_type" : "string",
      "model_path" : "obs://bucketname/objectdir/modelpath/"
    }
  },
  "create_time" : "2023-05-30T12:24:30.401Z",
  "create_user" : {
    "domain_name" : "string",
    "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
    "user_name" : "string",
    "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
  },
  "update_user" : {
    "domain_name" : "string",
    "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
    "user_name" : "string",
    "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
  },
  "new_version" : {
    "id" : "0b5633ba2b904511ad514346f4d23d4b",
    "name" : "name",
    "cap_white_list" : [ "cap1 cap2 ca* cap*" ],
    "description" : "description",
    "config" : {
      "llm_model_config" : {
        "base_model_type" : "string",
        "model_path" : "obs://bucketname/objectdir/modelpath/"
      }
    },
    "create_time" : "2023-05-30T12:24:30.401Z",
    "create_user" : {
      "domain_name" : "string",
      "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
      "user_name" : "string",
      "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
    }
  }
}
```

Status code: 400**BadRequest**

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401**Unauthorized**

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error": {
    "code": "403",
    "message": "X-Auth-Token is invalid in the request",
    "title": "Forbidden"
  },
  "error_code": 403,
  "error_msg": "X-Auth-Token is invalid in the request",
  "title": "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code": "common.01000001",
  "error_msg": "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code": "common.00000408",
  "error_msg": "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code": "common.00000500",
  "error_msg": "internal error"
}
```

Status Codes

Status Code	Description
200	A model is updated.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.7.6 Checking the Model Version List

Function

This API is used to query the model version list. You can call this API to query the model version list. The API supports paginated queries and queries by name or ID. The API returns a list of model versions that meet the filter criteria. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/workspaces/{workspace_id}/models/{model_id}/versions

Table 4-267 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
model_id	Yes	String	Definition: Model ID. For how to obtain a model ID, see [Obtaining a Model ID] (dataartsfabric_03_0024.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-268 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
version_id	No	String	Definition: Model version ID. Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
name	No	String	Definition: Model version name. Fuzzy search is supported. Constraints: N/A. Range: 4 to 32 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.

Request Parameters

Table 4-269 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-270 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of versions that meet the filter criteria. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.
versions	Array of ModelVersionInfo objects	Definition: Model version list. Constraints: [0, 10000].

Table 4-271 ModelVersionInfo

Parameter	Type	Description
id	String	Definition: Model version ID. Constraints: This ID is automatically generated by the system and cannot be changed. If you enter an ID, the input does not take effect. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
name	String	Definition: Model version name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
cap_white_list	Array of strings	Definition: Image package whitelist. Constraints: [0, 100].
description	String	Definition: Description. Constraints: N/A. Range: [0, 1024]. Default Value: N/A.
config	ModelConfig object	Definition: Model configuration. Constraints: N/A. Range: N/A. Default Value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.
create_user	User object	Definition: Tenant information, including the account name, account ID, username, and user ID. Constraints: N/A.

Table 4-272 ModelConfig

Parameter	Type	Description
llm_model_config	LlmModelConfig object	Definition: LLM configuration. Constraints: N/A.

Table 4-273 LlmModelConfig

Parameter	Type	Description
base_model_type	String	Definition: Base model type. Constraints: N/A. Range: For how to obtain a base model type, see [Listing Base Models] (ListBaseModels.xml). Default Value: N/A.
model_path	String	Definition: Model file path. Constraints: Only valid OBS paths are allowed. Range: N/A. Default Value: N/A.
local_model_path	String	Definition: Local model file path. Constraints: Only local model file paths are allowed. Range: N/A. Default Value: N/A.

Table 4-274 User

Parameter	Type	Description
domain_name	String	Definition: Account name. Constraints: N/A. Range: 0 to 64 characters. Default Value: N/A.
domain_id	String	Definition: Account ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Type	Description
user_name	String	Definition: Username. Constraints: N/A. Range: 0 to 64 characters. Default Value: N/A.
user_id	String	Definition: User ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Status code: 400**Table 4-275** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-276** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-277** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-278** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-279 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/v1/workspaces/{workspace_id}/models/{model_id}/versions
```

Example Responses

Status code: 200

The model version list is queried.

```
{
  "total" : 1,
  "versions" : [ {
    "id" : "0b5633ba2b904511ad514346f4d23d4b",
    "name" : "name",
```

```
"cap_white_list" : [ "cap1 cap2 ca* cap*" ],
"description" : "description",
"config" : {
  "llm_model_config" : {
    "base_model_type" : "string",
    "model_path" : "obs://bucketname/objectdir/modelpath/"
  }
},
"create_time" : "2023-05-30T12:24:30.401Z",
"create_user" : {
  "domain_name" : "string",
  "domain_id" : "0b5633ba2b904511ad514346f4d23d4b",
  "user_name" : "string",
  "user_id" : "0b5633ba2b904511ad514346f4d23d4b"
}
}]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	The model version list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error CodesSee [Error Codes](#).**4.7.7 Deleting Unused Model Definitions****Function**

This API is used to delete unused model definitions. You can delete a model by calling this API. This API is synchronous with no accompanying APIs. If a version of a model is in use, the model cannot be deleted. You must first delete the inference service that uses the model version before deleting the model.

URI

DELETE /v1/workspaces/{workspace_id}/models/{model_id}

Table 4-280 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
model_id	Yes	String	Definition: ID of an inference model. For how to obtain a model ID, see [Obtaining a Model ID] (dataartsfabric_03_0024.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-281 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-282 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400**Table 4-283** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-284** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-285** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-286** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-287 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
DELETE https://{endpoint}/v1/workspaces/{workspace_id}/models/{model_id}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
}
```

```
"error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.8 TMS Management

4.8.1 Querying Project Tags

Function

This API is used to query project tags. You can call this API to query the tags that have been used in a project by inputting predefined tags (when set to **true**, predefined tags can be queried). This API outputs project tags. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/{project_id}/fabric-workspace/tags

Table 4-288 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For how to obtain a project ID, see [Obtaining a Project ID] (dataartsfabric_03_0020.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-289 Query Parameters

Parameter	Mandatory	Type	Description
use_predefine_tags	Yes	Boolean	Definition: Whether to use predefined tags. Constraints: N/A. Range: true (yes) or false (no). Default Value: false .

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Number of records to be queried. Constraints: N/A. Range: [1, 1000]. Default Value: 1000.

Request Parameters

Table 4-290 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-291 Response header parameters

Parameter	Type	Description
X-request-id	String	Definition: Request ID. Constraints: The value cannot be changed. Range: N/A. Default Value: N/A.

Table 4-292 Response body parameters

Parameter	Type	Description
tags	Array of ResourceTagParam objects	Definition: Tag list. Constraints: [0, 100000].

Table 4-293 ResourceTagParam

Parameter	Type	Description
key	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: N/A. Default Value: N/A.
values	Array of strings	Definition: Resource tag value list. Constraints: N/A.

Status code: 400**Table 4-294** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-295 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-296** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-297 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/{project_id}/fabric-workspace/tags

Example Responses

Status code: 200

OK

```
{
  "tags" : [ {
    "key" : "tag_key",
    "values" : [ "tag_value" ]
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error": {
    "code": "403",
    "message": "X-Auth-Token is invalid in the request",
    "title": "Forbidden"
  },
  "error_code": 403,
  "error_msg": "X-Auth-Token is invalid in the request",
  "title": "Forbidden"
}
```

Status code: 408

Request Time-out

```
{
  "error_code": "common.00000408",
  "error_msg": "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code": "common.00000500",
  "error_msg": "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
408	Request Time-out
500	InternalServerError

Error CodesSee [Error Codes](#).**4.8.2 Querying Resource Tags****Function**

This API is used to query the tags of a workspace. You can call this API to query the tags of a workspace. The API returns the tags of the workspace. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/{project_id}/fabric-workspace/{workspace_id}/tags

Table 4-298 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For how to obtain a project ID, see [Obtaining a Project ID] (dataartsfabric_03_0020.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-299 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Number of records to be queried. Constraints: N/A. Range: [1, 1000]. Default Value: 1000.

Request Parameters

Table 4-300 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-301 Response header parameters

Parameter	Type	Description
X-request-id	String	Definition: Request ID. Constraints: The value cannot be changed. Range: N/A. Default Value: N/A.

Table 4-302 Response body parameters

Parameter	Type	Description
tags	Array of ResourceTag objects	Definition: Resource tag list. Constraints: [0, 100000].
sys_tags	Array of SystemTag objects	Definition: System tag list. Constraints: [0, 1].

Table 4-303 ResourceTag

Parameter	Type	Description
key	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: 1 to 128 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.
value	String	Definition: Resource tag value. Constraints: N/A. Range: 0 to 255 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.

Table 4-304 SystemTag

Parameter	Type	Description
key	String	Definition: Tag key. Constraints: The value is fixed. Range: The value is fixed at <code>_sys_enterprise_project_id</code> . Default Value: N/A.
value	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: N/A. Range: N/A. Default Value: N/A.

Status code: 400

Table 4-305 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-306** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-307 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-308 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/{project_id}/fabric-workspace/{workspace_id}/tags

Example Responses

Status code: 200

OK

```
{
  "tags" : [ {
    "key" : "key1",
    "value" : "value1"
  } ],
  "sys_tags" : [ {
    "key" : "_sys_enterprise_project_id",
    "value" : "01049549-82cd-4b2b-9733-ddb94350c125"
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.8.3 Querying the Resource Instance List

Function

This API is used to query workspaces by tag. If **without_any_tag** is set to **true**, resources without tags are queried and the **tags** field is ignored. If set to **false** or is not specified, resources are queried by **tags** or **matches**. **tags** can contain up to 20 keys. Each key can have up to 20 values. Keys must be unique. Values can be empty, but the structure cannot be missing. **matches** supports exact or fuzzy search of specific fields. This API returns the workspaces that meet the filter criteria.

URI

POST /v1/{project_id}/fabric-workspace/resource-instances/filter

Table 4-309 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For how to obtain a project ID, see [Obtaining a Project ID] (dataartsfabric_03_0020.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-310 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.

Request Parameters

Table 4-311 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-312 Request body parameters

Parameter	Mandatory	Type	Description
without_any_tag	No	Boolean	Definition: No tags are included. If set to true , all resources without tags are queried. In this case, the tags , tags_any , not_tags , and not_tags_any fields are ignored. Constraints: N/A. Range: true or false . Default Value: N/A.
tags	No	Array of ResourceTagParam objects	Definition: Tags are included. Each tag contains a maximum of 50 keys. Each key can have up to 10 values. The value corresponding to each key can be an empty array, but the structure cannot be missing. Constraints: [1, 20].
matches	No	Array of TagMatch objects	Definition: Search field. key indicates the field to be matched, for example, resource_name . value indicates the matched value. Constraints: [1, 10].
sys_tags	No	Array of SystemTagParam objects	Definition: system tag list. Only one tag structure is included currently. Each key contains only one value. Constraints: 1.

Table 4-313 ResourceTagParam

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: N/A. Default Value: N/A.
values	No	Array of strings	Definition: Resource tag value list. Constraints: N/A.

Table 4-314 TagMatch

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Tag key. Constraints: N/A. Range: resource_name. Default Value: resource_name.
value	No	String	Definition: Resource tag value. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-315 SystemTagParam

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Tag key. Constraints: The value is fixed. Range: The value is fixed at _sys_enterprise_project_id. Default Value: N/A.

Parameter	Mandatory	Type	Description
values	Yes	Array of strings	Definition: Value list of the system tag. Constraints: The value is fixed.

Response Parameters

Status code: 200

Table 4-316 Response header parameters

Parameter	Type	Description
X-request-id	String	Definition: Request ID. Constraints: The value cannot be changed. Range: N/A. Default Value: N/A.

Table 4-317 Response body parameters

Parameter	Type	Description
resources	Array of TagFabricWorkspace objects	Definition: Resource list. Constraints: [0,1000].
total_count	Integer	Definition: Total number of resources. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.

Table 4-318 TagFabricWorkspace

Parameter	Type	Description
resource_id	String	Definition: Workspace ID. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Type	Description
resource_detail	Object	Definition: Resource details. The value is a resource object, used for extension. This parameter is left blank by default. Constraints: N/A.
resource_name	String	Definition: Workspace name. Constraints: N/A. Range: N/A. Default Value: N/A.
tags	Array of ResourceTag objects	Definition: Tag list. If there is no tag in the list, an empty array is returned by default. Constraints: [0, 100000].
sys_tags	Array of SystemTag objects	Definition: System tag. Constraints: N/A.

Table 4-319 ResourceTag

Parameter	Type	Description
key	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: 1 to 128 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.
value	String	Definition: Resource tag value. Constraints: N/A. Range: 0 to 255 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.

Table 4-320 SystemTag

Parameter	Type	Description
key	String	Definition: Tag key. Constraints: The value is fixed. Range: The value is fixed at <code>_sys_enterprise_project_id</code> . Default Value: N/A.
value	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: N/A. Range: N/A. Default Value: N/A.

Status code: 400**Table 4-321** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-322 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-323** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-324 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Query the resources with the **tag_key** tag. The following is an example request.

```
POST https://{endpoint}/v1/{project_id}/fabric-workspace/resource-instances/filter
{
  "without_any_tag" : false,
  "tags" : [ {
    "key" : "tag_key",
    "values" : [ "tag_value" ]
  } ],
  "matches" : [ {
    "key" : "resource_name",
    "value" : "tag_value"
  } ],
  "sys_tags" : ""
}
```

Example Responses

Status code: 200

OK

```
{
  "resources" : [ {
    "resource_id" : "01049549-82cd-4b2b-9733-ddb94350c125",
    "resource_detail" : { },
    "resource_name" : "resource_name",
    "tags" : [ {
      "key" : "key1",
      "value" : "value1"
    } ],
    "sys_tags" : [ {
      "key" : "_sys_enterprise_project_id",
      "value" : "01049549-82cd-4b2b-9733-ddb94350c125"
    } ]
  } ]
}
```

```
  }],  
  "total_count" : 1  
}
```

Status code: 400

BadRequest

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,  
cause: TypeMismatchException"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "APIG.1002",  
  "error_msg" : "Incorrect token or token resolution failed"  
}
```

Status code: 403

Forbidden

```
{  
  "error" : {  
    "code" : "403",  
    "message" : "X-Auth-Token is invalid in the request",  
    "title" : "Forbidden"  
  },  
  "error_code" : 403,  
  "error_msg" : "X-Auth-Token is invalid in the request",  
  "title" : "Forbidden"  
}
```

Status code: 408

Request Time-out

```
{  
  "error_code" : "common.00000408",  
  "error_msg" : "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code" : "common.00000500",  
  "error_msg" : "internal error"  
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized

Status Code	Description
403	Forbidden
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.8.4 Querying the Number of Resource Instances

Function

This API is used to query the number of workspaces by tag. If **without_any_tag** is set to **true**, resources without tags are queried, and the **tags** field is ignored. If **without_any_tag** is set to **false** or is not provided, resources are queried by **tags** and **matches**. **tags** can contain up to 20 keys. Each key can have up to 20 values. Keys must be unique. Values can be empty, but the structure cannot be missing. **matches** supports exact or fuzzy search of specific fields. This API returns the number of workspaces that meet the filter criteria.

URI

POST /v1/{project_id}/fabric-workspace/resource-instances/count

Table 4-325 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For how to obtain a project ID, see [Obtaining a Project ID] (dataartsfabric_03_0020.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-326 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-327 Request body parameters

Parameter	Mandatory	Type	Description
without_any_tag	No	Boolean	Definition: No tags are included. If set to true , all resources without tags are queried. In this case, the tags , tags_any , not_tags , and not_tags_any fields are ignored. Constraints: N/A. Range: true or false . Default Value: N/A.
tags	No	Array of ResourceTagParam objects	Definition: Tags are included. Each tag contains a maximum of 50 keys. Each key can have up to 10 values. The value corresponding to each key can be an empty array, but the structure cannot be missing. Constraints: [1, 20].
matches	No	Array of TagMatch objects	Definition: Search field. key indicates the field to be matched, for example, resource_name . value indicates the matched value. Constraints: [1, 10].

Parameter	Mandatory	Type	Description
sys_tags	No	Array of SystemTagParam objects	Definition: system tag list. Only one tag structure is included currently. Each key contains only one value. Constraints: 1.

Table 4-328 ResourceTagParam

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: N/A. Default Value: N/A.
values	No	Array of strings	Definition: Resource tag value list. Constraints: N/A.

Table 4-329 TagMatch

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Tag key. Constraints: N/A. Range: resource_name. Default Value: resource_name.
value	No	String	Definition: Resource tag value. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-330 SystemTagParam

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Tag key. Constraints: The value is fixed. Range: The value is fixed at <code>_sys_enterprise_project_id</code> . Default Value: N/A.
values	Yes	Array of strings	Definition: Value list of the system tag. Constraints: The value is fixed.

Response Parameters

Status code: 200

Table 4-331 Response header parameters

Parameter	Type	Description
X-request-id	String	Definition: Request ID, which is used as auxiliary information for locating resource instances. Constraints: The value cannot be changed. Range: N/A. Default Value: N/A.

Table 4-332 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of instances.

Status code: 400

Table 4-333 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-334** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-335 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-336** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-337 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Query the number of resources with the **tag_key** tag. The following is an example request.

```
POST https://{endpoint}/v1/{project_id}/fabric-workspace/resource-instances/count
{
  "without_any_tag" : false,
  "tags" : [ {
    "key" : "tag_key",
    "values" : [ "tag_value" ]
  } ],
  "matches" : [ {
    "key" : "resource_name",
    "value" : "tag_value"
  } ],
  "sys_tags" : ""
}
```

Example Responses

Status code: 200

OK

```
{
  "total_count" : 1
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
```

```
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden

Status Code	Description
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.8.5 Batch Tagging Resources

Function

This API is used to add tags to a workspace in batches. The input is to set **tags**, which is mandatory under tenant permissions. If the returned status code is 204, the operation is successful. Other codes indicate exceptions. This API is synchronous with no accompanying APIs. During tag creation, duplicate keys are not allowed. If a key already exists in the database, its value will be overwritten by the new duplicate key.

URI

POST /v1/{project_id}/fabric-workspace/{workspace_id}/tags/create

Table 4-338 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For how to obtain a project ID, see [Obtaining a Project ID] (dataartsfabric_03_0020.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-339 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-340 Request body parameters

Parameter	Mandatory	Type	Description
tags	No	Array of ResourceTag objects	Definition: Tag list. Constraints: [1, 20].
sys_tags	No	Array of SystemTag objects	Definition: System tag list. Constraints: 1.

Table 4-341 ResourceTag

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Resource tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: 1 to 128 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.
value	No	String	Definition: Resource tag value. Constraints: N/A. Range: 0 to 255 characters. Only letters, spaces, tabs, digits, underscores (_), periods (.), colons (:), backslashes (\), equal signs (=), plus signs (+), minus signs (-), and at signs (@) are allowed. Default Value: N/A.

Table 4-342 SystemTag

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Tag key. Constraints: The value is fixed. Range: The value is fixed at <code>_sys_enterprise_project_id</code> . Default Value: N/A.

Parameter	Mandatory	Type	Description
value	Yes	String	Definition: Enterprise project ID. For how to obtain an enterprise project ID, see [Obtaining an Enterprise Project ID] (dataartsfabric_03_0027.xml). Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 204

Table 4-343 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400

Table 4-344 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-345 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-346** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-347 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-348 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Add tags to a resource in batches. The following is an example request.

```
POST https://{endpoint}/v1/{project_id}/fabric-workspace/{workspace_id}/tags/create
{
```

```
"tags" : [ {  
  "key" : "key1",  
  "value" : "value1"  
} ],  
"sys_tags" : [ {  
  "key" : "_sys_enterprise_project_id",  
  "value" : "01049549-82cd-4b2b-9733-ddb94350c125"  
} ]  
}
```

Example Responses

Status code: 400

BadRequest

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,  
cause: TypeMismatchException"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "APIG.1002",  
  "error_msg" : "Incorrect token or token resolution failed"  
}
```

Status code: 403

Forbidden

```
{  
  "error" : {  
    "code" : "403",  
    "message" : "X-Auth-Token is invalid in the request",  
    "title" : "Forbidden"  
  },  
  "error_code" : 403,  
  "error_msg" : "X-Auth-Token is invalid in the request",  
  "title" : "Forbidden"  
}
```

Status code: 404

NotFound

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "response status exception, code: 404"  
}
```

Status code: 408

Request Time-out

```
{  
  "error_code" : "common.00000408",  
  "error_msg" : "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
204	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.8.6 Batch Deleting Resource Tags

Function

This API is used to delete tags from a workspace in batches. The input is to set **tags**, which is mandatory under tenant permissions. If the returned status code is 204, the operation is successful. Other codes indicate exceptions. This API is synchronous with no accompanying APIs. During tag deletion, if some tags to be deleted do not exist, the operation is considered as successful by default. The character set of the tags will not be verified. The tag structure cannot be missing, and the key cannot be left blank or an empty string.

URI

POST /v1/{project_id}/fabric-workspace/{workspace_id}/tags/delete

Table 4-349 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Definition: Project ID. For how to obtain a project ID, see [Obtaining a Project ID] (dataartsfabric_03_0020.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-350 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-351 Request body parameters

Parameter	Mandatory	Type	Description
tags	No	Array of DeleteResourceTag objects	Definition: Tag list in the batch deletion request body. Constraints: [1, 20].
sys_tags	No	Array of DeleteResourceTag objects	Definition: System tag list in the batch deletion request body. Constraints: 1.

Table 4-352 DeleteResourceTag

Parameter	Mandatory	Type	Description
key	Yes	String	Definition: Tag key. For details about how to obtain a tag key, see "API Description" > "Resource Tags" > "Querying Tag Keys" in Tag Management Service API Reference. Constraints: N/A. Range: N/A. Default Value: N/A.
value	No	String	Definition: Tag value. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-353 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400

Table 4-354 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-355** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-356 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-357** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-358 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Delete resource tags in batches. The following is an example request.

POST https://{endpoint}/v1/{project_id}/fabric-workspace/{workspace_id}/tags/delete

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

Example Responses

Status code: 400

BadRequest

```
{
  "error_code": "common.01000001",
  "error_msg": "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code": "APIG.1002",
  "error_msg": "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error": {
    "code": "403",
    "message": "X-Auth-Token is invalid in the request",
    "title": "Forbidden"
  },
  "error_code": 403,
  "error_msg": "X-Auth-Token is invalid in the request",
  "title": "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code": "common.01000001",
  "error_msg": "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code": "common.00000408",
  "error_msg": "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code": "common.00000500",
  "error_msg": "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.9 Message Management

4.9.1 Creating a Notification Policy

Function

This API is used to create a notification policy. You can call this API to create a message notification policy. After a job is complete, results will be sent as messages according to the matched notification policy. The API supports passing in SMN topics and job names matching regular expressions. This API is synchronous with no accompanying APIs or specific scenarios.

URI

POST /v1/workspaces/{workspace_id}/messages

Table 4-359 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-360 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-361 Request body parameters

Parameter	Mandatory	Type	Description
message_notification_policy_list	Yes	Array of CreateMessageNotificationPolicy objects	Definition: Notification policy. Constraints: N/A. Range: [0, 1000]. Default Value: N/A.

Table 4-362 CreateMessageNotificationPolicy

Parameter	Mandatory	Type	Description
message_type	Yes	String	Definition: Message type. Constraints: N/A. Range: • job: job execution result. Default Value: job .

Parameter	Mandatory	Type	Description
name_pattern	Yes	String	Definition: Name pattern, which is used to match all messages that match this pattern within the message type. For example, if message_type is set to job and name_pattern is set to ray_job* , messages sent by all jobs starting with ray_job are matched. Constraints: N/A. Range: N/A. Default Value: N/A.
notification_types	Yes	Array of strings	Definition: Notification type. Constraints: SUCCESS (successful notification) or FAILED (failed notification).
topic_urn	Yes	String	Definition: Notification topic. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-363 Response body parameters

Parameter	Type	Description
id	String	Definition: Notification policy ID. Constraints: N/A. Range: N/A. Default Value: N/A.
message_type	String	Definition: Message type. Constraints: N/A. Range: job: job execution result. Default Value: job .

Parameter	Type	Description
name_pattern	String	Definition: Name pattern, which is used to match all messages that match this pattern within the message type. For example, if message_type is set to job and name_pattern is set to ray_job* , all messages sent by jobs starting with ray_job are matched. Constraints: N/A. Range: N/A. Default Value: N/A.
notification_types	Array of strings	Definition: Notification type. SUCCESS: successful notification; FAILED: failed notification. Constraints: [1, 2].
topic_urn	String	Definition: Notification topic. Constraints: N/A. Range: N/A. Default Value: N/A.

Status code: 400**Table 4-364** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-365 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-366** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-367 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-368 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Create a notification policy. The following is an example request.

```
POST https://{endpoint}/v1/workspaces/{workspace_id}/messages
{
```

```
"message_notification_policy_list" : [ {  
  "message_type" : "job",  
  "name_pattern" : "ray_job*",  
  "notification_types" : [ "SUCCESS", "FAILED" ],  
  "topic_urn" : "smn:topic:xxxxxxx"  
} ]  
}
```

Example Responses

Status code: 200

A notification policy is created.

```
{  
  "id" : "ray_job_123456789",  
  "message_type" : "job",  
  "name_pattern" : "ray_job*",  
  "notification_types" : [ "SUCCESS", "FAILED" ],  
  "topic_urn" : "smn:topic:xxxxxxx"  
}
```

Status code: 400

BadRequest

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,  
cause: TypeMismatchException"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "APIG.1002",  
  "error_msg" : "Incorrect token or token resolution failed"  
}
```

Status code: 403

Forbidden

```
{  
  "error" : {  
    "code" : "403",  
    "message" : "X-Auth-Token is invalid in the request",  
    "title" : "Forbidden"  
  },  
  "error_code" : 403,  
  "error_msg" : "X-Auth-Token is invalid in the request",  
  "title" : "Forbidden"  
}
```

Status code: 404

NotFound

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "response status exception, code: 404"  
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	A notification policy is created.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.9.2 Querying the Notification Policy List

Function

This API is used to query notification policies. You can call this API to query the created notification policies. The API supports paginated queries based on the provided workspace ID and message matching pattern. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/workspaces/{workspace_id}/messages

Table 4-369 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-370 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
message_type	No	String	Definition: Message type. Constraints: The value cannot be changed. Range: job: job execution result message. Default Value: N/A.
name_pattern	No	String	Definition: Name pattern. Constraints: Fuzzy match is supported. The value is case-sensitive. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
notify_type	No	String	Definition: Message type. Constraints: N/A. Range: • SUCCESS: successful notification; • FAILED: failed notification. Default Value: N/A.

Request Parameters

Table 4-371 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-372 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of notification policies that meet the filter criteria. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.
policies	Array of MessageNotificationPolicy objects	Definition: Notification policy list. Constraints: [0, 10000].

Table 4-373 MessageNotificationPolicy

Parameter	Type	Description
id	String	Definition: Notification policy ID. Constraints: N/A. Range: N/A. Default Value: N/A.
message_type	String	Definition: Message type. Constraints: N/A. Range: • job: job execution result. Default Value: job .
name_pattern	String	Definition: Name pattern, which is used to match all messages that match this pattern within the message type. For example, if message_type is set to job and name_pattern is set to ray_job* , all messages sent by jobs starting with ray_job are matched. Constraints: N/A. Range: N/A. Default Value: N/A.
notification_types	Array of strings	Definition: Notification type. SUCCESS: successful notification; FAILED: failed notification. Constraints: [1, 2].
topic_urn	String	Definition: Notification topic. Constraints: N/A. Range: N/A. Default Value: N/A.

Status code: 400**Table 4-374** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-375** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-376** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-377** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-378** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/v1/workspaces/{workspace_id}/messages
```

Example Responses

Status code: 200

The notification policy list is queried.

```
{
  "total" : 1,
  "policies" : [ {
    "id" : "ray_job_123456789",
    "message_type" : "job",
    "name_pattern" : "ray_job*",
    "notification_types" : [ "SUCCESS", "FAILED" ],
    "topic_urn" : "smn:topic:xxxxxxx"
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
  }
}
```

```
{
  "title" : "Forbidden"
},
{
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	The notification policy list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.9.3 Deleting a Notification Policy

Function

This API is used to delete a notification policy. You can call this API to delete the created notification policies. This API is synchronous with no accompanying APIs or specific scenarios.

URI

DELETE /v1/workspaces/{workspace_id}/messages/{message_policy_id}

Table 4-379 Path Parameters

Parameter	Mandatory	Type	Description
message_policy_id	Yes	String	Definition: Notification policy ID. Constraints: N/A. Range: N/A. Default Value: N/A.
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-380 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

OK

Status code: 400

Table 4-381 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-382 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-383** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-384 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-385** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/v1/workspaces/{workspace_id}/messages/{message_policy_id}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.10 Monitoring Management

4.10.1 Updating the Configuration for AOM to Collect Monitoring Metrics

Function

This API is used to update the configuration for AOM to collect monitoring metrics in a workspace. This API is synchronous with no accompanying APIs or specific scenarios.

URI

PUT /v1/workspaces/{workspace_id}/metrics

Table 4-386 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. For how to obtain a workspace ID, see [Obtaining a Workspace ID] (dataartsfabric_03_0022.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-387 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-388 Request body parameters

Parameter	Mandatory	Type	Description
enable	Yes	Boolean	Definition: Whether to enable AOM to collect monitoring metrics. Constraints: N/A. Range: false (disabled) or true (enabled). Default Value: false .

Response Parameters

Status code: 200

Table 4-389 Response body parameters

Parameter	Type	Description
-	AnyType	OK

Status code: 400

Table 4-390 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-391 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-392** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-393** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Change the configuration for AOM to collect monitoring metrics in a workspace to **false**.

```
PUT https://{endpoint}/v1/workspaces/{workspace_id}/metrics
{
  "enable" : false
}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
408	Request Time-out
500	InternalServerError

Error CodesSee [Error Codes](#).

4.11 Access Client

4.11.1 Creating a VPC Endpoint Client

Function

This API is used to create a VPC endpoint client. VPC connects to APIG, allowing you to call DataArts Fabric APIs using private domain names. This API is synchronous with no accompanying APIs or specific scenarios.

URI

POST /v1/access-clients

Request Parameters

Table 4-394 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: Client name. Constraints: N/A. Range: 4 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
vpc_id	No	String	Definition: VPC ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
subnet_id	No	String	Definition: Subnet ID. The value is generated by the system when a subnet is created. Constraints: N/A. Range: 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
subnet_ids	No	Array of strings	Definition: Subnet group. Constraints: N/A. Range: [0, 100]. Default Value: N/A.
access_connections	No	Array of AccessConnectionRequest objects	Access connection list, which takes effect when the access mode is CUSTOM .

Table 4-395 AccessConnectionRequestBody

Parameter	Mandatory	Type	Description
vpcep_id	No	String	Definition: VPC endpoint ID. Choose Clients in the navigation pane on the left. Click Create to create a client for access management. On the displayed page, click Buy VPC Endpoint in the upper right corner to create a VPC endpoint. Then, you can check the VPC endpoint ID. Constraints: N/A. Range: [0, 64]. Default Value: N/A.
vpcep_service_name	No	String	Definition: VPC endpoint service name. Constraints: N/A. Range: [0, 64]. Default Value: N/A.
domain	No	String	Definition: Access domain name. When accessing a LakeFormation API using an IP address, you need to add the HOST parameter to the request header and pass in the domain name. Constraints: N/A. Range: [0, 100]. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-396 Response body parameters

Parameter	Type	Description
id	String	Definition: ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Type	Description
name	String	Definition: name. Constraints: N/A. Range: 1 to 64 characters. Only letters, numbers, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
status	String	Definition: Access status. Constraints: N/A. Range: • CREATING • RUNNING • DELETING • DELETED Default Value: N/A.
vpc_id	String	Definition: VPC ID of a service access client. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
subnet_ids	Array of strings	Definition: Subnet ID of a service access client. Use commas (,) to separate multiple subnets. Constraints: N/A. Range: [0, 100]. Default Value: N/A.
access_connections	Array of AccessConnectionInfo objects	Definition: Access connection list. Constraints: N/A. Range: [0, 100]. Default value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-397 AccessConnectionInfo

Parameter	Type	Description
vpcep_id	String	Definition: VPC endpoint ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.
subnet_id	String	Definition: Subnet ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.
domain	String	Definition: Access domain name. When accessing a DataArts Fabric API using an IP address, you need to add the HOST parameter to the request header and pass in the domain name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.
ip	String	Definition: IPv4 address. Constraints: Only IPv4 addresses are allowed. Range: N/A. Default value: N/A.
owner	String	Definition: Owner. Constraints: N/A. Range: [1, 64]. Default Value: N/A.

Status code: 400**Table 4-398** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-399** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-400** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-401** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-402** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Create a VPC endpoint client. The request configuration is shown in the example.

```
POST https://{endpoint}/v1/access-clients
{
  "name" : "zzh_test001",
  "vpc_id" : "050e154d-9954-4929-b6d3-12af7c9213ac",
  "subnet_id" : "string",
  "subnet_ids" : [ "0d86d58d-d864-47ce-8dbd-5487ff1d59ba" ],
  "access_connections" : [ {
    "vpcep_id" : "string",
    "vpcep_service_name" : "string",
    "domain" : "string"
  } ]
}
```

Example Responses

Status code: 200

An access client is created.

```
{
  "id" : "f7670aea-36a1-4bdf-ae99-963c33324370",
  "name" : "name",
  "status" : "RUNNING",
  "vpc_id" : "f18a378a-f26b-461d-985f-3f904e4cc544",
  "subnet_ids" : [ "1e9a3f25-0f1f-40c4-8ef9-e4a8dd4d1e53" ],
  "access_connections" : [ {
    "vpcep_id" : "1851896e-3731-4072-8b4a-33e38ed2207b",
    "domain" : "1e9a3f25-0f1f-40c4-8ef9-e4a8dd4d1e53",
    "ip" : "192.168.0.57",
    "owner" : "0676610f3a0a4c2c80c50bea7ddf18c1"
  } ],
  "create_time" : "2025-01-08T01:53:30.000+00:00"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	An access client is created.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound

Status Code	Description
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.11.2 Querying the VPC Endpoint Client List

Function

This API is used to query the access client list. You can query the list of created access clients and obtain the VPC endpoint private domain name. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/access-clients

Table 4-403 Query Parameters

Parameter	Mandatory	Type	Description
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.

Parameter	Mandatory	Type	Description
name	No	String	Definition: VPC endpoint client name, allowing you to search for VPC endpoint clients by their name. Fuzzy search is supported. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
id	No	String	Definition: VPC endpoint clients are searched for by ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, numbers, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-404 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-405 Response body parameters

Parameter	Type	Description
access_client_infos	Array of AccessClientInfo objects	Definition: VPC endpoint client information. Constraints: N/A. Range: [0, 100]. Default Value: N/A.
total	Integer	Definition: Number of records. Constraints: N/A. Range: [0, 100]. Default Value: N/A.

Table 4-406 AccessClientInfo

Parameter	Type	Description
id	String	Definition: ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
name	String	Definition: name. Constraints: N/A. Range: 1 to 64 characters. Only letters, numbers, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
status	String	Definition: Access status. Constraints: N/A. Range: • CREATING • RUNNING • DELETING • DELETED Default Value: N/A.

Parameter	Type	Description
vpc_id	String	Definition: VPC ID of a service access client. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
subnet_ids	Array of strings	Definition: Subnet ID of a service access client. Use commas (,) to separate multiple subnets. Constraints: N/A. Range: [0, 100]. Default Value: N/A.
access_connections	Array of AccessConnectionInfo objects	Definition: Access connection list. Constraints: N/A. Range: [0, 100]. Default value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-407 AccessConnectionInfo

Parameter	Type	Description
vpcep_id	String	Definition: VPC endpoint ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.
subnet_id	String	Definition: Subnet ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.

Parameter	Type	Description
domain	String	Definition: Access domain name. When accessing a DataArts Fabric API using an IP address, you need to add the HOST parameter to the request header and pass in the domain name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.
ip	String	Definition: IPv4 address. Constraints: Only IPv4 addresses are allowed. Range: N/A. Default value: N/A.
owner	String	Definition: Owner. Constraints: N/A. Range: [1, 64]. Default Value: N/A.

Status code: 400**Table 4-408** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401

Table 4-409 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-410** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408

Table 4-411 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-412** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

None

Example Responses

Status code: 200

The VPC endpoint client list is queried.

```
{
  "total" : 1,
  "access_client_infos" : [ {
    "id" : "f7670aea-36a1-4bdf-ae99-963c33324370",
    "name" : "name",
    "status" : "RUNNING",
    "vpc_id" : "f18a378a-f26b-461d-985f-3f904e4cc544",
    "subnet_ids" : [ "1e9a3f25-0f1f-40c4-8ef9-e4a8dd4d1e53" ],
    "access_connections" : [ {
      "vpcep_id" : "1851896e-3731-4072-8b4a-33e38ed2207b",
      "domain" : "1e9a3f25-0f1f-40c4-8ef9-e4a8dd4d1e53",
      "ip" : "192.168.0.57",
      "owner" : "0676610f3a0a4c2c80c50bea7ddf18c1"
    } ],
    "create_time" : "2025-01-08T01:53:30.000+00:00"
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500**InternalServerError**

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	The VPC endpoint client list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.11.3 Querying Details About a VPC Endpoint Client

Function

This API is used to query details about an access client. You can query details about an access client. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/access-clients/{client_id}

Table 4-413 Path Parameters

Parameter	Mandatory	Type	Description
client_id	Yes	String	Definition: VPC endpoint client ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, numbers, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-414 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-415 Response body parameters

Parameter	Type	Description
id	String	Definition: ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Type	Description
name	String	Definition: name. Constraints: N/A. Range: 1 to 64 characters. Only letters, numbers, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
status	String	Definition: Access status. Constraints: N/A. Range: • CREATING • RUNNING • DELETING • DELETED Default Value: N/A.
vpc_id	String	Definition: VPC ID of a service access client. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
subnet_ids	Array of strings	Definition: Subnet ID of a service access client. Use commas (,) to separate multiple subnets. Constraints: N/A. Range: [0, 100]. Default Value: N/A.
access_connections	Array of AccessConnectionInfo objects	Definition: Access connection list. Constraints: N/A. Range: [0, 100]. Default value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-416 AccessConnectionInfo

Parameter	Type	Description
vpcep_id	String	Definition: VPC endpoint ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.
subnet_id	String	Definition: Subnet ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.
domain	String	Definition: Access domain name. When accessing a DataArts Fabric API using an IP address, you need to add the HOST parameter to the request header and pass in the domain name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default value: N/A.
ip	String	Definition: IPv4 address. Constraints: Only IPv4 addresses are allowed. Range: N/A. Default value: N/A.
owner	String	Definition: Owner. Constraints: N/A. Range: [1, 64]. Default Value: N/A.

Status code: 400**Table 4-417** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-418** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404**Table 4-419** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-420** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500**Table 4-421** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

None

Example Responses

Status code: 200

VPC endpoint client details are queried.

```
{
  "id" : "f7670aea-36a1-4bdf-ae99-963c33324370",
  "name" : "name",
  "status" : "RUNNING",
  "vpc_id" : "f18a378a-f26b-461d-985f-3f904e4cc544",
  "subnet_ids" : [ "1e9a3f25-0f1f-40c4-8ef9-e4a8dd4d1e53" ],
  "access_connections" : [ {
    "vpcep_id" : "1851896e-3731-4072-8b4a-33e38ed2207b",
    "domain" : "1e9a3f25-0f1f-40c4-8ef9-e4a8dd4d1e53",
    "ip" : "192.168.0.57",
    "owner" : "0676610f3a0a4c2c80c50bea7ddf18c1"
  } ],
  "create_time" : "2025-01-08T01:53:30.000+00:00"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error": {
    "code": "403",
    "message": "X-Auth-Token is invalid in the request",
    "title": "Forbidden"
  },
  "error_code": 403,
  "error_msg": "X-Auth-Token is invalid in the request",
  "title": "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code": "common.01000001",
  "error_msg": "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code": "common.00000408",
  "error_msg": "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code": "common.00000500",
  "error_msg": "internal error"
}
```

Status Codes

Status Code	Description
200	VPC endpoint client details are queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.11.4 Deleting a VPC Endpoint Client

Function

This API is used to delete an access client. You can delete access clients that are no longer used. This API is synchronous with no accompanying APIs or specific scenarios.

URI

DELETE /v1/access-clients/{client_id}

Table 4-422 Path Parameters

Parameter	Mandatory	Type	Description
client_id	Yes	String	Definition: VPC endpoint client ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, numbers, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-423 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Response Parameters

Status code: 200

A client is deleted.

Status code: 400

Table 4-424 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-425** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-426 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-427** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-428 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

None

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
}
```

```
"title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	A client is deleted.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.11.5 Updating a VPC Endpoint Client

Function

This API is used to update an access client. You can change the name of the access client. This API is synchronous with no accompanying APIs or specific scenarios.

URI

PUT /v1/access-clients/{client_id}

Table 4-429 Path Parameters

Parameter	Mandatory	Type	Description
client_id	Yes	String	Definition: VPC endpoint client ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, numbers, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-430 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. It is used for API calling authentication. For how to obtain a token, see [Authentication] (dataartsfabric_03_0005.xml). Constraints: N/A. Range: Up to 65,534 characters. Default Value: N/A.

Table 4-431 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Definition: VPC endpoint client name. Constraints: N/A. Range: [1, 64]. Default Value: N/A.

Response Parameters

Status code: 200

OK

Status code: 400**Table 4-432** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 401**Table 4-433** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 404

Table 4-434 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 408**Table 4-435** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Status code: 500

Table 4-436 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: 8 to 36 characters. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: 2 to 512 characters. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: 0 to 4,096 characters. Default Value: N/A.

Example Requests

Update an access client. Change the name of the access client to **zzh_test1122**.

```
PUT https://{endpoint}/v1/access-clients/{client_id}
{
  "name" : "zzh_test1122"
}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
```

```
{  "message" : "X-Auth-Token is invalid in the request",  "title" : "Forbidden",  },  "error_code" : 403,  "error_msg" : "X-Auth-Token is invalid in the request",  "title" : "Forbidden"}
```

Status code: 404

NotFound

```
{  "error_code" : "common.01000001",  "error_msg" : "response status exception, code: 404"}
```

Status code: 408

Request Time-out

```
{  "error_code" : "common.00000408",  "error_msg" : "timeout exception occurred"}
```

Status code: 500

InternalServerError

```
{  "error_code" : "common.00000500",  "error_msg" : "internal error"}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.12 Service Instance Management

4.12.1 Listing Deployed Service Instances

Function

This API is used to list deployed service instances. You can call this API to list deployed service instances, supporting paginated queries and filtering by name, service instance ID, endpoint ID, and visibility. It also lets you sort search results. The API returns a list of service instances that meet the filter criteria. This API is synchronous with no accompanying APIs. It allows you to query public service instances.

URI

GET /v1/workspaces/{workspace_id}/services/instances

Table 4-437 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-438 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	Definition: Service instance ID, allowing you to search for service instances by their ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
name	No	String	Definition: Service instance name, allowing you to search for service instances by their name. Fuzzy search is supported. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0.
endpoint_id	No	String	Definition: Endpoint ID, allowing you to search for endpoints by their ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
source_id	No	String	Definition: Service ID or model ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
version_id	No	String	Definition: Service version ID or model version ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
type	No	String	Definition: Service type. Constraints: N/A. Range: LLM_MODEL (large language model) or PGSQL_SERVICE (deprecated). Default Value: N/A.
visibility	No	String	Definition: Visibility search parameter. Constraints: N/A. Range: • PRIVATE: private, created by users. • PUBLIC: Query all public objects, including those created by other users. Default Value: By default, this parameter is left blank. If left blank, the visibility of the current user is queried, including PRIVATE and PUBLIC .
sort_by	No	String	Definition: Field for sorting. Constraints: N/A. Range: CREATE_TIME (creation time). Default Value: N/A.
order_by	No	String	Definition: Sorting mode. Constraints: N/A. Range: ASC (ascending order) or DESC (descending order). Default Value: DESC .

Request Parameters

Table 4-439 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-440 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of service instances that meet the filter criteria. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.
service_instances	Array of ServiceInstanceBriefInfo objects	Definition: List of service instances that meet the filter criteria. Constraints: [0,1000].

Table 4-441 ServiceInstanceBriefInfo

Parameter	Type	Description
visibility	String	Definition: Visibility. Constraints: N/A. Range: - PRIVATE; - PUBLIC. Default Value: PRIVATE.
source	SourceRef object	Definition: Source, including service and model. Constraints: N/A.

Parameter	Type	Description
id	String	Definition: Service instance ID. For details about how to obtain a service instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 32 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
name	String	Definition: Service instance name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	String	Definition: Description. Constraints: N/A. Range: 0 to 1,024 characters, excluding the following characters: ! <>=&"" Default Value: N/A.
endpoint_id	String	• Definition: endpoint ID. • Constraints: N/A. • Range: 1 to 36 characters. Only letters, numbers, and hyphens (-) are allowed. • Default Value: N/A.

Parameter	Type	Description
status	String	Definition: Status. Constraints: N/A. Range: • PENDING: to be processed. • CREATING: being created. • RUNNING: running. • UPDATING: being updated. • SUCCEEDED: succeeded. • FAILED: failed. • STOPPING: being stopped. • STOPPED: stopped. • DELETING: being deleted. • DELETED: deleted. • INACTIVE: to be activated. • TRIAL_ENDED: terminated. Default Value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A.
update_time	String	Definition: Update time. Constraints: N/A.
duration	Long	Definition: Runtime. Constraints: N/A. Range: N/A. Default Value: N/A.
create_user	User object	Definition: Tenant information, including the account name and username. Constraints: N/A.
type	ServiceType object	Definition: Service type. Constraints: N/A. Range: • PGSQL_SERVICE: deprecated; • LLM_MODEL: large language model; Default Value: N/A.

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution	String	Definition: Solution. Constraints: N/A. Range: [0, 4096]. Default Value: N/A.
config	AppInstanceConfig object	Definition: Configuration input when an application instance is started. Constraints: N/A.
content_moderation_switch	String	Definition: Whether to moderate model content. Constraints: N/A. Range: • ON: Content moderation is enabled. • OFF: Content moderation is disabled. Default Value: N/A.
content_output_moderation_switch	String	Definition: Whether to moderate model content. Constraints: N/A. Range: • ON: Content moderation is enabled. • OFF: Content moderation is disabled. Default Value: N/A.

Table 4-442 SourceRef

Parameter	Type	Description
id	String	Definition: Source ID. There are different types. For an inference service instance, it refers to the model ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
version_id	String	Definition: Version ID. There are different types. For an inference service instance, it refers to the model version ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-443 User

Parameter	Type	Description
domain_name	String	Definition: Account name. Constraints: N/A. Range: [0, 64]. Default Value: N/A.
user_name	String	Definition: Username. Constraints: N/A. Range: [0, 64]. Default Value: N/A.

Table 4-444 ServiceType

Parameter	Type	Description
-	String	Definition: Service type. Constraints: N/A. Range: • PGSQL_SERVICE: deprecated; • LLM_MODEL: large language model; Default Value: N/A.

Table 4-445 AppInstanceConfig

Parameter	Type	Description
model_instance_config	ModelServiceInstanceConfig object	Definition: Configuration of a model service instance, which is used in DeployService. Constraints: N/A.

Table 4-446 ModelServiceInstanceConfig

Parameter	Type	Description
resource	ResourceDemand object	Definition: Resource requirement configuration. Constraints: N/A.

Table 4-447 ResourceDemand

Parameter	Type	Description
min	Integer	Definition: Minimum number. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.
max	Integer	Definition: Maximum number. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.

Parameter	Type	Description
spec_code	String	Definition: Resource specifications, which are queried from the specification list. Constraints: N/A. Range: [1, 64]. Default Value: N/A.

Status code: 400**Table 4-448** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-449** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-450** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-451** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-452 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

None

Example Responses

Status code: 200

The service instance list is queried.

```
{
  "total" : 1,
  "service_instances" : [ {
    "visibility" : "PRIVATE",
```

```
"source" : {
  "id" : "0b5633ba2b904511ad514346f4d23d4b",
  "version_id" : "0b5633ba2b904511ad514346f4d23d4b"
},
"id" : "0b5633ba2b904511ad514346f4d23d4b",
"name" : "serviceInstanceName1",
"description" : "description",
"endpoint_id" : "b935d0ef-f4eb-4b95-aff1-9d33ae9f57b6",
"status" : "",
"create_time" : "2023-05-30T12:24:30.401Z",
"update_time" : "2023-05-30T12:24:30.401Z",
"duration" : 0,
"create_user" : {
  "domain_name" : "string",
  "user_name" : "string"
},
"type" : "LLM_MODEL",
"error_code" : "lakehouse.00010003",
"error_msg" : "failed",
"solution" : "failed",
"config" : {
  "model_instance_config" : {
    "resource" : {
      "min" : 1,
      "max" : 1000,
      "spec_code" : "string"
    }
  }
},
"content_moderation_switch" : "ON",
"content_output_moderation_switch" : "OFF"
}]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408**Request Time-out**

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500**InternalServerError**

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	The service instance list is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.12.2 Checking Details About a Deployed Service Instance

Function

This API is used to check details about a deployed service instance. It returns details about the service instance. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/workspaces/{workspace_id}/services/instances/{instance_id}

Table 4-453 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
instance_id	Yes	String	Definition: Instance ID. For details about how to obtain an instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-454 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200
Service deployment information is queried.

Status code: 400

Table 4-455 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-456** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404

Table 4-457 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-458** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-459 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

GET https://{endpoint}/v1/workspaces/{workspace_id}/services/instances/{instance_id}

Example Responses

Status code: 200

Service deployment information is queried.

```
{
  "visibility": "PRIVATE",
  "source": {
    "id": "0b5633ba2b904511ad514346f4d23d4b",
    "version_id": "0b5633ba2b904511ad514346f4d23d4b"
  },
  "id": "0b5633ba2b904511ad514346f4d23d4b",
  "name": "serviceInstanceName1",
  "description": "description",
  "endpoint_id": "b935d0ef-f4eb-4b95-aff1-9d33ae9f57b6",
  "status": "",
  "create_time": "2023-05-30T12:24:30.401Z",
  "update_time": "2023-05-30T12:24:30.401Z",
  "duration": 0,
  "create_user": {
    "domain_name": "string",
    "user_name": "string"
  },
  "type": "LLM_MODEL",
  "error_code": "lakehouse.00010003",
  "error_msg": "failed",
  "solution": "failed",
  "config": {
    "model_instance_config": {
      "resource": {
        "min": 1,
        "max": 1000,
        "spec_code": "string"
      }
    }
  }
}
```

```
}
},
"content_moderation_switch" : "ON",
"content_output_moderation_switch" : "ON",
"update_user" : {
  "domain_name" : "string",
  "user_name" : "string"
},
"url" : {
  "name" : "string",
  "address" : "string",
  "type" : "PRIVATE"
}
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	Service deployment information is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.12.3 Deploying a Service

Function

This API is used to deploy a service instance. It allows you to enter parameters such as the name, description, endpoint ID, instance specifications, minimum value, and maximum value. The API returns the instance ID. This process includes resource verification: the maximum value must be greater than or equal to the minimum value and cannot exceed the maximum number of endpoint resources. The total number of resources of all services under the same endpoint must also comply with the limits. The number of service instances will be automatically adjusted based on the load to ensure operation within the minimum and maximum values.

URI

POST /v1/workspaces/{workspace_id}/services/instances

Table 4-460 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-461 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-462 Request body parameters

Parameter	Mandatory	Type	Description
source	Yes	SourceRef object	Definition: Source, including service and model. Constraints: N/A.
name	Yes	String	Definition: Service instance name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	No	String	Definition: Description. Constraints: N/A. Range: 0 to 1,024 characters, excluding the following characters: !<>=&"' Default Value: N/A.

Parameter	Mandatory	Type	Description
endpoint_id	Yes	String	• Definition: endpoint ID. • Constraints: N/A. • Range: 1 to 36 characters. Only letters, numbers, and hyphens (-) are allowed. • Default Value: N/A.
config	No	ServiceInstanceConfig object	Definition: Configuration entered when a service instance is started, which is used in DeployService. Constraints: N/A.

Table 4-463 SourceRef

Parameter	Mandatory	Type	Description
id	Yes	String	Definition: Source ID. There are different types. For an inference service instance, it refers to the model ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
version_id	No	String	Definition: Version ID. There are different types. For an inference service instance, it refers to the model version ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-464 ServiceInstanceConfig

Parameter	Mandatory	Type	Description
model_instance_config	No	ModelServiceInstanceConfig object	Definition: Configuration of a model service instance, which is used in DeployService. Constraints: N/A.

Table 4-465 ModelServiceInstanceConfig

Parameter	Mandatory	Type	Description
resource	Yes	ResourceDemand object	Definition: Resource requirement configuration. Constraints: N/A.

Table 4-466 ResourceDemand

Parameter	Mandatory	Type	Description
min	Yes	Integer	Definition: Minimum number. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.
max	Yes	Integer	Definition: Maximum number. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.
spec_code	Yes	String	Definition: Resource specifications, which are queried from the specification list. Constraints: N/A. Range: [1, 64]. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-467 Response body parameters

Parameter	Type	Description
id	InstanceId object	Definition: Instance ID. For details about how to obtain an instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-468 InstanceId

Parameter	Type	Description
-	String	Definition: Instance ID. For details about how to obtain an instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Status code: 400**Table 4-469** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-470** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-471** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-472** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500**Table 4-473** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Deploy a service instance. The following is an example of the deployment parameters.

POST https://{endpoint}/v1/workspaces/{workspace_id}/services/instances

```
{
  "source" : {
    "id" : "0b5633ba2b904511ad514346f4d23d4b",
    "version_id" : "0b5633ba2b904511ad514346f4d23d4b"
  },
  "name" : "serviceInstanceName1",
  "description" : "description",
  "endpoint_id" : "b935d0ef-f4eb-4b95-aff1-9d33ae9f57b6",
  "config" : {
    "model_instance_config" : {
      "resource" : {
        "min" : 1,
        "max" : 1000,
        "spec_code" : "string"
      }
    }
  }
}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
  }
}
```

```
{
  "message" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
},
{
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.12.4 Updating a Deployed Service Instance

Function

This API is used to update a deployed service instance. You can call this API to update a deployed service instance, including the name and description. This is an asynchronous API. It is used in conjunction with the ShowServiceInstanceDetail and ListServicesInstances APIs to check details about a service instance. This API currently does not support updating the minimum number of instances and model version.

URI

PUT /v1/workspaces/{workspace_id}/services/instances/{instance_id}

Table 4-474 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
instance_id	Yes	String	Definition: Instance ID. For details about how to obtain an instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-475 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-476 Request body parameters

Parameter	Mandatory	Type	Description
source	No	SourceRef object	Definition: Source, including service and model. Constraints: N/A.
name	No	String	Definition: Service instance name. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), underscores (_), periods (.), and spaces are allowed. Default Value: N/A.
description	No	String	Definition: Description. Constraints: N/A. Range: 0 to 1,024 characters, excluding the following characters: !<>=&"' Default Value: N/A.
config	No	UpdateServiceInstanceConfig object	Definition: Configuration entered when updating a service instance. Constraints: N/A.

Table 4-477 SourceRef

Parameter	Mandatory	Type	Description
id	Yes	String	Definition: Source ID. There are different types. For an inference service instance, it refers to the model ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
version_id	No	String	Definition: Version ID. There are different types. For an inference service instance, it refers to the model version ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-478 UpdateServiceInstanceConfig

Parameter	Mandatory	Type	Description
model_instance_config	No	UpdateModelServiceInstanceConfig object	Definition: Configuration of the model service instance to be updated. Constraints: N/A.

Table 4-479 UpdateModelServiceInstanceConfig

Parameter	Mandatory	Type	Description
resource	Yes	BaseDemand object	Definition: Resource requirement configuration. Constraints: N/A.

Table 4-480 BaseDemand

Parameter	Mandatory	Type	Description
min	Yes	Integer	Definition: Minimum number. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.
max	Yes	Integer	Definition: Maximum number. Constraints: N/A. Range: [1, 1000]. Default Value: N/A.

Response Parameters

Status code: 202

Table 4-481 Response body parameters

Parameter	Type	Description
id	InstanceId object	Definition: Instance ID. For details about how to obtain an instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-482 InstanceId

Parameter	Type	Description
-	String	Definition: Instance ID. For details about how to obtain an instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Status code: 400

Table 4-483 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-484** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-485** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-486** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500**Table 4-487** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Update a deployed service instance. The following is an example of the update parameters.

PUT https://{endpoint}/v1/workspaces/{workspace_id}/services/instances/{instance_id}

```
{
  "source" : {
    "id" : "0b5633ba2b904511ad514346f4d23d4b",
    "version_id" : "0b5633ba2b904511ad514346f4d23d4b"
  },
  "name" : "serviceInstanceName1",
  "description" : "description",
  "config" : {
    "model_instance_config" : {
      "resource" : {
        "min" : 1,
        "max" : 1000
      }
    }
  }
}
```

Example Responses

Status code: 202

An inference model is updated.

```
{
  "id" : "b935d0ef-f4eb-4b95-aff1-9d33ae9f57b6"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error": {
    "code": "403",
    "message": "X-Auth-Token is invalid in the request",
    "title": "Forbidden"
  },
  "error_code": 403,
  "error_msg": "X-Auth-Token is invalid in the request",
  "title": "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code": "common.01000001",
  "error_msg": "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code": "common.00000408",
  "error_msg": "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code": "common.00000500",
  "error_msg": "internal error"
}
```

Status Codes

Status Code	Description
202	An inference model is updated.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.12.5 Deleting a Service Instance

Function

This API is used to delete a service instance to release resources. You can call this API to delete a service instance to release resources. This is an asynchronous API. It is used in conjunction with the ShowServiceInstanceDetail and ListServicesInstances APIs to check details about a service instance, with no specific scenarios involved.

URI

DELETE /v1/workspaces/{workspace_id}/services/instances/{instance_id}

Table 4-488 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
instance_id	Yes	String	Definition: Instance ID. For details about how to obtain an instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-489 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 202

Table 4-490 Response body parameters

Parameter	Type	Description
-	AnyType	A service is deleted.

Status code: 400

Table 4-491 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401

Table 4-492 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-493** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-494** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-495 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

```
GET https://{endpoint}/v1/workspaces/{workspace_id}/services/instances/{instance_id}
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
202	A service is deleted.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound

Status Code	Description
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.13 Inference Service APIs

4.13.1 Initiating an Invocation Request

Function

This API is used to invoke a deployed large model inference instance and initiate an inference request. This API is synchronous with no accompanying APIs. This API performs content moderation, shielding content that does not meet the requirements. You can choose to disable this function.

URI

POST /v1/workspaces/{workspace_id}/services/instances/{instance_id}/invocations

Table 4-496 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
instance_id	Yes	String	Definition: Instance ID. For details about how to obtain an instance ID, see [Obtaining an Inference Instance ID] (dataartsfabric_03_0025.xml). Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-497 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-498 Request body parameters

Parameter	Mandatory	Type	Description
messages	No	Array of ChatMessage objects	• Definition: message. • Constraints: N/A. • Range: [1, 100000]. • Default Value: N/A.
max_tokens	No	Integer	• Definition: maximum number of tokens to be generated in a chat completion. The total length of input and generated tokens is limited by the model's context length. If this parameter is set to 0, the default value 4096 is used. The value range of the R1 model is [0, 32k], and that of the V3 model is [0, 16k]. This parameter cannot be set together with max_completion_tokens, or an error will be reported. • Constraints: The total length of input tokens and generated tokens is constrained by the model's context length. • Range: N/A. • Default Value: N/A.

Parameter	Mandatory	Type	Description
temperature	No	Double	Definition: Temperature is a number used to adjust the degree of randomness. Range: 0–2. A larger value (for example, 0.8) leads to a more random output, while a smaller value (for example, 0.2) leads to a more centralized and deterministic output. Constraints: N/A. Range: [0, 2]. Default Value: 1.
logit_bias	No	Object	• Description: It is a map type. Each key is a token ID in the vocabulary (obtained using the tokenization API) and is an integer. Each value is the deviation value of the token and is a floating point number. This parameter is used to adjust the probability of a specified token in the model output to make the model output more suitable for your requirements. This parameter is unavailable now. • Constraints: N/A. • Range: N/A. • Default Value: N/A.
top_p	No	Double	• Definition: Nucleus sampling strategy, which is used to control the range of tokens the AI model considers based on the cumulative probability. If the value is 0, the model considers only the token with the largest logarithmic probability. • Constraints: N/A. • Range: [0, 1]. • Default Value: 1.

Parameter	Mandatory	Type	Description
stream	No	Boolean	Definition: Whether streaming responses are supported. If supported, messages are returned line by line (for an interactive effect). If not supported, all messages are returned at once. Constraints: N/A. Range: true or false. Default Value: N/A.
frequency_penalty	No	Double	Definition: Frequency penalty, which controls the repetition of words in the text to avoid certain words or phrases from appearing too frequently in the generated text. A positive value will penalize new tokens based on their existing frequency in the text, thereby reducing the likelihood of the model repeating the same line word-for-word. Constraints: N/A Range: [-2.0, 2.0]. Default Value: N/A.
presence_penalty	No	Double	Definition: Presence penalty, which controls the repetition of topics in the text to avoid repeatedly discussing the same topic or viewpoint in the conversation or text. Positive values penalize new tokens based on whether they have appeared in the text so far, increasing the model's likelihood of talking about new topics. Constraints: N/A Range: [-2.0, 2.0]. Default Value: N/A.

Parameter	Mandatory	Type	Description
n	No	Integer	Definition: Number of chat completion options to generate for each input message. Note that you will be billed based on the total number of tokens generated across all options. Set n to 1 to minimize costs. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-499 ChatMessage

Parameter	Mandatory	Type	Description
role	Yes	String	Definition: Role. Constraints: N/A. Range: 1 to 64 characters, excluding the following characters: !<>=&'" Default Value: N/A.
content	No	Object	• Definition: message content, which can be represented as either a string or an object array. • Constraints: N/A. • Range: N/A. • Default Value: N/A.
name	No	String	Model information, which is used to distinguish participants of the same role.
tool_calls	No	Array of MessageTool Call objects	Tool calls generated by a model. At least one of the content and tool_calls fields must be non-empty.
tool_call_id	No	String	ID of the tool call generated by a model.

Table 4-500 MessageToolCall

Parameter	Mandatory	Type	Description
id	Yes	String	Tool call ID.
type	Yes	String	Tool type. Currently, the value can only be function .
function	Yes	Function object	Function called by a model.

Table 4-501 Function

Parameter	Mandatory	Type	Description
name	Yes	String	Name of the function called by a model.
arguments	Yes	String	Arguments of the function to be called, which are generated by a model and in JSON format. Note that a model does not always generate valid JSON and may assume arguments that are not defined in your function schema. Before calling a function, verify these arguments in the code.

Response Parameters

Status code: 200

A chat completion is created.

Status code: 400

Table 4-502 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-503** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-504** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-505** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500**Table 4-506** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.

Parameter	Type	Description
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Invoke a deployed large model inference instance and initiate an inference request. The following is an example of the request parameters.

```
POST https://{endpoint}/v1/workspaces/{workspace_id}/services/instances/{instance_id}/invocations
{
  "messages" : [ {
    "role" : "user",
    "content" : "Summarize the development of LLMs in 2023."
  } ]
}
```

Example Responses

Status code: 200

A chat completion is created.

```
{
  "route_id" : "ac8111bf-3601-4905-8ddd-b41d3e636a4e"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error": {
    "code": "403",
    "message": "X-Auth-Token is invalid in the request",
    "title": "Forbidden"
  },
  "error_code": 403,
  "error_msg": "X-Auth-Token is invalid in the request",
  "title": "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code": "common.01000001",
  "error_msg": "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code": "common.00000408",
  "error_msg": "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code": "common.00000500",
  "error_msg": "internal error"
}
```

Status Codes

Status Code	Description
200	A chat completion is created.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.14 Ray session API.

4.14.1 Obtaining Session Information

Function

This API is used to obtain session information. It is utilized when checking the dashboard in Ray and Ray Serve scenarios. Input includes the route ID of a Ray or Ray Serve cluster. The output is the session ID. This API is synchronous with no accompanying APIs or specific scenarios.

URI

POST /v1/sessions

Table 4-507 Query Parameters

Parameter	Mandatory	Type	Description
route_id	Yes	String	Definition: Route ID, which is mandatory. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-508 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-509 Response body parameters

Parameter	Type	Description
session_id	String	Definition: Session ID. Constraints: N/A. Range: 1 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
status	String	Definition: Session status. Constraints: N/A. Range: [0, 64]. Default Value: N/A.

Status code: 400**Table 4-510** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401

Table 4-511 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-512** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408

Table 4-513 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-514 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Obtain session information. No request body.

```
POST https://{endpoint}/v1/sessions
```

Example Responses

Status code: 200

A session is queried.

```
{
  "session_id" : "ac8111bf-3601-4905-8ddd-b41d3e636a4e",
  "status" : "RUNNING"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
}
```

```
"error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	A session is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.15 SQL APIs

4.15.1 Creating a SQL Session

Function

This API is used to create a SQL session. You can call this API to create a SQL session at a SQL endpoint by entering the endpoint ID and LakeFormation configuration. The API returns the session information. This API is synchronous with no accompanying APIs or specific scenarios.

URI

POST /v1/workspaces/{workspace_id}/sessions

Table 4-515 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-516 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-517 Request body parameters

Parameter	Mandatory	Type	Description
endpoint_id	Yes	String	• Definition: endpoint ID. • Constraints: N/A. • Range: 1 to 36 characters. Only letters, numbers, and hyphens (-) are allowed. • Default Value: N/A.
lake_formation_config	Yes	LakeFormationInfo object	Definition: LakeFormation information. Constraints: N/A.
wait_timeout	No	Integer	Definition: Waiting time for creating a session, in seconds. Constraints: N/A. Range: [300, 7200]. Default Value: N/A.

Table 4-518 LakeFormationInfo

Parameter	Mandatory	Type	Description
instance_id	Yes	String	Definition: LakeFormation instance ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
catalog	Yes	String	Definition: LakeFormation catalog. Constraints: N/A. Range: 1 to 255 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-519 Response body parameters

Parameter	Type	Description
session_id	String	Definition: Session ID. Constraints: N/A. Range: 1 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
status	String	Definition: Session status. Constraints: N/A. Range: [0, 64]. Default Value: N/A.

Status code: 400

Table 4-520 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-521** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404

Table 4-522 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-523** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-524 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Create a SQL session. You can call this API to create a SQL session at a SQL endpoint by entering the endpoint ID and LakeFormation configuration. The API returns the session information. This API is synchronous with no accompanying APIs or specific scenarios.

```
POST https://endpoint/v1/workspaces/{workspace_id}/sessions
{
  "endpoint_id" : "b935d0ef-f4eb-4b95-aff1-9d33ae9f57b6",
  "lake_formation_config" : {
    "instance_id" : "0b5633ba2b904511ad514346f4d23d4b",
    "catalog" : "string"
  }
}
```

Example Responses

Status code: 200

A session is queried.

```
{
  "session_id" : "ac8111bf-3601-4905-8ddd-b41d3e636a4e",
  "status" : "RUNNING"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	A session is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound

Status Code	Description
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.15.2 Querying the SQL Session List

Function

This API is used to query the SQL session list.

URI

GET /v1/workspaces/{workspace_id}/sessions

Table 4-525 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-526 Query Parameters

Parameter	Mandatory	Type	Description
endpoint_id	No	String	Definition: Endpoint ID, allowing you to search for endpoints by their ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
status	No	String	• Definition: status filtering. Only one status can be queried. By default, all statuses are queried. • Constraints: N/A. • Range: RUNNING, CLOSED, WAITING, CREATING, or FAIL • Default Value: N/A.
session_id	No	String	• Definition: ID of a session. • Constraints: N/A. • Range: 1 to 36 characters. Only letters, numbers, and hyphens (-) are allowed. • Default Value: N/A.
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 10000000000]. Default Value: 0.

Request Parameters

Table 4-527 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-528 Response body parameters

Parameter	Type	Description
sessions	Array of SqlSessionInfo objects	Definition: session list. Constraints: N/A. Range: N/A. Default Value: N/A.
total	Integer	Total number.

Table 4-529 SqlSessionInfo

Parameter	Type	Description
session_id	String	Definition: Session ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
status	String	Definition • RUNNING • CLOSED • WAITING • CREATING • FAIL Constraints: N/A Range: RUNNING , CLOSED , WAITING , CREATING , or FAIL Default Value: N/A
create_time	String	• Definition: session creation time. • Constraints: N/A. • Range: N/A. • Default Value: N/A.
endpoint_info	endpoint_info object	• Definition: endpoint information for creating a session. • Constraints: N/A. • Range: N/A. • Default Value: N/A.

Table 4-530 endpoint_info

Parameter	Type	Description
id	String	• Definition: endpoint ID. • Constraints: N/A. • Range: 1 to 36 characters. Only letters, numbers, and hyphens (-) are allowed. • Default Value: N/A.
name	String	• Definition: endpoint name. • Constraints: Only letters, digits, underscores (_), hyphens (-), periods (.), and spaces are allowed. • Range: N/A. • Default Value: N/A.

Status code: 400**Table 4-531** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401

Table 4-532 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404

Table 4-533 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408

Table 4-534 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-535 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Query the session information. The returned information includes the session status, creation time, and endpoint.

```
GET https://endpoint/v1/workspaces/{workspace_id}/sessions?endpoint_id=
{ }
```

Example Responses

Status code: 200

Response body for querying sessions.

```
{
  "sessions" : [ {
    "session_id" : "284888e2-c36f-4bec-9b24-e5bf0b386ab0",
    "status" : "RUNINNG",
    "create_time" : "2025-07-22T08:42:39.000+00:00",
    "endpoint_info" : {
      "id" : "0470d220-aaaa-410e-a417-0d69a0215683",
      "name" : "test2"
    }
  }, {
    "session_id" : "4e4b2770-702f-48b7-9737-db107cf63e24",
    "status" : "CLOSED",
    "create_time" : "2025-07-22T06:13:47.000+00:00",
    "endpoint_info" : {
      "id" : "0470d220-aaaa-410e-a417-0d69a0215683",
      "name" : "test2"
    }
  } ],
  "total" : 15
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	Response body for querying sessions.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.15.3 Querying Session Information

Function

This API is used to query SQL session information. You can call this API to query information about a SQL session by providing the session ID as input. The API then returns the operation result. This API is synchronous with no accompanying APIs or specific scenarios.

URI

GET /v1/workspaces/{workspace_id}/sessions/{session_id}

Table 4-536 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
session_id	Yes	String	Definition: Session ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-537 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-538 Response body parameters

Parameter	Type	Description
session_id	String	Definition: Session ID. Constraints: N/A. Range: 1 to 32 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Type	Description
status	String	Definition: Session status. Constraints: N/A. Range: [0, 64]. Default Value: N/A.

Status code: 400**Table 4-539** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-540** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-541** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-542** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-543 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Query SQL session information. You can call this API to query the execution result of a SQL statement by entering the endpoint ID and SQL session ID. The API then returns the execution result. This API is synchronous with no accompanying APIs or specific scenarios.

```
GET https://endpoint/v1/workspaces/{workspace_id}/sessions/{session_id}
{ }
```

Example Responses

Status code: 200

A session is queried.

```
{
  "session_id": "ac8111bf-3601-4905-8ddd-b41d3e636a4e",
  "status": "RUNNING"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	A session is queried.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.15.4 Closing a Session

Function

This API is used to close a SQL session. You can call this API to terminate a SQL session by providing the session ID as input. The API then returns the operation result. This API is synchronous with no accompanying APIs or specific scenarios.

URI

DELETE /v1/workspaces/{workspace_id}/sessions/{session_id}

Table 4-544 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Parameter	Mandatory	Type	Description
session_id	Yes	String	Definition: Session ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-545 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

OK

Status code: 400

Table 4-546 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-547** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-548** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-549** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500**Table 4-550** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Close a SQL session. You can call this API to delete a SQL session by providing the session ID as input. The API then returns the operation result. This API is synchronous with no accompanying APIs or specific scenarios.

```
DELETE https://endpoint/v1/workspaces/{workspace_id}/sessions/{session_id}
{ }
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error CodesSee [Error Codes](#).**4.15.5 Executing a SQL Statement****Function**

This API is used to execute SQL statements within a specified session. You can call this API to execute SQL statements by providing inputs such as SQL statements, endpoint IDs, SQL session IDs, and binding parameters. It returns either the execution result or the statement ID. When calling this API, you can configure the input parameter **is_sync** to control whether statements are executed in synchronous or asynchronous mode. If statements are executed asynchronously, you need to use **ShowSqlStatementResult** to query the statement execution results. If statements are executed synchronously, the API waits for a period of time to receive the execution results. If the execution is complete, the execution results are returned. If the execution is not complete, the status is returned. You can use **ShowSqlStatementResult** to query the statement execution results.

URI

POST /v1/workspaces/{workspace_id}/sessions/statements

Table 4-551 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Request Parameters

Table 4-552 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Table 4-553 Request body parameters

Parameter	Mandatory	Type	Description
statement	Yes	String	Definition: SQL statement. Constraints: N/A. Range: [0, 10000000]. Default Value: N/A.
limit	No	Integer	Definition: Limit. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
session_id	Yes	String	Definition: Session ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
bindings	No	Array<Array<String>>	Definition: Parameter binding list. Constraints: N/A. Range: [0, 10000]. Default Value: N/A.
is_sync	No	Boolean	Definition: Whether an execution is synchronous or asynchronous. Constraints: N/A. Range: true: synchronous; false: asynchronous. Default Value: N/A.
is_maintain_statement	No	Boolean	• Definition: whether the statement is an O&M channel statement. • Constraints: N/A. • Range: true (It is an O&M channel statement) or false (It is not an O&M channel statement) • Default Value: N/A.
resultset_fetch_mode	No	String	• Definition: how to return the result set. • Constraints: N/A. • Range: DEFAULT: The result set is returned directly. READ_OBS: The path of the result set in the bucket is returned instead of the result set. • Default Value: DEFAULT.

Response Parameters

Status code: 200

Table 4-554 Response body parameters

Parameter	Type	Description
-	String	Response information of the SQL statement execution, in string format. For details, see the Example Response.

Status code: 400**Table 4-555** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-556** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404

Table 4-557 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408

Table 4-558 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Parameter	Type	Description
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-559 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

This API is used to execute SQL statements within a specified session. You can call this API to execute SQL statements by providing inputs such as SQL statements, endpoint IDs, SQL session IDs, and binding parameters. It returns either the execution result or the statement ID. When calling this API, you can configure the input parameter **is_sync** to control whether statements are executed in synchronous or asynchronous mode. If statements are executed asynchronously, you need to use **ShowSqlStatementResult** to query the statement execution results. If statements are executed synchronously, the API waits for a period of time to receive the execution results. If the execution is complete, the execution results are returned. If the execution is not complete, the status is returned. You can use **ShowSqlStatementResult** to query the statement execution results.

POST https://endpoint/v1/workspaces/{workspace_id}/sessions/statements

```
{
  "statement": "select * from aaa",
  "limit": 100,
  "session_id": "string",
```

```
"bindings" : [ [ "string" ] ],
"is_maintain_statement" : false,
"resultset_fetch_mode" : "DEFAULT",
"is_sync" : true
}
```

Example Responses

Status code: 200

OK

```
{
  "status" : 1,
  "session_id" : "6399466e-8908-4c9d-8399-48479c8b06f7",
  "statement_id" : "49131d25-1824-4f29-860c-832bdd19dfd3"
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error CodesSee [Error Codes](#).**4.15.6 Obtaining Statement Execution Results and Status****Function**

This API is used to query the execution result of a SQL statement. You can call this API to query the execution result of a SQL statement by entering the endpoint ID, SQL session ID, and statement ID. The API then returns the execution result. This API is synchronous with no accompanying APIs or specific scenarios.

URI

```
GET /v1/workspaces/{workspace_id}/sessions/{session_id}/statements/
{statement_id}
```

Table 4-560 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
session_id	Yes	String	Definition: Session ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
statement_id	Yes	String	Definition: Statement ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.

Table 4-561 Query Parameters

Parameter	Mandatory	Type	Description
page_num	No	Integer	Definition: Page number. Constraints: N/A. Range: [1, 65535]. Default Value: N/A.
is_enable_obs_path	No	Boolean	Definition: Whether to return the OBS path of a result set. Constraints: N/A. Range: true: The OBS path of the result set will be returned. false: The result set will be returned. Default Value: N/A.

Request Parameters

Table 4-562 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-563 Response body parameters

Parameter	Type	Description
-	String	SQL execution result, in string format. For details, see the Example Response.

Status code: 400

Table 4-564 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401

Table 4-565 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-566** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408

Table 4-567 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500**Table 4-568** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Query the execution result of a SQL statement. You can call this API to query the execution result of a SQL statement by entering the endpoint ID, SQL session ID, and statement ID. The API then returns the execution result. This API is synchronous with no accompanying APIs or specific scenarios.

```
GET https://endpoint/v1/workspaces/{workspace_id}/sessions/{session_id}/statements/{statement_id}
{ }
```

Example Responses

Status code: 200

OK

```
{
  "status" : 0,
  "session_id" : "6399466e-8908-4c9d-8399-48479c8b06f7",
  "statement_id" : "49131d25-1824-4f29-860c-832bdd19dfd3",
  "results" : [ {
    "status" : "PGRES_TUPLES_OK",
    "statement_id" : "49131d25-1824-4f29-860c-832bdd19dfd3",
    "num_rows" : 2,
    "row_count" : 2,
    "page_count" : 1,
    "page_no" : 1,
    "err_code" : "0",
    "sql_state" : "0",
    "message" : "",
    "result_set" : {
      "columns" : [ {
        "name" : "a",
        "table_id" : 2147483647,
        "column_id" : 1,
        "format" : 0,
        "type" : 23,
        "size" : 4,
        "type_mod" : -1
      }, {
        "name" : "b",
        "table_id" : 2147483647,
        "column_id" : 2,
        "format" : 0,
        "type" : 23,
        "size" : 4,
        "type_mod" : -1
      } ],
      "rows" : [ [ "1", "2" ], [ "1", "2" ] ]
    }
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch., cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	OK
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.15.7 Canceling Statement Execution

Function

This API is used to cancel the execution of a SQL statement. You can call this API to cancel the execution of a SQL statement by entering the endpoint ID, SQL session ID, and statement ID. The API then returns the operation result. This API is synchronous with no accompanying APIs or specific scenarios.

URI

POST /v1/workspaces/{workspace_id}/sessions/{session_id}/statements/{statement_id}/cancel

Table 4-569 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
session_id	Yes	String	Definition: Session ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
statement_id	Yes	String	Definition: Statement ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.

Request Parameters

Table 4-570 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-571 Response body parameters

Parameter	Type	Description
-	AnyType	Empty response.

Status code: 400

Table 4-572 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401

Table 4-573 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-574** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408

Table 4-575 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-576 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Cancel the execution of a SQL statement. You can call this API to cancel the execution of a SQL statement by entering the endpoint ID, SQL session ID, and statement ID. The API then returns the operation result. This API is synchronous with no accompanying APIs or specific scenarios.

```
POST https://endpoint/v1/workspaces/{workspace_id}/sessions/{session_id}/cancel
{ }
```

Example Responses

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	Empty response.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.15.8 Querying SQL Execution Records

Function

This API is used to query SQL execution records.

URI

GET /v1/workspaces/{workspace_id}/statement-records

Table 4-577 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-578 Query Parameters

Parameter	Mandatory	Type	Description
endpoint_id	No	String	Definition: Endpoint ID, allowing you to search for endpoints by their ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
statement_id	No	String	Definition: Statement ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0.
source	No	Integer	Definition: Source of the SQL statement to be executed. 0: API; 1: console. Constraints: N/A. Range: N/A. Default Value: N/A.
start_time	No	Integer	Definition: Query start time. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Mandatory	Type	Description
end_time	No	Integer	Definition: Query completion time. Constraints: N/A. Range: N/A. Default Value: N/A.

Request Parameters

Table 4-579 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-580 Response body parameters

Parameter	Type	Description
total	Integer	Definition: Total number of SQL statements that meet the filter criteria. Constraints: N/A. Range: N/A. Default Value: N/A.
records	Array of StatementRecord objects	SQL history records.

Table 4-581 StatementRecord

Parameter	Type	Description
id	String	Statement ID for SQL execution.

Parameter	Type	Description
workspace_id	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
endpoint_id	String	• Definition: endpoint ID. • Constraints: N/A. • Range: 1 to 36 characters. Only letters, numbers, and hyphens (-) are allowed. • Default Value: N/A.
database_name	String	Definition: Database name. Constraints: N/A. Range: 1 to 256 characters. Only letters, digits, and underscores (_) are allowed. Default Value: N/A.
statement_content	String	Definition: SQL script content. Constraints: N/A. Range: 1 to 1,024 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
dpu_duration	String	Definition: Data processing unit (DPU) duration. Constraints: N/A. Range: N/A. Default Value: N/A.
duration	String	Definition: Execution duration. Constraints: N/A. Range: N/A. Default Value: N/A.
dpu_cost	String	Definition: Cost. Constraints: N/A. Range: N/A. Default Value: N/A.

Parameter	Type	Description
status	String	Definition: SQL execution status. - CANCELED: canceled. - FAILED: failed. - SUCCESSFUL: successful. - RUNNING: running. - SUBMITTED: being submitted. - ERROR: error occurred. Constraints: N/A. Range: CANCELED, FAILED, SUCCESSFUL, RUNNING, SUBMITTED, or ERROR. Default Value: N/A.
user_name	String	• Definition: username. • Constraints: N/A. • Range: N/A. • Default Value: N/A.
create_time	String	Definition: Creation time. Constraints: N/A. Range: N/A. Default Value: N/A.
start_time	String	Definition: SQL execution start time. Constraints: N/A. Range: N/A. Default Value: N/A.
finish_time	String	Definition: SQL execution end time. Constraints: N/A. Range: N/A. Default Value: N/A.

Status code: 400

Table 4-582 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401**Table 4-583** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404

Table 4-584 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408**Table 4-585** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500

Table 4-586 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Query the SQL execution history. The returned values include the executed SQL statement, start time, and end time.

```
GET https://endpoint/v1/workspaces/{workspace_id}/statement-records?endpoint_id=
{ }
```

Example Responses

Status code: 200

Historical SQL statement execution records are queried.

```
{
  "total" : 1,
  "records" : [ {
    "id" : "0b5633ba2b904511ad514346f4dxxxxx",
    "workspace_id" : "0b5633ba2b904511ad514346f4d23d4b",
    "endpoint_id" : "0b5633ba2b904511ad514346f4d23d4b",
    "database_name" : "db1",
    "statement_content" : "select 1",
    "dpu_duration" : 2.23,
    "dpu_cost" : 10.11,
    "duration" : 332,
    "status" : "SUCCESSFUL",
    "create_time" : "2023-05-30T12:24:30.401Z",
    "start_time" : "2023-05-30T12:24:30.401Z",
    "finish_time" : "2023-05-30T12:24:30.401Z"
  } ]
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
```

```
"error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,  
cause: TypeMismatchException"  
}
```

Status code: 401

Unauthorized

```
{  
  "error_code" : "APIG.1002",  
  "error_msg" : "Incorrect token or token resolution failed"  
}
```

Status code: 403

Forbidden

```
{  
  "error" : {  
    "code" : "403",  
    "message" : "X-Auth-Token is invalid in the request",  
    "title" : "Forbidden"  
  },  
  "error_code" : 403,  
  "error_msg" : "X-Auth-Token is invalid in the request",  
  "title" : "Forbidden"  
}
```

Status code: 404

NotFound

```
{  
  "error_code" : "common.01000001",  
  "error_msg" : "response status exception, code: 404"  
}
```

Status code: 408

Request Time-out

```
{  
  "error_code" : "common.00000408",  
  "error_msg" : "timeout exception occurred"  
}
```

Status code: 500

InternalServerError

```
{  
  "error_code" : "common.00000500",  
  "error_msg" : "internal error"  
}
```

Status Codes

Status Code	Description
200	Historical SQL statement execution records are queried.
400	BadRequest
401	Unauthorized

Status Code	Description
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error Codes

See [Error Codes](#).

4.15.9 Querying SQL Execution Records in a Specified Session

Function

This API is used to query the SQL execution records of a specified session.

URI

GET /v1/workspaces/{workspace_id}/sessions/{session_id}/statements

Table 4-587 Path Parameters

Parameter	Mandatory	Type	Description
workspace_id	Yes	String	Definition: Workspace ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.
session_id	Yes	String	Definition: Session ID. Constraints: N/A. Range: 1 to 36 characters. Only letters, digits, and hyphens (-) are allowed. Default Value: N/A.

Table 4-588 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Definition: Maximum number of records returned on each page. Constraints: N/A. Range: [1, 100]. Default Value: 10.
offset	No	Integer	Definition: Offset where a query starts. Constraints: N/A. Range: [0, 1000000000]. Default Value: 0.
statement_id	No	String	Definition: Statement ID. Constraints: N/A. Range: 1 to 64 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. Default Value: N/A.
status	No	String	• Definition: status filtering. Only one status can be queried. By default, all statuses are queried. • Constraints: N/A. • Range: • Default Value: N/A. CANCELED, FAILED, SUCCESSFUL, RUNNING, SUBMITTED, or ERROR

Request Parameters

Table 4-589 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	No	String	Definition: Tenant token. Constraints: N/A. Range: N/A. Default Value: N/A.

Response Parameters

Status code: 200

Table 4-590 Response body parameters

Parameter	Type	Description
records	Array of records objects	• Definition: query result. • Constraints: N/A. • Range: N/A. • Default Value: N/A.
total	Integer	• Definition: number of records. • Constraints: N/A. • Range: N/A. • Default Value: N/A.

Table 4-591 records

Parameter	Type	Description
statement_id	String	• Definition: statement ID. • Constraints: N/A. • Range: 1 to 64 characters. Only letters, numbers, hyphens (-), and underscores (_) are allowed. • Default Value: N/A.
statement_content	String	• Definition: content of the query statement. • Constraints: N/A. • Default Value: N/A. Value range: a string of 0 to 2147483647 characters.
create_time	String	• Definition: time when the query statement was created. • Constraints: N/A. • Range: N/A. • Default Value: N/A.

Parameter	Type	Description
status	String	• Definition: query status. • Constraints: N/A. • Range: CANCELED, FAILED, SUCCESSFUL, RUNNING, SUBMITTED, or ERROR. • Default Value: N/A.
user_name	String	• Definition: username. • Constraints: N/A. • Range: N/A. • Default Value: N/A.

Status code: 400**Table 4-592** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 401

Table 4-593 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 404**Table 4-594** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 408

Table 4-595 Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Status code: 500**Table 4-596** Response body parameters

Parameter	Type	Description
error_code	String	Definition: Error code. Constraints: N/A. Range: [8, 36]. Default Value: N/A.
error_msg	String	Definition: Error message. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.
solution_msg	String	Definition: Solution description. Constraints: N/A. Range: [2, 4096]. Default Value: N/A.

Example Requests

Query the SQL execution history. The returned values include the executed SQL statement, start time, and status.

```
GET https://endpoint/v1/workspaces/{workspace_id}/sessions/{session_id}/statements
{ }
```

Example Responses

Status code: 200

Response body for querying SQL statements under a session.

```
{
  "records" : [ {
    "statement_id" : "4272****02409",
    "statement_content" : "select 1",
    "create_time" : "2025-07-22T08:44:00.000+00:00",
    "status" : "FAILED",
    "user_name" : "example"
  }, {
    "statement_id" : "ba5e****78fd",
    "statement_content" : "select 1",
    "create_time" : "2025-07-22T08:43:58.000+00:00",
    "status" : "SUCCESSFUL",
    "user_name" : "example"
  } ],
  "total" : 2
}
```

Status code: 400

BadRequest

```
{
  "error_code" : "common.01000001",
  "error_msg" : "failed to read http request, please check your input, code: 400, reason: Type mismatch.,
cause: TypeMismatchException"
}
```

Status code: 401

Unauthorized

```
{
  "error_code" : "APIG.1002",
  "error_msg" : "Incorrect token or token resolution failed"
}
```

Status code: 403

Forbidden

```
{
  "error" : {
    "code" : "403",
    "message" : "X-Auth-Token is invalid in the request",
    "title" : "Forbidden"
  },
  "error_code" : 403,
  "error_msg" : "X-Auth-Token is invalid in the request",
  "title" : "Forbidden"
}
```

Status code: 404

NotFound

```
{
  "error_code" : "common.01000001",
  "error_msg" : "response status exception, code: 404"
}
```

Status code: 408

Request Time-out

```
{
  "error_code" : "common.00000408",
  "error_msg" : "timeout exception occurred"
}
```

Status code: 500

InternalServerError

```
{
  "error_code" : "common.00000500",
  "error_msg" : "internal error"
}
```

Status Codes

Status Code	Description
200	Response body for querying SQL statements under a session.
400	BadRequest
401	Unauthorized
403	Forbidden
404	NotFound
408	Request Time-out
500	InternalServerError

Error CodesSee [Error Codes](#).

5 Examples

5.1 Creating an Inference Service

Overview

This section describes how to create an inference service by calling APIs.

This process assumes that the end tenant has been authorized on the console to use the DataArtsFabric service. For details about how to call APIs, see [Calling APIs](#).

Preparations

hostname: Obtain the value from [Regions and Endpoints](#).

Procedure

1. Call the API for creating a workspace to create a workspace and record the workspace ID returned by the API.

Example request

POST <https://{hostname}/v1/workspaces>

Body:

```
{
  "name": "apiworkspace",
  "description": "apie test workspace"
}
```

Example response

```
{
  "id": "e935d0ef-f4eb-4b95-aff1-9d33ae9f57a6",
  "name": "fabric",
  "description": "fabric",
  "create_time": "2023-05-30T12:24:30.401Z",
  "create_domain_name": "admin",
  "create_user_name": "user",
  "metastore_id": "2180518f-42b8-4947-b20b-adfc53981a25",
  "access_url": "https://test.fabric.com/",
  "enterprise_project_id": "01049549-82cd-4b2b-9733-ddb94350c125"
}
```

2. Call the API for creating an endpoint to create an inference endpoint and record the endpoint ID returned by the API.

Example request

POST https://{hostname}/v1/workspaces/{workspace_id}/endpoints

workspace_id: the workspace ID recorded in step 1.

Body:

```
{
  "name": "apie_test",
  "description": "apie test endpoint",
  "type": "inference",
  "reserved_resource": {
    "mu": {
      "spec_code": "mu.llama3.8b",
      "min": 0,
      "max": 1
    }
  }
}
```

Example response

```
{
  "visibility": "PRIVATE",
  "id": "0b5633ba2b904511ad514346f4d23d4b",
  "name": "endpoint1",
  "type": "inference",
  "status": "CREATING",
  "description": "description",
  "create_time": "2023-05-30T12:24:30.401Z",
  "update_time": "2023-05-30T12:24:30.401Z",
  "owner": {
    "domain_name": "string",
    "domain_id": "xxx",
    "user_name": "string",
    "user_id": "xxx"
  },
  "reserved_resource": {
    "mu": {
      "spec_code": "mu.llama3.8b",
      "min": 0,
      "max": 1
    }
  }
}
```

3. Call the API for creating a model to create a private model and record the model ID returned by the API.

Example request

POST https://{hostname}/v1/workspaces/{workspace_id}/models

workspace_id: the workspace ID recorded in step 1.

Body:

```
{
  "name": "LLama3-8b",
  "description": "this is a apie test model",
  "type": "LLM_MODEL",
  "version": {
    "name": "v1",
    "description": "test description",
    "config": {
      "llm_model_config": {
        "base_model_type": "",
        "model_path": ""
      }
    }
  }
}
```

Example response

```
{
  "id": "ac8111bf-3601-4905-8ddd-b41d3e636a4e"
}
```

4. Call the API for creating an inference service to create an inference service and record the inference service ID returned by the API.

Example request

POST https://{hostname}/v1/workspaces/{workspace_id}/services/instances

workspace_id: the workspace ID recorded in step 1.

Body:

```
{
  "source": {
    "id": ""
  },
  "name": "test_serviceInstanceName",
  "description": "description",
  "endpoint_id": ""
}
```

- **id**: the model ID returned by the API in step 3.
- **endpoint_id**: the inference endpoint ID returned by the API in step 2.

Example response

```
{
  "id": "b935d0ef-f4eb-4b95-aff1-9d33ae9f57b6"
}
```

5. Call the API for inference request to initiate an inference request.

Example request

POST https://{hostname}/v1/workspaces/{workspace_id}/services/instances/{instance_id}/invocations

- **workspace_id**: the workspace ID recorded in step 1.
- **instance_id**: the inference service ID recorded in step 4.

Body:

```
{
  "messages": [
    {
      "role": "user",
      "content": "hello"
    }
  ]
}
```

Response example: The API for inference request returns results in streaming mode.

```
{
  "id": "chatcmpl-62dda7304f53451c9477e0",
  "object": "chat.completion.chunk",
  "created": 1730120529,
  "model": "ada1d67d-f2a1-4e77-838f-0d8688d756f4",
  "choices": [
    {
      "index": 0,
      "delta": {
        "role": "assistant",
        "content": "\n\nHello! LLM stands for Large Language Model. It refers to artificial intelligence models, like myself,"
      },
      "finish_reason": null
    }
  ],
  "system_fingerprint": null,
  "usage": null
}
```

6 Permissions and Supported Actions

6.1 Introduction

This section describes fine-grained permissions management for your DataArts Fabric. If your Huawei Cloud account does not require individual IAM users, skip this chapter.

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

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

NOTE

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

An account has all the permissions required to call all APIs, but IAM users must be assigned the required permissions. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions allowing the actions can call the API successfully. For example, if an IAM user wants to query ECSs using an API, the user must have been granted permissions that allow the **ecs:servers:list** action.

Supported Actions

DataArts Fabric provides two types of policies: system-defined policies and custom policies. If system-defined policies do not meet your requirements, you can create custom policies and apply them to user groups for 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.
- Related actions: Actions on which a specific action depends to take effect. When assigning permissions for the action to a user, you also need to assign permissions for the related actions.
- IAM or enterprise projects: Type of projects for which an action will take effect. Policies that contain actions for both IAM and enterprise projects can be used and take effect for both IAM and Enterprise Management. Policies that only contain actions for IAM projects can be used and only take effect for IAM. For details about the differences between IAM and enterprise projects, see [Differences Between IAM and Enterprise Management](#).

6.2 Actions Supported by Policies

This section describes the actions supported by DataArts Fabric policies.

Supported Actions

DataArts Fabric provides two types of policies: system-defined policies and custom policies. If system-defined policies do not meet your requirements, you can create custom policies and apply them to user groups for refined access control. The following are related concepts:

- Permissions: Statements in a policy that allow or deny certain operations.
- APIs: REST APIs that can be called in a custom policy.
- Actions: Specific operations that are allowed or denied by a custom policy. You can specify actions in a custom policy to control the permissions of IAM users.
- Related actions: Actions on which a specific action depends to take effect. When assigning permissions for the action to a user, you also need to assign permissions for the related actions.
- IAM projects/Enterprise projects: The authorization scope of a custom policy. Policies that contain actions for both IAM and enterprise projects can be used and applied for both IAM and Enterprise Management. Policies that contain actions only for IAM projects can be used and applied to IAM only. Administrators can check whether an action supports IAM projects or enterprise projects in the action list. For details about the differences between IAM and enterprise projects, see [Differences Between IAM and Enterprise Management](#).

DataArts Fabric supports the following actions in custom policies:

Lifecycle Management

Table 6-1 Lifecycle management actions

Permission	API	Action	Related Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Listing workspaces	GET /v1/workspaces	DataArtsFabric:workspace:list	-	√	√
Creating a workspace	POST /v1/workspaces	DataArtsFabric:workspace:create	lakeformation:instance:describe	√	√
Modifying a workspace	PUT /v1/workspaces/{workspace_id}	DataArtsFabric:workspace:alter	lakeformation:instance:describe	√	×
Modifying workspace monitoring configurations	PUT /v1/workspaces/{workspace_id}/metrics	DataArtsFabric:workspace:alterMetrics	-	√	×
Deleting a workspace	DELETE /v1/workspaces/{workspace_id}	DataArtsFabric:workspace:drop	-	√	×
Querying compute resources	GET /v1/workspaces/{workspace_id}/computes	DataArtsFabric:workspace:listCompute	-	√	×
Creating a computing resource	POST /v1/workspaces/{workspace_id}/computes	DataArtsFabric:workspace:createCompute	-	√	×

Permission	API	Action	Related Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Modifying a compute resource	PUT /v1/workspaces/{workspace_id}/computes/{compute_id}	DataArtsFabric:workspace:alterCompute	-	√	×
Deleting a compute resource	DELETE /v1/workspaces/{workspace_id}/computes/{compute_id}	DataArtsFabric:workspace:dropCompute	-	√	×
Listing the endpoints of a workspace	GET /v1/workspaces/{workspace_id}/endpoints	DataArtsFabric:endpoint:list	-	√	×
Creating an endpoint for a workspace	POST /v1/workspaces/{workspace_id}/endpoints	DataArtsFabric:endpoint:create	-	√	×
Querying the endpoint details of a workspace	GET /v1/workspaces/{workspace_id}/endpoints/{endpoint_id}	DataArtsFabric:endpoint:show	-	√	×
Modifying an endpoint of a workspace	PUT /v1/workspaces/{workspace_id}/endpoints/{endpoint_id}	DataArtsFabric:endpoint:alter	-	√	×

Permission	API	Action	Related Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Deleting an endpoint of a workspace	DELETE /v1/workspaces/{workspace_id}/endpoints/{endpoint_id}	DataArtsFabric:endpoint:drop	DataArtsFabric:job:listJobInstance DataArtsFabric:service:listInstance	√	×
Subscribing to a public endpoint	POST /v1/workspaces/{workspace_id}/endpoints/{endpoint_id}/subscribe	DataArtsFabric:endpoint:subscribe	-	√	×
Listing jobs	GET /v1/workspaces/{workspace_id}/jobs	DataArtsFabric:job:list	-	√	×
Creating a job	POST /v1/workspaces/{workspace_id}/jobs	DataArtsFabric:job:create	-	√	×
Querying a job	GET /v1/workspaces/{workspace_id}/jobs/{job_id}/versions	DataArtsFabric:job:show	-	√	×
Modifying a job	PUT /v1/workspaces/{workspace_id}/jobs/{job_id}	DataArtsFabric:job:alter	-	√	×
Deleting a job	DELETE /v1/workspaces/{workspace_id}/jobs/{job_id}	DataArtsFabric:job:drop	DataArtsFabric:job:listJobInstance	√	×

Permission	API	Action	Related Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Creating a model	POST /v1/workspaces/{workspace_id}/models	DataArtsFabric:model:create	obs:bucket:HeadBucket obs:bucket:ListBucketVersions obs:bucket:ListAllMyBuckets obs:bucket:ListBucket	√	×
Listing models	GET /v1/workspaces/{workspace_id}/models	DataArtsFabric:model:list	-	√	×
Querying a model	GET /v1/workspaces/{workspace_id}/models/{model_id}/versions	DataArtsFabric:model:show	-	√	×
Deleting a model	DELETE /v1/workspaces/{workspace_id}/models/{model_id}/versions	DataArtsFabric:model:drop	DataArtsFabric:service:listInstance	√	×
Modifying a model	PUT /v1/workspaces/{workspace_id}/models/{model_id}/versions	DataArtsFabric:model:alter	-	√	×
Creating a tag	POST /v1/{project_id}/fabric-workspace/{workspace_id}/tags/create	DataArtsFabric:workspace:tagResource	-	√	×

Permission	API	Action	Related Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Deleting a tag	POST /v1/{project_id}/fabric-workspace/{workspace_id}/tags/delete	DataArtsFabric:workspace:unTagResource	-	√	×
Listing tags	GET /v1/{project_id}/fabric-workspace/tags	DataArtsFabric:workspace:listTags	-	√	×
Querying tags of a specific resource	GET /v1/{project_id}/fabric-workspace/{workspace_id}/tags	DataArtsFabric:workspace:listTagsForResource	-	√	×
Listing resources by tag	POST /v1/{project_id}/fabric-workspace/resource-instances/filter	DataArtsFabric:workspace:listResourcesByTag	-	√	√
Creating a notification policy	POST /v1/workspaces/{workspace_id}/messages	DataArtsFabric:workspace:createMessagePolicy	iam:agencies:listAgencies iam:roles:listRoles iam:permissions:listRolesForAgency smn:topic:list	√	×
Listing notification policies	GET /v1/workspaces/{workspace_id}/messages	DataArtsFabric:workspace:listMessagePolicy	-	√	×
Deleting a notification policy	DELETE /v1/workspaces/{workspace_id}/messages/{message_policy_id}	DataArtsFabric:workspace:deleteMessagePolicy	-	√	×

Permission	API	Action	Related Action	IAM Project (Project)	Enterprise Project (Enterprise Project)
Listing running jobs	GET /v1/workspaces/{workspace_id}/jobs/runs	DataArtsFabric:job:listJobInstance	DataArtsFabric:workspace:list	√	×
Running a job	POST /v1/workspaces/{workspace_id}/jobs/runs	DataArtsFabric:job:run	DataArtsFabric:workspace:list DataArtsFabric:endpoint:show	√	×
Querying a running job	GET /v1/workspaces/{workspace_id}/jobs/runs/{run_id}	DataArtsFabric:job:showJobInstance	DataArtsFabric:workspace:list DataArtsFabric:endpoint:show	√	×
Deleting a running job	DELETE /v1/workspaces/{workspace_id}/jobs/runs/{run_id}	DataArtsFabric:job:dropJobInstance	DataArtsFabric:workspace:list DataArtsFabric:endpoint:show	√	×
Cancelling a running job	POST /v1/workspaces/{workspace_id}/jobs/runs/{run_id}/cancel	DataArtsFabric:job:cancelJobInstance	DataArtsFabric:workspace:list DataArtsFabric:endpoint:show	√	×
Invoking an inference service instance	POST /v1/workspaces/{workspace_id}/services/instances/{instance_id}/invocations	DataArtsFabric:model:inference	DataArtsFabric:workspace:list DataArtsFabric:endpoint:show	√	×
Listing routes	GET /v1/workspaces/{workspace_id}/routes	DataArtsFabric:workspace:listRoute	DataArtsFabric:workspace:list	√	×
Querying sessions	POST /v1/sessions	DataArtsFabric:workspace:showSession	-	√	×

7 Appendix

7.1 Status Codes

The following table describes the status codes.

Table 7-1 Status codes

Status Code	Message	Description
100	Continue	The client should proceed with the request. This temporary response is used to inform the client that some requests have been received and not rejected by the server.
101	Switching Protocols	Switching protocols. The protocol can only be switched to a later version. For example, switch the current HTTP protocol to the latest version.
200	OK	The request has been fulfilled.
201	Created	The request for creating a resource has been fulfilled.
202	Accepted	The request has been accepted but is still being processed.
203	Non-Authoritative Information	The request has been fulfilled, but the HTTP response does not contain the authoritative information.
204	NoContent	The request has been fulfilled, but the HTTP response does not contain a response body. The status code is returned in response to an HTTP OPTIONS request.

Status Code	Message	Description
205	Reset Content	The server has fulfilled the request, but the client is required to reset the content.
206	Partial Content	The server has fulfilled the request, but only part of the GET request is processed.
300	Multiple Choices	There are multiple options for the location of the requested resource. The response contains a list of resource characteristics and addresses from which the user or user agent (such as a browser) can choose the most appropriate one.
301	Moved Permanently	The requested resource has been assigned a new permanent URI, and the new URI is contained in the response.
302	Found	The requested resource resides temporarily under a different URI.
303	See Other	The response to the request can be found under a different URI. It should be retrieved using a GET or POST method.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, no resource is returned.
305	Use Proxy	The requested resource must be accessed through a proxy.
306	Unused	The HTTP status code is no longer used.
400	BadRequest	The request is invalid. Modify the request and retry.
401	Unauthorized	The status code is returned after the client provides the authentication information, indicating that the authentication information is incorrect or invalid.
402	Payment Required	This status code is reserved for future use.
403	Forbidden	The request has been rejected. The server has received and understood the request but it refused to respond, because the request is set to deny access. Modify the request and retry.
404	NotFound	The requested resource cannot be found. Modify the request and retry.

Status Code	Message	Description
405	MethodNotAllowed	The request contains a method that is not supported by the resource. Modify the request and retry.
406	Not Acceptable	The server cannot fulfill the request according to the content characteristics of the request.
407	Proxy Authentication Required	This status code is similar to 401, but the client must be authenticated using a proxy.
408	Request Time-out	The request timed out. The client may repeat the request without any changes.
409	Conflict	The request could not be processed due to a conflict with the current state of the resource. This status code indicates that the client attempted to create a resource that already exists, or the requested update failed due to a conflict.
410	Gone	The requested resource is no longer available. This status code indicates that the requested resource has been permanently deleted.
411	Length Required	The server refuses to process the request without a defined Content-Length .
412	Precondition Failed	The server failed to meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The server rejects the request because the request entity is too large to process. The server may close the connection to prevent the client from continuing the request. If the server cannot process the request temporarily, the response will contain a Retry-After header field.
414	Request-URI Too Large	The request URI is too long for the server to process.
415	Unsupported Media Type	The server cannot process the media format in the request.
416	Requested range not satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the Expect request header field.

Status Code	Message	Description
422	UnprocessableEntity	The request is well-formed but is unable to be processed due to semantic errors.
429	TooManyRequests	The client has sent excessive number of requests to the server within a given time (exceeding the limit on the access frequency of the client), or the server has received an excessive number of requests within a given time (beyond its processing capability). In this case, the client should resend the request after the time specified in the Retry-After header of the response has elapsed.
500	InternalServerError	The server can receive but cannot understand the request.
501	Not Implemented	The server does not support the requested function.
502	Bad Gateway	The server acts as a gateway or proxy and receives an invalid request from a remote server.
503	ServiceUnavailable	The requested service is invalid. Modify the request and retry.
504	ServerTimeout	The request cannot be fulfilled within a given time. This status code is returned to the client only when the Timeout parameter is specified in the request.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

7.2 Error Codes

If an error occurs during API calling, no data is returned. But you can locate the error cause based on the error code of each API. Generally, if an error occurs during API calling, HTTP status code 4xx or 5xx is returned. The response body contains the specific error code and error information. If you cannot find the cause of the error, contact customer service and provide the error code for troubleshooting.

Format of the Error Response Body

If an error occurs during API calling, an error code and an error message will be returned, as shown in the following:

```
{  
  "error_msg": "Inference features are not enabled.",  
}
```

```
"error_code": "dataartsfabric.00010195"  
}
```

In the preceding information, **error_code** is an error code, and **error_msg** indicates the error message.

Description

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

Table 7-2 DataArts Fabric error codes

Status Code	Error Code	Error Message	Solution
500	00000001	Running, please wait.	Please take a rest and obtain it again.
400	00010003	Workspace not exist.	Create a workspace first.
400	00010004	Bucket entered not exist.	Check the bucket.
400	00010005	Protocol version entered not exist.	Check the protocol version.
400	00010006	Empty protocol version.	Check the protocol version.
400	00010007	Resource clearing task ID <i>xx</i> error.	Check the task ID.
400	00010009	No resources found.	Enter correct resource and project IDs.
400	00010011	Invalid specification code.	Enter a correct specification code.
400	00010022	The feature [<i>xx</i>] is restricted and is open only to whitelisted customers.	Contact O&M personnel to whitelist you.
400	00010023	Invalid time format in the parameter.	Invalid time format.
400	00010024	The service agency is abnormal.	Please approve the service authorization again on the service authorization page.
400	00010026	Duplicate key in the tag list.	Check the keys in the tag list.
400	00010028	Duplicate member value in the tag list.	Check the member values in the tag list.

Status Code	Error Code	Error Message	Solution
400	00010029	Null members are not allowed in the tag list.	Check the members in the tag list.
400	00010030	Null members are not allowed in the condition list.	Check the members in the condition list.
400	00010031	Null values are not allowed in the member value list of the tag list.	Check the member values in the tag list.
400	00010032	Null member values are not allowed in the tag list.	Check the member values in the tag list.
400	00010033	Null member values are not allowed in the condition list.	Check the member values in the condition list.
400	00010034	System tags cannot be deleted in batches.	Select another tag operation.
400	00010035	No permissions for operating system labels.	Check your permissions.
400	00010036	System labels cannot be empty.	Check system tag parameters.
400	00010037	System labels and labels cannot be used concurrently.	Select a system tag or tag.
400	00010038	Unauthorized requests.	Check permissions <i>xx</i> and retry after authorization.
400	00010043	Failed to create instances due to insufficient resources.	Contact O&M personnel to check resources.
400	00010046	API traffic limit threshold reached.	Try again later.
400	00010049	Invalid parameter, with value of <i>xx</i> .	Check whether the parameter is valid.
400	00010051	No permission for sending messages.	Check whether the configuration is correct.
400	00010058	Failed to collect the account ID during overload control.	Check the account information.
400	00010059	Access tenant unauthorized.	Check whether the access tenant has been authorized.

Status Code	Error Code	Error Message	Solution
400	00010060	Access tenant authorized.	Do not repeatedly authorize the access tenant.
400	00010062	Failed to perform this operation in the current task status.	Check the task status.
400	00010063	xx already exists.	Check the task name xx.
400	00010064	The number of xx has reached the upper limit.	Delete idle tasks and re-create them, or contact O&M personnel to increase the upper limit.
400	00010065	Risk check failed.	Check your balance.
400	00010066	Task xx not exist.	Check the job ID.
400	00010067	Failed to initialize the task because the number of tasks may have reached the upper limit.	Try again later.
400	00010068	The application in the xx state cannot be deleted. Duplicate deletion is not allowed.	The current application is being deleted or has been deleted. Do not repeatedly delete it.
400	00010069	Application not exist.	Use a correct application ID.
400	00010071	The product is not found. spec code: xx.	Please purchase an existing product.
400	00010072	The product id not found.	Please try again.
400	00010073	No permission to buy xx.	Please purchase other product.
400	00010075	The application can not be updated.	Please update the application after the status is STOPPED.
400	00010076	Appstore application not exist.	Please use correct application id.
400	00010077	Appstore application version not exist.	Please use correct version id.
400	00010081	Create application failed. error message: xx.	Please Try again based on the failure cause.

Status Code	Error Code	Error Message	Solution
400	00010082	Log file does not exist.	Please check whether files exist in the log storage path.
400	00010083	The Job has not been run.	Please ensure that your job has been run before you can view the log.
400	00010084	The job is running.	Please check the job status, and retry later.
400	00010085	The job is not running.	Please check the job status, and retry later.
400	00010086	xx QPS spec does not exist.	Please check the qps spec.
400	00010089	OBS object does not exist.	Please check the obs url.
400	00010090	Yaml file format error.	Please check the yaml file's format.
400	00010091	License not exist, region: xx, esn: xx.	Please check whether the license exists.
400	00010092	SystemMode not match: xx.	Please check the license mode.
400	00010093	Bbom is empty.	Please check the license bbom.
400	00010094	Bbom code not match: xx.	Please check the bbom code.
400	00010095	Bbom type not match: xx.	Please check the bbom type.
400	00010096	License parse fail.	Please check the license content.
400	00010097	License exceed.	Please check the license.
400	00010098	License pre exceed.	Please check the license.
400	00010099	No match license content.	Please check the license content, lsn: xx.
400	00010100	No match bbom, region: xx.	Please check the license bbom.
400	00010101	License content esn is not match: xx, license esn: xx.	Please check the license content esn.

Status Code	Error Code	Error Message	Solution
400	00010102	License content is expired.	Please check the license content bbom deadline.
400	00010103	The task resource is queuing.	Please wait and try again.
400	00010104	Client access mode is not auto.	Please check the client access mode.
400	00010105	Create application version failed, error message: <i>xx</i> .	Please try again based on the failure cause.
400	00010107	Job is in unauthorized instance <i>xx</i> .	Please try again after you are authorized in <i>xx</i> instance.
400	00010108	Job is in nonexistent instance <i>xx</i> .	Please try again after recovering <i>xx</i> instance, or create new job in existing instance.
400	00010110	SMN message verification failed.	Check whether the message content is tampered with.
400	00010111	Job parameter <i>xx</i> does not exist.	Please create or edit job such that it has parameter <i>xx</i> .
400	00010116	The qps spec parameter is empty.	Please check the input parameters.
400	00010117	Only one qps parameter is required.	Please check the input parameters.
400	00010118	Feature is not supported.	The feature is not supported. Please look out for version updates.
400	00010120	Unsupported data source type <i>xx</i> .	Please check the data source type.
400	00010121	Unsupported policy type <i>xx</i> .	Please check the policy type.
400	00010122	The vpc network address is conflict with lakeformation's network address.	Please check the vpc network.
400	00010123	Unsupported migration network type.	Please check the migration network type.

Status Code	Error Code	Error Message	Solution
400	00010124	The SMN service passed in an invalid confirmation subscription or certificate URL.	Enter a URL of the HTTPS type.
400	00010125	Error dlf access endpoint.	Please check the dlf access endpoint.
400	00010127	Insufficient API access request controller item capacity for License.	Please check the API access request controller item capacity of the License.
400	00010128	Sync object is null.	Please check the parameter sync objects of the job.
400	00010130	The <i>xx</i> not exist.	Please use the correct condition.
400	00010132	<i>xx</i> already exists.	Please check input.
400	00010133	Failed to register with the CAP, <i>xx</i> .	Please check whether the CAP information is correct.
400	00010134	User or agency not exist.	Please check user or agency.
400	00010135	The cluster ID or session is incorrect.	Please enter the correct information.
400	00010136	The number of subnets exceeds the limit.	Please check input.
400	00010137	Delete cap failed, <i>xx</i> .	Please check cap is shared status, and set current version of cap to null.
400	00010138	Create endpoint deployment failed. error message: <i>xx</i> .	Locate the cause based on the log information, or contact O&M personnel.
400	00010142	Failed to create the service agency: <i>xx</i> .	Please check the agency quota or apply for a new quota and try again.
400	00010143	<i>xx</i> cannot be created due to insufficient resources.	Please check your resources status available or make sure you are using less than what you have left.
400	00010144	The current tenant has workspaces and cannot cancel the authorization.	Delete the tenant's all workspaces and cancel the authorization.

Status Code	Error Code	Error Message	Solution
400	00010145	Type error, <i>xx</i> .	Please check type of input.
400	00010146	The current version cannot be deleted.	Please try again when the version is not current version.
400	00010147	No permission to access resource.	Please check your permissions to access the resource.
400	00010148	Node pool not exist.	Please check input.
400	00010149	Public resources cannot be deleted.	Please confirm that the resource is not public before deleting it.
400	00010150	Operation is not allowed for request endpoint.	Please confirm the endpoint is not default, and only name/description updated for useOnDemandResource endpoint.
400	00010151	Parameter <i>xx</i> value is invalid.	Please input valid parameter value: <i>xx</i> .
400	00010152	Can not delete endpoint with job run, service instance or sql session exists.	Please delete all the job runs, service instances and sql session on this endpoint, and try again.
400	00010153	Failed to perform this operation in the current endpoint status.	Check the endpoint status.
400	00010154	Unsupported authorized source type: <i>xx</i> .	The following resource types are supported: <i>xx</i> .
400	00010155	The current workspace has <i>xx</i> resource and cannot delete.	Delete the workspaces all <i>xx</i> resource and delete.
400	00010157	The OBS path to be authorized has been authorized.: <i>xx</i> .	Please check input obs location.
400	00010158	OBS service occur exception. OBS request ResponseCode: <i>xx</i> , request ID: <i>xx</i> .	Please check the OBS service status and OBS location: <i>xx</i> .
400	00010159	The OBS path to be authorized does not exist or is not a parallel file system: <i>xx</i> .	Please check input obs location.

Status Code	Error Code	Error Message	Solution
400	00010162	Duplicate workspace name.	Enter another workspace name.
400	00010163	Unsupported policy type: <i>xx</i> .	Enter the correct policy type by referring to the API document on the official website.
400	00010164	Can't delete required policy: <i>xx</i> .	Please check input.
400	00010165	Unsupported message type: <i>xx</i> .	Enter the correct message type by referring to the API document on the official website.
400	00010166	Unsupported notify type: <i>xx</i> .	Enter the correct notify type by referring to the API document on the official website.
400	00010167	Do not authorize agency permissions smn policy, cannot use the message notify function.	Please Authorize the permission: <i>xx</i> on the Service Authorization page.
400	00010168	The number of message notification policies in the current workspace has reached the upper limit: <i>xx</i> .	Please delete redundant notification policies and create a new one.
400	00010169	The same message notification policy exists in the parameters: <i>xx</i> .	Please check input.
400	00010170	No notification policy is found, policy id: <i>xx</i> .	Please enter the ID of an existing policy.
400	00010171	OBS path does not exist: <i>xx</i> .	Please check the obs url.
400	00010172	Unsupported period callback operationType <i>xx</i> .	Please check input operation.
400	00010173	Unsupported Enterprise Project ID <i>xx</i> .	Please check input Enterprise Project ID.
400	00010174	The resource currently in use cannot be deleted.	Please try again when resource is not in use.

Status Code	Error Code	Error Message	Solution
400	00010175	Public version cannot be deleted.	Please confirm that the resource is not public before deleting the version.
400	00010176	The number of workspaces created in the current domain has reached the limit.	Please delete idle workspaces and recreate them, or contact O&M personnel to increase the upper limit.
400	00010177	Cap name <i>xx</i> already exists in the workspace <i>xx</i> .	Please use another CAP name, or contact O&M personnel to increase the upper limit.
400	00010178	Cap version name <i>xx</i> already exists in current Cap.	Please use another CAP version name, or contact O&M personnel to increase the upper limit.
400	00010179	Operate app instance failed: <i>xx</i> .	Please check input.
400	00010180	Instance is unreleasable frozen.	Please delete after the instance is unfrozen.
400	00010181	Frozen instance change operation is limited, only basic info update allowed.	Perform this operation after the instance is unfrozen.
400	00010183	Request resource exceed limit.	Please check max resource limit config.
400	00010185	This feature is not available currently.	Contact the O&M personnel to confirm the feature capability set.
400	00010188	The metastore cannot be modified after being added for the first time.	Please check whether the metastore is changed.
400	00010189	The version currently has been used by <i>xx</i> and cannot be deleted.	Please try again after delete all <i>xx</i> that use the version.
400	00010190	Job-related features are not enabled.	Contact O&M personnel to enable job features.
400	00010191	Ray features are not enabled.	Contact O&M personnel to enable ray features.

Status Code	Error Code	Error Message	Solution
400	00010192	The resource specification of endpoint cannot be modified.	The resource specification of endpoint cannot be modified.
400	00010193	The value of param {} is not supported yet.	Please check input operation.
400	00010194	The number of endpoints created in the current workspace has reached the limit.	Delete idle endpoints and create them again, or contact O&M personnel to increase the maximum number of endpoints.
400	00010195	Inference features are not enabled.	Contact O&M personnel to enable inference features.
400	00010196	The ray cluster status is abnormal. Check the resource usage or consult O&M personnel.	Check the resource usage or consult O&M personnel.
400	00010197	The compute status is not running status.	Recover the compute status or create a new one after delete it.
400	00090002	Failed to collect the account ID during overload control.	Check the account information.
400	00090003	Resources are insufficient when a resource group is applied for.	Check the account information.
400	00090004	Failed to find workspace.	Please use correct workspace.
400	00090005	Failed to find endpoint.	Please use correct endpoint.
400	00090006	The corresponding resource in the workspace cannot be found.	Ensure that the corresponding resource has been purchased in the workspace.
400	00090008	Create endpoint failed. error message: xx.	Please Try again based on the failure cause.
400	00090009	The xx not exist.	Please try to use correct info.
400	00090012	No permission to use: xx.	Please get permission first.
400	00090013	Ray job run failed: xx.	Please check job run config.

Status Code	Error Code	Error Message	Solution
400	00090014	Active job can not delete: xx.	Please wait the job to complete or stop job run first if the job is running.
400	00090015	Public instance can not delete: xx.	Please check the usage of public instance.
400	00090016	Cancel service instance failed: xx.	Please check whether the instance can be canceled.
400	00090017	Cancel job failed: xx.	Please check status of the task.
400	00090018	Update job failed: xx.	Please check whether the job can be updated.
400	00090019	Create service instance failed: xx.	Please check the input parameter of create service instance.
400	00090020	Delete service instance failed: xx.	Please check the input parameter of service instance.
400	00090021	Update service instance failed: xx.	Please check the input parameter of update service instance.
400	00090022	Parameter xx value is invalid.	Please input valid parameter value: xx.
400	00090023	Inference failed: xx.	Please input valid inference request: xx.
400	00090024	Operation is not allowed for request endpoint.	Please confirm the endpoint is use on demand resource endpoint.
400	00090025	Base model type xx does not match the endpoint's resource.	Please check if the app's base model type matches the endpoint's resources.
400	00010038	Unauthorized requests.	Check permissions xx and retry after authorization.
400	00090047	Obs download error xx.	Please check Obs download config xx.
400	00090050	Obs invalid path error xx.	Please input valid Obs path xx.
400	00090058	Request resource exceed limit.	Please check max resource limit config.
400	00090059	Token is null.	Please access with Token.

Status Code	Error Code	Error Message	Solution
400	00090060	App instance replica already exists on the specified engine instance.	Check whether the entered app instance replia ID is duplicate or incorrect.
400	00090061	This method is not implemented.	Do not use this method.
400	00090062	Endpoint being maintained.	Try again later or create an app instance on another endpoint.
400	00090063	Endpoint is frozen.	Try restore endpoint status or contact O&M personnel.
400	00090064	Endpoint is inactive.	Subscribe the public endpoint before use.
400	00090067	Inference features are not enabled.	Contact O&M personnel to enable inference features.

7.3 Obtaining a Project ID

Obtaining a Project ID by Calling an API

You can also obtain a project ID by calling the API for [querying project information](#).

The API for obtaining a project ID is **GET https://{Endpoint}/v3/projects**. **{Endpoint}** indicates the IAM endpoint, which can be obtained from [Regions and Endpoints](#). For details about API authentication, see [Authentication](#).

The following is an example response. The value of **id** is the project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e****",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e****",
      "name": "cn-north-4",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d****"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d****",
      "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

```
}  
}
```

Obtaining a Project ID from the Console

You need to enter a project ID in some URLs when calling an API. To obtain a project ID, perform the following steps:

1. Log in to Huawei Cloud console.
2. Hover over the username in the upper right corner and choose **My Credentials** from the drop-down list.
3. On the **Projects** tab of the **API Credentials** page, view project IDs.
If there are multiple projects, unfold the target region and obtain the project IDs from the **Project ID** column.

7.4 Obtaining an Account ID

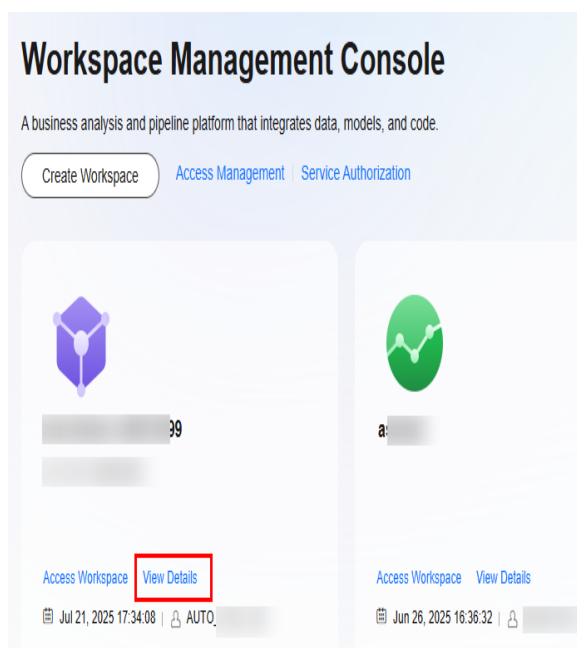
You need to enter an account ID in some URLs when calling APIs. To obtain an account ID, perform the following steps:

1. Log in to Huawei Cloud console.
2. Hover over the username in the upper right corner and choose **My Credentials** from the drop-down list.
3. On the **API Credentials** page, the account ID is displayed.

7.5 Obtaining a Workspace ID

1. Log in to Workspace Management Console, and click **View Details** on the target workspace page.

Figure 7-1 Viewing details



2. On the **Basic information** page, the workspace ID is displayed.

Figure 7-2 Obtaining a workspace ID

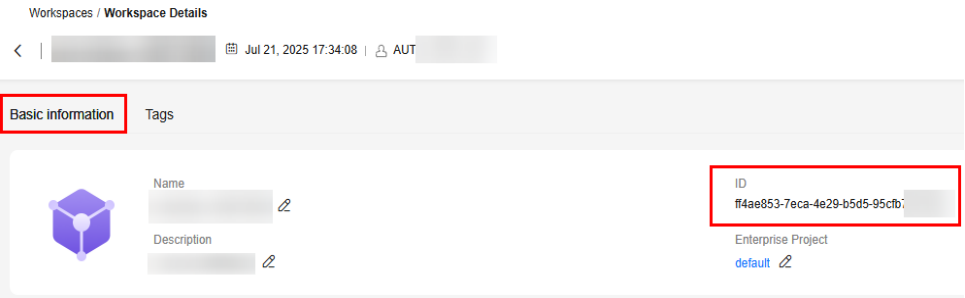
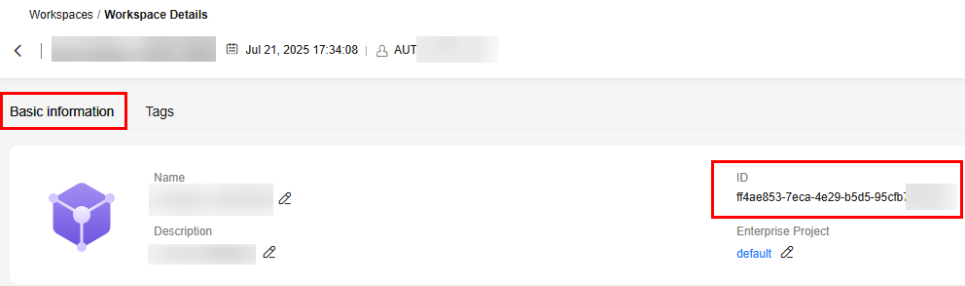


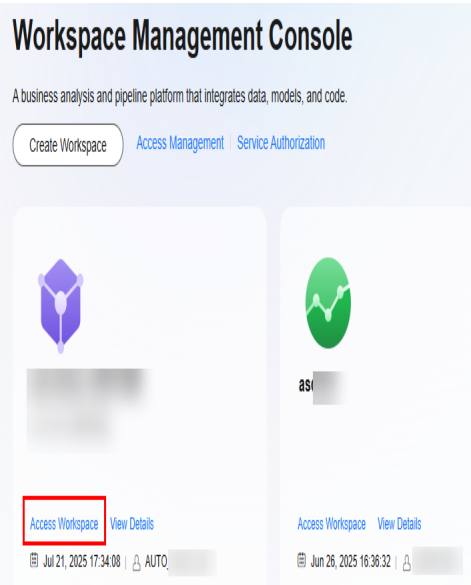
Figure 7-3 Figure



7.6 Obtaining an Endpoint ID

1. Log in to Workspace Management Console and click **Access Workspace** on the target workspace page.

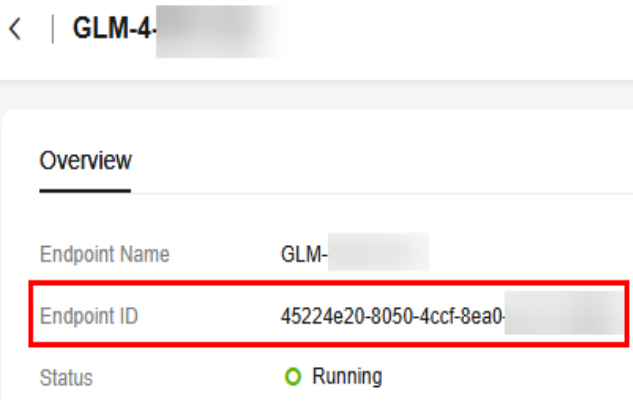
Figure 7-4 Accessing a workspace



2. In the navigation pane on the left, choose **Inference Endpoints** and click the **My Endpoints** or **Public Endpoints** tab.

3. Click the target endpoint. On the **Overview** page, endpoint ID is displayed.

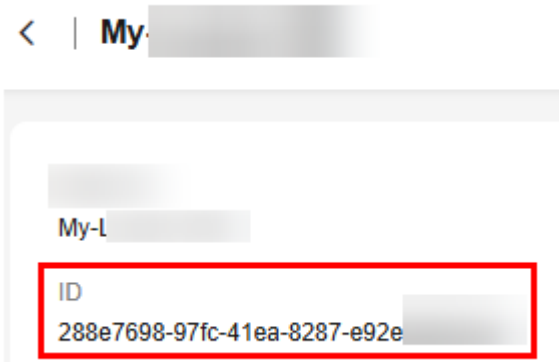
Figure 7-5 Obtaining an endpoint ID



7.7 Obtaining a Model ID

- Step 1** Log in to **Workspace Management Console**.
- Step 2** Select a created workspace, click **Access Workspace**, and choose **Resources and Assets > Model**.
- Step 3** On the **My Models** or **Public Models** tab, click the target model name.
- Step 4** On the **Model Details** page, the model ID is displayed.

Figure 7-6 Obtaining a model ID



----End

7.8 Obtaining an Inference Service Instance ID

- Step 1** Log in to **Workspace Management Console**.
- Step 2** Select a created workspace, click **Access Workspace**, and choose **Development and Production > Inference Services**.
- Step 3** On the **My Inference Services** or **Public Inference Services** tab, click the target inference service name.

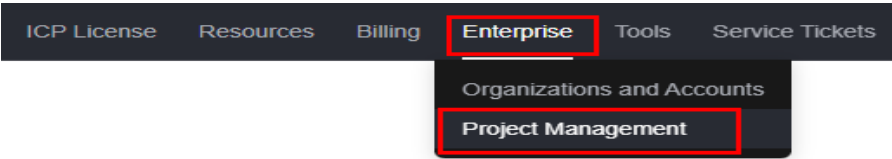
Step 4 On the **Overview** page, the inference instance ID is displayed.

----End

7.9 Obtaining an Enterprise Project ID

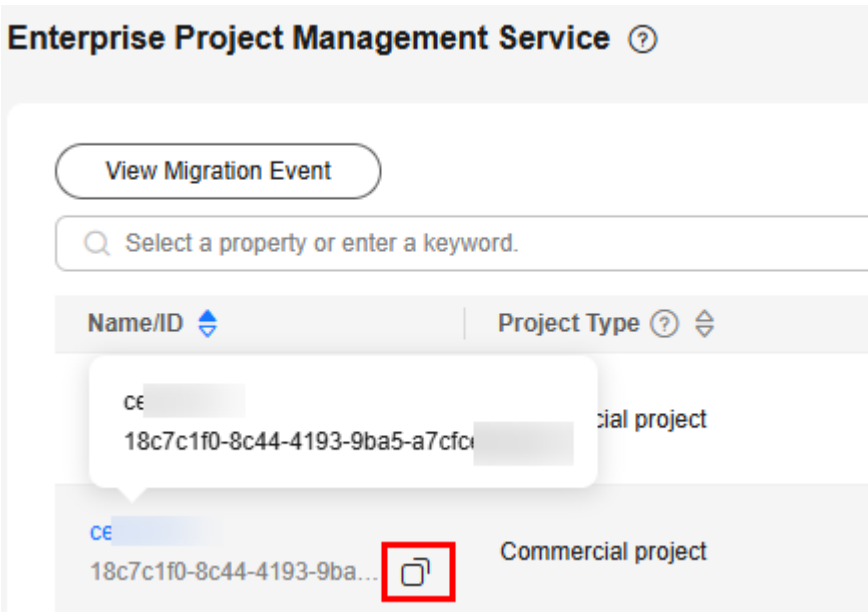
- Step 1** Log in to **Workspace Management Console**.
- Step 2** On the top navigation bar, choose **Enterprise > Project Management**.

Figure 7-7 Project management



Step 3 On the **Enterprise Project Management** page, click the copy icon in the **Name/ID** column to copy the enterprise project ID.

Figure 7-8 Obtaining an enterprise project ID



----End