

Database Security Service

API Reference

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Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base
Bantian, Longgang
Shenzhen 518129
People's Republic of China

Website: <https://www.huawei.com>

Email: support@huawei.com

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1 Before You Start

Overview

Database Security Service (DBSS) can be used to audit your databases, detect SQL injection attacks, and identify high-risk operations based on the big data analytics technologies.

API Calling

DBSS supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see [Calling APIs](#).

Concepts

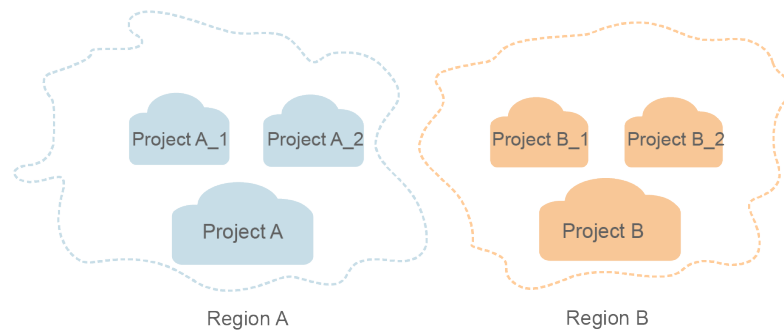
- **Account**
An account is created upon successful registration. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity and should not be used to perform routine management. For security purposes, create IAM users and grant them permissions for routine management.
- **User**
An IAM user is created by an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).
The account name, username, and password will be required for API authentication.
- **Region**
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 as universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides services of the same type only or for specific tenants.
- **Availability Zone (AZ)**

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

- **Project**

Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. For more refined access control, create subprojects under a project and create resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

Figure 1-1 Project isolating model



2 Calling APIs

2.1 Making an API Request

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

Request URI

A request URI is in the following format:

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

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

- **URI-scheme:**
Protocol used to transmit requests. All APIs use HTTPS.
- **Endpoint:**
Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from .
For example, the endpoint of IAM in region **EU-Dublin** is **iam.eu-west-101.myhuaweicloud.com**.
- **resource-path:**
Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the **resource-path** of the API used to obtain a user token is **/v3/auth/tokens**.
- **query-string:**
Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of "Parameter name=Parameter value". For example, **?limit=10** indicates that a maximum of 10 data records will be displayed.

For example, to obtain an IAM token in region **EU-Dublin**, obtain the endpoint of IAM (**iam.eu-west-101.myhuaweicloud.com**) for this region and the **resource-**

path (/v3/auth/tokens) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

```
https://iam.eu-west-101.myhuaweicloud.com/v3/auth/tokens
```

NOTE

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

Request Methods

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

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

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

```
POST https://iam.eu-west-101.myhuaweicloud.com/v3/auth/tokens
```

Request Header

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

Common request header fields are as follows:

- **Content-Type**: specifies the request body type or format. This field is mandatory and its default value is **application/json**. Other values of this field will be provided for specific APIs if any.
- **Authorization**: specifies signature authentication information. This field is optional. When AK/SK authentication is enabled, this field is automatically specified when SDK is used to sign the request.
- **X-Sdk-Date**: specifies the time when a request is sent. This field is optional. When AK/SK authentication is enabled, this field is automatically specified when SDK is used to sign the request.
- **X-Auth-Token**: specifies a user token only for token-based API authentication. The user token is a response to the API used to **obtain a user token**. This API is the only one that does not require authentication.
- **X-Project-ID**: specifies subproject ID. This field is optional and can be used in multi-project scenarios. The **X-Project-ID** field is mandatory in the request header for accessing resources in a subproject through AK/SK-based authentication.

- **X-Domain-ID**: account ID, which is optional. When you call APIs of global services using AK/SK-based authentication, **X-Domain-ID** needs to be configured in the request header.

```
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=*****, SignedHeaders=content-type;host;x-sdk-date,
Signature=*****
```

NOTE

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

For more information, see [AK/SK-based Authentication](#).

Request Body

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

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

In the case of the API used to [obtain a user token](#), the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace the italic fields in bold with the actual values.

- **accountid**: ID of the account to which the IAM user belongs.
- **username**: IAM username to be created.
- **email**: email address of the IAM user.
- *********: password of the IAM user.

```
POST https://iam.eu-west-101.myhuaweicloud.com/v3/auth/tokens
```

```
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"
  }
}
```

If all data required for the API request is available, you can send the request to call the API through [curl](#), [Postman](#), or coding.

2.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token-based authentication: Requests are authenticated using a token.
- AK/SK authentication: Requests are encrypted using AK/SK pairs. This method is recommended because it provides higher security than token-based authentication.

Token-based Authentication

NOTE

- The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.
- Ensure that the token is valid when you use it. Using a token that will soon expire may cause API calling failures.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API.

You can **obtain a token** by calling an API. A project-level token is required for calling DEW APIs. When calling an API to obtain a user token, set **project** in **auth.scope** in the request body, as shown in the following example.

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

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

```
GET https://iam.eu-west-101.myhuaweicloud.com/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFG....
```

AK/SK-based Authentication

NOTE

- AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.
- You can use the AK/SK in a permanent or temporary access key. The **X-Security-Token** field must be configured if the AK/SK in a temporary access key is used, and the field value is **security_token** of the temporary access key.

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

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

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see [API Signature Guide](#).

NOTICE

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

2.3 Response

Status Code

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

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

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

Response Header

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

[Figure 2-1](#) shows the response header for the API of obtaining a user token, in which **x-subject-token** is the desired user token. Then, you can use the token to authenticate the calling of other APIs.

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

```
connection → keep-alive

content-type → application/json

date → Tue, 12 Feb 2019 06:52:13 GMT

server → Web Server

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

transfer-encoding → chunked

via → proxy A

x-content-type-options → nosniff

x-download-options → noopen

x-frame-options → SAMEORIGIN

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

x-subject-token
→ MIIFYXQYJKoZlhwcnAQcColIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOansiZXhwaXJlc19hdCI6IjwMTktMDItMTNUMC
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgklqO1wi4JIGzrpd18LGXK5bdfq4lqHCYb8P4NaY0NYejcAgz/VeFYtLWT1GSO0zxKZmlQHq82HBqHdgIZO9fuEbL5dMhdavj+33wEI
xHRC9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jgglFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;
```

(Optional) Response Body

A response body is generally returned in a structured format, corresponding to the **Content-Type** in the response header, and is used to transfer content other than the response header.

The following shows part of the response body for the API to obtain a user token. For the sake of space, only part of the content is displayed here.

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

```

If an error occurs during API calling, the system returns an error code and a message to you. The following shows the format of an error response body:

```
{
  "error": {
    "message": "The request you have made requires authentication.",
    "title": "Unauthorized"
  }
}
```

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

3

API

3.1 Querying on the Management Side

3.1.1 Querying Account Quota Information

Function

This API is used to query tenant quota information.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{project_id}/dbss/audit/quota

Table 3-1 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-2 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-3 Response body parameter

Parameter	Parameter Type	Description
project_id	String	Project ID.
audit_quota	Long	Remaining quota of the audit instance
cpu	Long	Remaining CPU quota.
ram	Long	Remaining memory quota

Status code: 400

Table 3-4 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-5 ErrorDetail

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

Status code: 403**Table 3-6** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-7 ErrorDetail

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

Status code: 500**Table 3-8** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-9 ErrorDetail

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

Example Request

```
/v1/{project_id}/dbss/audit/quota
```

Example Response**Status code: 200**

Succeeded

```
{
  "project_id" : "0250cb8a80c24c0b9f20f557cb159aad",
  "cpu" : 796,
```

```
"ram" : 1622016,  
"audit_quota" : 1  
}
```

Status code: 400

Client errors

```
{  
  "error" : {  
    "error_code" : "DBSS.XXXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status Code

Status Code	Description
200	Success
400	Client error.
403	Authentication failed.
500	Server error.

Error CodesFor details, see [Error Codes](#).**3.1.2 Querying ECS Specifications****Function**

This API is used to query ECS specifications.

Calling MethodFor details, see [Calling APIs](#).**URI**

GET /v1/{project_id}/dbss/audit/specification

Table 3-10 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-11 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-12 Response body parameter

Parameter	Parameter Type	Description
specification	Array of EcsSpecificationBean objects	Specifies a set of specifications.

Table 3-13 EcsSpecificationBean

Parameter	Parameter Type	Description
azs	Array of strings	AZ set to which the ECS specification belongs
id	String	ECS specification ID
level	String	Specification level. The supported level depends on the site configuration. • entry: entry level • low: basic edition • medium: professional edition • high: advanced edition
name	String	Flavor name
proxy	Integer	Number of databases that can be added to the specification

Parameter	Parameter Type	Description
ram	Integer	Memory
vcpus	Integer	VM CPU
az_type	String	AZ Type • DEDICATED • DEC • EDGE

Status code: 400**Table 3-14** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-15 ErrorDetail

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

Status code: 403**Table 3-16** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-17 ErrorDetail

Parameter	Parameter Type	Description
error_code	String	Error code

Parameter	Parameter Type	Description
error_msg	String	Error message

Status code: 500

Table 3-18 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-19 ErrorDetail

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

Example request

```
/v1/{project_id}/dbss/audit/specification
```

Example Response

Status code: 200

Succeeded

```
{
  "specification" : [ {
    "level" : "low",
    "id" : "s2.xlarge.4",
    "name" : "s2.xlarge.4",
    "vcpus" : 4,
    "ram" : 16384,
    "proxy" : 3,
    "azs" : [ "cn-cmcc1a-01" ]
  }, {
    "level" : "medium",
    "id" : "s2.2xlarge.4",
    "name" : "s2.2xlarge.4",
    "vcpus" : 8,
    "ram" : 32768,
    "proxy" : 6,
    "azs" : [ "cn-cmcc1a-01" ]
  }, {
    "level" : "high",
    "id" : "s3.4xlarge.4",
    "name" : "s3.4xlarge.4",
    "vcpus" : 16,
```

```
"ram" : 65536,  
"proxy" : 30,  
"azs" : [ "cn-cmcc1a-01", "cn-cmcc1b-01" ]  
}]  
}
```

Status code: 400

Client errors

```
{  
  "error" : {  
    "error_code" : "DBSS.XXXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status Code

Status Code	Description
200	Success
400	Client errors
403	Authentication failed.
500	Server error.

Error CodesFor details, see [Error Codes](#).**3.1.3 Querying AZ Information****Function**

This API is used to query AZ information.

Calling MethodFor details, see [Calling APIs](#).**URI**

GET /v2/{project_id}/dbss/audit/availability-zone

Table 3-20 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-21 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-22 Response body parameter

Parameter	Parameter Type	Description
azs	Array of AzInfo objects	AZ set

Table 3-23 AzInfo

Parameter	Parameter Type	Description
zone_name	String	AZ name
zone_number	Integer	AZ number
az_type	String	AZ type
alias	String	Chinese alias of the AZ
alias_us	String	English alias of the AZ

Status code: 400

Table 3-24 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-25 ErrorDetail

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

Status code: 403**Table 3-26** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-27 ErrorDetail

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

Status code: 500**Table 3-28** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-29 ErrorDetail

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

Example Request

/v2/{project_id}/dbss/audit/availability-zone

Example Response

Status code: 200

Succeeded

```
{
  "azs": [ {
    "zone_name": "xx-xx",
    "zone_number": 2,
    "az_type": "normal",
    "alias": "AZ 2",
    "alias_us": "AZ2"
  }, {
    "zone_name": "xx-xx",
    "zone_number": 1,
    "az_type": "normal",
    "alias": "AZ 1",
    "alias_us": "AZ1"
  }, {
    "zone_name": "xx-xx",
    "zone_number": 3,
    "az_type": "normal",
    "alias": "AZ 3",
    "alias_us": "AZ3"
  } ]
}
```

Status code: 400

Client errors

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Client errors
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.1.4 Querying User Operation Logs

Function

This API is used to query the operation logs.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{instance_id}/dbss/audit/operate-log

Table 3-30 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-31 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-32 Request body parameter

Parameter	Mandatory	Type	Description
time	No	TimeRangeBean object	Query time range
user_name	No	String	Operation log username

Parameter	Mandatory	Type	Description
action	No	String	Action • CREATE • DELETE • DOWNLOAD • UPDATE
result	No	String	Execution result • success • fail
page	No	String	Page number
size	No	String	Number of records on each page.

Table 3-33 TimeRangeBean

Parameter	Mandatory	Parameter Type	Description
end_time	No	String	End time. This parameter must be used together with start_time . The format must be <i>yyyy-MM-dd HH:mm:ss</i> . Time when an action occurred, in UTC time.
start_time	No	String	Start time. This parameter must be used together with end_time . The format must be <i>yyyy-MM-dd HH:mm:ss</i> . Time when an action occurred, in UTC time.

Parameter	Mandatory	Parameter Type	Description
time_range	No	String	Query time range. This parameter cannot be used together with start_time and end_time. If they are used together, this parameter has a higher priority. • HALF_HOUR • HOUR • THREE_HOUR • TWELVE_HOUR • DAY • WEEK • MONTH

Response Parameters

Status code: 200

Table 3-34 Response body parameter

Parameter	Parameter Type	Description
total_num	Integer	Total number
operate_log	Array of OperateLogInfo objects	Operation log list

Table 3-35 OperateLogInfo

Parameter	Parameter Type	Description
id	String	Operation log ID.
user	String	Operation log username
time	String	Time when a record is generated. The format is timestamp.

Parameter	Parameter Type	Description
action	String	Operation type of a record. The value can be: • create • update • delete • download
function	String	Function type of the record.
name	String	Operation object of a record
description	String	Description of a record
result	String	Execution result of a record. The value can be: • success • fail

Status code: 400**Table 3-36** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-37 ErrorDetail

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

Status code: 403**Table 3-38** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-39 ErrorDetail

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

Status code: 500**Table 3-40** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-41 ErrorDetail

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

Example Request

```
/v1/{project_id}/{instance_id}/dbss/audit/operate-log  
  
{  
  "time": {  
    "time_range": "HOUR"  
  },  
  "page": 1,  
  "size": 10  
}
```

Example Responses

Status code: 200

Succeeded

```
{  
  "total_num": 3,  
  "operate_log": [ {  
    "id": "1LJP-HgBCwCqSg3BVuAp",  
    "user": "hby-test",  
    "time": "2021-04-22 06:40:52",  
    "function": "Database list",  
    "action": "Delete",  
    "name": "db01 ",  
    "description": "Delete the audited database,"  
  }  
]
```

```
"result" : "success"
}, {
  "id" : "07JO-HgBCwCqSg3ByOAD",
  "user" : "hby-test",
  "time" : "2021-04-22 06:40:15",
  "function": "Database list",
  "action": "Update",
  "name" : "db01 ",
  "description": "Close the audit client",
  "result" : "success"
}, {
  "id" : "ULKM93gBCwCqSg3BZeD1",
  "user" : "hby-test",
  "time" : "2021-04-22 03:07:56",
  "function": "Database list",
  "action": "Create",
  "name" : "db01",
  "description": "Create a new database",
  "result" : "success"
}]
}
```

Status code: 400

Request Parameter Error

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status code: 500

Internal Server Error

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Incorrect request parameter.
403	Authentication failed.
500	Internal Server Error

Error CodesFor details, see [Error Codes](#).

3.2 Audit Instance

3.2.1 Deleting an Audit Instance

Function

This operation can be performed only when the pay-per-use instance has no tasks or the yearly/monthly instance is faulty.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v1/{project_id}/dbss/audit/instances

Table 3-42 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-43 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-44 Request body parameter

Parameter	Mandatory	Parameter Type	Description
id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Parameter	Mandatory	Parameter Type	Description
delete_publicip	No	Boolean	Whether to delete the EIP
delete_volume	No	Boolean	Whether to delete the disk

Response Parameters

Status code: 200

Table 3-45 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400

Table 3-46 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-47 ErrorDetail

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

Status code: 403

Table 3-48 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-49 ErrorDetail

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

Status code: 500**Table 3-50** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-51 ErrorDetail

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

Example Request

```
/v1/{project_id}/dbss/audit/instances
{
  "id" : "75abd6de-657b-444b-a867-c740ad2b66ec",
  "delete_publicip" : false,
  "delete_volume" : false
}
```

Response Examples

Example response with status code **200**:

Succeeded

```
{
  "result" : "success"
}
```

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
```

```
"error_msg" : "XXX"  
}  
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.2.2 Creating an Audit Instance in Yearly/Monthly Billing Mode

Function

This API is used to create an audit instance in yearly/monthly billing mode.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{project_id}/dbss/audit/charge/period/order

Table 3-52 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-53 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-54 Request body parameter

Parameter	Mandatory	Parameter Type	Description
name	Yes	String	Instance name. The options are as follows: A name must contain 1 to 64 characters including digits, letters, underscores (_), and hyphens (-),
flavor_ref	Yes	String	Specifies the ID of the specifications used by the ECS.
vpc_id	Yes	String	VPC ID
availability_zone	Yes	String	Availability zone to which the ECS belongs. (Primary and secondary AZs are separated by commas. Example: az1.dc1,az2.dc2)
enterprise_project_id	No	String	Specifies the ID of the enterprise project Mandatory for interconnecting with EPS.
nics	Yes	Array of nics objects	NIC of the ECS
security_groups	Yes	Array of security_groups objects	Information about the security group to which the ECS belongs.
comment	No	String	Indicates the remarks.
region	Yes	String	ID of the region where the ECS is located.

Parameter	Mandatory	Parameter Type	Description
cloud_service_type	Yes	String	Service type: • hws.service.type.dbss
charging_mode	Yes	Integer	Billing mode: • 0: yearly/monthly • 1: pay-per-use
period_type	Yes	Integer	Subscription period type. The value can be: • 0: day • 1: week • 2: month • 3: year • 4: hour • 5: absolute time
period_num	Yes	Integer	Number of subscription periods
subscription_num	Yes	Integer	Number of subscriptions. Only one set of DBSS can be subscribed to.
product_infos	Yes	Array of product_infos objects	Product list.
tags	No	Array of KeyVaultBean objects	Resource tag
promotion_info	No	String	Discount information
is_auto_renew	No	Integer	Auto-Renewal • 1: automatic renewal • 0: no

Table 3-55 nics

Parameter	Mandatory	Parameter Type	Description
subnet_id	Yes	String	ID of the subnet on which the NIC works.

Parameter	Mandatory	Parameter Type	Description
ip_address	No	String	IP address. If the value of this parameter is left blank or is set to an empty string, an IP address is automatically assigned.

Table 3-56 security_groups

Parameter	Mandatory	Parameter Type	Description
id	Yes	String	Specifies the ID of the security group corresponding to the ECS. This ID takes effect for the NIC configured on the ECS.

Table 3-57 product_infos

Parameter	Mandatory	Parameter Type	Description
product_id	Yes	String	Product ID.
cloud_service_type	Yes	String	Service Type: hws.service.type.dbss
resource_type	Yes	String	Resource type: hws.resource.type.dbss
resource_spec_code	Yes	String	Resource specifications: - dbss.bypassaudit.low- dbss.bypassaudit.medium- dbss.bypassaudit.high
product_spec_desc	No	String	Product specification description, including the host name, specifications, VPC, and subnet. JSON string format: {"specDesc":{"zh-cn":{" Host name ":"value1"," Specification ":"value2"," VPC ":"value3"," Subnet ":"value4"},"en-us":{"Instance Name":"value1","Edition":"value2","VPC":"value3","Subnet":"value4"}}}

Table 3-58 KeyValueBean

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

Response Parameters

Status code: 200

Table 3-59 Response body parameter

Parameter	Parameter Type	Description
description	String	Description
code	String	Returned code
order_id	String	Specifies an order ID.

Status code: 400

Table 3-60 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-61 ErrorDetail

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

Status code: 403

Table 3-62 Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-63 ErrorDetail

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

Status code: 500**Table 3-64** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-65 ErrorDetail

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

Example request

```
/v2/{project_id}/dbss/audit/charge/period/order
{
  "flavor_ref" : "st6.xlarge.4",
  "name" : "DBSS-acc3",
  "vpc_id" : "4c035747-f77b-4c6d-b23b-cb3a2b96c7e6",
  "availability_zone" : "xx-xx",
  "comment" : "",
  "region" : "xx-xx",
  "nics" : [ {
    "subnet_id" : "6201dcf2-1374-43ec-ae8b-78b4081572d3"
  } ],
  "security_groups" : [ {
    "id" : "04088976-9c63-4e6b-9070-84e6a30c782b"
  } ],
  "cloud_service_type" : "hws.service.type.dbss",
```

```
"charging_mode" : 0,
"period_type" : 2,
"period_num" : 1,
"subscription_num" : 1,
"is_auto_renew" : 0,
"product_infos" : [ {
  "product_id" : "00301-xxxxxx-0--0",
  "cloud_service_type" : "hws.service.type.dbss",
  "resource_type" : "hws.resource.type.dbss",
  "resource_spec_code" : "dbss.bypassaudit.low",
  "product_spec_desc" : "{\specDesc\":"zh-cn\":"{,}\en-us\":"{\instance Name\":"DBSS-test\","VPC
\":"default_vpc\","Subnet\":"subnet-af32\"}"
} ],
"promotion_info" : "",
"enterprise_project_id" : "0",
"tags" : [ {
  "key" : "key_test",
  "value" : "1"
} ]
}
```

Response Examples

Status code: 200

Success

```
{
  "description" : "Success",
  "code" : "0",
  "order_id" : "CS1710190909OGQIS"
}
```

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.2.3 Querying Information About an Instance Creation Task

Function

This API is used to query information about an instance creation task.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{project_id}/dbss/audit/jobs/{resource_id}

Table 3-66 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
resource_id	Yes	String	Resource ID You can obtain the value from resource_id in the API for querying the instance list.

Request Parameter

Table 3-67 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-68 Response body parameter

Parameter	Parameter Type	Description
jobs	Array of JobBean objects	Table for tasks of creating instances

Table 3-69 JobBean

Parameter	Parameter Type	Description
job_id	String	Task ID
status	String	Task status. • SUCCESS • RUNNING • FAIL • INIT • READY
job_type	String	Type
server_id	String	VM ID
server_name	String	VM Name
resource_id	String	Resource ID
begin_time	Long	Start time
end_time	Long	End time
charge_mode	String	Billing mode • Period: period-based charging • Demand: pay-per-use
error_code	String	Error code
fail_reason	String	Failure cause.
ha_id	String	Protected instance ID. This field has been discarded.
ha_name	String	Protected instance name. This field has been discarded.

Status code: 400

Table 3-70 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-71 ErrorDetail

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

Status code: 403**Table 3-72** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-73 ErrorDetail

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

Status code: 500**Table 3-74** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-75 ErrorDetail

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

Example Request

```
/v1/{project_id}/dbss/audit/jobs/{resource_id}
```

Example Response

Status code: 200

Succeeded

```
{
  "jobs": [
    {
      "resource_id": "2c154fdd-0d43-47b7-9cf1-5236bf6a2ca7",
      "status": "SUCCESS",
      "job_type": null,
      "job_id": "8abf9647852a1daa01852e517e1a1a0b",
      "begin_time": 1671519371000,
      "end_time": 1671519417000,
      "error_code": null,
      "fail_reason": null,
      "charge_mode": "Demand",
      "server_name": "DBSS-qct-1220",
      "server_id": "0aa8f621-bc19-4822-b66d-7ab9ae3c8693",
      "ha_id": null,
      "ha_name": null
    }
  ]
}
```

Status code: 400

Failed

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status code: 500

Internal Server Error

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.2.4 Querying the Audit Instance List

Function

This API is used to query the audit instance list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{project_id}/dbss/audit/instances

Table 3-76 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Table 3-77 Query parameter

Parameter	Mandatory	Parameter Type	Description
offset	No	String	Offset
limit	No	String	Number of query records.

Request Parameter

Table 3-78 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-79 Response body parameter

Parameter	Parameter Type	Description
servers	Array of AuditInstanceListBean objects	Querying the instance information list
total	Integer	Total number

Table 3-80 AuditInstanceListBean

Parameter	Parameter Type	Description
charge_model	String	Billing mode • Period • Demand
comment	String	Remarks
config_num	Integer	Total number of databases configured for the current instance.
connect_ip	String	IPv4 address of the tenant NIC attached to the instance.
connect_ipv6	String	IPv6 address of the tenant NIC attached to the instance.
cpu	Integer	CPUs

Parameter	Parameter Type	Description
created	String	Creation time
database_limit	Integer	Number of supported databases
effect	Integer	Instance frozen status. The value can be: • 1: The instance is frozen and can be released. • 2: The instance is frozen and cannot be released. • 3: The instance is frozen and cannot be renewed.
expired	String	Expiration time.
id	String	ID
name	String	Instance alias
new_version	String	If a value is returned, upgrade is required. If no value is returned, the value is null.
port_id	String	ID of the port to which the EIP is bound
ram	Integer	Memory
region	String	Region where the instance is located.
remain_days	String	Days to expiry
resource_id	String	Resource ID.
resource_spec_code	String	Instance specification ID
scene	String	Scenario
security_group_id	String	Security Group
specification	String	Specification Type

Parameter	Parameter Type	Description
status	String	Instance status. • SHUTOFF: The instance is shut down. • ACTIVE: The instance is running. • DELETING: The instance is being deleted. No operations are allowed. • BUILD: The instance is being created. No operations are allowed. • DELETED: The instance is deleted and does not need to be displayed. • ERROR: The instance is faulty. The instance can only be deleted. No other operations are allowed. • HAWAIT: The standby is being created. No operations are allowed. • FROZEN: The instance is frozen. Only renewal, binding, and unbinding operations are allowed. • UPGRADING: The instance is being upgraded. New upgrade operations are not allowed.
subnet_id	String	Subnet ID
task	String	Task status. • powering-on: The instance is being started and can be bound to or unbound. • powering-off: The instance is being shut down and can be bound to or unbound. • rebooting: The instance is being restarted and can be bound to or unbound. • delete_wait: The instance is waiting for deletion. No operations are allowed on the cluster or the instance. • NO_TASK: The task is not displayed.
version	String	Current instance version
vpc_id	String	VPC
zone	String	AZ

Status code: 400

Table 3-81 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-82 ErrorDetail

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

Status code: 403**Table 3-83** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-84 ErrorDetail

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

Status code: 500**Table 3-85** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-86 ErrorDetail

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

Example request

/v1/{project_id}/dbss/audit/instances

Example Response

Status code: 200

Succeeded

```
{
  "servers" : [ {
    "name" : "DBSS-Test",
    "comment" : "",
    "connect_ip" : null,
    "status" : "ACTIVE",
    "task" : "NO_TASK",
    "id" : "8c53ed03-8ed7-4ff2-ad97-7b2d6d1dd364",
    "specification" : "Low | 3 Proxy",
    "zone" : "cn-cmcc1a-01",
    "created" : "2021-04-21 04:37:54",
    "expired" : null,
    "subnet_id" : "97ef0bb5-3759-4db4-aa49-0d087ed49ce5",
    "cpu" : 4,
    "ram" : 16384,
    "region" : "cn-cmcc1",
    "version" : "21.04.16.164614",
    "charge_model" : "Demand",
    "remain_days" : null,
    "config_num" : 1,
    "effect" : null,
    "scene" : null,
    "connect_ip" : "192.168.0.229",
    "port_id" : "dc4bd420-e01c-4d12-a7ff-814f17c63079",
    "resource_id" : "062212d8-8e30-4783-9671-43f3f1f3bb1e",
    "vpc_id" : "76d98391-5abc-46ed-b8a8-f664202cb166",
    "security_group_id" : "f0fbec06-bcf6-4c7e-99fa-f0ddfbb1d9bd",
    "resource_spec_code" : "dbss.bypassaudit.low",
    "keep_days" : null,
    "new_version" : null,
    "database_limit" : 3
  } ],
  "total" : 1
}
```

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.2.5 Changing a Security Group

Function

This API is used to modify the security group of an instance.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/dbss/audit/security-group

Table 3-87 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-88 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-89 Request body parameter

Parameter	Mandatory	Parameter Type	Description
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.
securitygroup_ids	Yes	Array of strings	Security group ID list. Currently, only one ID is supported.

Response Parameters

Status code: 200

Table 3-90 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400

Table 3-91 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-92 ErrorDetail

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

Status code: 403**Table 3-93** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-94 ErrorDetail

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

Status code: 500**Table 3-95** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-96 ErrorDetail

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

Example Request

```
/v1/{project_id}/dbss/audit/security-group
{
  "instance_id" : "062212d8-8e30-4783-9671-43f3f1f3bb1e",
  "securitygroup_ids" : [ "f0fbec06-bcf6-4c7e-99fa-f0ddfb1d9bd" ]
}
```

Example response

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.2.6 Starting an Audit Instance

Function

This API is used to enable an audit instance.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/dbss/audit/instance/start

Table 3-97 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-98 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-99 Request body parameter

Parameter	Mandatory	Parameter Type	Description
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Response Parameters

Status code: 200

Table 3-100 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400

Table 3-101 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-102 ErrorDetail

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

Status code: 403**Table 3-103** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-104 ErrorDetail

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

Status code: 500**Table 3-105** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-106 ErrorDetail

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

Example Request

```
/v1/{project_id}/dbss/audit/instance/start
{
  "instance_id" : "1d07f606-92d2-441c-b05c-dca47e180552"
}
```

Example Responses

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Code

For details, see [Error Codes](#).

3.2.7 Stopping an Audit Instance

Function

This API is used to disable an audit instance.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/dbss/audit/instance/stop

Table 3-107 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-108 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-109 Request body parameter

Parameter	Mandatory	Parameter Type	Description
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Response Parameters

Status code: 200

Table 3-110 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400**Table 3-111** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-112 ErrorDetail

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

Status code: 403**Table 3-113** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-114 ErrorDetail

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

Status code: 500

Table 3-115 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-116 ErrorDetail

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

Example Request

```
/v1/{project_id}/dbss/audit/instance/stop
{
  "instance_id" : "1d07f606-92d2-441c-b05c-dca47e180552"
}
```

Response Examples

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.2.8 Restarting an Audit Instance

Function

This API is used to restart an audit instance.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/dbss/audit/instance/reboot

Table 3-117 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Request Parameter

Table 3-118 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-119 Request body parameter

Parameter	Mandatory	Parameter Type	Description
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Response Parameters

Status code: 200

Table 3-120 Response body parameters

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400**Table 3-121** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-122 ErrorDetail

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

Status code: 403**Table 3-123** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-124 ErrorDetail

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

Status code: 500

Table 3-125 Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-126 ErrorDetail

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

Example Request

```
/v1/{project_id}/dbss/audit/instance/reboot
{
  "instance_id" : "1d07f606-92d2-441c-b05c-dca47e180552"
}
```

Response Examples

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.2.9 Updating Audit Instance Information

Function

This API is used to update audit instance information.

Calling Method

For details, see [Calling APIs](#).

URI

PUT /v1/{project_id}/dbss/audit/instances/{instance_id}

Table 3-127 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-128 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-129 Request body parameter

Parameter	Mandatory	Parameter Type	Description
name	No	String	Instance name. The value can contain a maximum of 64 characters, including letters, numbers, underscores (_), and hyphens (-). It cannot be an empty string.
comment	No	String	Instance description. The value can contain a maximum of 255 characters, including letters, numbers, underscores (_), hyphens (-), and spaces. This field can be left blank.

Response Parameters

Status code: 200

Table 3-130 Response body parameters

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400

Table 3-131 Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-132 ErrorDetail

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

Status code: 403**Table 3-133** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-134 ErrorDetail

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

Status code: 500**Table 3-135** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-136 ErrorDetail

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

Example request

```
/v1/{project_id}/dbss/audit/instances/{instance_id}
{
  "name" : "DBSS-test1"
}
```

Response Examples**Status code: 400**

Failed

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.3 Auditing a Database

3.3.1 Querying the Database List

Function

This API is used to query the database list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{project_id}/{instance_id}/dbss/audit/databases

Table 3-137 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Table 3-138 Query parameter

Parameter	Mandatory	Parameter Type	Description
status	No	String	Instance status. • ON • OFF
offset	No	String	Offset. The query starts after the first data record offsets the number of data records. The default value is 0.
limit	No	String	Number of query records. The default value of this parameter is 100 .

Request Parameter

Table 3-139 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-140 Response body parameter

Parameter	Parameter Type	Description
databases	Array of DataBaseBean objects	Database list
total	Integer	Total number

Table 3-141 DataBaseBean

Parameter	Parameter Type	Description
database	DataBase object	Database Information

Table 3-142 Database

Parameter	Type	Description
id	String	Database ID.
name	String	Database Name
type	String	Type of the database to be added. The value can be: • MYSQL • ORACLE • POSTGRESQL • SQLSERVER • DAMENG • TAURUS • DWS • KINGBASE • GAUSSDBOPENGAUSS • GREENPLUM • HIGHGO • SHENTONG • GBASE8A • GBASE8S • GBASEXDM • MONGODB • DDS
version	String	DB version.
charset	String	Database character set • GBK • UTF8
ip	String	Database IP Address
port	String	Database Port
os	String	Database OS

Parameter	Type	Description
status	String	Database status. The value can be: • ON: enabled • OFF: disabled
instance_name	String	DB instance name
audit_status	String	Database status. The value can be: • ACTIVE • SHUTOFF • ERROR
agent_url	Array of strings	Unique ID of an agent
db_classification	String	Database classification. The value can be: • RDS: RDS database • ECS: self-built database
rds_audit_switch_mismatch	Boolean	The audit switch status of the RDS instance does not match. When the database audit function is enabled and the log upload function on RDS is disabled, the value of this field is true.
rds_id	String	ID of the RDS database.
rds_obj_info	String	RDS database information.
dws_obj_info	String	GaussDB(DWS) database information.
clouddb_obj_info	String	Cloud database information. This field has been discarded.

Status code: 400

Table 3-143 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-144 ErrorDetail

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

Status code: 403**Table 3-145** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-146 ErrorDetail

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

Status code: 500**Table 3-147** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-148 ErrorDetail

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

Example Request

/v1/{project_id}/{instance_id}/dbss/audit/databases

Example Response

Status code: 200

Succeeded

```
{
  "databases": [ {
    "database": {
      "id": "zLKv83gBCwCqSg3BJt0m",
      "name": "db01",
      "type": "MYSQL",
      "version": "5.0",
      "charset": "UTF8",
      "ip": "192.168.0.204",
      "port": "3306",
      "os": "LINUX64",
      "status": "OFF",
      "instance_name": "",
      "audit_status": null,
      "agent_url": [ "zrKw83gBCwCqSg3Bkt1P" ],
      "db_classification": "ECS",
    }
  } ]
  "total": 1
}
```

Status code: 400

Incorrect request parameter.

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status code: 500

Internal server error.

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Succeeded
400	Incorrect request parameter.
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.3.2 Querying the RDS Database List

Function

This API is used to query the RDS database list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{project_id}/audit/databases/rds

Table 3-149 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Table 3-150 Query parameters

Parameter	Mandatory	Parameter Type	Description
db_type	Yes	String	Database Type • MYSQL • POSTGRESQL • SQLSERVER • TAURUS • DWS • MARIADB • GAUSSDBOPENGAUSS
offset	No	String	Offset. The query starts after the first data record offsets the number of data records. The default value is 0.
limit	No	String	Number of query records. The default value of this parameter is 100 .

Request Parameter

Table 3-151 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-152 Response body parameters

Parameter	Parameter Type	Description
databases	Array of databases objects	RDS database list
total_count	Integer	Total number

Table 3-153 databases

Parameter	Parameter Type	Description
id	String	ID
db_name	String	Database Name

Parameter	Parameter Type	Description
status	String	DB instance status. • BUILD: The instance is being created. • ACTIVE: The instance is normal. • FAILED: The instance is abnormal. • FROZEN: The instance is frozen. • MODIFYING: The instance is being scaled out. • REBOOTING: The instance is being restarted. • RESTORING: The instance is being restored. • MODIFYING INSTANCE TYPE: The instance is changing to the active/standby deployment. • SWITCHOVER: A primary/standby switchover is being performed. • MIGRATING: The instance is being migrated. • BACKING UP: The instance is being backed up. • MODIFYING DATABASE PORT: The database port of the instance is being changed. • STORAGE FULL: The instance storage space is full.
port	String	Database port
ip	String	Database IP address
instance_name	String	RDS instance name
type	String	Type • MYSQL • ORACLE • POSTGRESQL • SQLSERVER • DAMENG • TAURUS • DWS • KINGBASE • MARIADB • GAUSSDBOPENGAUSS
version	String	Edition

Parameter	Parameter Type	Description
is_supported	Boolean	Whether agent-free audit is supported
enterprise_id	String	Enterprise project ID.

Status code: 400**Table 3-154** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-155 ErrorDetail

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

Status code: 403**Table 3-156** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-157 ErrorDetail

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

Status code: 500

Table 3-158 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-159 ErrorDetail

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

Example Request

None

Example Response

Status code: 200

Succeeded

```
{
  "databases": [ {
    "id": "5a5c4ca8b10f4b00bc88e03866fe3fd4in01",
    "db_name": "rds-cwx1216198",
    "status": "ACTIVE",
    "port": "3306",
    "ip": "192.168.0.159",
    "instance_name": "rds-cwx1216198",
    "type": "MySQL",
    "version": "5.7",
    "is_supported": null,
    "enterprise_id": "0"
  }, {
    "id": "3f1cfaac552e42f1bb9855993586076cin01",
    "db_name": "rds-5c25",
    "status": "FROZEN",
    "port": "3306",
    "ip": "192.168.0.14",
    "instance_name": "rds-5c25",
    "type": "MySQL",
    "version": "5.7",
    "is_supported": null,
    "enterprise_id": "0"
  } ],
  "total_count": 2
}
```

Status code: 400

Request Parameter Error

```
{
  "error": {
```

```
{
  "error_code" : "DBSS.XXXX",
  "error_msg" : "XXX"
}
```

Status code: 500

Internal server error.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Incorrect request parameter.
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.3.3 Adding a Self-Built Database

Function

This API is used to add a self-built database.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{instance_id}/audit/databases

Table 3-160 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Parameter	Mandatory	Parameter Type	Description
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-161 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-162 Request body parameter

Parameter	Mandatory	Parameter Type	Description
Database	Yes	database object	Database Information

Table 3-163 Database

Parameter	Mandatory	Parameter Type	Description
db_classification	Yes	String	Database classification. The value can be: ECS: self-built database
name	Yes	String	Database

Parameter	Mandatory	Parameter Type	Description
type	Yes	String	DB type • MYSQL • ORACLE • POSTGRESQL • SQLSERVER • DAMENG • TAURUS • DWS • KINGBASE • GAUSSDBOPENGAUSS • GREENPLUM • HIGHGO • SHENTONG • GBASE8A • GBASE8S • GBASEXDM • MONGODB • DDS
version	Yes	String	DB version.
charset	Yes	String	Character set. The default value is UTF8. • GBK • UTF8
ip	Yes	String	Database IP address.
port	Yes	String	Database port
os	Yes	String	Database OS • LINUX64 • WINDOWS64 • UNIX
instance_name	No	String	DB instance name

Response Parameters

Status code: 200

Table 3-164 Response body parameter

Parameter	Parameter Type	Description
id	String	Database ID.

Status code: 400**Table 3-165** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-166 ErrorDetail

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

Status code: 403**Table 3-167** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-168 ErrorDetail

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

Status code: 500

Table 3-169 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-170 ErrorDetail

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

Example request

```
/v1/{project_id}/{instance_id}/audit/databases
{
  "database": {
    "name": "test",
    "type": "POSTGRESQL",
    "version": "12",
    "charset": "UTF8",
    "ip": "1.1.1.1",
    "port": "66",
    "instance_name": "testaaa",
    "os": "LINUX64",
    "db_classification": "ECS"
  }
}
```

Response Examples

Status code: 200

Succeeded

```
{
  "id": "Fadq-Y4B51p4J06sRc4F"
}
```

Status code: 400

Failed

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Code

For details, see [Error Codes](#).

3.3.4 Adding an RDS Database

Function

This API is used to add an RDS database.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{project_id}/{instance_id}/audit/databases/rds

Table 3-171 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-172 Request header parameter

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-173 Request body parameter

Parameter	Mandatory	Parameter Type	Description
databases	Yes	Array of databases objects	Database list

Table 3-174 Databases

Parameter	Mandatory	Parameter Type	Description
id	Yes	String	RDS database ID, which can be obtained from the ID field of the API for querying the RDS database list.
type	Yes	String	Database Type • MYSQL • ORACLE • POSTGRESQL • SQLSERVER • DAMENG • TAURUS • DWS • KINGBASE • MARIADB • GAUSSDBOPENGAUSS

Response Parameters

Status code: 200

Table 3-175 Response body parameter

Parameter	Parameter Type	Description
ret_list	Array of ret_list objects	Result list.

Table 3-176 ret_list

Parameter	Parameter Type	Description
id	String	RDS database ID
ret_status	String	Status • SUCCESS • FAILED
ret_message	String	Description

Status code: 400**Table 3-177** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-178 ErrorDetail

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

Status code: 403

Table 3-179 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-180 ErrorDetail

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

Status code: 500**Table 3-181** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-182 ErrorDetail

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

Example Request

```
/v2/{project_id}/{instance_id}/audit/databases/rds
{
  "databases": [ {
    "id": "123751d3ee2f47aea64822e98318c6a8in01",
    "type": "MYSQL"
  } ]
}
```

Example Responses

Status code: 200

Succeeded

```
{
  "ret_list": [ {
    "id": "123751d3ee2f47aea64822e98318c6a8in01",
    "ret_status": "SUCCESS",
    "ret_message": null
  }, {
    "id": "2343f7285d684fed8b09fac201c3fc7ain01",
    "ret_status": "FAILED",
    "ret_message": "Unknown error."
  } ]
}
```

Status code: 400

Failed

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.3.5 Deleting a Database

Function

This API is used to delete a database.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v2/{project_id}/{instance_id}/audit/databases/{db_id}

Table 3-183 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.
db_id	Yes	String	Database ID, which can be obtained from the ID field of the API for querying the database list.

Request Parameter

Table 3-184 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-185 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400

Table 3-186 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-187 ErrorDetail

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

Status code: 403**Table 3-188** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-189 ErrorDetail

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

Status code: 500**Table 3-190** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-191 ErrorDetail

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

Example Request

```
/v2/{project_id}/{instance_id}/audit/databases/{db_id}
```

Example Response

Status code: 200

Succeeded

```
{
  "status" : "SUCCESS"
}
```

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.3.6 Enabling or Disabling Database

Function

This API is used to enable and disable the database.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{project_id}/{instance_id}/audit/databases/switch

Table 3-192 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-193 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-194 Request body parameter

Parameter	Mandatory	Parameter Type	Description
id	Yes	String	Database ID, which can be obtained from the ID field of the API for querying the database list.
status	Yes	String	Switch status - ON: enabled - OFF: disabled

Parameter	Mandatory	Parameter Type	Description
lts_audit_switch	No	Integer	Whether to disable LTS audit, which is used in the GaussDB(DWS) database scenario. If you do not disable LTS audit, no operation is required. 1: yes 0 or others: remain unchanged

Response Parameters

Status code: 200

Table 3-195 Response body parameter

Parameter	Parameter Type	Description
status	String	Response status

Status code: 400

Table 3-196 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-197 ErrorDetail

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

Status code: 403

Table 3-198 Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-199 ErrorDetail

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

Status code: 500**Table 3-200** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-201 ErrorDetail

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

Example Request

```
/v2/{project_id}/{instance_id}/audit/databases/switch
{
  "id" : "Gadr-Y4B51p4J06s5s5B",
  "status" : "OFF"
}
```

Response Examples

Status code: 200

Succeeded

```
{  
  "status" : "SUCCESS"  
}
```

Status code: 400

Failed

```
{  
  "error" : {  
    "error_code" : "DBSS.XXXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.4 Auditing Agent

3.4.1 Querying the Database Agent List

Function

This API is used to query the database agent list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{project_id}/{instance_id}/audit/agents

Table 3-202 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Table 3-203 Query parameter

Parameter	Mandatory	Parameter Type	Description
db_id	Yes	String	Database ID, which can be obtained from the ID field of the API for querying the database list.
offset	No	String	Offset
limit	No	String	Number of query records.

Request Parameter

Table 3-204 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-205 Response body parameter

Parameter	Parameter Type	Description
agents	Array of agents objects	Agent list

Table 3-206 Agent

Parameter	Parameter Type	Description
agent_id	String	Agent ID.
agent_type	String	Agent type
agent_os	String	Agent OS
agent_ip	String	IP address of the node where the agent is installed
mem_threshold	Integer	Memory threshold.
cpu_threshold	Integer	CPU threshold.
status	Integer	Agent status, the options are as follows: • 1: ON • 0: OFF
agent_nic	String	Agent NIC
db_name	String	Database name
datacap_statuses	Integer	Status of capturing data flows
agent_url	String	Agent installation address
universal	Boolean	CCE scenario or not
sha256	String	SHA256 value

Status code: 400**Table 3-207** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-208 ErrorDetail

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

Status code: 403**Table 3-209** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-210 ErrorDetail

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

Status code: 500**Table 3-211** Response body parameter

Parameter	Error code	Description
error	Object	Error message.

Table 3-212 ErrorDetail

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

Example Request

```
/v2/{project_id}/{instance_id}/audit/agents
```

Example Response

Example response with status code **200**:

Execution succeeded.

```
{
  "agents": [ {
    "agent_id": "X1miCo8BDdlO3rwSbhug",
    "agent_type": "DB",
    "agent_os": "LINUX64_X86",
    "agent_ip": "2407:c080:11f0:23b:59d5:7ddf:5650:447b",
    "agent_nic": "",
    "cpu_threshold": 80,
    "mem_threshold": 80,
    "db_name": "",
    "status": 1,
    "datacap_status": 1,
    "agent_url": "/opt/dbss_audit/audit_server/agent/",
    "universal": false,
    "sha256": "2619a4fc8ff3b3dda48c4347630bc8d7ece2e1f046eab7ac044e7d0df49886e3"
  } ]
}
```

Status code: 400

Request Parameter Error

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status code: 500

Internal Server Error

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Incorrect request parameter.
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.4.2 Adding an Audit Database Agent

Function

This API is used to add an audit database agent.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v2/{project_id}/{instance_id}/audit/agents

Table 3-213 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-214 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-215 Request body parameter

Parameter	Mandatory	Parameter Type	Description
db_id	Yes	String	Database ID, which can be obtained from the ID field of the API for querying the database list.
mode	Yes	Integer	Schema • 0: Create an agent. • 1: Select an existing agent.
agent_id	No	String	Mandatory when an existing agent is selected
agent_type	Yes	String	Type of the node where the agent is installed. The value can be: • APP: application • DB: database
agent_os	Yes	String	Agent OS type. The value can be: • LINUX64_X86 • LINUX64_ARM • WINDOWS64
agent_ip	No	String	Agent IP address. This is mandatory when node type is set to Application.
agent_nic	No	String	Name of the agent audit NIC
cpu_threshold	No	Integer	CPU threshold
mem_threshold	No	Integer	Memory threshold.

Response Parameters

Status code: 200

Table 3-216 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400**Table 3-217** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-218 ErrorDetail

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

Status code: 403**Table 3-219** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-220 ErrorDetail

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

Status code: 500**Table 3-221** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-222 ErrorDetail

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

Example request

```
/v2/{project_id}/{instance_id}/audit/agents
{
  "db_id" : "Gadr-Y4B51p4J06s5s5B",
  "mode" : 0,
  "agent_type" : "DB",
  "agent_os" : "LINUX64_X86",
  "cpu_threshold" : 80,
  "mem_threshold" : 80
}
```

Example Response

Status code: 200

Succeeded

```
{
  "result" : "SUCCESS"
}
```

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.4.3 Deleting a Database Agent

Function

This API is used to delete a database agent.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v2/{project_id}/{instance_id}/audit/agents/{agent_id}

Table 3-223 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.
agent_id	Yes	String	Agent ID. You can obtain the value from the ID field of the API for querying the agent list.

Table 3-224 Query parameter

Parameter	Mandatory	Parameter Type	Description
db_id	Yes	String	Database ID, which can be obtained from the ID field of the API for querying the database list.

Request Parameter

Table 3-225 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-226 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status.

Status code: 400

Table 3-227 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-228 ErrorDetail

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

Status code: 403

Table 3-229 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-230 ErrorDetail

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

Status code: 500**Table 3-231** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-232 ErrorDetail

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

Request Example

None

Example Response**Status code: 200**

Succeeded

```
{  
  "result" : "SUCCESS"  
}
```

Status code: 400

Failed

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Code

For details, see [Error Codes](#).

3.4.4 Enabling or Disabling an Agent

Function

This API is used to enable or disable the agent audit function. An enabled agent collects user access information.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{instance_id}/audit/agent/switch

Table 3-233 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-234 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-235 Request body parameter

Parameter	Mandatory	Parameter Type	Description
agent_id	Yes	String	Audit agent ID. You can obtain the value from the ID field of the API for querying the agent list.
status	Yes	Integer	Agent status. The value can be: • 1: enabled. • 0: disabled.

Response Parameters

Status code: 200

Table 3-236 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status.

Status code: 400

Table 3-237 Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-238 ErrorDetail

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

Status code: 403**Table 3-239** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-240 ErrorDetail

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

Example Request

```
/v1/{project_id}/{instance_id}/audit/agent/switch
{
  "agent_id": "ASWDSDSDSWEWSDSD",
  "status": 1
}
```

Response Examples

Status code: 200

The request has succeeded.

```
{
  "result": "SUCCESS"
}
```

Status code: 400

Invalid request parameters.

```
{
  "error": {
```

```
"error_code" : "DBSS.XXX",  
"error_msg" : "XXX"  
}  
}
```

Status code: 403

Authentication failed.

```
{  
  "error" : {  
    "error_code" : "DBSS.XXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status Code

Status Code	Description
200	The request is processed.
400	Invalid request parameters.
403	Authentication failed.

Error Codes

For details, see [Error Codes](#).

3.4.5 Downloading the Audit Agent

Function

This API is used to download the audit agent.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{project_id}/{instance_id}/audit/agents/{agent_id}

Table 3-241 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Parameter	Mandatory	Parameter Type	Description
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.
agent_id	Yes	String	Agent ID. You can obtain the value from the ID field of the API for querying the agent list.

Request Parameter

Table 3-242 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Response Parameters

Status code: 200

Table 3-243 Response body parameter

Parameter	Parameter Type	Description
result	String	Response status

Status code: 400

Table 3-244 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-245 ErrorDetail

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

Status code: 403**Table 3-246** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-247 ErrorDetail

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

Example Request

```
/v2/{project_id}/{instance_id}/audit/agents/{agent_id}
```

Example Response

Status code: 200

The request has succeeded.

```
{  
  "result" : "SUCCESS"  
}
```

Status code: 400

Invalid request parameters.

```
{  
  "error" : {  
    "error_code" : "DBSS.XXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status code: 403

Authentication failed.

```
{
  "error" : {
    "error_code" : "DBSS.XXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Invalid request parameters.
403	Authentication failed.

Error Codes

For details, see [Error Codes](#).

3.5 Data Analytics

3.5.1 Querying Audit Alarm Information

Function

This API is used to query audit alarm information.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{instance_id}/audit/alarm-log

Table 3-248 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-249 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-250 Request body parameter

Parameter	Mandatory	Parameter Type	Description
time	Yes	time object	Time
risk	No	String	Risk severity • LOW • MEDIUM • HIGH
type	No	String	Alarm type • RISK_RULE: risk rule • RISK_CPU: The CPU usage exceeds the threshold. • RISK_MEMORY: The memory usage exceeds the threshold. • RISK_DISK: The disk usage exceeds the threshold. • RISK_DISK_CAPACITY: The disk capacity is less than six months. • RISK_BACKUP: Backup failed. • AUDIT_QPS_OVERFLOW: delay alarm when the traffic exceeds the threshold • RISK_AGENT: The agent is abnormal. • AUDIT_BACKUP_FAILED: Instances failed to be backed up (O&M)

Parameter	Mandatory	Parameter Type	Description
status	No	String	Alarm confirmation status • DONE: confirmed • UNDO: unconfirmed
page	No	Integer	The page number.
size	No	Integer	Specifies the number of records on each page.

Table 3-251 Time

Parameter	Mandatory	Parameter Type	Description
time_range	No	String	Time range. This parameter cannot be used together with start_time and end_time. If they are used together, this parameter has a higher priority. The value can be: Enumerated values: HALF_HOUR, HOUR, THREE_HOUR, TWELVE_HOUR, DAY, WEEK, MONTH;
start_time	No	String	Start time. This parameter must be used together with end_time . The format must be <i>yyyy-MM-dd HH:mm:ss</i> . Time when an action occurred, in UTC time.
end_time	No	String	End time. This parameter must be used together with start_time. The format must be <i>yyyy-MM-dd HH:mm:ss</i> . Time when an action occurred, in UTC time.

Response Parameters

Status code: 200

Table 3-252 Response body parameter

Parameter	Parameter Type	Description
total_num	Integer	Total number
alarm_log	Array of alarm_log objects	Alarms

Table 3-253 alarm_log

Parameter	Parameter Type	Description
id	String	Alarm ID
alarmLife	String	Alarm status. • ON • OFF
sendEmail	Boolean	Email notification
alarm_time	String	Alarm time
alarm_type	String	Alarm type • RISK_RULE: risk rule • RISK_CPU: The CPU usage exceeds the threshold. • RISK_MEMORY: The memory usage exceeds the threshold. • RISK_DISK: The disk usage exceeds the threshold. • RISK_DISK_CAPACITY: The disk capacity is less than six months. • RISK_BACKUP: Backup failed. • AUDIT_QPS_OVERFLOW: delay alarm when the traffic exceeds the threshold • RISK_AGENT: The agent is abnormal. • AUDIT_BACKUP_FAILED: Instances failed to be backed up (O&M)
alarm_fix_time	String	Indicates the alarm clearing time.
alarm_status	String	Alarm confirmation status • DONE: confirmed • UNDO: unacknowledged

Parameter	Parameter Type	Description
alarm_risk	String	Alarm risk severity • LOW • MEDIUM • HIGH
alarm_description	String	Alarm description

Status code: 400**Table 3-254** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-255 ErrorDetail

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

Status code: 403**Table 3-256** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-257 ErrorDetail

Parameter	Parameter Type	Description
error_code	String	Error code

Parameter	Parameter Type	Description
error_msg	String	Error message

Status code: 500

Table 3-258 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-259 ErrorDetail

Parameter	Description	Description
error_code	String	Error code
error_msg	String	Error message

Example request

```
/v1/{project_id}/{instance_id}/audit/alarm-log
{
  "time": {
    "time_range": "DAY",
    "start_time": null,
    "end_time": null
  },
  "risk": null,
  "type": null,
  "status": null,
  "page": 1,
  "size": 100
}
```

Example Response

Status code: 200

Succeeded

```
{
  "total_num": 3,
  "alarm_log": [ {
    "id": "99AJFI8BZEbGVdGbOczC",
    "alarmLife": "ON",
    "sendEmail": true,
    "alarm_time": "2024-04-25 06:55:00",
    "alarm_type": "RISK_DISK",
    "alarm_fix_time": null,
    "alarm_status": "UNDO",
```

```
"alarm_description" : "DISK USAGE 5%",  
"alarm_risk" : "HIGH"  
}, {  
  "id" : "9tAJFI8BZEbGVdGbOcy4",  
  "alarmLife" : "ON",  
  "sendEmail" : true,  
  "alarm_time" : "2024-04-25 06:55:00",  
  "alarm_type" : "RISK_MEMORY",  
  "alarm_fix_time" : null,  
  "alarm_status" : "UNDO",  
  "alarm_description" : "MEMORY USAGE 53.54%",  
  "alarm_risk" : "HIGH"  
}, {  
  "id" : "9dAJFI8BZEbGVdGbOcyq",  
  "alarmLife" : "ON",  
  "sendEmail" : true,  
  "alarm_time" : "2024-04-25 06:55:00",  
  "alarm_type" : "RISK_CPU",  
  "alarm_fix_time" : null,  
  "alarm_status" : "UNDO",  
  "alarm_description" : "CPU USAGE 1.0%",  
  "alarm_risk" : "HIGH"  
}  
}]
```

Status code: 400

Incorrect request parameter.

```
{  
  "error" : {  
    "error_code" : "DBSS.XXXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status code: 500

Internal server error.

```
{  
  "error" : {  
    "error_code" : "DBSS.XXXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status Code

Status Code	Description
200	Success
400	Incorrect request parameter.
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.5.2 Querying Audit SQL Statements

Function

This API is used to query audit SQL statements.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{instance_id}/audit/sqls

Table 3-260 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-261 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-262 Request body parameter

Parameter	Mandatory	Parameter Type	Description
time	Yes	time object	Query time range

Parameter	Mandatory	Parameter Type	Description
risk_levels	No	String	Risk severity. • HIGH • MEDIUM • LOW • NO_RISK
client_ip	No	String	Client IP address
client_name	No	String	Client name
db_ip	No	String	Database IP address
db_user	No	String	Database user
query_type	No	String	Query type: LOGIN, CREATE_TABLE, CREATE_TABLESPACE, DROP_TABLE, DROP_TABLESPACE, DELETE, INSERT, INSERT_SELECT, SELECT, SELECT_FOR_UPDATE, UPDATE, CREATE_USER, DROP_USER, GRANT, and OPERATE ALL
rule_name	No	String	Rule name
sql_statement	No	String	SQL statement
sql_response	No	String	Response Result • SUCCESS • FAILED
page	No	Integer	Page number
size	No	Integer	Number of records.
time_order	No	String	Time sequence. The value can be: • DESC • ASC

Table 3-263 time

Parameter	Mandatory	Parameter Type	Description
time_range	No	String	Time range. This parameter cannot be used together with start_time and end_time . If they are used together, this parameter has a higher priority. The value can be: • HALF_HOUR • HOUR • THREE_HOUR • TWELVE_HOUR • DAY • WEEK • MONTH
start_time	No	String	Start time. This parameter must be used together with end_time . The format must be <i>yyyy-MM-dd HH:mm:ss</i> . Time when an action occurred, in UTC time.
end_time	No	String	End time. This parameter must be used together with start_time . The format must be <i>yyyy-MM-dd HH:mm:ss</i> . Time when an action occurred, in UTC time.

Response Parameters

Status code: 200

Table 3-264 Response body parameter

Parameter	Parameter Type	Description
total	Integer	Total number of records.
count	Integer	Number of records on each page. The default value is 10 .
sqls	Array of sqls objects	SQL statement list

Table 3-265 sqls

Parameter	Parameter Type	Description
sql	sql object	SQL information

Table 3-266 sql

Parameter	Parameter Type	Description
id	String	SQL statement ID
sql_statement	String	SQL statement
client_ip	String	Client IP address
client_name	String	Client name
db_ip	String	Database IP address
db_user	String	Database username
query_type	String	Query type: LOGIN, CREATE_TABLE, CREATE_TABLESPACE, DROP_TABLE, DROP_TABLESPACE, DELETE, INSERT, INSERT_SELECT, SELECT, SELECT_FOR_UPDATE, UPDATE, CREATE_USER, DROP_USER, GRANT, and OPERATE ALL
operated_obj_info	Array of operated_obj_info objects	Action objects
rule_name	String	Rule name
risk_level	String	Risk severity. • HIGH • MEDIUM • LOW • NO_RISK
start_time	String	Audit start time
sql_response	String	Response Result • SUCCESS • FAILED
db_instance	String	DB instance

Table 3-267 operated_obj_info

Parameter	Parameter Type	Description
column_name	String	Column
object_type	String	Operation object type
schema_name	String	Schema name
sql_type	String	SQL type
sys_name	String	System
table_name	String	Table

Status code: 400**Table 3-268** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-269 ErrorDetail

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

Status code: 403**Table 3-270** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-271 ErrorDetail

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

Status code: 500**Table 3-272** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-273 ErrorDetail

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

Example Request

```
/v1/{project_id}/{instance_id}/audit/sqls
```

```
{
  "time" : {
    "time_range" : "DAY",
    "start_time" : null,
    "end_time" : null
  },
  "risk_levels" : null,
  "client_ip" : null,
  "client_name" : null,
  "db_ip" : null,
  "db_user" : null,
  "query_type" : null,
  "rule_name" : null,
  "sql_statement" : null,
  "sql_response" : null,
  "page" : 1,
  "size" : 50,
  "time_order" : "DESC"
}
```

Response Examples

Status code: 200

Success

```
{
  "total" : 2,
  "count" : 2,
  "sqls" : [ {
    "sql" : {
      "id" : "o1n8BI8BDdIO3rwS4Rea",
      "sql_statement" : "create table test(name varchar(1000), age int)",
      "client_ip" : "fe80::f816:3eff:feca:22f5",
      "client_name" : "",
      "db_ip" : "fe80::f816:3eff:feca:22f5",
      "db_user" : "root",
      "query_type" : "CREATE TABLE",
      "operated_obj_info" : [ {
        "column_name" : "",
        "object_type" : "TABLE",
        "schema_name" : "test",
        "sql_type" : "CREATE TABLE",
        "sys_name" : "",
        "table_name" : "test"
      } ],
      "rule_name" : "Full audit rule",
      "risk_level" : "",
      "start_time" : "2024-04-22 08:46:02",
      "sql_response" : "SUCCESS",
      "db_instance" : ""
    }
  }, {
    "sql" : {
      "id" : "pFn8BI8BDdIO3rwS4Rea",
      "sql_statement" : "create table test",
      "client_ip" : "fe80::f816:3eff:feca:22f5",
      "client_name" : "",
      "db_ip" : "fe80::f816:3eff:feca:22f5",
      "db_user" : "root",
      "query_type" : "CREATE",
      "operated_obj_info" : [ {
        "column_name" : "",
        "object_type" : "",
        "schema_name" : "test",
        "sql_type" : "CREATE",
        "sys_name" : "",
        "table_name" : ""
      } ],
      "rule_name" : "Full audit rule",
      "risk_level" : "",
      "start_time" : "2024-04-22 08:46:02",
      "sql_response" : "FAILED",
      "db_instance" : ""
    }
  } ]
}
```

Status code: 400

Incorrect request parameter.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

```
}  
}
```

Status code: 500

Internal server error.

```
{  
  "error" : {  
    "error_code" : "DBSS.XXXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Incorrect request parameter.
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.5.3 Querying Audit Summary Information

Function

This API is used to query audit summary information.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v2/{project_id}/audit/summary/info

Table 3-274 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Table 3-275 Query parameter

Parameter	Mandatory	Type	Description
offset	No	String	Offset
limit	No	String	Number of query records.

Request Parameter

Table 3-276 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-277 Response body parameter

Parameter	Parameter Type	Description
project_id	String	Project ID.
audit_duration	Long	Audit duration
total_sql	Long	Total statements
total_risk	Long	Total risk
today_sql	Long	Today's statements
today_risk	Long	Today's risk
today_session	Long	Today's session
update_time	Long	Time when the agent was updated
data_list	Array of data_list objects	Task list

Table 3-278 data_list

Parameter	Parameter Type	Description
id	Long	ID
status	String	Status • 1: success • 2: failure
project_id	String	Project ID
instance_id	Long	Instance ID
instance_name	String	Instance name
audit_duration	Long	Audit duration
total_sql	Long	Total statements
total_risk	Long	Total risk
today_sql	Long	Today's statements
today_risk	Long	Today's risk
today_session	Long	Today's session
update_time	Long	Time when the agent was updated
reserve1	String	Reserved word 1
reserve2	String	Reserved word 2

Status code: 400**Table 3-279** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-280 ErrorDetail

Parameter	Parameter Type	Description
error_code	String	Error code

Parameter	Parameter Type	Description
error_msg	String	Error message

Status code: 403**Table 3-281** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-282 ErrorDetail

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

Status code: 500**Table 3-283** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-284 ErrorDetail

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

Example request

```
/v2/{project_id}/audit/summary/info
```

Example Response

Status code: 200

Audit summary information

```
{
  "project_id" : "b9351f98c724428794ba7d105fa3558d",
  "audit_duration" : 99423,
  "total_sql" : 120267839,
  "total_risk" : 1597508,
  "today_sql" : 4354,
  "today_risk" : 4354,
  "today_session" : 4350,
  "update_time" : 1712570404644,

  "data_list" : [ {
    "id" : 235049,
    "status" : "1",
    "reserve1" : null,
    "reserve2" : null,
    "project_id" : "b9351f98c724428794ba7d105fa3558d",
    "instance_id" : 5542,
    "instance_name" : "DBSS-mysql8-test",
    "audit_duration" : 99423,
    "total_sql" : 3537,
    "total_risk" : 380,
    "today_sql" : 0,
    "today_risk" : 0,
    "today_session" : 0,
    "update_time" : 1712570404093
  }, {
    "id" : 235050,
    "status" : "1",
    "reserve1" : null,
    "reserve2" : null,
    "project_id" : "b9351f98c724428794ba7d105fa3558d",
    "instance_id" : 5550,
    "instance_name" : "DBSS-Q1-test",
    "audit_duration" : 0,
    "total_sql" : 148,
    "total_risk" : 36,
    "today_sql" : 0,
    "today_risk" : 0,
    "today_session" : 0,
    "update_time" : 1712570404138
  } ]
}
```

Status code: 400

Incorrect request parameter.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status code: 500

Internal server error.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

```
}  
}
```

Status Code

Status Code	Description
200	Audit summary information
400	Incorrect request parameter.
403	Authentication failed.
500	Internal Server Error

Error Codes

For details, see [Error Codes](#).

3.6 Audit Rules

3.6.1 Enabling or Disabling a Risk Rule

Function

This API is used to enable or disable risk rules.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{instance_id}/audit/rule/risk/switch

Table 3-285 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-286 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API (value of X-Subject-Token in the response header).

Table 3-287 Request body parameter

Parameter	Mandatory	Parameter Type	Description
ids	Yes	String	Rule ID. Use commas (,) to separate multiple IDs. You can obtain the value from the ID field in the API for querying risk rule policies.
status	Yes	String	Switch status • OFF: disabled • ON: enabled

Response Parameters

Status code: 200

Table 3-288 Response body parameter

Parameter	Parameter Type	Description
status	String	Response status

Status code: 400

Table 3-289 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-290 ErrorDetail

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

Status code: 403**Table 3-291** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-292 ErrorDetail

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

Example Request

```
/v1/{project_id}/{instance_id}/audit/rule/risk/switch
{
  "ids" : "c7lLB3kBCwCqSg3B2OpF",
  "status" : "OFF"
}
```

Response Examples

Example response with status code **200**:

The request has succeeded.

```
{
  "status" : "SUCCESS"
}
```

Status code: 400

Invalid request parameters.

```
{
  "error" : {
```

```
"error_code" : "DBSS.XXX",  
"error_msg" : "XXX"  
}  
}
```

Status code: 403

Authentication failed.

```
{  
  "error" : {  
    "error_code" : "DBSS.XXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Invalid request parameters.
403	Authentication failed.

Error Codes

For details, see [Error Codes](#).

3.6.2 Querying the Policy List of an Audit Scope

Function

This API is used to query the audit scope policy list.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{project_id}/{instance_id}/dbss/audit/rule/scopes

Table 3-293 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.

Parameter	Mandatory	Parameter Type	Description
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Table 3-294 Query parameter

Parameter	Mandatory	Parameter Type	Description
offset	No	String	Offset
limit	No	String	Number of query records.

Request Parameter

Table 3-295 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-296 Response body parameter

Parameter	Parameter Type	Description
scopes	Array of RuleScopeInfo objects	Audit scope rule list
total	Integer	Total number

Table 3-297 RuleScopeInfo

Parameter	Parameter Type	Description
id	String	Audit scope rule ID
name	String	Audit scope name
action	String	Actions in the audit scope
status	String	Audit scope rule status
exception_ips	String	Exception IP address of the audit scope
source_ips	String	Source IP address of the audit scope rule
source_ports	String	Port of the audit scope rule
db_ids	String	Database ID
db_names	String	Database name
db_users	String	Database user
all_audit	Boolean	Indicates if it is a full audit policy. The value is TRUE for the built-in full audit rule and FALSE for the user-defined full audit rule.

Status code: 400**Table 3-298** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-299 ErrorDetail

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

Status code: 403

Table 3-300 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-301 ErrorDetail

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

Status code: 500

Table 3-302 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-303 ErrorDetail

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

Example Request

```
/v1/{project_id}/{instance_id}/dbss/audit/rule/scopes
```

Example Response

Status code: 200

Succeeded

```
{
  "scopes": [ {
    "id": "zX4W2ngBo47GiyUSBuNs",
    "name": "Full Audit Rule,
    "action": "",
    "status": "ON",
```

```
"exception_ips" : "",
"source_ips" : "",
"source_ports" : "",
"db_ids" : "",
"db_names" : "",
"db_users" : "",
"all_audit" : true
}],
"total" : 1
}
```

Status code: 400

Request Parameter Error

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status code: 500

Internal Server Error

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Incorrect request parameter.
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.6.3 Querying SQL Injection Rule Policies

Function

This API is used to query an SQL injection rule policy.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{instance_id}/dbss/audit/rule/sql-injections

Table 3-304 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Request Parameter

Table 3-305 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-306 Request body parameter

Parameter	Mandatory	Parameter Type	Description
risk_levels	No	String	Risk severity. • HIGH • MEDIUM • LOW • NO_RISK

Response Parameters

Status code: 200

Table 3-307 Response body parameter

Parameter	Parameter Type	Description
rules	Array of rules objects	SQL rule list
total	Integer	Total number

Table 3-308 rules

Parameter	Parameter Type	Description
id	String	SQL rule ID
name	String	SQL rule name
status	String	Rule status. The options are as follows: • ON • OFF
risk_level	String	Risk severity. • HIGH • MEDIUM • LOW
type	String	Rule types. The value can be: • SYSTEM: built-in rules • CUSTOMIZE: user-defined rules
rank	Integer	Priority. A smaller value indicates a higher priority.
feature	String	SQL command features
regex	String	Regular expression

Status code: 400**Table 3-309** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-310 ErrorDetail

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

Status code: 403**Table 3-311** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-312 ErrorDetail

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

Status code: 500**Table 3-313** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-314 ErrorDetail

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

Example Request

```
/v1/{project_id}/{instance_id}/dbss/audit/rule/sql-injections
{
  "risk_levels" : "HIGH"
}
```

Response Examples

Status code: 200

Succeeded

Status code: 400

Incorrect request parameters.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status code: 500

Internal server error.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Incorrect request parameter.
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.6.4 Querying a Risk Rule Policy

Function

This API is used to query a risk rule policy.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{project_id}/{instance_id}/dbss/audit/rule/risk

Table 3-315 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Table 3-316 Query parameter

Parameter	Mandatory	Type	Description
name	No	String	Risk name
risk_levels	No	String	Risk severity. • LOW • MEDIUM • HIGH • NO_RISK

Request Parameter

Table 3-317 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-318 Response body parameter

Parameter	Parameter Type	Description
rules	Array of rules objects	List of risk rules
total	Integer	Total number

Table 3-319 rules

Parameter	Parameter Type	Description
id	String	Risk rule ID
name	String	Risk rule name
type	String	Risk rule type. The options are as follows: • LOGIN • OPERATE
feature	String	Risk rule characteristics
status	String	Risk rule status. The value can be: • ON: enabled • OFF: disabled
rank	Integer	Risk rule priority. A smaller value indicates a higher priority.

Parameter	Parameter Type	Description
risk_level	String	Risk severity. • LOW • MEDIUM • HIGH • NO_RISK]
rule_type	String	Rule types. The value can be: • SYSTEM: system rule • NULL: user-defined rules

Status code: 400**Table 3-320** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-321 ErrorDetail

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

Status code: 403**Table 3-322** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-323 ErrorDetail

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

Status code: 500

Table 3-324 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-325 ErrorDetail

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

Example Request

/v1/{project_id}/{instance_id}/dbss/audit/rule/risk

Example Response

Status code: 200

Succeeded

```
{
  "rules": [ {
    "id": "xX4W2ngBo47GiyUSBeOy",
    "name": "Database_drag_detection",
    "type": "OPERATE",
    "feature": "CLIENT[Any]OPERATE[[SELECT]OBJECT[Any]",
    "status": "ON",
    "rank": -1,
    "rule_type": "CUSTOMIZE",
    "risk_level": "HIGH"
  }, {
    "id": "xn4W2ngBo47GiyUSBeP4",
    "name": "Database_Slow_SQL_Detection",
    "type": "OPERATE",
    "feature": "CLIENT[Any]OPERATE[[SELECT]OBJECT[Any]",
    "status": "ON",
    "rank": -2,
    "rule_type": "CUSTOMIZE",
```

```
"risk_level" : "LOW"
}],
"total" : 2
}
```

Status code: 400

Request Parameter Error

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status code: 500

Internal server error.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Incorrect request parameter.
403	Authentication failed.
500	Internal server error.

Error Codes

For details, see [Error Codes](#).

3.6.5 Querying a Specified Risk Rule Policy

Function

This API is used to query a specified risk rule policy.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{project_id}/{instance_id}/dbss/audit/rule/risk/{rule_id}

Table 3-326 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.
rule_id	Yes	String	Risk rule ID. You can obtain the value from the ID field in the API for querying risk rule policies.

Request Parameter

Table 3-327 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-328 Response body parameter

Parameter	Parameter Type	Description
rule_id	String	Risk rule ID
rule_name	String	Risk rule name
status	String	Risk rule status. The value can be: • OFF • ON

Parameter	Parameter Type	Description
action	String	Operation set, which is separated by commas (,). LOGIN,CREATE_TABLE,CREATE_TABLESPACE,DROP_TABLE, DROP_TABLESPACE,DELETE,INSERT,INSERT_SELECT,SELECT,SELECT_FOR_UPDATE, UPDATE,CREATE_USER,DROP_USER,GRANT,OPERATE ALL
schemas	Array of schemas objects	Schemas
rank	Integer	Risk rule priority. A smaller value indicates a higher priority.
ignore_case	Boolean	Whether to ignore the case of the customized operation object
risk_level	String	Risk severity. • LOW • MEDIUM • HIGH • NO_RISK
db_ids	String	Database ID. Values are separated by commas (,). A single ID can contain up to 256 characters.
execution_symbol	String	Relationship between the execution duration and the execution duration threshold. The value can be: • GREATER • EQUAL • LESS • GREATER_EQUAL • LESS_EQUAL • NO_MATCH
execution_time	Integer	Execution duration threshold

Parameter	Parameter Type	Description
affect_symbol	String	Relationship between the number of affected rows and the rows threshold. The value can be: • GREATER • EQUAL • LESS • GREATER_EQUAL • LESS_EQUAL • NO_MATCH
affect_rows	Integer	Threshold of affected rows
client_ips	String	Client IP address segment. The value is in the IP-IP format or IP/XX format. IP address segments are separated by commas (,).

Table 3-329 schemas

Parameter	Parameter Type	Description
schema	String	Schema name
table	String	Table
column	String	Column

Status code: 400**Table 3-330** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-331 ErrorDetail

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

Status code: 403**Table 3-332** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-333 ErrorDetail

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

Status code: 500**Table 3-334** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-335 ErrorDetail

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

Example request

```
/v1/{project_id}/{instance_id}/dbss/audit/rule/risk/{rule_id}
```

Example Response**Status code: 200**

Execution succeeded.

```
{  
  "status" : "OFF",  
  "action" : "LOGIN,SELECT,INSERT",  
}
```

```
"schemas" : [ {  
  "schema" : "dbss_audit",  
  "table" : null,  
  "column" : null  
} ],  
"rank" : 6,  
"ignore_case" : false,  
"rule_id" : "AWT0HznX7At9UslqwTfm",  
"rule_name" : "risk_rule_name_00",  
"risk_level" : "MEDIUM",  
"db_ids" : "11111,22222",  
"execution_symbol" : "GREATER",  
"execution_time" : 10000,  
"affect_symbol" : "GREATER",  
"affect_rows" : 30,  
"client_ips" : "192.168.0.1"  
}
```

Status code: 400

Incorrect request parameter.

```
{  
  "error" : {  
    "error_code" : "DBSS.XXXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status code: 500

Internal server error.

```
{  
  "error" : {  
    "error_code" : "DBSS.XXXX",  
    "error_msg" : "XXX"  
  }  
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Incorrect request parameter.
403	Authentication failed.
500	Internal Server Error

Error Codes

For details, see [Error Codes](#).

3.6.6 Querying a Privacy Data Masking Rule

Function

This API is used to query a privacy data masking rule.

Calling Method

For details, see [Calling APIs](#).

URI

GET /v1/{project_id}/{instance_id}/dbss/audit/sensitive/masks

Table 3-336 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
instance_id	Yes	String	Instance ID. You can obtain the value from the ID field in the API for querying the instance list.

Table 3-337 Query parameter

Parameter	Mandatory	Parameter Type	Description
offset	No	String	Offset
limit	No	String	Number of query records.

Request Parameter

Table 3-338 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-339 Response body parameter

Parameter	Parameter Type	Description
rules	Array of rules objects	Rules
total	Integer	Total number

Table 3-340 rules

Parameter	Parameter Type	Description
id	String	Rule ID
name	String	Rule name.
type	String	Rule types. The value can be: - BUILD_IN: built-in rules - USER_DEFINE: user-defined rules
regex	String	Regular expression
mask_value	String	Substitution value
status	String	Rule status
operate_time	String	Operation time

Status code: 400**Table 3-341** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-342 ErrorDetail

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

Status code: 403**Table 3-343** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-344 ErrorDetail

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

Status code: 500**Table 3-345** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-346 ErrorDetail

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

Example Request

```
/v1/{project_id}/{instance_id}/dbss/audit/sensitive/masks
```

Example Response**Status code: 200**

Execution succeeded.

```
{
  "rules": [ {
    "id": "n34W2ngBo47GiyUSKOVl",
```

```
{
  "name" : "Passport NO.",
  "type" : "BUILD_IN",
  "regex" : "-",
  "mask_value" : "###",
  "status" : "ON",
  "operate_time" : "2030-01-01 00:00:06"
}, {
  "id" : "nn4W2ngBo47GiyUSKOVp",
  "name" : "Military officer card NO.",
  "type" : "BUILD_IN",
  "regex" : "-",
  "mask_value" : "###",
  "status" : "ON",
  "operate_time" : "2030-01-01 00:00:05"
}, {
  "id" : "nX4W2ngBo47GiyUSKOU9",
  "name" : "Ethnicity",
  "type" : "BUILD_IN",
  "regex" : "-",
  "mask_value" : "###",
  "status" : "ON",
  "operate_time" : "2030-01-01 00:00:04"
}, {
  "id" : "mn4W2ngBo47GiyUSKOUO",
  "name" : "GPS Information",
  "type" : "BUILD_IN",
  "regex" : "-",
  "mask_value" : "###",
  "status" : "ON",
  "operate_time" : "2030-01-01 00:00:01"
} ],
"total" : 6
}
```

Status code: 400

Incorrect request parameter.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status code: 500

Internal server error.

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Incorrect request parameter.
403	Authentication failed.

Status Code	Description
500	Internal Server Error

Error Code

For details, see [Error Codes](#).

3.7 TMS Tags

3.7.1 Querying Tags in a Project

Function

This API is used to query project tags.

Calling Method

For details, see [Calling APIs](#).

URI

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

Table 3-347 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
resource_type	Yes	String	Resource type. auditInstance

Request Parameter

Table 3-348 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Response Parameters

Status code: 200

Table 3-349 Response body parameter

Parameter	Parameter Type	Description
tags	Array of tags objects	Tags.

Table 3-350 tags

Parameter	Parameter Type	Description
key	String	Key. The value can contain up to 128 characters.
values	Array of strings	Specifies tag values. Each value can contain a maximum of 255 characters.

Status code: 400

Table 3-351 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-352 ErrorDetail

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

Status code: 403**Table 3-353** Response body parameter

Parameter	Response body parameter	Description
error	Object	Error message.

Table 3-354 ErrorDetail

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

Status code: 500**Table 3-355** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-356 ErrorDetail

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

Example Request

```
/v1/{project_id}/{resource_type}/tags
```

Example Response

Status code: 200

Execution succeeded.

```
{
  "tags" : [ {
    "key" : "key1",
    "values" : [ "value1", "value2" ]
  }, {
    "key" : "key2",
    "values" : [ "value1", "value2" ]
  } ]
}
```

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.7.2 Querying the Resource Instance List by Tag

Function

This API is used to query the resource instance list by tag.

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{resource_type}/resource-instances/filter

Table 3-357 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
resource_type	Yes	String	Resource type. • auditInstance

Table 3-358 Query parameter

Parameter	Mandatory	Parameter Type	Description
limit	No	String	Number of records to be queried, The maximum value of limit is 1000 and the minimum value is 1 .
offset	No	String	Index location. If offset is set to <i>N</i> , the query starts from the <i>N</i> +1 piece of data. The value is 0 by default, indicating that the query starts from the first piece of data. The value must be an integer and cannot be a negative number.

Request Parameter

Table 3-359 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-360 Request body parameter

Parameter	Mandatory	Parameter Type	Description
matches	No	Array of matches objects	Specifies the search criteria. The tag key is the parameter to match, for example, resource_name . The tag value indicates the value to be matched. The key is a fixed dictionary value and cannot contain duplicate keys or unsupported keys. Check whether fuzzy match is required based on the key value. For example, if key is set to resource_name, fuzzy search (case-insensitive) is performed by default. If value is empty, exact match is performed. Most services do not have resources without names. In this case, an empty list is returned. If key is resource_id , exact match is performed. Only resource_name for key is supported. Other key values will be available later.
not_tags	No	Array of TagKeyValuesBean objects	The resources to be queried do not contain tags listed in not_tags. Each resource to be queried contains a maximum of 50 keys. Each tag key can have a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns resources containing no tags in this list. Keys in this list are in an AND relationship while values in each key-value structure are in an OR relationship. If no tag filtering condition is specified, full data is returned.

Parameter	Mandatory	Parameter Type	Description
tags	No	Array of TagKeyValue sBean objects	The resources to be queried contain tags listed in tags . Each instance to be queried contains a maximum of 50 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns instances containing all tags in this list. Keys in this list are in the AND relationship and values in each key-value structure are in the OR relationship. If no tag filtering condition is specified, full data is returned.
tags_any	No	Array of TagKeyValue sBean objects	The resources to be queried contain any tags listed in tags_any . Each resource to be queried contains a maximum of 50 keys. Each tag key can have a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns instances containing any tag in this list. Keys in this list are in the OR relationship and values in each key-value structure are also in the OR relationship. If no tag filtering condition is specified, full data is returned.

Parameter	Mandatory	Parameter Type	Description
not_tags_any	No	Array of TagKeyValue sBean objects	The resources to be queried do not contain any tags listed in not_tags_any. Each resource to be queried contains a maximum of 50 keys. Each tag key can have a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns resources containing no tag in this list. Keys in this list are in the OR relationship and values in each key-value structure are also in the OR relationship. If no tag filtering condition is specified, full data is returned.
sys_tags	No	TagKeyValue sBean object	Only users with the op_service permission can use this parameter to filter resources. Only one tag structure is contained when this API is called by Tag Management Service (TMS). The key is _sys_enterprise_project_idvalue , and the value is an enterprise project ID. Currently, each key can contain only one value. 0 indicates the default enterprise project. sys_tags cannot be used together with tenant tag filtering criteria (without_any_tag , tags , tags_any , not_tags , and not_tags_any). If sys_tags is not specified, resources with all the tags specified in tags will be returned. If tags is not specified, all resources will be returned.

Parameter	Mandatory	Parameter Type	Description
without_any_tag	No	Boolean	If this parameter is 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.

Table 3-361 matches

Parameter	Mandatory	Parameter Type	Description
key	Yes	String	Key. Only resource_name is supported.
value	Yes	String	Value, which is the name of the resource to be matched.

Table 3-362 TagKeyValuesBean

Parameter	Mandatory	Parameter Type	Description
key	Yes	String	Key. The value can contain a maximum of 128 Unicode characters. The tag key cannot be left blank. The system does not verify the character set of key when searching for resources. key cannot be empty, an empty string, or spaces. Before using key , delete single-byte character (SBC) spaces before and after the value.

Parameter	Mandatory	Parameter Type	Description
values	Yes	Array of strings	List of tag values. Each value contains a maximum of 255 Unicode characters. Before verifying and using values , delete SBC spaces before and after the value. The value can be an empty array but cannot be left blank. If values is left blank, it indicates any_value (querying any value). The values are in the OR relationship.

Response Parameters

Status code: 200

Table 3-363 Response body parameter

Parameter	Type	Description
resources	Array of resources objects	Resource instance list.
total_count	Integer	Total number of records.

Table 3-364 resources

Parameter	Parameter Type	Description
resource_id	String	The disk ID.
resource_name	String	Resource name. If the resource does not have a name, the ID is returned.
resource_detail	Object	Resource details. This field is reserved for subsequent extension, and its value defaults to an empty string.
tags	Array of tags objects	A list of tags for queried resources to match against. This parameter is an empty array by default if there is no tag.

Parameter	Parameter Type	Description
sys_tags	Array of sys_tags objects	Only the op_service permission can obtain this field. Currently, this field contains only the resource_tag structure. The key is _sys_enterprise_project_id. value: enterprise project ID. The value 0 indicates the default enterprise project. This parameter can only be used by users with the op_service permission.

Table 3-365 tags

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

Table 3-366 sys_tags

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

Status code: 400**Table 3-367** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-368 ErrorDetail

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

Status code: 403**Table 3-369** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-370 ErrorDetail

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

Status code: 500**Table 3-371** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-372 ErrorDetail

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

Example Request

```
/v1/{project_id}/{resource_type}/resource-instances/filter
{
  "matches" : [ {
    "key" : "resource_name",
    "value" : "resource1"
  } ],
  "not_tags" : [ {
    "key" : "key1",
    "values" : [ "*"value1", "value2" ]
  } ],
  "tags" : [ {
    "key" : "key1",
    "values" : [ "*"value1", "value2" ]
  } ],
  "tags_any" : [ {
    "key" : "key1",
    "values" : [ "value1", "value2" ]
  } ],
  "not_tags_any" : [ {
    "key" : "key1",
    "values" : [ "value1", "value2" ]
  } ],
  "sys_tags" : [ {
    "key" : "_sys_enterprise_project_id",
    "values" : [ "5aa119a8-d25b-45a7-8d1b-88e127885635" ]
  } ]
}
```

Example Responses

Status code: 200

Succeeded

```
{
  "resources" : [ {
    "resource_detail" : null,
    "resource_id" : "cdfs_cefs_wesas_12_dsad",
    "resource_name" : "resouece1",
    "tags" : [ {
      "key" : "key1",
      "value" : "value1"
    }, {
      "key" : "key2",
      "value" : "value1"
    } ],
    "sys_tags" : [ {
      "key" : "_sys_enterprise_project_id",
      "value" : "5aa119a8-d25b-45a7-8d1b-88e127885635"
    } ]
  } ],
  "total_count" : 1000
}
```

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
200	Success
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.7.3 Querying the Number of Resource Instances by Tag

Function

Querying the Number of Resource Instances by Tag

Calling Method

For details, see [Calling APIs](#).

URI

POST /v1/{project_id}/{resource_type}/resource-instances/count

Table 3-373 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
resource_type	Yes	String	Resource type. auditInstance

Request Parameter

Table 3-374 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-375 Request body parameter

Parameter	Mandatory	Parameter Type	Description
matches	No	Array of matches objects	Specifies the search criteria. The tag key is the parameter to match, for example, resource_name . The tag value indicates the value to be matched. The key is a fixed dictionary value and cannot contain duplicate keys or unsupported keys. Check whether fuzzy match is required based on the key value. For example, if key is set to resource_name, fuzzy search (case-insensitive) is performed by default. If value is empty, exact match is performed. Most services do not have resources without names. In this case, an empty list is returned. If key is resource_id , exact match is performed. Only resource_name for key is supported. Other key values will be available later.

Parameter	Mandatory	Parameter Type	Description
not_tags	No	Array of TagKeyValue sBean objects	The resources to be queried do not contain tags listed in not_tags. Each resource to be queried contains a maximum of 50 keys. Each tag key can have a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns resources containing no tags in this list. Keys in this list are in an AND relationship while values in each key-value structure are in an OR relationship. If no tag filtering condition is specified, full data is returned.
tags	No	Array of TagKeyValue sBean objects	The resources to be queried contain tags listed in tags . Each instance to be queried contains a maximum of 50 keys. Each tag key has a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns instances containing all tags in this list. Keys in this list are in the AND relationship and values in each key-value structure are in the OR relationship. If no tag filtering condition is specified, full data is returned.

Parameter	Mandatory	Parameter Type	Description
tags_any	No	Array of TagKeyValue sBean objects	The resources to be queried contain any tags listed in tags_any . Each resource to be queried contains a maximum of 50 keys. Each tag key can have a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns instances containing any tag in this list. Keys in this list are in the OR relationship and values in each key-value structure are also in the OR relationship. If no tag filtering condition is specified, full data is returned.
not_tags_any	No	Array of TagKeyValue sBean objects	The resources to be queried do not contain any tags listed in not_tags_any . Each resource to be queried contains a maximum of 50 keys. Each tag key can have a maximum of 10 tag values. The tag value corresponding to each tag key can be an empty array but the structure cannot be missing. Keys must be unique and values of a key must be unique. The response returns resources containing no tag in this list. Keys in this list are in the OR relationship and values in each key-value structure are also in the OR relationship. If no tag filtering condition is specified, full data is returned.

Parameter	Mandatory	Parameter Type	Description
sys_tags	No	TagKeyValue sBean object	Only users with the op_service permission can use this parameter to filter resources. Only one tag structure is contained when this API is called by Tag Management Service (TMS). The key is _sys_enterprise_project_idvalue , and the value is an enterprise project ID. Currently, each key can contain only one value. 0 indicates the default enterprise project. sys_tags cannot be used together with tenant tag filtering criteria (without_any_tag , tags , tags_any , not_tags , and not_tags_any). If sys_tags is not specified, resources with all the tags specified in tags will be returned. If tags is not specified, all resources will be returned.
without_any_tag	No	Boolean	If this parameter is 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.

Table 3-376 matches

Parameter	Mandatory	Parameter Type	Description
key	Yes	String	Key. Only resource_name is supported.
value	Yes	String	Value, which is the name of the resource to be matched.

Table 3-377 TagKeyValuesBean

Parameter	Mandatory	Parameter Type	Description
key	Yes	String	Key. The value can contain a maximum of 128 Unicode characters. The tag key cannot be left blank. The system does not verify the character set of key when searching for resources. key cannot be empty, an empty string, or spaces. Before using key , delete single-byte character (SBC) spaces before and after the value.
values	Yes	Array of strings	List of tag values. Each value contains a maximum of 255 Unicode characters. Before verifying and using values , delete SBC spaces before and after the value. The value can be an empty array but cannot be left blank. If the values are null, it indicates any_value (querying any value). The values are in the OR relationship.

Response Parameters

Status code: 200

Table 3-378 Response body parameter

Parameter	Parameter Type	Description
total_count	Integer	Total number of records.

Table 3-379 tags

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

Table 3-380 sys_tags

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

Status code: 400**Table 3-381** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-382 ErrorDetail

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

Status code: 403**Table 3-383** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-384 ErrorDetail

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

Status code: 500**Table 3-385** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-386 ErrorDetail

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

Example Request

```
/v1/{project_id}/{resource_type}/resource-instances/count
{
  "matches": [ {
    "key": "resource_name",
    "value": "resource1"
  } ],
  "not_tags": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  } ],
  "tags": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  } ],
  "tags_any": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  } ],
  "not_tags_any": [ {
    "key": "key1",
    "values": [ "value1", "value2" ]
  } ],
  "sys_tags": [ {
    "key": "_sys_enterprise_project_id",
    "values": [ "5aa119a8-d25b-45a7-8d1b-88e127885635" ]
  } ]
}
```

Response Examples**Status code: 200**

Execution succeeded.

```
{
  "total_count": 1000
}
```

Status code: 400

Failed

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
200	Request succeeded.
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.7.4 Adding Resource Tags in Batches

Function

This API is used to add resource tags in batches.

Calling Method

For details, see [Calling APIs](#).

URI

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

Table 3-387 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
resource_type	Yes	String	Resource type. auditInstance

Parameter	Mandatory	Parameter Type	Description
resource_id	Yes	String	Resource ID You can obtain the value from the resource_id field in the API for querying the instance list.

Request Parameter

Table 3-388 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token. The token can be queried by calling the IAM API. (The token is the value of X-Subject-Token in the response header.)

Table 3-389 Request body parameter

Parameter	Mandatory	Parameter Type	Description
tags	No	Array of tags objects	Tags. This parameter is mandatory for the tenant permission. For the op_service permission, either tags or sys_tags can be set.
sys_tags	No	Array of sys_tags objects	System tag list. This field is available only to the op_service permission. Choose either this field or tags. Currently, TMS invokes only one resource_tag structure. The key is fixed as _sys_enterprise_project_id. The value is UUID or 0. 0 indicates the default enterprise project.

Table 3-390 tags

Parameter	Mandatory	Parameter Type	Description
key	Yes	String	Key. The value can contain up to 128 characters.
value	Yes	String	Value. Each value can contain a maximum of 255 characters.

Table 3-391 sys_tags

Parameter	Mandatory	Parameter Type	Description
key	Yes	String	Key. The value can contain up to 128 characters.
value	Yes	String	Value. Each value can contain a maximum of 255 characters.

Response Parameter

Status code: 204

Table 3-392 Response body parameters

Parameter	Parameter Type	Description
-	String	-

Status code: 400

Table 3-393 Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-394 ErrorDetail

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

Status code: 403**Table 3-395** Response body parameter

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-396 ErrorDetail

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

Status code: 500**Table 3-397** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-398 ErrorDetail

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

Example Request

```
/v1/{project_id}/{resource_type}/{resource_id}/tags/create
{
  "tags": [ {
    "key": "key1",
    "value": "value1"
  } ]
}
```

Response Examples

Status code: 400

Failed

```
{
  "error": {
    "error_code": "DBSS.XXXX",
    "error_msg": "XXX"
  }
}
```

Status Code

Status Code	Description
204	Request succeeded.
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

3.7.5 Deleting Resource Tags in Batches

Function

This API is used to delete resource tags in batches.

Calling Method

For details, see [Calling APIs](#).

URI

DELETE /v1/{project_id}/{resource_type}/{resource_id}/tags/delete

Table 3-399 URI parameter

Parameter	Mandatory	Parameter Type	Description
project_id	Yes	String	Project ID.
resource_type	Yes	String	Resource type. auditInstance
resource_id	Yes	String	Resource ID. You can obtain the value from the resource_id field in the API for querying the instance list.

Request Parameter

Table 3-400 Request header parameter

Parameter	Mandatory	Parameter Type	Description
X-Auth-Token	Yes	String	User token.

Table 3-401 Request body parameter

Parameter	Mandatory	Parameter Type	Description
tags	No	Array of tags objects	Tags. This parameter is mandatory for the tenant permission. For the op_service permission, either tags or sys_tags can be set.

Parameter	Mandatory	Parameter Type	Description
sys_tags	No	Array of sys_tags objects	System tag list. This field is available only to the op_service permission. Choose either this field or tags. Currently, TMS invokes only one resource_tag structure. The key is fixed as _sys_enterprise_project_id. The value is UUID or 0. 0 indicates the enterprise project by default. Currently, only create is supported.

Table 3-402 tags

Parameter	Mandatory	Parameter Type	Description
key	Yes	String	Key. The value can contain up to 128 characters.
value	No	String	Value. Each value can contain a maximum of 255 characters.

Table 3-403 sys_tags

Parameter	Mandatory	Parameter Type	Description
key	Yes	String	Key. The value can contain up to 128 characters.
value	No	String	Value. Each value can contain a maximum of 255 characters.

Response Parameter

Status code: 204

Table 3-404 Response body parameter

Parameter	Parameter Type	Description
-	String	-

Status code: 400**Table 3-405** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-406 ErrorDetail

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

Status code: 403**Table 3-407** Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-408 ErrorDetail

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

Status code: 500

Table 3-409 Response body parameters

Parameter	Parameter Type	Description
error	Object	Error message.

Table 3-410 ErrorDetail

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

Example Request

```
/v1/{project_id}/{resource_type}/{resource_id}/tags/delete
{
  "tags" : [ {
    "key" : "key1"
  }, {
    "key" : "key2",
    "value" : "value3"
  } ]
}
```

Response Examples

Status code: 400

Failed

```
{
  "error" : {
    "error_code" : "DBSS.XXXX",
    "error_msg" : "XXX"
  }
}
```

Status Code

Status Code	Description
204	Request succeeded.
400	Failed
403	Authentication failed.
500	Server error.

Error Codes

For details, see [Error Codes](#).

4 Appendix

4.1 Status Codes

- Normal

Returned Value	Description
200	The request is successfully processed.

- Abnormal

Status Code	Error	Description
400	Bad Request	The server fails to process the request.
401	Unauthorized	A username and a password are required.
403	Forbidden	Access to the requested page is denied.
404	Not Found	The server fails to find the requested page.
405	Method Not Allowed	Method specified in the request is not allowed.
406	Not Acceptable	The response generated by the server could not be received by the client.
407	Proxy Authentication Required	Proxy authentication is required before the request is processed.
408	Request Timeout	The request timed out.
409	Conflict	The request is not processed due to a conflict.

Status Code	Error	Description
500	Internal Server Error	The request is not processed due to a server error.
501	Not Implemented	The request is not processed because the server does not support the requested function.
502	Bad Gateway	Failed to complete the request because the server has received an invalid response.
503	Service Unavailable	Failed to complete the request because the system is unavailable.
504	Gateway Timeout	A gateway timeout error occurs.

4.2 Error Code

Status Code	Error Code	Message	Description	Measure
400	DBSS.10000001	Enter a valid request message	The request is invalid.	Check parameters.
400	DBSS.10020101	Enter a valid request message	Failed to obtain the specification list.	Check parameters.
400	DBSS.10020102	Enter a valid request message	Perform operations on the database failed.	Check parameters.
400	DBSS.10020118	Failed to add database, exceeding the limit	Failed to add the database. The number of databases exceeds the upper limit.	Delete unnecessary databases or a new instance.
400	DBSS.10020140	Illegal order ID	The order ID does not meet requirements.	Check the order ID.
400	DBSS.100210016	Insufficient quota	Insufficient quota	Contact the administrator.

Status Code	Error Code	Message	Description	Measure
400	DBSS.10020021	Invalid request parameter ID.	Invalid request ID parameter.	Check parameters.
401	DBSS.10020100	Failed to authenticate the token in the request	Failed to authenticate the token carried in the request.	Check the token.
404	DBSS.10021004	ECS can not found the request page	The ECS server fails to find the requested page.	Check the ECS path configuration.
500	DBSS.11000000	Internal system exception. Contact technical support engineers	A system error occurs, please contact technical support engineers.	Contact the administrator.

4.3 Obtaining a Project ID

Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the API used to [query project information based on the specified criteria](#).

The API used to obtain a project ID is GET `https://{Endpoint}/v3/projects`. **{Endpoint}** is the IAM endpoint. For details about API authentication, see [Authentication](#).

In the following example, **id** indicates the project ID.

```
{
  "projects": [
    {
      "domain_id": "65382450e8f64ac0870cd180d14e684b",
      "is_domain": false,
      "parent_id": "65382450e8f64ac0870cd180d14e684b",
      "name": "xxxxxxx",
      "description": "",
      "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
      },
      "id": "a4a5d4098fb4474fa22cd05f897d6b99",
      "enabled": true
    }
  ]
}
```

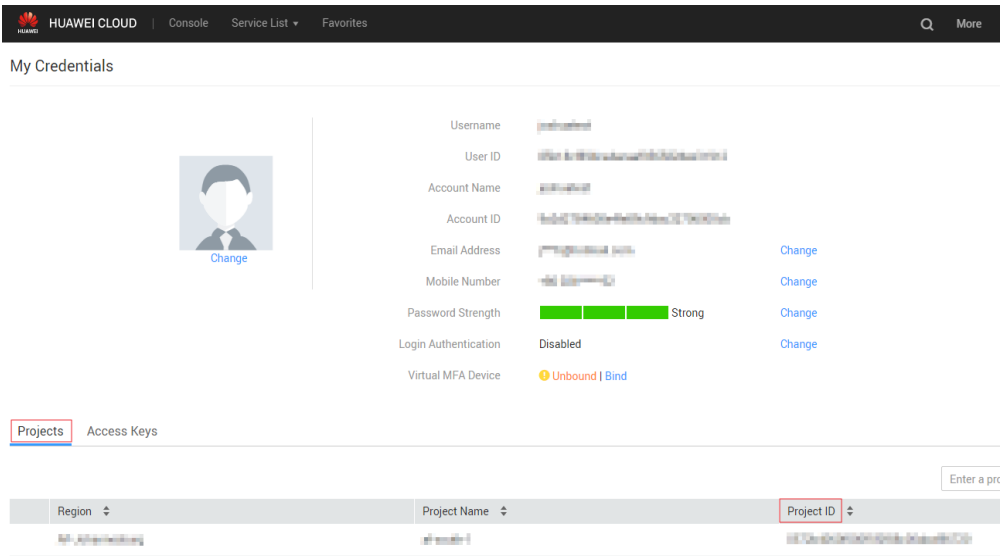
```
    ],
    "links": {
      "next": null,
      "previous": null,
      "self": "https://www.example.com/v3/projects"
    }
  }
}
```

Obtaining a Project ID from the Console

A project ID is required for some URLs when an API is called. To obtain a project ID, perform the following operations:

1. Log in to the management console.
2. Click the username and choose **Basic Information** from the drop-down list.
3. On the **Account Info** page, click **Manage** next to **Security Credentials**.
On the **My Credentials** page, view project IDs in the project list.

Figure 4-1 Viewing project IDs



A Change History

Released On	Description
2025-06-10	This is the first official release.