VPC Endpoint

API Reference

Issue 01

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Contents

1 Before You Start

1.1 Overview

Welcome to *VPC Endpoint API Reference*. The VPC Endpoint (VPCEP) service provides secure and private channels to connect your VPCs to VPC endpoint services (cloud services on the current platform or your private services), providing flexible networking without having to use EIPs.

This document describes how to use application programming interfaces (APIs) to perform operations on VPCEP resources, such as creating, querying, modifying, or deleting VPC endpoints and VPC endpoint services. For details about all supported operations, see **API Overview**.

If you plan to access VPCEP through an API, ensure that you are familiar with VPCEP concepts. For details, see **Service Overview**.

1.2 API Calling

VPCEP supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS. For details about API calling, see **Calling APIs**.

1.3 Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints for accessing the VPCEP service, see Regions and Endpoints.

1.4 Constraints

- The number of VPCEP resources that you can create is determined by your quota. To view or increase the quota, see **Quota Adjustment**.
- For detailed constraints, see the constraints described in specific APIs.

1.5 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, which should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.

- User

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

  API authentication requires information such as the account name, username, and password.

- Region

  Regions are divided based on geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants.

  For details, see **Region and AZ**.

- AZ

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

- Project

  A project corresponds to a region. Default projects are defined. Users can be granted permissions in a default project to access all resources under their accounts in the region associated with the project. If you need more refined access control, create subprojects under a default project and create resources in subprojects. Then you can assign users the permissions required to access only the resources in the specific subprojects.

- Enterprise project

  Enterprise projects group and manage resources across regions. Resources in different enterprise projects are logically isolated.

  For details about enterprise projects and about how to obtain enterprise project IDs, see *Enterprise Management User Guide*.

2 API Overview

The VPCEP service provides extended RESTful APIs.

VPCEP APIs allow you to use all VPCEP functions. VPCEP has two types of resources: VPC endpoints and VPC endpoint services.

Table 2-1 describes the APIs provided by VPCEP.

Table 2-1 API overview

API	Description
Version management APIs	APIs for querying version information of all VPCEP APIs or a specified API
VPC endpoint service APIs	- APIs for creating, querying, modifying, or deleting a VPC endpoint service - API for querying the list of VPC endpoint services - APIs for adding, querying, or deleting a whitelist record - APIs for the endpoints connected to and those accepted or rejected to connect to a VPC endpoint service With these APIs, you can manage VPC endpoint services and set rules based on service conditions to provide services for VPC endpoints.
VPC endpoint APIs	- APIs for creating, querying, deleting a VPC endpoint - API for querying the list of VPC endpoints With these APIs, you can manage VPC endpoints and use services provided by VPC endpoint services.
Resource quota API	API for querying the quota of VPCEP resources
Tag API	API for managing VPCEP tags, including querying resources by tag, adding and deleting a tag or tags, and querying resource tags

3 Calling APIs

3.1 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.

Table 3-1 URI parameter description

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
Endpoint	Domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from Regions and Endpoints. For example, the endpoint of IAM in region **Dublin** is **iam.myhuaweicloud.eu**.
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**.

Parameter	Description
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 the **Dublin** region, obtain the endpoint of IAM (**iam.myhuaweicloud.eu**) 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.myhuaweicloud.eu/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.

Table 3-2 HTTP methods

Method	Description
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.myhuaweicloud.eu/v3/auth/tokens

Request Header

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

Common request header fields are as follows.

Table 3-3 Common request header fields

Parameter	Description	Mandatory	Example Value
Host	Specifies the server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of *Hostname:Port number*. If the port number is not specified, the default port is used. The default port number for **https** is **443**.	No This field is mandatory for AK/SK authentication.	code.test.com or code.test.com:443
Content-Type	Specifies the type (or format) of the message body. The default value **application/json** is recommended. Other values of this field will be provided for specific APIs if any.	Yes	application/json
Content-Length	Specifies the length of the request body. The unit is byte.	No	3495
X-Project-Id	Specifies the project ID. Obtain the project ID by following the instructions in **Obtaining a Project ID**.	No This field is mandatory for requests that use AK/SK authentication in the Dedicated Cloud (DeC) scenario or multi-project scenario.	e9993fc787d94b6c886cbaa340f9c0f4

Parameter	Description	Mandatory	Example Value
X-Auth-Token	Specifies the user token. It is a response to the API for **obtaining a user token** (This is the only API that does not require authentication). After the request is processed, the value of **X-Subject-Token** in the response header is the token value.	No This field is mandatory for token authentication.	The following is part of an example token: MIIPAgYJKoZIhvc NAQcCo...ggg1B BIINPXsidG9rZ

☐ **NOTE**

> In addition to supporting authentication using tokens, APIs support authentication using AK/SK, which uses SDKs to sign a request. During the signature, the **Authorization** (signature authentication) and **X-Sdk-Date** (time when a request is sent) headers are automatically added in the request.
>
> For more details, see "Authentication Using AK/SK" in **Authentication**.

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

```
POST https://iam.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json
```

(Optional) Request Body

This part is optional. 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 *username*, *domainname*, ******** (login password), and *xxxxxxxxxxxxxxxx* (project name) with the actual values. Obtain a project name from Regions and Endpoints.

☐ **NOTE**

> The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see **Obtaining a User Token**.

```
POST https://iam.myhuaweicloud.eu/v3/auth/tokens
Content-Type: application/json
```

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

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

3.2 Authentication

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

- Token authentication: Requests are authenticated using tokens.
- AK/SK authentication: Requests are encrypted using AK/SK pairs. AK/SK authentication is recommended because it is more secure than token authentication.

Token Authentication

📖 **NOTE**

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

A token 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 the **Obtaining User Token** API.

A cloud service can be deployed as either a project-level service or global service.

- For a project-level service, you need to obtain a project-level token. When you call the API, set **auth.scope** in the request body to **project**.
- For a global service, you need to obtain a global token. When you call the API, set **auth.scope** in the request body to **domain**.

IMS is a project-level service. When you call the API, set **auth.scope** in the request body to **project**.

```
{
    "auth": {
```

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

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

```
POST https://iam.myhuaweicloud.eu/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK Authentication

🔲 NOTE

AK/SK authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token authentication is recommended.

In AK/SK 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, which is 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 authentication, you can use an AK/SK to sign requests based on the signature algorithm or using the signing SDK. For details about how to sign requests and use the signing SDK, see **API Request Signing Guide**.

🔲 NOTE

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

3.3 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 Code**.

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

Response Header

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

Figure 3-1 shows the response header fields for the API used to **obtain a user token**. The **x-subject-token** header field is the desired user token. This token can then be used to authenticate the calling of other APIs.

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

connection → keep-alive

content-type → application/json

date → Tue, 12 Feb 2019 06:52:13 GMT

server → Web Server

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

transfer-encoding → chunked

via → proxy A

x-content-type-options → nosniff

x-download-options → noopen

x-frame-options → SAMEORIGIN

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

x-subject-token
→ MIIYXQYJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjIwMTktMDItMTNUMDfj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgklqO1wi4JIGzrpd18LGXK5txldfq4lqHCYb8P4NaY0NYejcAgzJVeFIYtLWT1GSO0zxKZmIQHQj82HBqHdgIZO9fuEbL5dMhdavj+33wElxHRCE9I87o+k9-j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jqgIFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;

(Optional) Response Body

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

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

```
{
   "token": {
```

```
        "expires_at": "2019-02-13T06:52:13.855000Z",
        "methods": [
          "password"
        ],
        "catalog": [
          {
            "endpoints": [
              {
                "region_id": "az-01",
......
```

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

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

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

4 API

4.1 Version Management

4.1.1 Querying VPCEP API Versions

Function

This API is used to query versions of VPCEP APIs.

URI

GET /

Request Parameters

Table 4-1 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Response Parameters

Status code: 200

Table 4-2 Response body parameters

Parameter	Type	Description
versions	Array of **VersionObject** objects	Lists the VPCEP versions.

Table 4-3 VersionObject

Parameter	Type	Description
status	String	Specifies the version status.● CURRENT: indicates a primary version.● SUPPORT: indicates an earlier version which is still supported. ● DEPRECATED: indicates deprecated version which may be deleted later.
id	String	Specifies the API version ID.
updated	String	Specifies the time the API version was released. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
version	String	Specifies the supported version number.
min_version	String	Specifies the supported microversion number. If the APIs do not support microversions, the parameter is left blank.
links	Array of **Link** objects	Specifies the API URL.

Table 4-4 Link

Parameter	Type	Description
href	String	Specifies the reference address of the current API version.
type	String	Specifies the MIME type of the request body. The value is application/json.
rel	String	Specifies the relationship between the current API version and the referenced address.

Status code: 400

Table 4-5 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-6 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-7 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-8 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-9 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-10 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-11 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-12 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-13 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-14 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-15 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-16 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-17 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-18 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-19 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-20 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-21 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-22 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-23 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-24 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-25 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-26 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-27 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-28 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-29 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-30 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-31 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-32 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

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

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "versions" : [ {
    "updated" : "2018-09-30T00:00:00Z",
    "version" : "1",
    "min_version" : "",
    "status" : "CURRENT",
    "id" : "v1",
    "links" : [ {
      "href" : "https://{vpcep_uri}/v1",
      "type" : "application/json",
      "rel" : "self"
    } ]
  } ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The server has not found anything matching the request URI.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.1.2 Querying the Version of a Specified VPCEP API

Function

Function This API is used to query the version of a specified VPCEP API.

URI

GET /{version}

Table 4-33 Path Parameters

Parameter	Mandatory	Type	Description
version	Yes	String	Specifies the version number to be queried. The value starts with v, for example, v1. If this parameter is left blank, versions of all VPCEP APIs are queried.

Request Parameters

Table 4-34 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Response Parameters

Status code: 200

Table 4-35 Response body parameters

Parameter	Type	Description
version	**VersionObject** object	Specifies the VPCEP API versions.

Table 4-36 VersionObject

Parameter	Type	Description
status	String	Specifies the version status.● CURRENT: indicates a primary version.● SUPPORT: indicates an earlier version which is still supported. ● DEPRECATED: indicates deprecated version which may be deleted later.
id	String	Specifies the API version ID.

Parameter	Type	Description
updated	String	Specifies the time the API version was released. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
version	String	Specifies the supported version number.
min_version	String	Specifies the supported microversion number. If the APIs do not support microversions, the parameter is left blank.
links	Array of **Link** objects	Specifies the API URL.

Table 4-37 Link

Parameter	Type	Description
href	String	Specifies the reference address of the current API version.
type	String	Specifies the MIME type of the request body. The value is application/json.
rel	String	Specifies the relationship between the current API version and the referenced address.

Status code: 400

Table 4-38 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-39 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-40 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-41 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-42 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-43 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-44 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-45 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-46 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-47 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-48 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-49 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-50 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-51 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-52 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-53 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-54 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-55 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-56 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-57 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-58 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-59 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-60 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-61 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-62 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-63 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-64 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-65 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

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

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "version":{
    {
      "updated":"2018-09-30T00:00:00Z",
      "version":"1",
      "min_version":"",
      "status":"CURRENT",
      "id":"v1",
      "links":[
        {
          "href":"https://{vpcep_uri}/v1",
          "type":"application/json",
          "rel":"self"
        }
      ]
    }
  }
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.

Status Code	Description
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2 VPC Endpoint Services

4.2.1 Creating a VPC Endpoint Service

Function

Function This API is used to create a VPC endpoint service. Other users can create a VPC endpoint to connect to the endpoint service. Note: This API is an asynchronous interface. If it is successfully invoked, status code 200 is returned, indicating that the request has been successfully delivered. It takes 1 to 2 minutes to create a VPC endpoint service. You can view the creation result by querying the details of the VPC endpoint service.

URI

POST /v1/{project_id}/vpc-endpoint-services

Table 4-66 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID, see Obtaining a Project ID. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-67 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It is a response to the API for obtaining a user token. This API is the only one that does not require authentication.The value of X-Subject-Token in the response header is the token value. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Table 4-68 Request body parameters

Parameter	Mandatory	Type	Description
port_id	Yes	String	Specifies the ID of the backend resource of the VPC endpoint service. The ID is in the universally unique identifier (UUID) format. The options are as follows: ● Load balancer: Specifies the port ID of the private IP address of the shared load balancer. For details, see the vip_port_id field in the response parameters of section "Viewing Details of a Load Balancer" in the Elastic Load Balance API Reference. ● Virtual machine: Specifies the NIC ID of the ECS IP address. For details, see the port_id field in the response parameters of the section "Querying NICs of an ECS" in the Elastic Cloud Server API Reference. ● Virtual IP address: Specifies the NIC ID of the physical server where the virtual resource is located. Note: ● When you create a VPC endpoint service, the subnet CIDR block of the VPC cannot overlap with 198.19.128.0/17. ● The destination address of the custom route in the VPC route table cannot overlap with 198.19.128.0/17.
vip_port_id	No	String	NIC ID of the virtual IP address.

Parameter	Mandatory	Type	Description
service_name	No	String	Specifies the name of the VPC endpoint service. The name can contain a maximum of 16 characters, including letters, digits, underscores (_), and hyphens (-). ● If the service_name is left blank, the generated value is regionName+.+serviceId. ● If the service_name is specified and the verification is approved, the generated is regionName+.+serviceName+.+serviceId.
vpc_id	Yes	String	Specifies the ID of the VPC where the backend resource of the VPC endpoint service is located. For details, see the id field in the response information of the section "Querying VPC Details" in the Virtual Private Cloud API Reference.
approval_enabled	No	Boolean	Specifies whether approval is required. ● false: No approval is required. The created VPC endpoint is in the accepted state by default. ● true: Approval is required. The created VPC endpoint is in the pendingAcceptance state and can be used only after being approved by the user of the VPC endpoint service. The default value is true. Default: **true**

Parameter	Mandatory	Type	Description
service_type	No	String	Specifies the type of the VPC endpoint service. Only your private services can be configured into interface VPC endpoint services. There are two types of VPC endpoint services: interface and gateway. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. You cannot configure these cloud services, but can use them. You can query public VPC endpoint services to view the VPC endpoint services that are visible and accessible to all users configured by O&M personnel. You can create a VPC endpoint for accessing gateway and interface VPC endpoint services. Default: **interface**
server_type	Yes	String	Specifies the resource type. ● VM: indicates the cloud server, which can be used as a server. ● VIP: indicates the virtual IP address, which is applicable to be used as physical servers for virtual resources. ● LB: indicates the shared load balancer, which is applicable to services with high access traffic and services that require high reliability and disaster recovery.

Parameter	Mandatory	Type	Description
ports	Yes	Array of **PortList** objects	Specifies the port mappings opened by the VPC endpoint service. Duplicate port mappings are not allowed in the same VPC endpoint service. If multiple VPC endpoint services share one port ID, the combinations of server ports and protocols for all port mappings between VPC endpoint services must be unique. A maximum of 200 port mappings can be added at a time.
tcp_proxy	No	String	Specifies whether the client information, such as IP address, port number, and marker_id, is transmitted to the server. The following methods are supported: ● TCP TOA: transmits the client information inserted in the tcp option field to the server. Note: TCP TOA is supported only when the backend resource type is Object Storage Service (OBS). ● Proxy Protocol: transmits the client information inserted in the tcp payload field to the server. tcp_proxy is available only when the server can parse fields tcp option and tcp payload. The values are as follows: ● close: indicates that the proxy protocol is disabled. ● toa_open: indicates that the proxy protocol tcp_toa is enabled. ● proxy_open: indicates that the proxy protocol proxy_protocol is enabled. ● open: indicates that both tcp_toa and proxy_protocol are enabled. The default value is close. Default: **close**
tags	No	Array of **TagList** objects	Resource tag list A maximum of 10 tags can be added to a VPC endpoint service.

Parameter	Mandatory	Type	Description
description	No	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).

Table 4-69 PortList

Parameter	Mandatory	Type	Description
client_port	No	Integer	Specifies the port to be accessed by a VPC endpoint. This port is provided by the VPC endpoint, allowing you to access the VPC endpoint service. Supported range: 1 to 65535. Minimum: **1** Maximum: **65535**
server_port	No	Integer	Specifies the port for accessing the VPC endpoint service. This port is associated with backend resources to provide VPC endpoint services. Supported range: 1 to 65535 Minimum: **1** Maximum: **65535**
protocol	No	String	Port mapping protocol. TCP is supported. Default: **TCP**

Table 4-70 TagList

Parameter	Mandatory	Type	Description
key	No	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**
value	No	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Response Parameters

Status code: 200

Table 4-71 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint service.

Parameter	Type	Description
port_id	String	Specifies the ID of the backend resource of the VPC endpoint service. The ID is in the universally unique identifier (UUID) format. The options are as follows: ● Load balancer: Specifies the port ID of the private IP address of the shared load balancer. ● Virtual machine: Specifies the NIC ID of the ECS IP address. ● Virtual IP address: Specifies the NIC ID of the physical server where the virtual resource is located.
vip_port_id	String	Specifies the ID of the virtual NIC to which the virtual IP address is bound. This parameter is returned only when port_id is set to VIP.
service_name	String	Specifies the name of the VPC endpoint service. Minimum: **0** Maximum: **128**
server_type	String	Specifies the resource type. ● VM: indicates a cloud server. ● VIP: indicates a virtual IP address. ● LB: indicates a shared load balancer.
vpc_id	String	Specifies the ID of the VPC to which the backend resource of the VPC endpoint service belongs.
pool_id	String	Specifies the cluster ID of the VPC endpoint service.
approval_ena bled	Boolean	Specifies whether approval is required. ● false: No approval is required. The created VPC endpoint is in the accepted state by default. ● true: Approval is required. The created VPC endpoint is in the pendingAcceptance state, and can be used only after being approved by the user of the VPC endpoint service.
status	String	Specifies the status of the VPC endpoint service. ● creating: The VPC endpoint service is being created. ● available: The VPC endpoint service can be connected. ● failed: The VPC endpoint service fails to be created.

Parameter	Type	Description
service_type	String	Specifies the type of the VPC endpoint service. There are two types of VPC endpoint services: interface and gateway. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. Cloud services configured by O&M personnel do not need to be created. You can use it directly. You can create a VPC endpoint for accessing gateway and interface VPC endpoint services.
created_at	String	Specifies the creation time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
project_id	String	Project ID
cidr_type	String	Specifies the CIDR block type. ● public: indicates a public CIDR block. ● internal: indicates a private CIDR block. The default value is internal.
ports	Array of **PortList** objects	Specifies the port mappings opened by the VPC endpoint service. Duplicate port mappings are not allowed in the same VPC endpoint service. If multiple VPC endpoint services share one port ID,the combinations of server ports and protocols for all port mappings between VPC endpoint services must be unique.

Parameter	Type	Description
tcp_proxy	String	Specifies whether the client information, such as IP address, port number, and marker_id, is transmitted to the server. The following methods are supported: ● TCP TOA: transmits the client information inserted in the tcp option field to the server. Note: TCP TOA is supported only when the backend resource type is Object Storage Service (OBS). ● Proxy Protocol: transmits the client information inserted in the tcp payload field to the server. tcp_proxy is available only when the server can parse fields tcp option and tcp payload. The values are as follows: ● close: indicates that the proxy protocol is disabled. ● toa_open: indicates that the proxy protocol tcp_toa is enabled. ● proxy_open: indicates that the proxy protocol proxy_protocol is enabled. ● open: indicates that both tcp_toa and proxy_protocol are enabled. The default value is close.
tags	Array of **TagList** objects	Resource tag list
description	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).

Table 4-72 PortList

Parameter	Type	Description
client_port	Integer	Specifies the port to be accessed by a VPC endpoint. This port is provided by the VPC endpoint, allowing you to access the VPC endpoint service. Supported range: 1 to 65535. Minimum: **1** Maximum: **65535**
server_port	Integer	Specifies the port for accessing the VPC endpoint service. This port is associated with backend resources to provide VPC endpoint services. Supported range: 1 to 65535 Minimum: **1** Maximum: **65535**

Parameter	Type	Description
protocol	String	Port mapping protocol. TCP is supported. Default: **TCP**

Table 4-73 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Status code: 400

Table 4-74 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-75 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-76 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-77 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-78 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-79 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-80 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-81 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-82 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-83 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-84 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-85 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-86 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-87 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-88 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-89 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-90 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-91 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-92 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-93 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-94 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-95 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-96 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-97 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-98 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-99 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-100 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-101 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
POST https://{endpoint}/v1/{project_id}/vpc-endpoint-services

{
  "port_id" : "4189d3c2-8882-4871-a3c2-d380272eed88",
  "vpc_id" : "4189d3c2-8882-4871-a3c2-d380272eed80",
  "approval_enabled" : false,
  "service_type" : "interface",
  "server_type" : "VM",
  "ports" : [ {
    "client_port" : 8080,
    "server_port" : 90,
    "protocol" : "TCP"
  }, {
    "client_port" : 8081,
    "server_port" : 80,
    "protocol" : "TCP"
  } ]
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
  "port_id" : "4189d3c2-8882-4871-a3c2-d380272eed88",
  "vpc_id" : "4189d3c2-8882-4871-a3c2-d380272eed80",
  "pool_id" : "5289d3c2-8882-4871-a3c2-d380272eed80",
  "status" : "available",
  "approval_enabled" : false,
  "service_name" : "test123",
  "service_type" : "interface",
  "server_type" : "VM",
  "project_id" : "6e9dfd51d1124e8d8498dce894923a0d",
  "created_at" : "2022-04-14T09:35:47Z",
  "ports" : [ {
    "client_port" : 8080,
    "server_port" : 90,
    "protocol" : "TCP"
  }, {
    "client_port" : 8081,
    "server_port" : 80,
    "protocol" : "TCP"
  } ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The server has not found anything matching the request URI.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.2 Querying VPC endpoint services

Function

Function This API is used to query VPC endpoint services.

URI

GET /v1/{project_id}/vpc-endpoint-services

Table 4-102 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID

Table 4-103 Query Parameters

Parameter	Mandatory	Type	Description
endpoint_serv ice_name	No	String	Specifies the name of the VPC endpoint service. The name is not case-sensitive and supports fuzzy match. Minimum: **1** Maximum: **128**
id	No	String	Specifies the unique ID of the VPC endpoint service.
status	No	String	Specifies the status of the VPC endpoint service. ● creating: The VPC endpoint service is being created. ● available: The VPC endpoint service can be connected. ● failed: The VPC endpoint service fails to be created. ● deleting: The VPC endpoint service is being deleted.
sort_key	No	String	Specifies the sorting field of the VPC endpoint services, which can be: ● create_at: VPC endpoint services are sorted by creation time. ● update_at: VPC endpoint services are sorted by update time. The default field is create_at. Default: **create_at**
sort_dir	No	String	Specifies the sorting method of VPC endpoint services, which can be: ● desc: VPC endpoint services are sorted in descending order. ● asc: VPC endpoint services are sorted in ascending order. The default method is desc. Default: **desc**

Parameter	Mandatory	Type	Description
limit	No	Integer	Specifies the maximum number of VPC endpoint services displayed on each page. The value ranges from 0 to 1000 and is generally 10, 20, or 50. The default number is 10. Minimum: **1** Maximum: **1000** Default: **10**
offset	No	Integer	Specifies the offset. All VPC endpoint services after this offset will be queried. The offset must be an integer greater than 0 but less than the number of VPC endpoint services. Minimum: **0**
public_border _group	No	String	Specifies the VPC endpoint service that matches the edge attribute in the filtering result.

Request Parameters

Table 4-104 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Response Parameters

Status code: 200

Table 4-105 Response body parameters

Parameter	Type	Description
endpoint_serv ices	Array of **ServiceList** objects	VPC endpoint service list
total_count	Integer	Specifies the total number of VPC endpoint services that meet the search criteria. The number is not affected by the limit or offset parameter.

Table 4-106 ServiceList

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint service.
port_id	String	Specifies the ID of the backend resource of the VPC endpoint service. The ID is in the universally unique identifier (UUID) format. The options are as follows: ● Load balancer: Specifies the port ID of the private IP address of the shared load balancer. ● Virtual machine: Specifies the NIC ID of the ECS IP address. ● Virtual IP address: Specifies the NIC ID of the physical server where the virtual resource is located.
vip_port_id	String	Specifies the ID of the virtual NIC to which the virtual IP address is bound. This parameter is returned only when port_id is set to VIP.
service_name	String	Specifies the name of the VPC endpoint service. Minimum: **0** Maximum: **16**
server_type	String	Specifies the resource type. ● VM: indicates a cloud server. ● VIP: indicates a virtual IP address. ● LB: indicates a shared load balancer.
vpc_id	String	Specifies the ID of the VPC to which the backend resource of the VPC endpoint service belongs.

Parameter	Type	Description
approval_ena bled	Boolean	Specifies whether approval is required. ● false: No approval is required. The created VPC endpoint is in the accepted state by default. ● true: Approval is required. The created VPC endpoint is in the pendingAcceptance state, and can be used only after being approved by the user of the VPC endpoint service.
status	String	Specifies the status of the VPC endpoint service. ● creating: The VPC endpoint service is being created. ● available: The VPC endpoint service can be connected. ● failed: The VPC endpoint service fails to be created. ● deleting: The VPC endpoint service is being deleted.
service_type	String	Specifies the type of the VPC endpoint service. There are two types of VPC endpoint services: interface and gateway. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. Cloud services configured by O&M personnel do not need to be created. You can use it directly. You can create a VPC endpoint for accessing gateway and interface VPC endpoint services.
created_at	String	Specifies the creation time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
project_id	String	Project ID. For details about how to obtain the project ID, see Obtaining a Project ID.
domain_id	String	Domain ID
ports	Array of **PortList** objects	Specifies the port mappings opened by the VPC endpoint service. Duplicate port mappings are not allowed in the same VPC endpoint service. If multiple VPC endpoint services share one port ID,the combinations of server ports and protocols for all port mappings between VPC endpoint services must be unique.
tags	Array of **TagList** objects	Resource tag list

Parameter	Type	Description
connection_co unt	Integer	Specifies the number of VPC endpoints that are in the Creating or Accepted status.
tcp_proxy	String	Specifies whether the client information, such as IP address, port number, and marker_id, is transmitted to the server. The following methods are supported: ● TCP TOA: transmits the client information inserted in the tcp option field to the server. Note: TCP TOA is supported only when the backend resource type is Object Storage Service (OBS). ● Proxy Protocol: transmits the client information inserted in the tcp payload field to the server. tcp_proxy is available only when the server can parse fields tcp option and tcp payload. The values are as follows: ● close: indicates that the proxy protocol is disabled. ● toa_open: indicates that tcp_toa is enabled. ● proxy_open: indicates that proxy_protocol is enabled. ● open: indicates that both tcp_toa and proxy_protocol are enabled. The default value is close.
error	Array of **Error** objects	Specifies the error message returned when a task submission exception occurs.
description	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).
public_border _group	String	Specifies the information about Public Border Group of the pool corresponding to the VPC endpoint service.

Table 4-107 PortList

Parameter	Type	Description
client_port	Integer	Specifies the port to be accessed by a VPC endpoint. This port is provided by the VPC endpoint, allowing you to access the VPC endpoint service. Supported range: 1 to 65535. Minimum: **1** Maximum: **65535**

Parameter	Type	Description
server_port	Integer	Specifies the port for accessing the VPC endpoint service. This port is associated with backend resources to provide VPC endpoint services. Supported range: 1 to 65535 Minimum: **1** Maximum: **65535**
protocol	String	Port mapping protocol. TCP is supported. Default: **TCP**

Table 4-108 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Table 4-109 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 400

Table 4-110 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-111 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-112 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-113 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-114 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-115 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-116 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-117 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-118 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-119 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-120 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-121 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-122 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-123 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-124 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-125 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-126 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-127 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-128 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-129 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-130 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-131 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-132 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-133 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-134 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-135 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-136 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-137 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services?
endpoint_service_name={endpoint_service_name}&id={id}&sort_key={sort_key}&sort_dir={sort_dir}&limit={li
mit}&offset={offset}&status={status}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
 "endpoint_services" : [ {
   "id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
   "port_id" : "4189d3c2-8882-4871-a3c2-d380272eed88",
   "vpc_id" : "4189d3c2-8882-4871-a3c2-d380272eed80",
   "status" : "available",
   "approval_enabled" : false,
   "service_name" : "test123",
   "server_type" : "VM",
   "service_type" : "interface",
   "ports" : [ {
     "client_port" : "8080",
     "server_port" : "80",
     "protocol" : "TCP"
   }, {
     "client_port" : "8081",
     "server_port" : "80",
     "protocol" : "TCP"
```

```
    } ],
    "project_id" : "6e9dfd51d1124e8d8498dce894923a0d",
    "created_at" : "2022-04-14T09:35:47Z",
    "updated_at" : "2022-04-14T09:36:47Z",
    "public_border_group" : "br-iaas-odin1raa"
  } ],
  "total_count" : 100
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.3 Querying details of a VPC endpoint service

Function

Function This API is used to query details about a VPC endpoint service.

URI

GET /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}

Table 4-138 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-139 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Response Parameters

Status code: 200

Table 4-140 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint service.
port_id	String	Specifies the ID of the backend resource of the VPC endpoint service. The ID is in the universally unique identifier (UUID) format. The options are as follows: ● Load balancer: Specifies the port ID of the private IP address of the shared load balancer. ● Virtual machine: Specifies the NIC ID of the ECS IP address. ● Virtual IP address: Specifies the NIC ID of the physical server where the virtual resource is located.
vip_port_id	String	Specifies the ID of the virtual NIC to which the virtual IP address is bound. This parameter is returned only when port_id is set to VIP.
service_name	String	Specifies the name of the VPC endpoint service. Minimum: **0** Maximum: **16**
server_type	String	Specifies the resource type. ● VM: indicates a cloud server. ● VIP: indicates a virtual IP address. ● LB: indicates a shared load balancer.
vpc_id	String	Specifies the ID of the VPC to which the backend resource of the VPC endpoint service belongs.
approval_enabled	Boolean	Specifies whether approval is required. ● false: No approval is required. The created VPC endpoint is in the accepted state by default. ● true: Approval is required. The created VPC endpoint is in the pendingAcceptance state, and can be used only after being approved by the user of the VPC endpoint service.
status	String	Specifies the status of the VPC endpoint service. ● creating: The VPC endpoint service is being created. ● available: The VPC endpoint service can be connected. ● failed: The VPC endpoint service fails to be created. ● deleting: The VPC endpoint service is being deleted.

Parameter	Type	Description
service_type	String	Specifies the type of the VPC endpoint service. There are two types of VPC endpoint services: interface and gateway. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. You cannot configure these cloud services, but can use them. You can create a VPC endpoint for accessing gateway and interface VPC endpoint services.
created_at	String	Specifies the creation time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
project_id	String	Project ID. For details about how to obtain the project ID, see Obtaining a Project ID.
cidr_type	String	Specifies the CIDR block type. ● public: indicates a public CIDR block. ● internal: indicates a private CIDR block. The default value is internal.
ports	Array of **PortList** objects	Specifies the port mappings opened by the service. Duplicate port mappings are not allowed in the same VPC endpoint service. If multiple VPC endpoint services share one port ID, the combinations of server ports and protocols for all port mappings between VPC endpoint services must be unique.

Parameter	Type	Description
tcp_proxy	String	Specifies whether the client information, such as IP address, port number, and marker_id, is transmitted to the server. The following methods are supported: ● TCP TOA: transmits the client information inserted in the tcp option field to the server. Note: TCP TOA is supported only when the backend resource type is Object Storage Service (OBS). ● Proxy Protocol: transmits the client information inserted in the tcp payload field to the server. tcp_proxy is available only when the server can parse fields tcp option and tcp payload. The values are as follows: ● close: indicates that the proxy protocol is disabled. ● toa_open: indicates that tcp_toa is enabled. ● proxy_open: indicates that proxy_protocol is enabled. ● open: indicates that both tcp_toa and proxy_protocol are enabled. The default value is close.
tags	Array of **TagList** objects	Resource tag list
error	Array of **Error** objects	Specifies the error message returned when a task submission exception occurs.
description	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).

Table 4-141 PortList

Parameter	Type	Description
client_port	Integer	Specifies the port to be accessed by a VPC endpoint. This port is provided by the VPC endpoint, allowing you to access the VPC endpoint service. Supported range: 1 to 65535. Minimum: **1** Maximum: **65535**
server_port	Integer	Specifies the port for accessing the VPC endpoint service. This port is associated with backend resources to provide VPC endpoint services. Supported range: 1 to 65535 Minimum: **1** Maximum: **65535**

Parameter	Type	Description
protocol	String	Port mapping protocol. TCP is supported. Default: **TCP**

Table 4-142 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Table 4-143 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 400

Table 4-144 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-145 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-146 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-147 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-148 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-149 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-150 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-151 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-152 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-153 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-154 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-155 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-156 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-157 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-158 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-159 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-160 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-161 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-162 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-163 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-164 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-165 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-166 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-167 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-168 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-169 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-170 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-171 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}

This request is to query connections of the VPC endpoint service whose ID is 4189d3c2-8882-4871-a3c2-d380272eed88.GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2-d380272eed88

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
  "port_id" : "4189d3c2-8882-4871-a3c2-d380272eed88",
  "vpc_id" : "4189d3c2-8882-4871-a3c2-d380272eed80",
  "status" : "available",
  "approval_enabled" : false,
  "service_name" : "test123",
  "server_type" : "VM",
  "service_type" : "interface",
  "ports" : [ {
    "client_port" : "8080",
    "server_port" : "80",
    "protocol" : "TCP"
  }, {
    "client_port" : "8081",
    "server_port" : "80",
    "protocol" : "TCP"
  } ],
  "project_id" : "6e9dfd51d1124e8d8498dce894923a0d",
  "created_at" : "2022-04-14T09:35:47Z",
  "updated_at" : "2022-04-14T09:36:47Z"
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The server has not found anything matching the request URI.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.4 Modifying a VPC endpoint service

Function

Function This API is used to modify a VPC endpoint service.

URI

PUT /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}

Table 4-172 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service.

Request Parameters

Table 4-173 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Table 4-174 Request body parameters

Parameter	Mandatory	Type	Description
approval_enabled	No	Boolean	Specifies whether approval is required. ● false: No approval is required. The created VPC endpoint is in the accepted state by default. ● true: Approval is required. The created endpoint connection can be used only after being approved by the user of the VPC endpoint service. The default value is true. Default: **true**

Parameter	Mandatory	Type	Description
service_name	No	String	Specifies the name of the VPC endpoint service. The name can contain a maximum of 16 characters, including letters, digits, underscores (_), and hyphens (-). Minimum: **0** Maximum: **16**
ports	No	Array of **PortList** objects	Specifies the port mappings opened by the VPC endpoint service. Duplicate port mappings are not allowed in the same VPC endpoint service. If multiple VPC endpoint services share one port ID, the combinations of server ports and protocols for all port mappings between VPC endpoint services must be unique.A maximum of 200 port mappings can be added at a time.

Parameter	Mandatory	Type	Description
port_id	No	String	Specifies the ID of the backend resource of the VPC endpoint service. The ID is in the universally unique identifier (UUID) format. The options are as follows: ● Load balancer: Specifies the port ID of the private IP address of the shared load balancer. For details, see the vip_port_id field in the response parameters of section "Viewing Details of a Load Balancer" in the Elastic Load Balance API Reference. ● Virtual machine: Specifies the NIC ID of the ECS IP address. For details, see the port_id field in the response parameters of the section "Querying NICs of an ECS" in the Elastic Cloud Server API Reference. ● Virtual IP address: Specifies the NIC ID of the physical server where the virtual resource is located. Note: If the backend resource is a load balancer, configure this parameter to the vip_port_id value of another load balancer of the same type. For example, if the original load balancer is the shared one, the new load balancer cannot be the dedicated one.
vip_port_id	No	String	NIC ID of the virtual IP address. Minimum: **1** Maximum: **64**
description	No	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).

Table 4-175 PortList

Parameter	Mandatory	Type	Description
client_port	No	Integer	Specifies the port to be accessed by a VPC endpoint. This port is provided by the VPC endpoint, allowing you to access the VPC endpoint service. Supported range: 1 to 65535. Minimum: **1** Maximum: **65535**
server_port	No	Integer	Specifies the port for accessing the VPC endpoint service. This port is associated with backend resources to provide VPC endpoint services. Supported range: 1 to 65535 Minimum: **1** Maximum: **65535**
protocol	No	String	Port mapping protocol. TCP is supported. Default: **TCP**

Response Parameters

Status code: 200

Table 4-176 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint service.
port_id	String	Specifies the ID of the backend resource of the VPC endpoint service. The ID is in the universally unique identifier (UUID) format. The options are as follows: ● Load balancer: Specifies the port ID of the private IP address of the shared load balancer. ● Virtual machine: Specifies the NIC ID of the ECS IP address. ● Virtual IP address: Specifies the NIC ID of the physical server where the virtual resource is located.

Parameter	Type	Description
vip_port_id	String	Specifies the ID of the virtual NIC to which the virtual IP address is bound. This parameter is returned only when port_id is set to VIP.
service_name	String	Specifies the name of the VPC endpoint service. Minimum: **0** Maximum: **128**
server_type	String	Specifies the resource type. ● VM: indicates a cloud server. ● VIP: indicates a virtual IP address. ● LB: indicates a shared load balancer.
vpc_id	String	Specifies the ID of the VPC to which the backend resource of the VPC endpoint service belongs.
pool_id	String	Specifies the cluster ID of the VPC endpoint service.
approval_enabled	Boolean	Specifies whether approval is required. ● false: No approval is required. The created VPC endpoint is in the accepted state by default. ● true: Approval is required. The created VPC endpoint is in the pendingAcceptance state, and can be used only after being approved by the user of the VPC endpoint service.
status	String	Specifies the status of the VPC endpoint service. ● creating: The VPC endpoint service is being created. ● available: The VPC endpoint service can be connected. ● failed: The VPC endpoint service fails to be created.
service_type	String	Specifies the type of the VPC endpoint service. There are two types of VPC endpoint services: interface and gateway. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. Cloud services configured by O&M personnel do not need to be created. You can use it directly. You can create a VPC endpoint for accessing gateway and interface VPC endpoint services.
created_at	String	Specifies the creation time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.

Parameter	Type	Description
updated_at	String	Specifies the update time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
project_id	String	Project ID
cidr_type	String	Specifies the CIDR block type. ● public: indicates a public CIDR block. ● internal: indicates a private CIDR block. The default value is internal.
ports	Array of **PortList** objects	Specifies the port mappings opened by the VPC endpoint service. Duplicate port mappings are not allowed in the same VPC endpoint service. If multiple VPC endpoint services share one port ID,the combinations of server ports and protocols for all port mappings between VPC endpoint services must be unique.
tcp_proxy	String	Specifies whether the client information, such as IP address, port number, and marker_id, is transmitted to the server. The following methods are supported: ● TCP TOA: transmits the client information inserted in the tcp option field to the server. Note: TCP TOA is supported only when the backend resource type is Object Storage Service (OBS). ● Proxy Protocol: transmits the client information inserted in the tcp payload field to the server. tcp_proxy is available only when the server can parse fields tcp option and tcp payload. The values are as follows: ● close: indicates that the proxy protocol is disabled. ● toa_open: indicates that the proxy protocol tcp_toa is enabled. ● proxy_open: indicates that the proxy protocol proxy_protocol is enabled. ● open: indicates that both tcp_toa and proxy_protocol are enabled. The default value is close.
tags	Array of **TagList** objects	Resource tag list
description	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).

Table 4-177 PortList

Parameter	Type	Description
client_port	Integer	Specifies the port to be accessed by a VPC endpoint. This port is provided by the VPC endpoint, allowing you to access the VPC endpoint service. Supported range: 1 to 65535. Minimum: **1** Maximum: **65535**
server_port	Integer	Specifies the port for accessing the VPC endpoint service. This port is associated with backend resources to provide VPC endpoint services. Supported range: 1 to 65535 Minimum: **1** Maximum: **65535**
protocol	String	Port mapping protocol. TCP is supported. Default: **TCP**

Table 4-178 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Status code: 400

Table 4-179 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-180 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-181 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-182 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-183 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-184 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-185 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-186 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-187 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-188 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-189 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-190 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-191 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-192 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-193 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-194 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-195 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-196 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-197 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-198 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-199 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-200 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-201 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-202 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-203 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-204 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-205 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-206 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
PUT https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2- d380272eed88

{
  "approval_enabled" : true,
  "service_name" : "test",
  "ports" : [ {
    "client_port" : 8081,
    "server_port" : 22,
    "protocol" : "TCP"
  }, {
    "client_port" : 8082,
    "server_port" : 23,
    "protocol" : "TCP"
  } ]
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
  "port_id" : "4189d3c2-8882-4871-a3c2-d380272eed88",
  "vpc_id" : "4189d3c2-8882-4871-a3c2-d380272eed80",
  "pool_id" : "5289d3c2-8882-4871-a3c2-d380272eed80",
  "status" : "available",
```

```
"approval_enabled" : false,
"service_name" : "test123",
"service_type" : "interface",
"server_type" : "VM",
"project_id" : "6e9dfd51d1124e8d8498dce894923a0d",
"created_at" : "2022-04-14T09:35:47Z",
"ports" : [ {
  "client_port" : 8080,
  "server_port" : 90,
  "protocol" : "TCP"
}, {
  "client_port" : 8081,
  "server_port" : 80,
  "protocol" : "TCP"
} ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.5 Deleting a VPC Endpoint Service

Function

Function This API is used to delete a VPC endpoint service.

URI

DELETE /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}

Table 4-207 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service.

Request Parameters

Table 4-208 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Response Parameters

Status code: 400

Table 4-209 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-210 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-211 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-212 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-213 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-214 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-215 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-216 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-217 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-218 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-219 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-220 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-221 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-222 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-223 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-224 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-225 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-226 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-227 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-228 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-229 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-230 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-231 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-232 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-233 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-234 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-235 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-236 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

DELETE https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2-d380272eed88

Example Responses

None

Status Codes

Status Code	Description
204	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.

Status Code	Description
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.6 Querying connections of a VPC endpoint service

Function

Function This API is used to query connections of a VPC endpoint service. The marker_id is the unique ID of each connection.

URI

GET /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/connections

Table 4-237 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1**

Parameter	Mandatory	Type	Description
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service.

Table 4-238 Query Parameters

Parameter	Mandatory	Type	Description
id	No	String	Specifies the unique ID of the VPC endpoint.
marker_id	No	String	Specifies the packet ID of the VPC endpoint.
status	No	String	Specifies the connection status of the VPC endpoint. ● pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ● accepted: The VPC endpoint connection has been accepted. ● failed: The VPC endpoint connection failed.
sort_key	No	String	Specifies the sorting field of the VPC endpoints, which can be: ●create_at: VPC endpoints are sorted by creation time. ●update_at: VPC endpoints are sorted by update time. The default field is create_at. Default: **create_at**
sort_dir	No	String	Specifies the sorting method of VPC endpoints, which can be: ● desc: VPC endpoints are sorted in descending order. ● asc: VPC endpoints are sorted in ascending order. The default method is desc. Default: **desc**

Parameter	Mandatory	Type	Description
limit	No	Integer	Specifies the maximum number of connections displayed on each page. The value ranges from 0 to 1000 and is generally 10, 20, or 50. The default number is 10. Minimum: **1** Maximum: **1000** Default: **10**
offset	No	Integer	Specifies the offset. All VPC endpoint services after this offset will be queried. The offset must be an integer greater than 0 but less than the number of VPC endpoint services. Minimum: **0**

Request Parameters

Table 4-239 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Response Parameters

Status code: 200

Table 4-240 Response body parameters

Parameter	Type	Description
connections	Array of **ConnectionEndpoints** objects	Lists the connections.
total_count	Integer	Specifies the total number of endpoints that meet the search criteria. The number is not affected by the limit and offset parameters.

Table 4-241 ConnectionEndpoints

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
domain_id	String	Domain ID of a user.
error	Array of **QueryError** objects	Specifies the error message. This field is returned when the VPC endpoint is abnormal, that is, the value of status is failed.
status	String	Specifies the connection status of the VPC endpoint. ● pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ● accepted: The VPC endpoint connection has been accepted. ● rejected: The VPC endpoint connection has been rejected. ● failed: The VPC endpoint connection failed. ● deleting: The VPC endpoint connection is being deleted.
description	String	Specifies the description of a VPC endpoint connection.

Table 4-242 QueryError

Parameter	Type	Description
error_code	String	Error code.
error_messag e	String	Error message.

Status code: 400

Table 4-243 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-244 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-245 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-246 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-247 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-248 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-249 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-250 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-251 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-252 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-253 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-254 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-255 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-256 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-257 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-258 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-259 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-260 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-261 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-262 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-263 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-264 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-265 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-266 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-267 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-268 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-269 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-270 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/connections?
id={vpc_endpoint_id}&marker_id={marker_id}&status={status}&sort_key={sort_key }&sort_dir={sort_dir}&limi
t={limit}&offset={offset}

This request is to query connections of the VPC endpoint service whose ID is 4189d3c2-8882-4871-a3c2-
d380272eed88. GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2-
d380272eed88/connections

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
 "connections" : [ {
   "id" : "adb7b229-bb11-4072-bcc0-3327cd784263",
```

```
  "status" : "accepted",
  "marker_id" : 16777510,
  "domain_id" : "5fc973eea581490997e82ea11a1df31f",
  "created_at" : "2018-09-17T11:10:11Z",
  "updated_at" : "2018-09-17T11:10:12Z"
}, {
  "id" : "fd69d29f-dc29-4a9b-80d8-b51d1e7e58ea",
  "status" : "accepted",
  "marker_id" : 16777513,
  "domain_id" : "5fc973eea581490997e82ea11a1df31f",
  "created_at" : "2018-09-17T07:28:56Z",
  "updated_at" : "2018-09-17T07:28:58Z"
} ],
  "total_count" : 2
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.7 Accepting or Rejecting a VPC Endpoint

Function

Function This API is used to accept or reject a VPC endpoint for a VPC endpoint service.

URI

POST /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/connections/action

Table 4-271 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_ service_id	Yes	String	Specifies the ID of the VPC endpoint service. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-272 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Table 4-273 Request body parameters

Parameter	Mandatory	Type	Description
action	Yes	String	Specifies whether to accept or reject a VPC endpoint for a VPC endpoint service. ● receive: The connection is allowed. ● reject: The connection is rejected. Minimum: **1** Maximum: **32**
endpoints	Yes	Array of strings	Specifies VPC endpoint IDs. Each request accepts or rejects only one VPC endpoint.

Response Parameters

Status code: 200

Table 4-274 Response body parameters

Parameter	Type	Description
connections	Array of **ConnectionEndpoints** objects	Connection List

Table 4-275 ConnectionEndpoints

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
domain_id	String	Domain ID of a user.
error	Array of **QueryError** objects	Specifies the error message. This field is returned when the VPC endpoint is abnormal, that is, the value of status is failed.
status	String	Specifies the connection status of the VPC endpoint. ● pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ● accepted: The VPC endpoint connection has been accepted. ● rejected: The VPC endpoint connection has been rejected. ● failed: The VPC endpoint connection failed. ● deleting: The VPC endpoint connection is being deleted.
description	String	Specifies the description of a VPC endpoint connection.

Table 4-276 QueryError

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

Status code: 400

Table 4-277 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-278 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-279 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-280 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-281 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-282 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-283 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-284 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-285 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-286 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-287 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-288 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-289 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-290 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-291 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-292 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-293 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-294 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-295 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-296 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-297 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-298 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-299 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-300 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-301 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-302 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-303 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-304 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
POST https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2- d380272eed88/
connections/action

{
  "endpoints" : [ "705290f3-0d00-41f2-aedc-71f09844e879" ],
  "action" : "receive"
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "connections" : [ {
    "id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
    "status" : "accepted",
    "marker_id" : 4223213213123213321,
    "domain_id" : "6e9dfd51d1124e8d8498dce894923a0d",
    "created_at" : "2022-04-14T09:35:47Z",
    "updated_at" : "2022-04-14T09:36:47Z"
  } ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.8 Querying whitelist records of a VPC endpoint service

Function

Function This API is used to query the whitelist records of a VPC endpoint service. Note: Your account is in the whitelist of your own VPC endpoint service by default.

URI

GET /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/permissions

Table 4-305 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service. Minimum: **1** Maximum: **64**

Table 4-306 Query Parameters

Parameter	Mandatory	Type	Description
permission	No	String	Specifies the permission account ID in iam:domain::domain_id format. domain_id indicates the account ID of the authorized user, for example, iam:domain::6e9dfd51d1124e8d8498dce894923a0d. Fuzzy search is supported. Minimum: **1** Maximum: **1000**
limit	No	Integer	Specifies the number of returned whitelist records of the VPC endpoint service on each page. The value ranges from 0 to 500 and is generally 10, 20, or 50. The default number is 10. Minimum: **1** Maximum: **500** Default: **10**

Parameter	Mandatory	Type	Description
offset	No	Integer	Specifies the offset. All VPC endpoint services after this offset will be queried. The offset must be an integer greater than 0 but less than the number of VPC endpoint services. Minimum: **0**
sort_key	No	String	Specifies the sorting field of whitelist records. The value is create_at, indicating the time when the whitelist record is added. Default: **create_at**
sort_dir	No	String	Specifies the sorting method of whitelist records, which can be: ● desc: The whitelist records are sorted in descending order. ● asc: The whitelist records are sorted in ascending order. The default method is desc. Default: **desc**

Request Parameters

Table 4-307 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Response Parameters

Status code: 200

Table 4-308 Response body parameters

Parameter	Type	Description
permissions	Array of **PermissionObject** objects	Lists the whitelist records.
total_count	Integer	Specifies the total number of whitelist records that meet the search criteria. The number is not affected by the limit and offset parameters.

Table 4-309 PermissionObject

Parameter	Type	Description
id	String	Specifies the unique ID of the permission.
permission	String	Specifies permissions. The permissions format is iam:domain:: 6e9dfd51d1124e8d8498dce894923a0d or *. ● indicates that all users' VPC endpoint can be connected. iam:domain:: 6e9dfd51d1124e8d8498dce894923a0d is the domain ID of the user that can connect VPC endpoint services.
created_at	String	Specifies the time of adding the whitelist record. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.

Status code: 400

Table 4-310 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-311 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-312 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-313 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-314 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-315 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-316 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-317 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-318 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-319 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-320 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-321 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-322 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-323 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-324 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-325 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-326 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-327 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-328 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-329 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-330 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-331 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-332 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-333 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-334 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-335 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-336 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-337 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2-d380272eed88/
permissions?permission={permission}&sort_dir={sort_dir}&limit={limit}&offset={offset}

This request is to query whitelist records of the VPC endpoint service whose ID is 4189d3c2-8882-4871-a3c2-d380272eed88. GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2-d380272eed88/permissions

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "permissions" : [ {
    "id" : "f2659906-c622-480a-83e9-ef42bdb67b90",
    "permission" : "*",
    "created_at" : "2018-10-18T13:26:40Z"
  } ],
  "total_count" : 1
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.9 Batch Adding or Deleting Whitelist Records of a VPC Endpoint Service

Function

Function This API is used to batch add or delete whitelist records of a VPC endpoint service. Note: Your account is in the whitelist of your own VPC endpoint service by default.

URI

POST /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/
permissions/action

Table 4-338 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-339 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **65**

Table 4-340 Request body parameters

Parameter	Mandatory	Type	Description
permissions	Yes	Array of strings	Specifies permissions. The permission format is iam:domain::domain_id. ● iam:domain:: is a fixed format. ● domain_id is the account ID of the user that can be connected. The value contains 1 to 64 characters, including letters and digits. The value also can be an asterisks (*). ● indicates that all tenants can create VPC endpoints to connect the VPC endpoint service. Example: iam:domain:: 6e9dfd51d1124e8d8498dce 894923a0dd
action	Yes	String	Specifies the action to be performed, which can be add or remove. Minimum: **1** Maximum: **32**

Response Parameters

Status code: 200

Table 4-341 Response body parameters

Parameter	Type	Description
permissions	Array of strings	Specifies permissions. The permissions format is iam:domain:: 6e9dfd51d1124e8d8498dce894923a0d or *. ● indicates that all users' VPC endpoint can be connected. iam:domain:: 6e9dfd51d1124e8d8498dce894923a0d is the domain ID of the user that can connect VPC endpoint services.

Status code: 400

Table 4-342 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-343 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-344 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-345 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-346 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-347 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-348 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-349 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-350 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-351 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-352 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-353 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-354 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-355 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-356 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-357 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-358 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-359 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-360 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-361 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-362 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-363 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-364 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-365 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-366 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-367 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-368 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-369 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

- Adding a Whitelist for a VPC Endpoint Service

  POST https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2-d380272eed88/permissions/action

  ```
  {
    "permissions" : [ "iam:domain::fc973eea581490997e82ea11a1d0101" ],
    "action" : "add"
  }
  ```

- Removing a VPC Endpoint Service from the Whitelist

  POST https://{endpoint}/v1/{project_id}/vpc-endpoint-services/4189d3c2-8882-4871-a3c2-d380272eed88/permissions/action

  ```
  {
    "permissions" : [ "iam:domain::fc973eea581490997e82ea11a1d0101" ],
    "action" : "remove"
  }
  ```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "permissions" : [ "iam:domain::5fc973eea581490997e82ea11a1d0101", "iam:domain::
5fc973eea581490997e82ea11a1d0102" ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.2.10 Changing the Name of the VPC Endpoint Service

Function

Function This API is used to change the name of a VPC endpoint service.

URI

PUT /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/name

Table 4-370 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the tenant ID.
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service.

Request Parameters

Table 4-371 Request body parameters

Parameter	Mandatory	Type	Description
endpoint_service_name	No	String	Specifies the name of the VPC endpoint service. Minimum: **0** Maximum: **16**

Response Parameters

Status code: 200

Table 4-372 Response body parameters

Parameter	Type	Description
endpoint_service_name	String	Specifies the name of the VPC endpoint service. Minimum: **0** Maximum: **16**

Status code: 400

Table 4-373 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-374 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-375 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-376 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-377 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-378 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-379 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-380 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-381 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-382 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-383 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-384 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-385 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-386 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-387 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-388 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-389 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-390 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-391 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-392 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-393 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-394 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-395 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-396 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-397 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-398 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-399 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-400 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
https://{endpoint}/v1/{project_id}/vpc-endpoint-services/070c4a63-8a62-448e-89ed-f2cbde8e6a3b/name

{
  "endpoint_service_name" : "test222_name_23432"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The server failed to process the request.
401	Username and password are required to access the requested page.
403	The access to the requested page is forbidden.
404	The server could not find the requested page.
405	The method specified in the request is not allowed.
406	The response generated by the server could not be accepted by the client.
407	Proxy authentication is required before the request is processed.
408	The request timed out.
409	The request could not be processed due to a conflict.
500	Request failed. A service error occurred.

Status Code	Description
501	Request failed. The server does not support the requested function.
502	Request failed. The server has received an invalid response from the upstream server.
503	Request failed. The system is unavailable.
504	Gateway timed out.

Error Codes

See **Error Codes**.

4.2.11 This API is used to update the description of the VPC endpoint connection.

Function

Function This API is used to update the description of a VPC endpoint.

URI

PUT /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/connections/description

Table 4-401 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the tenant ID. Minimum: **36** Maximum: **64**
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service. Minimum: **36** Maximum: **64**

Request Parameters

Table 4-402 Request body parameters

Parameter	Mandatory	Type	Description
connections	Yes	Array of **Connections Desc** objects	Specifies description fields of connection management.

Table 4-403 ConnectionsDesc

Parameter	Mandatory	Type	Description
id	Yes	String	Specifies the VPC endpoint ID in UUID format.
description	Yes	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).

Response Parameters

Status code: 200

Table 4-404 Response body parameters

Parameter	Type	Description
connections	Array of **ConnectionE ndpoints** objects	Connection List

Table 4-405 ConnectionEndpoints

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.

Parameter	Type	Description
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
domain_id	String	Domain ID of a user.
error	Array of **QueryError** objects	Specifies the error message. This field is returned when the VPC endpoint is abnormal, that is, the value of status is failed.
status	String	Specifies the connection status of the VPC endpoint. ● pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ● accepted: The VPC endpoint connection has been accepted. ● rejected: The VPC endpoint connection has been rejected. ● failed: The VPC endpoint connection failed. ● deleting: The VPC endpoint connection is being deleted.
description	String	Specifies the description of a VPC endpoint connection.

Table 4-406 QueryError

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

Status code: 400

Table 4-407 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-408 Error

Parameter	Type	Description
message	String	Task error description

Parameter	Type	Description
code	String	Error code of a task exception.

Status code: 401

Table 4-409 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-410 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-411 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-412 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-413 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-414 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-415 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-416 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-417 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-418 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-419 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-420 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-421 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-422 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-423 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-424 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-425 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-426 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-427 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-428 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-429 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-430 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-431 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-432 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-433 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-434 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

- https://{endpoint}/v1/{project_id}/vpc-endpoint-services/813d9300-8473-405b-bfcd-f711117bad65/connections/description

  ```
  {
    "connections" : [ {
      "id" : "0df78897-35b0-4a93-ad17-0bc0585f546b",
      "description" : "Specifies the VPC endpoint 2, which belongs to account
  [0605767a3300d5762fb7c0186d9e1779]iaas_commonnet_odin_26."
    }, {
      "id" : "0d837f75-90d5-4528-bd11-5d974238ebca",
      "description" : "Specifies the VPC endpoint 2, which belongs to account
  [7876999999999]iaas_commonnet_odin_26."
    } ]
  }
  ```

- ```
  {
    "endpoint_service_name" : "test222_name_23432"
  }
  ```

Example Responses

Status code: 200

```
{
  "connections" : [ {
    "id" : "0d837f75-90d5-4528-bd11-5d974238ebca",
    "status" : "accepted",
    "description" : "Specifies the VPC endpoint 2, which belongs to account
[0605767a3300d5762fb7c0186d9e1779]iaas_commonnet_odin_26.",
    "marker_id" : 302008767,
    "domain_id" : "05b5408a0a80d2b10f06c0184a774460",
    "created_at" : "2022-04-14T02:09:08Z",
    "updated_at" : "2022-04-14T07:55:40Z"
  }, {
    "id" : "0df78897-35b0-4a93-ad17-0bc0585f546b",
    "status" : "accepted",
    "description" : "Specifies the VPC endpoint 2, which belongs to account
[0605767a3300d5762fb7c0186d9e1779]iaas_commonnet_odin_26.",
    "marker_id" : 302001833,
    "domain_id" : "05b5408a0a80d2b10f06c0184a774460",
    "created_at" : "2022-04-14T01:59:31Z",
    "updated_at" : "2022-04-14T07:57:39Z"
  } ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The server failed to process the request.
401	Username and password are required to access the requested page.
403	The access to the requested page is forbidden.
404	The server could not find the requested page.
405	The method specified in the request is not allowed.
406	The response generated by the server could not be accepted by the client.
407	Proxy authentication is required before the request is processed.
408	The request timed out.
409	The request could not be processed due to a conflict.
500	Request failed. A service error occurred.
501	Request failed. The server does not support the requested function.
502	Request failed. The server has received an invalid response from the upstream server.
503	Request failed. The system is unavailable.
504	Gateway timed out.

Error Codes

See **Error Codes**.

4.2.12 Batch Adding or Deleting Whitelist Records of a VPC Endpoint Service

Function

Function This API is used to batch add whitelists of VPC endpoint services. The description can be added. Note: Your account is in the whitelist of your own VPC endpoint service by default.

URI

POST /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/permissions/batch-create

Table 4-435 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-436 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **65**

Table 4-437 Request body parameters

Parameter	Mandatory	Type	Description
permissions	Yes	Array of **EpsAddPermissionRequest** objects	Specifies whitelist records of a VPC endpoint service.

Table 4-438 EpsAddPermissionRequest

Parameter	Mandatory	Type	Description
permission	Yes	String	The permission format is iam:domain::domain_id. ● iam:domain:: is a fixed format. ● domain_id is the account ID of the user that can be connected. The value contains 1 to 64 characters, including letters and digits. The value also can be an asterisk (*). ● indicates that all tenants can create VPC endpoints to connect the VPC endpoint service. Example: iam:domain:: 6e9dfd51d1124e8d8498dce894923a0dd Minimum: **1** Maximum: **64**
description	Yes	String	Specifies the description of a whitelist record of a VPC endpoint service.

Response Parameters

Status code: 200

Table 4-439 Response body parameters

Parameter	Type	Description
permissions	Array of **EpsPermission** objects	Specifies the response body of a whitelist record of a VPC endpoint service.

Table 4-440 EpsPermission

Parameter	Type	Description
id	String	Specifies primary key IDs of whitelist records of a VPC endpoint service.

Parameter	Type	Description
permission	String	The permission format is iam:domain::domain_id. ● iam:domain:: is a fixed format. ● domain_id is the account ID of the user that can be connected. The value contains 1 to 64 characters, including letters and digits. The value also can be an asterisk (*). ● indicates that all tenants can create VPC endpoints to connect the VPC endpoint service. Example: iam:domain:: 6e9dfd51d1124e8d8498dce894923a0dd Minimum: **1** Maximum: **64**
description	String	Specifies the description of a whitelist record of a VPC endpoint service.
created_at	String	Specifies the time when a whitelist record is created.

Status code: 400

Table 4-441 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-442 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-443 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-444 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-445 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-446 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-447 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-448 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-449 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-450 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-451 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-452 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-453 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-454 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-455 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-456 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-457 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-458 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-459 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-460 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-461 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-462 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-463 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-464 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-465 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-466 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-467 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-468 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

Adding whitelist records of a VPC endpoint service

```
POST https://{endpoint}/v1/{project_id}/vpc-endpoint-services/c07132bf-4071-439a-9ff3-2068eb45092f/
permissions/batch-create
```

```
{
  "permissions" : [ {
    "permission" : "*",
    "description" : "Specifies APIs for batch adding whitelist records of a VPC endpoint service."
  }, {
    "permission" : "iam:domain::4dbb0ce8766f44a9bfd08ccf8fc02397",
    "description" : "test"
  } ]
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "permissions" : [ {
    "id" : "ab42a58b-6f8e-43b3-9400-aaf0e393ee0d",
    "permission" : "iam:domain::4dbb0ce8766f44a9bfd08ccf8fc02397",
    "description" : "test",
    "created_at" : "2022-06-16T10:03:27Z"
  }, {
    "id" : "dfaaeff1-858d-4631-83c4-be3548a07935",
    "permission" : "*",
    "description" : "",
    "created_at" : "2022-06-16T10:03:27Z"
  } ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The server failed to process the request.
401	Username and password are required to access the requested page.
403	The access to the requested page is forbidden.
404	The server could not find the requested page.
405	The method specified in the request is not allowed.
406	The response generated by the server could not be accepted by the client.
407	Proxy authentication is required before the request is processed.
408	The request timed out.
409	The request could not be processed due to a conflict.
500	Request failed. A service error occurred.
501	Request failed. The server does not support the requested function.

Status Code	Description
502	Request failed. The server has received an invalid response from the upstream server.
503	Request failed. The system is unavailable.
504	Gateway timed out.

Error Codes

See **Error Codes**.

4.2.13 Batch Adding or Deleting Whitelist Records of a VPC Endpoint Service

Function

Function This API is used to batch delete whitelist records of a VPC endpoint service.

URI

POST /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/permissions/batch-delete

Table 4-469 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_ service_id	Yes	String	Specifies the ID of the VPC endpoint service. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-470 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **65**

Table 4-471 Request body parameters

Parameter	Mandatory	Type	Description
permissions	Yes	Array of **EpsRemovePermissionRequest** objects	Specifies the request body for deleting a whitelist record of a VPC endpoint service.

Table 4-472 EpsRemovePermissionRequest

Parameter	Mandatory	Type	Description
id	Yes	String	Specifies primary key IDs of whitelist records of a VPC endpoint service. Minimum: **1** Maximum: **64**

Response Parameters

Status code: 200

Table 4-473 Response body parameters

Parameter	Type	Description
permissions	Array of **EpsPermission** objects	Specifies the response body of a whitelist record of a VPC endpoint service.

Table 4-474 EpsPermission

Parameter	Type	Description
id	String	Specifies primary key IDs of whitelist records of a VPC endpoint service.
permission	String	The permission format is iam:domain::domain_id. ● iam:domain:: is a fixed format. ● domain_id is the account ID of the user that can be connected. The value contains 1 to 64 characters, including letters and digits. The value also can be an asterisk (*). ● indicates that all tenants can create VPC endpoints to connect the VPC endpoint service. Example: iam:domain:: 6e9dfd51d1124e8d8498dce894923a0dd Minimum: **1** Maximum: **64**
description	String	Specifies the description of a whitelist record of a VPC endpoint service.
created_at	String	Specifies the time when a whitelist record is created.

Status code: 400

Table 4-475 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-476 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-477 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-478 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-479 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-480 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-481 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-482 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-483 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-484 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-485 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-486 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-487 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-488 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-489 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-490 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-491 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-492 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-493 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-494 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-495 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-496 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-497 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-498 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-499 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-500 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-501 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-502 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

Batch deleting whitelist records of a VPC endpoint service

```
POST https://{endpoint}/v1/{project_id}/vpc-endpoint-services/c07132bf-4071-439a-9ff3-2068eb45092f/
permissions/batch-delete

{
  "permissions" : [ {
    "id" : "b9b6f264-3562-4f62-ba84-c128da20d18d"
  }, {
    "id" : "c07132bf-4071-439a-9ff3-2068eb45092f"
  } ]
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "permissions" : [ ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The server failed to process the request.
401	Username and password are required to access the requested page.
403	The access to the requested page is forbidden.
404	The server could not find the requested page.
405	The method specified in the request is not allowed.

Status Code	Description
406	The response generated by the server could not be accepted by the client.
407	Proxy authentication is required before the request is processed.
408	The request timed out.
409	The request could not be processed due to a conflict.
500	Request failed. A service error occurred.
501	Request failed. The server does not support the requested function.
502	Request failed. The server has received an invalid response from the upstream server.
503	Request failed. The system is unavailable.
504	Gateway timed out.

Error Codes

See **Error Codes**.

4.2.14 Updating the Description of a Whitelist Record of a VPC Endpoint Service

Function

Function This API is used to update the description of a whitelist record of a VPC endpoint service.

URI

PUT /v1/{project_id}/vpc-endpoint-services/{vpc_endpoint_service_id}/permissions/{permission_id}

Table 4-503 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID. Minimum: **1** Maximum: **64**

Parameter	Mandatory	Type	Description
vpc_endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service. Minimum: **1** Maximum: **64**
permission_id	Yes	String	Specifies IDs of whitelist records of a VPC endpoint service. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-504 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **65**

Table 4-505 Request body parameters

Parameter	Mandatory	Type	Description
permission	Yes	**EpsUpdatePermissionDesc** object	Specifies the request body for updating the description of a whitelist record of a VPC endpoint service.

Table 4-506 EpsUpdatePermissionDesc

Parameter	Mandatory	Type	Description
description	Yes	String	Specifies the description of a whitelist record of a VPC endpoint service.

Response Parameters

Status code: 200

Table 4-507 Response body parameters

Parameter	Type	Description
permissions	Array of **EpsPermission** objects	Specifies the response body of a whitelist record of a VPC endpoint service.

Table 4-508 EpsPermission

Parameter	Type	Description
id	String	Specifies primary key IDs of whitelist records of a VPC endpoint service.
permission	String	The permission format is iam:domain::domain_id. ● iam:domain:: is a fixed format. ● domain_id is the account ID of the user that can be connected. The value contains 1 to 64 characters, including letters and digits. The value also can be an asterisk (*). ● indicates that all tenants can create VPC endpoints to connect the VPC endpoint service. Example: iam:domain:: 6e9dfd51d1124e8d8498dce894923a0dd Minimum: **1** Maximum: **64**
description	String	Specifies the description of a whitelist record of a VPC endpoint service.
created_at	String	Specifies the time when a whitelist record is created.

Status code: 400

Table 4-509 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-510 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-511 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-512 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-513 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-514 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-515 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-516 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-517 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-518 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-519 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-520 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-521 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-522 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-523 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-524 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-525 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-526 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-527 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-528 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-529 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-530 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-531 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-532 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-533 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-534 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-535 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-536 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

Updating the description of a whitelist record of a VPC endpoint service

```
PUT https://{endpoint}/v1/{project_id}/vpc-endpoint-services/c07132bf-4071-439a-9ff3-2068eb45092f/
permissions/849046d9-7342-44ba-b2d2-367d8de6311b

{
  "permission" : {
    "description" : "Specifies the whitelist record to the VPC endpoint service added."
  }
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "permissions" : [ {
    "id" : "849046d9-7342-44ba-b2d2-367d8de6311b",
    "permission" : "*",
    "description" : "Specifies the whitelist record to the VPC endpoint service added.",
    "created_at" : "2022-06-16T09:48:21Z"
  } ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The server failed to process the request.
401	Username and password are required to access the requested page.
403	The access to the requested page is forbidden.
404	The server could not find the requested page.
405	The method specified in the request is not allowed.
406	The response generated by the server could not be accepted by the client.
407	Proxy authentication is required before the request is processed.
408	The request timed out.
409	The request could not be processed due to a conflict.
500	Request failed. A service error occurred.
501	Request failed. The server does not support the requested function.
502	Request failed. The server has received an invalid response from the upstream server.
503	Request failed. The system is unavailable.
504	Gateway timed out.

Error Codes

See **Error Codes**.

4.3 VPC Endpoints

4.3.1 Querying public VPC endpoint services

Function

Function This API is used to query public VPC endpoint services. These services are created by O&M personnel and can be visible to and assessed by all users.

URI

GET /v1/{project_id}/vpc-endpoint-services/public

Table 4-537 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**

Table 4-538 Query Parameters

Parameter	Mandatory	Type	Description
limit	No	Integer	Specifies the maximum number of public VPC endpoint services displayed on each page. The value ranges from 0 to 1000 and is generally 10, 20, or 50. The default number is 10. Minimum: **1** Maximum: **1000** Default: **10**
offset	No	Integer	Specifies the offset. All VPC endpoint services after this offset will be queried. The offset must be an integer greater than 0 but less than the number of VPC endpoint services. Minimum: **0**
endpoint_serv ice_name	No	String	Specifies the name of the public VPC endpoint service. The value is case-sensitive and supports fuzzy match. Minimum: **1** Maximum: **128**
id	No	String	Unique ID of the public VPC endpoint service. Minimum: **1** Maximum: **64**

Parameter	Mandatory	Type	Description
sort_key	No	String	Specifies the sorting field of the VPC endpoint services, which can be: ● create_at: VPC endpoint services are sorted by creation time. ● update_at: VPC endpoint services are sorted by update time. The default field is create_at. Default: **create_at**
sort_dir	No	String	Specifies the sorting method of VPC endpoint services, which can be: ● desc: VPC endpoint services are sorted in descending order. ● asc: VPC endpoint services are sorted in ascending order. The default method is desc. Default: **desc**

Request Parameters

Table 4-539 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Response Parameters

Status code: 200

Table 4-540 Response body parameters

Parameter	Type	Description
endpoint_services	Array of **EndpointService** objects	Lists the VPC endpoint services.
total_count	Integer	Specifies the total number of public VPC endpoint services that meet the search criteria. The number is not affected by the limit and offset parameters.

Table 4-541 EndpointService

Parameter	Type	Description
id	String	Unique ID of the public VPC endpoint service.
owner	String	Specifies the owner of the VPC endpoint service.
service_name	String	Specifies the name of the public VPC endpoint service.
service_type	String	Specifies the type of the VPC endpoint service. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. You cannot configure these cloud services, but can use them. You can create a VPC endpoint for accessing gateway and interface VPC endpoint services.
created_at	String	Specifies the creation time of the VPC endpoint service. The applied UTC time format is YYYYMM-DDTHH:MM:SSZ.
is_charge	Boolean	Specifies whether the associated VPC endpoint carries a charge. ● true: The associated VPC endpoint needs to be charged. ● false: The associated VPC endpoint does not need to be charged.

Status code: 400

Table 4-542 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-543 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-544 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-545 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-546 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-547 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-548 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-549 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-550 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-551 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-552 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-553 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-554 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-555 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-556 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-557 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-558 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-559 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-560 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-561 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-562 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-563 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-564 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-565 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-566 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-567 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-568 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-569 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services/public?
limit={limit}&offset={offset}&endpoint_service_name={endpoint_service_name}&id={endpoint_service_id}&so
rt_key={sort_key}&sort_dir={sort_dir}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "endpoint_services": [
    {
      "id": "b0e22f6f-26f4-461c-b140-d873464d4fa0",
      "owner": "example"
      "service_name": "test123",
      "service_type": "interface",
      "created_at": "2018-09-10T13:13:23Z",
      "is_charge": "true"
    },
    {
      "id": "26391a76-546b-42a9-b2fc-496ec68c0e4d",
      "owner": "example"
      "service_name":  "OBS",
      "service_type": "gateway",
      "created_at": "2019-03-28T09:30:27Z",
      "is_charge": "true"
    }
```

```
        ],
        "total_count": 2
    }
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The server has not found anything matching the request URI.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.3.2 Querying basic information of a VPC endpoint service

Function

FunctionThis API is used to query basic information about a VPC endpoint service. You can use this API to query the VPC endpoint services to be accessed. This API

can also be used by other users to query basic information of your VPC endpoint service, without exposing your server information.

URI

GET /v1/{project_id}/vpc-endpoint-services/describe

Table 4-570 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**

Table 4-571 Query Parameters

Parameter	Mandatory	Type	Description
endpoint_serv ice_name	No	String	Specifies the name of the VPC endpoint service. Note: Either this field or the id field must be specified. Otherwise, an error occurs. Minimum: **1** Maximum: **128**
id	No	String	Specifies the ID of the VPC endpoint service. The ID is the unique identifier of the VPC endpoint service. Note: Either this parameter or endpoint_service_name must be specified. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-572 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Response Parameters

Status code: 200

Table 4-573 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint service.
service_name	String	Specifies the name of the VPC endpoint service.

Parameter	Type	Description
service_type	String	Specifies the type of the VPC endpoint service. Only your private services can be configured into interface VPC endpoint services. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. You cannot configure these cloud services, but can use them. You can create a VPC endpoint for accessing gateway and interface VPC endpoint services.
created_at	String	Specifies the creation time of the VPC endpoint service. The applied UTC time format is YYYY-MMDDTHH:MM:SSZ.
is_charge	Boolean	Specifies whether the associated VPC endpoint carries a charge. ● true: The associated VPC endpoint needs to be charged. ● false: The associated VPC endpoint does not need to be charged.

Status code: 400

Table 4-574 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-575 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-576 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-577 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-578 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-579 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-580 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-581 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-582 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-583 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-584 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-585 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-586 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-587 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-588 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-589 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-590 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-591 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-592 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-593 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-594 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-595 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-596 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-597 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-598 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-599 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-600 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-601 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
GET https://{endpoint}/v1/{project_id}/vpc-endpoint-services/describe?id={4189d3c2-8882-4871-a3c2-
d380272eed83}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "id" : "9d4c1028-1336-4556-9881-b5d807c1b8a8",
  "service_name" : "test123",
  "service_type" : "interface",
  "created_at" : "2018-09-17T07:28:31Z",
  "is_charge" : "true"
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.

Status Code	Description
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.3.3 Creating a VPC endpoint

Function

Function This API is used to create a VPC endpoint for accessing a VPC endpoint service.

URI

POST /v1/{project_id}/vpc-endpoints

Table 4-602 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-603 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Table 4-604 Request body parameters

Parameter	Mandatory	Type	Description
subnet_id	No	String	Note: This parameter is mandatory to create an interface VPC endpoint. The ID must be the ID of the subnet created in the VPC specified by vpc_id and in the format of UUID. For details, see the id field in the response information of the section "Querying Subnet Details" in the Virtual Private Cloud API Reference. This parameter is mandatory when you create a VPC endpoint for connecting an interface VPC endpoint service. Note: ● The subnet CIDR block of the VPC cannot overlap with 198.19.128.0/17. ● The destination address of the custom route in the VPC route table cannot overlap with 198.19.128.0/17. Minimum: **1** Maximum: **64**
endpoint_service_id	Yes	String	Specifies the ID of the VPC endpoint service. You can obtain the ID of the VPC endpoint service to be connected by querying the section "VPCEP Service Overview". Minimum: **1** Maximum: **64**
vpc_id	Yes	String	Specifies the ID of the VPC where the VPC endpoint is located. For details, see the id field in the response information of the section "Querying VPC Details" in the Elastic Cloud Server API Reference. Minimum: **1** Maximum: **64**

Parameter	Mandatory	Type	Description
enable_dns	No	Boolean	Specifies whether to create a domain name. ● true: A domain name is required. ● false: A domain name is not required. The default value is false. Note: When you create a VPC endpoint for connecting a gateway VPC endpoint service, no domain name is created if enable_dns is set to true or false. Default: **false**
tags	No	Array of **TagList** objects	Specifies the tag list. If there is no tag in the list, tags is taken as an empty array.
routetables	No	Array of strings	Specifies the IDs of route tables. For details, see the id field in the response information of the section "Querying a VPC Route" in the Virtual Private Cloud API Reference. This parameter is mandatory when you create a VPC endpoint for connecting a gateway VPC endpoint service. Note: If this parameter is not configured, use the default route table.
port_ip	No	String	Specifies the IP address for accessing the associated VPC endpoint service. You can specify IP addresses for accessing the associated VPC endpoint service when creating a VPC endpoint. Only IPv4 addresses are supported. This parameter is mandatory when you create a VPC endpoint for connecting an interface VPC endpoint service. Minimum: **1** Maximum: **128**

Parameter	Mandatory	Type	Description
whitelist	No	Array of strings	Specifies whitelists added for controlling access to the VPC endpoint. IPv4 addresses or CIDR blocks can be specified to control access when you create a VPC endpoint. The whitelist is left blank by default. This parameter is available only when you create a VPC endpoint for connecting to an interface VPC endpoint service.
enable_whitel ist	No	Boolean	Specifies whether access control is enabled.
description	No	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).

Table 4-605 TagList

Parameter	Mandatory	Type	Description
key	No	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**

Parameter	Mandatory	Type	Description
value	No	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Response Parameters

Status code: 200

Table 4-606 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.
service_type	String	Specifies the type of the VPC endpoint service that is associated with the VPC endpoint. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. You cannot configure these cloud services, but can use them.You can query public VPC endpoint services to view the VPC endpoint services that are visible and accessible to all users configured by O&M personnel.You can create an interface VPC endpoint service.
status	String	Specifies the connection status of the VPC endpoint. ●pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ●accepted: The VPC endpoint connection has been accepted. ● failed: The VPC endpoint connection failed.

Parameter	Type	Description
active_status	Array of strings	Specifies the account status. ● frozen: The account is frozen. ● active: The account is unfrozen.
endpoint_service_name	String	Specifies the name of the VPC endpoint service.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.
endpoint_service_id	String	Specifies the ID of the VPC endpoint service.
enable_dns	Boolean	Specifies whether to create a domain name. ● true: A domain name is required. ● false: A domain name is not required. Note: When you create a VPC endpoint for connecting a gateway VPC endpoint service, no domain name is created if enable_dns is set to true or false.
dns_names	Array of strings	Specifies the domain name for accessing the associated VPC endpoint service. This parameter is only available when enable_dns is set to true.
subnet_id	String	Specifies the ID of the subnet in the VPC based on vpc_id. The ID is in the UUID format.
vpc_id	String	Specifies the ID of the VPC where the VPC endpoint is to be created.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
project_id	String	Specifies the project ID. For details about how to obtain the project ID, see "Obtaining a Project ID".
tags	Array of **TagList** objects	Tag list. If no tag is matched, an empty array is returned.
whitelist	Array of strings	Specifies the whitelist for controlling access to the VPC endpoint. If you do not specify this parameter, an empty whitelist is returned. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.

Parameter	Type	Description
enable_whitel ist	Boolean	Specifies whether to enable network ACL isolation. ● true: The network ACL isolation is enabled. ● false: The network ACL isolation is disabled. If you do not specify this parameter, network ACL isolation is disabled. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.
routetables	Array of strings	Specifies the IDs of route tables. If you do not specify this parameter, the route table ID of the VPC is returned. This parameter is available when you create a VPC endpoint for connecting a gateway VPC endpoint service.
specification_ name	String	Specifies the specification name.
description	String	Specifies the description of a VPC endpoint.
policy_statem ent	Array of strings	This field is displayed in the response body only for enabling the gateway VPC endpoint with fixed ports at both ends.
enable_status	String	Specifies whether the VPC endpoint is disabled. The value can be enable or disable.

Table 4-607 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**

Parameter	Type	Description
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Status code: 400

Table 4-608 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-609 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-610 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-611 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-612 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-613 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-614 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-615 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-616 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-617 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-618 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-619 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-620 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-621 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-622 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-623 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-624 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-625 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-626 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-627 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-628 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-629 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-630 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-631 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-632 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-633 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-634 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-635 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
POST https://{endpoint}/v1/{project_id}/vpc-endpoints

{
  "subnet_id" : "5d1c1d71-2613-4274-b34e-d82af550f967",
  "vpc_id" : "4e65f8b1-306d-4522-8ecd-aa374000e2a4",
  "endpoint_service_id" : "813d9300-8473-405b-bfcd-f711117bad65",
  "enable_dns" : "false"
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "id" : "492c776f-2cb9-40a2-9735-d7279ab2bbb6",
```

```
"status" : "accepted",
"ip" : "172.16.0.154",
"tags" : [ ],
"whitelist" : [ ],
"marker_id" : 302010104,
"active_status" : [ "active" ],
"vpc_id" : "0da03835-1dcf-4361-9b87-34139d58dd59",
"service_type" : "interface",
"project_id" : "0605767a3300d5762fb7c0186d9e1779",
"subnet_id" : "fb1b8b7e-f34c-4ff1-b3a7-221acef3b3aa",
"enable_dns" : false,
"created_at" : "2022-04-28T02:44:50Z",
"updated_at" : "2022-04-28T02:56:15Z",
"endpoint_service_id" : "8843fac2-bc01-445a-a822-c8124ff3968c",
"endpoint_service_name" : "br-iaas-odin1.vm_test.8843fac2-bc01-445a-a822-c8124ff3968c",
"enable_whitelist" : false,
"specification_name" : "default",
"enable_status" : "enable"
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.

Status Code	Description
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.3.4 Querying VPC endpoints

Function

Function This API is used to query VPC endpoints.

URI

GET /v1/{project_id}/vpc-endpoints

Table 4-636 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**

Table 4-637 Query Parameters

Parameter	Mandatory	Type	Description
endpoint_service_name	No	String	Specifies the name of the VPC endpoint service. The name is case insensitive and supports fuzzy match. Minimum: **1** Maximum: **128**
vpc_id	No	String	Specifies the ID of the VPC where the VPC endpoint is to be created. Minimum: **1** Maximum: **64**

Parameter	Mandatory	Type	Description
id	No	String	Specifies the unique ID of the VPC endpoint. Minimum: **1** Maximum: **64**
limit	No	Integer	Specifies the maximum number of VPC endpoints displayed on each page. The value ranges from 0 to 500 and is generally 10, 20, or 50. The default number is 10. Minimum: **1** Maximum: **1000** Default: **10**
offset	No	Integer	Specifies the offset. All VPC endpoint services after this offset will be queried. The offset must be an integer greater than 0 but less than the number of VPC endpoint services. Minimum: **0**
sort_key	No	String	Specifies the sorting field of the VPC endpoints, which can be: ●create_at: VPC endpoints are sorted by creation time. ●update_at: VPC endpoints are sorted by update time. The default field is create_at.
sort_dir	No	String	Specifies the sorting method of VPC endpoints, which can be: ● desc: VPC endpoints are sorted in descending order. ● asc: VPC endpoints are sorted in ascending order. The default method is desc.
public_border _group	No	String	Specifies the VPC endpoint service that matches the edge attribute in the filtering result.

Request Parameters

Table 4-638 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Response Parameters

Status code: 200

Table 4-639 Response body parameters

Parameter	Type	Description
endpoints	Array of **EndpointResp** objects	Endpoint list.
total_count	Integer	Specifies the total number of endpoints that meet the search criteria. The number is not affected by the limit and offset parameters.

Table 4-640 EndpointResp

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.

Parameter	Type	Description
service_type	String	Specifies the type of the VPC endpoint service that is associated with the VPC endpoint. ● gateway: configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: includes cloud services configured by O&M personnel and private services created by users. You cannot configure these cloud services, but can use them. You can query public VPC endpoint services to view the VPC endpoint services that are visible and accessible to all users configured by O&M personnel. You can also create an interface VPC endpoint service by creating a VPC endpoint service.
status	String	Specifies the connection status of the VPC endpoint. ●pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ●accepted: The VPC endpoint connection has been accepted. ● failed: The VPC endpoint connection failed.
active_status	Array of strings	Specifies the account status. ● frozen: The account is frozen. ● active: The account is unfrozen.
endpoint_service_name	String	Specifies the name of the VPC endpoint service.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.
endpoint_service_id	String	Specifies the ID of the VPC endpoint service.
enable_dns	Boolean	Specifies whether to create a domain name. ● true: A domain name is required. ● false: A domain name is not required. Note: When you create a VPC endpoint for connecting a gateway VPC endpoint service, no domain name is created if enable_dns is set to true or false.
dns_names	Array of strings	Specifies the domain name for accessing the associated VPC endpoint service. This parameter is only available when enable_dns is set to true.

Parameter	Type	Description
ip	String	Specifies the IP address for accessing the associated VPC endpoint service. This parameter is returned only when the following conditions are met: You query a VPC endpoint for accessing an interface VPC endpoint service. The connection approval function is enabled for the VPC endpoint service, and the connection has been accepted. The status of the VPC endpoint can be accepted or rejected. The rejected status only appears when the VPC endpoint connection is accepted and then rejected.
vpc_id	String	Specifies the ID of the VPC where the VPC endpoint is to be created.
subnet_id	String	Specifies the ID of the subnet in the VPC based on vpc_id. The ID is in the UUID format.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
project_id	String	Specifies the project ID. For details about how to obtain the project ID, see "Obtaining a Project ID".
tags	Array of **TagList** objects	Specifies the tag list. If there is no tag in the list, tags is taken as an empty array.
error	Array of **QueryError** objects	Specifies the error message. This field is returned when the VPC endpoint is abnormal, that is, the value of status is failed.
whitelist	Array of strings	Specifies the whitelist for controlling access to the VPC endpoint. If you do not specify this parameter, an empty whitelist is returned. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.

Parameter	Type	Description
enable_whitelist	Boolean	Specifies whether to enable network ACL isolation. ● true: The network ACL isolation is enabled. ● false: The network ACL isolation is disabled. If you do not specify this parameter, network ACL isolation is disabled. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.
routetables	Array of strings	Specifies the IDs of route tables. If you do not specify this parameter, the route table ID of the VPC is returned. This parameter is available when you create a VPC endpoint for connecting a gateway VPC endpoint service.
description	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).
policy_statement	Array of **PolicyStatement** objects	This field is displayed in the response body only for enabling the gateway VPC endpoint with fixed ports at both ends.
endpoint_pool_id	String	Specifies the ID of the pool associated with the VPC endpoint.
public_border_group	String	Specifies the information about the Public Border Group associated with the VPC endpoint. This parameter is returned only when the endpoint is associated with an edge pool.

Table 4-641 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**

Parameter	Type	Description
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Table 4-642 QueryError

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

Table 4-643 PolicyStatement

Parameter	Type	Description
Effect	String	Specifies whether to accept or reject the OBS permissions or object.
Action	Array of strings	Specifies OBS access permissions.
Resource	Array of strings	Specifies the OBS object.

Status code: 400

Table 4-644 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-645 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-646 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-647 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-648 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-649 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-650 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-651 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-652 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-653 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-654 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-655 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-656 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-657 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-658 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-659 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-660 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-661 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-662 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-663 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-664 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-665 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-666 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-667 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-668 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-669 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-670 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-671 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
GET https://{endpoint}/v1/{project_id}/vpc-endpoints?
endpoint_service_name={endpoint_service_name}&vpc_id={vpc_id}&limit={limit}&offset={offset}&id={id}&sor
t_key={sort_key}&sort_dir={sort_dir}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "endpoints" : [ {
    "id" : "03184a04-95d5-4555-86c4-e767a371ff99",
    "status" : "accepted",
    "ip" : "192.168.0.232",
    "marker_id" : 16777337,
    "active_status" : "active",
    "vpc_id" : "84758cf5-9c62-43ae-a778-3dbd8370c0a4",
    "service_type" : "interface",
    "project_id" : "295dacf46a4842fcbf7844dc2dc2489d",
    "subnet_id" : "68bfbcc1-dff2-47e4-a9d4-332b9bc1b8de",
    "enable_dns" : "true",
    "dns_name" : "test123",
    "created_at" : "2018-10-18T06:49:46Z",
    "updated_at" : "2018-10-18T06:49:50Z",
    "endpoint_service_id" : "5133655d-0e28-4090-b669-13f87b355c78",
    "endpoint_service_name" : "test123",
    "endpoint_pool_id" : "ee38223b-aacb-46f0-ba7e-94fa62e35dde",
    "public_border_group" : "br-iaas-odin1raa",
    "whitelist" : [ "127.0.0.1" ],
    "enable_whitelist" : true
  }, {
    "id" : "43b0e3b0-eec9-49da-866b-6687b75f9fe5",
    "status" : "accepted",
    "ip" : "192.168.0.115",
    "marker_id" : 16777322,
    "active_status" : "active",
    "vpc_id" : "e251b400-2963-4131-b38a-da81e32026ee",
    "service_type" : "interface",
    "project_id" : "295dacf46a4842fcbf7844dc2dc2489d",
    "subnet_id" : "65528a22-59a1-4972-ba64-88984b3207cd",
    "enable_dns" : "true",
    "dns_name" : "test123",
```

```
  "created_at" : "2018-10-18T06:36:20Z",
  "updated_at" : "2018-10-18T06:36:24Z",
  "endpoint_service_id" : "5133655d-0e28-4090-b669-13f87b355c78",
  "endpoint_service_name" : "test123",
  "endpoint_pool_id" : "ee38223b-aacb-46f0-ba7e-94fa62e35dde",
  "whitelist" : [ "127.0.0.1" ],
  "enable_whitelist" : true
} ],
"total_count" : 2
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.3.5 Querying details of a VPC endpoint

Function

Function This API is used to query details about a VPC endpoint.

URI

GET /v1/{project_id}/vpc-endpoints/{vpc_endpoint_id}

Table 4-672 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_id	Yes	String	Specifies the ID of the VPC endpoint. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-673 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Response Parameters

Status code: 200

Table 4-674 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.
service_type	String	Specifies the type of the VPC endpoint service that is associated with the VPC endpoint. ● gateway: configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: includes cloud services configured by O&M personnel and private services created by users. You cannot configure these cloud services, but can use them. You can query public VPC endpoint services to view the VPC endpoint services that are visible and accessible to all users configured by O&M personnel. You can also create an interface VPC endpoint service by creating a VPC endpoint service.
status	String	Specifies the connection status of the VPC endpoint. ●pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ●accepted: The VPC endpoint connection has been accepted. ● failed: The VPC endpoint connection failed.
active_status	Array of strings	Specifies the account status. ● frozen: The account is frozen. ● active: The account is unfrozen.
enable_status	String	Specifies whether the VPC endpoint is available. ● enable: The VPC endpoint is enabled. ● disable: The VPC endpoint is disabled.
specification_ name	String	Specifies the specification name of the VPC endpoint service.
endpoint_serv ice_name	String	Specifies the name of the VPC endpoint service.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.
endpoint_serv ice_id	String	Specifies the ID of the VPC endpoint service.

Parameter	Type	Description
enable_dns	Boolean	Specifies whether to create a domain name. ● true: A domain name is required. ● false: A domain name is not required. Note: When you create a VPC endpoint for connecting a gateway VPC endpoint service, no domain name is created if enable_dns is set to true or false.
dns_names	Array of strings	Specifies the domain name for accessing the associated VPC endpoint service. This parameter is only available when enable_dns is set to true.
ip	String	Specifies the IP address for accessing the associated VPC endpoint service. This parameter is returned only when the following conditions are met: ● You query a VPC endpoint for accessing an interface VPC endpoint service. ● The connection approval function is enabled for the VPC endpoint service, and the connection has been approved. The status of the VPC endpoint can be accepted or rejected. The rejected status only appears when the VPC endpoint connection is accepted and then rejected.
vpc_id	String	Specifies the ID of the VPC where the VPC endpoint is to be created.
subnet_id	String	Specifies the ID of the subnet in the VPC based on vpc_id. The ID is in the UUID format.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
project_id	String	Specifies the project ID. For details about how to obtain the project ID, see "Obtaining a Project ID".
tags	Array of **TagList** objects	Specifies the tag list. If there is no tag in the list, tags is taken as an empty array.
error	**QueryError** object	Exception information returned during resource query.

Parameter	Type	Description
whitelist	Array of strings	Specifies the whitelist for controlling access to the VPC endpoint. If you do not specify this parameter, an empty whitelist is returned. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.
enable_whitel ist	Boolean	Specifies whether to enable network ACL isolation. ● true: The network ACL isolation is enabled. ● false: The network ACL isolation is disabled. If you do not specify this parameter, network ACL isolation is disabled. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.
routetables	Array of strings	Specifies the IDs of route tables. If you do not specify this parameter, the route table ID of the VPC is returned. This parameter is available when you create a VPC endpoint for connecting a gateway VPC endpoint service.
description	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).
policy_statem ent	Array of strings	This field is displayed in the response body only for enabling the gateway VPC endpoint with fixed ports at both ends.

Table 4-675 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**

Parameter	Type	Description
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Table 4-676 QueryError

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

Status code: 400

Table 4-677 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-678 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-679 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-680 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-681 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-682 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-683 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-684 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-685 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-686 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-687 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-688 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-689 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-690 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-691 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-692 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-693 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-694 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-695 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-696 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-697 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-698 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-699 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-700 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-701 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-702 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-703 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-704 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

GET https://{endpoint}/v1/{project_id}/vpc-endpoints/4189d3c2-8882-4871-a3c2- d380272eed83

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
"id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
"service_type" : "interface",
"marker_id" : 16777337,
"status" : "accepted",
"vpc_id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
"enable_dns" : false,
"endpoint_service_name" : "test123",
"endpoint_service_id" : "test123",
"project_id" : "6e9dfd51d1124e8d8498dce894923a0d",
"whitelist" : [ "127.0.0.1" ],
"enable_whitelist" : true,
"created_at" : "2022-04-14T09:35:47Z",
"updated_at" : "2022-04-14T09:36:47Z"
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.

Status Code	Description
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.3.6 Deleting Endpoint

Function

Function This API is used to delete a VPC endpoint.

URI

DELETE /v1/{project_id}/vpc-endpoints/{vpc_endpoint_id}

Table 4-705 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_id	Yes	String	Specifies the ID of the VPC endpoint. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-706 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Response Parameters

Status code: 400

Table 4-707 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-708 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-709 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-710 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-711 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-712 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-713 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-714 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-715 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-716 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-717 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-718 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-719 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-720 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-721 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-722 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-723 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-724 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-725 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-726 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-727 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-728 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-729 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-730 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-731 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-732 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-733 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-734 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

DELETE https://{endpoint}/v1/{project_id}/vpc-endpoints/4189d3c2-8882-4871-a3c2- d380272eed83

Example Responses

None

Status Codes

Status Code	Description
204	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.

Status Code	Description
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.3.7 Updating the Whitelist of a VPC Endpoint

Function

Function This API is used to update or delete the whitelist of a VPC endpoint.

URI

PUT /v1/{project_id}/vpc-endpoints/{vpc_endpoint_id}

Table 4-735 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID. For details about how to obtain the project ID, see "Obtaining a Project ID". Minimum: **1** Maximum: **64**
vpc_endpoint_id	Yes	String	Specifies the ID of the VPC endpoint. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-736 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Table 4-737 Request body parameters

Parameter	Mandatory	Type	Description
whitelist	No	Array of strings	Specifies the whitelist updated or deleted for controlling access to VPC endpoints. The value can be an IPv4 address or CIDR block. The setting descriptions are as follows: ● If the value is specified, the whitelist is updated to the specified value. ● If this parameter is left blank, all whitelists are deleted. The whitelist is left blank by default.
enable_whitelist	No	Boolean	Specifies whether to enable network ACL isolation. ● true: The network ACL isolation is enabled. ● false: The network ACL isolation is disabled. The default value is false.

Response Parameters

Status code: 200

Table 4-738 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.
service_type	String	Specifies the type of the VPC endpoint service that is associated with the VPC endpoint. ● gateway: VPC endpoint services of this type are configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: Cloud services configured by O&M personnel and private services created by yourselves are included. You cannot configure these cloud services, but can use them. You can query public VPC endpoint services to view the VPC endpoint services that are visible and accessible to all users configured by O&M personnel. You can create an interface VPC endpoint service.
status	String	Specifies the connection status of the VPC endpoint. ●pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ●accepted: The VPC endpoint connection has been accepted. ● failed: The VPC endpoint connection failed.
ip	String	Specifies the IP address for accessing the associated VPC endpoint service. This parameter is returned only when the following conditions are met: ● You query a VPC endpoint for accessing an interface VPC endpoint service. ● The connection approval function is enabled for the VPC endpoint service, and the connection has been approved. The status of the VPC endpoint can be accepted or rejected. The rejected status only appears when the VPC endpoint connection is accepted and then rejected.
active_status	Array of strings	Specifies the account status. ● frozen: The account is frozen. ● active: The account is unfrozen.
endpoint_service_name	String	Specifies the name of the VPC endpoint service.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.

Parameter	Type	Description
endpoint_service_id	String	Specifies the ID of the VPC endpoint service.
enable_dns	Boolean	Specifies whether to create a domain name. ● true: A domain name is required. ● false: A domain name is not required. Note: When you create a VPC endpoint for connecting a gateway VPC endpoint service, no domain name is created if enable_dns is set to true or false.
dns_names	Array of strings	Specifies the domain name for accessing the associated VPC endpoint service. This parameter is only available when enable_dns is set to true.
subnet_id	String	Specifies the ID of the subnet in the VPC based on vpc_id. The ID is in the UUID format.
vpc_id	String	Specifies the ID of the VPC where the VPC endpoint is to be created.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
project_id	String	Specifies the project ID. For details about how to obtain the project ID, see "Obtaining a Project ID".
tags	Array of **TagList** objects	Specifies the tag list. If there is no tag in the list, tags is taken as an empty array.
whitelist	Array of strings	Specifies the whitelist for controlling access to the VPC endpoint. If you do not specify this parameter, an empty whitelist is returned. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.
enable_whitelist	Boolean	Specifies whether to enable network ACL isolation. ● true: The network ACL isolation is enabled. ● false: The network ACL isolation is disabled. If you do not specify this parameter, network ACL isolation is disabled. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.

Table 4-739 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Status code: 400

Table 4-740 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-741 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-742 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-743 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-744 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-745 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-746 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-747 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-748 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-749 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-750 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-751 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-752 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-753 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-754 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-755 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-756 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-757 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-758 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-759 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-760 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-761 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-762 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-763 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-764 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-765 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-766 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-767 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
PUT https://{endpoint}/v1/{project_id}/vpc-endpoints/4189d3c2-8882-4871-a3c2- d380272eed83

{
  "whitelist":
        [
          "192.168.1.1",
          "192.168.1.2"
        ],
  "enable_whitelist":true,
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
  "service_type" : "interface",
  "status" : "accepted",
  "ip" : "10.32.xx.xx",
  "marker_id" : 322312312312,
  "vpc_id" : "4189d3c2-8882-4871-a3c2-d380272eed83",
  "enable_dns" : true,
  "endpoint_service_name" : "test123",
  "endpoint_service_id" : "test123",
  "project_id" : "6e9dfd51d1124e8d8498dce894923a0d",
  "whitelist" : [ "192.168.1.1", "192.168.1.2" ],
  "enable_whitelist" : true,
  "created_at" : "2022-04-14T09:35:47Z",
  "updated_at" : "2022-04-14T09:36:47Z",
  "tags" : [ {
    "key" : "test1",
    "value" : "test1"
  } ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.

Status Code	Description
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.3.8 Changing a route table of a VPC endpoint

Function

Function This API is used to modify route tables associated with a VPC endpoint.

URI

PUT /v1/{project_id}/vpc-endpoints/{vpc_endpoint_id}/routetables

Table 4-768 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID Minimum: **1** Maximum: **64**

Parameter	Mandatory	Type	Description
vpc_endpoint_id	Yes	String	Specifies the ID of the VPC endpoint. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-769 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Table 4-770 Request body parameters

Parameter	Mandatory	Type	Description
routetables	Yes	Array of strings	Lists the IDs of route tables.

Response Parameters

Status code: 200

Table 4-771 Response body parameters

Parameter	Type	Description
routetables	Array of strings	Specifies the IDs of route tables. Specifies the whitelist of a VPC endpoint. The value can be an IPv4 address or CIDR block. The setting descriptions are as follows: ● If the value is specified, the whitelist is updated to the specified value. ● If this parameter is left blank, all whitelists are deleted. The whitelist is left blank by default.
error	Array of **RoutetableInfoError** objects	Specifies the error message returned when the route table modification of the VPC endpoint subnet fails.

Table 4-772 RoutetableInfoError

Parameter	Type	Description
bind_failed	Array of **RoutetableInfoErrorDetial** objects	Failed to bind the route table to the VPC endpoint subnet.
unbind_failed	Array of **RoutetableInfoErrorDetial** objects	Failed to unbind the route table from the VPC endpoint subnet.

Table 4-773 RoutetableInfoErrorDetial

Parameter	Type	Description
id	String	Routing table ID.
error_message	String	Detailed error information.

Status code: 400

Table 4-774 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-775 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-776 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-777 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-778 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-779 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-780 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-781 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-782 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-783 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-784 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-785 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-786 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-787 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-788 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-789 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-790 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-791 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-792 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-793 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-794 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-795 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-796 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-797 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-798 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-799 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-800 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-801 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

PUT https://{endpoint}/v1/{project_id}/vpc-endpoints/4189d3c2-8882-4871-a3c2- d380272eed83/routetables

```
{
  "routetables" : [ "705290f3-0d00-41f2-aedc-71f09844e879" ]
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "routetables" : [ "705290f3-0d00-41f2-aedc-71f09844e879" ]
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The server has not found anything matching the request URI.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.

Status Code	Description
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.3.9 Modifying Route Tables Associated with a VPC Endpoint

Function

Function This API is used to modify the policy of a gateway VPC endpoint.

URI

PUT /v1/{project_id}/vpc-endpoints/{vpc_endpoint_id}/policy

Table 4-802 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_id	Yes	String	Specifies the ID of the VPC endpoint. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-803 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Table 4-804 Request body parameters

Parameter	Mandatory	Type	Description
policy_statement	Yes	Array of **PolicyStatement** objects	Only gateway VPC endpoints with both ends fixed are involved.

Table 4-805 PolicyStatement

Parameter	Mandatory	Type	Description
Effect	Yes	String	Specifies whether to accept or reject the OBS permissions or object.
Action	Yes	Array of strings	Specifies OBS access permissions.
Resource	Yes	Array of strings	Specifies the OBS object.

Response Parameters

Status code: 200

Table 4-806 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.
service_type	String	Specifies the type of the VPC endpoint service that is associated with the VPC endpoint. ● gateway: configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: includes cloud services configured by O&M personnel and private services created by users. You cannot configure these cloud services, but can use them. You can query public VPC endpoint services to view the VPC endpoint services that are visible and accessible to all users configured by O&M personnel. You can also create an interface VPC endpoint service by creating a VPC endpoint service.
status	String	Specifies the connection status of the VPC endpoint. ●pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ●accepted: The VPC endpoint connection has been accepted. ● failed: The VPC endpoint connection failed.
active_status	Array of strings	Specifies the account status. ● frozen: The account is frozen. ● active: The account is unfrozen.
endpoint_serv ice_name	String	Specifies the name of the VPC endpoint service.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.
endpoint_serv ice_id	String	Specifies the ID of the VPC endpoint service.
enable_dns	Boolean	Specifies whether to create a domain name. ● true: A domain name is required. ● false: A domain name is not required. Note: When you create a VPC endpoint for connecting a gateway VPC endpoint service, no domain name is created if enable_dns is set to true or false.

Parameter	Type	Description
dns_names	Array of strings	Specifies the domain name for accessing the associated VPC endpoint service. This parameter is only available when enable_dns is set to true.
ip	String	Specifies the IP address for accessing the associated VPC endpoint service. This parameter is returned only when the following conditions are met: You query a VPC endpoint for accessing an interface VPC endpoint service. The connection approval function is enabled for the VPC endpoint service, and the connection has been accepted. The status of the VPC endpoint can be accepted or rejected. The rejected status only appears when the VPC endpoint connection is accepted and then rejected.
vpc_id	String	Specifies the ID of the VPC where the VPC endpoint is to be created.
subnet_id	String	Specifies the ID of the subnet in the VPC based on vpc_id. The ID is in the UUID format.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
project_id	String	Specifies the project ID. For details about how to obtain the project ID, see "Obtaining a Project ID".
tags	Array of **TagList** objects	Specifies the tag list. If there is no tag in the list, tags is taken as an empty array.
error	Array of **QueryError** objects	Specifies the error message. This field is returned when the VPC endpoint is abnormal, that is, the value of status is failed.
whitelist	Array of strings	Specifies the whitelist for controlling access to the VPC endpoint. If you do not specify this parameter, an empty whitelist is returned. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.

Parameter	Type	Description
enable_whitelist	Boolean	Specifies whether to enable network ACL isolation. ● true: The network ACL isolation is enabled. ● false: The network ACL isolation is disabled. If you do not specify this parameter, network ACL isolation is disabled. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.
routetables	Array of strings	Specifies the IDs of route tables. If you do not specify this parameter, the route table ID of the VPC is returned. This parameter is available when you create a VPC endpoint for connecting a gateway VPC endpoint service.
description	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).
policy_statement	Array of **PolicyStatement** objects	This field is displayed in the response body only for enabling the gateway VPC endpoint with fixed ports at both ends.
endpoint_pool_id	String	Specifies the ID of the pool associated with the VPC endpoint.
public_border_group	String	Specifies the information about the Public Border Group associated with the VPC endpoint. This parameter is returned only when the endpoint is associated with an edge pool.

Table 4-807 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**

Parameter	Type	Description
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Table 4-808 QueryError

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

Table 4-809 PolicyStatement

Parameter	Type	Description
Effect	String	Specifies whether to accept or reject the OBS permissions or object.
Action	Array of strings	Specifies OBS access permissions.
Resource	Array of strings	Specifies the OBS object.

Status code: 400

Table 4-810 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-811 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-812 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-813 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-814 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-815 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-816 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-817 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-818 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-819 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-820 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-821 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-822 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-823 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-824 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-825 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-826 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-827 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-828 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-829 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-830 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-831 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-832 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-833 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-834 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-835 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-836 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-837 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

```
PUT https://{endpoint}/v1/{project_id}/vpc-endpoints/938c8167-631e-40a4-99f9-493753fbd16b/policy

{
  "policy_statement" : [ {
    "Action" : [ "obs:*:*" ],
    "Resource" : [ "obs:*:*:*/*", "obs:*:*:*" ],
    "Effect" : "Allow"
  } ]
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "id" : "938c8167-631e-40a4-99f9-493753fbd16b",
  "status" : "accepted",
  "tags" : [ ],
  "jobId" : "endpoint_add_938c8167-631e-40a4-99f9-493753fbd16b",
  "marker_id" : 302035929,
  "active_status" : [ "active" ],
  "vpc_id" : "0da03835-1dcf-4361-9b87-34139d58dd59",
  "service_type" : "gateway",
  "project_id" : "0605767a3300d5762fb7c0186d9e1779",
  "routetables" : [ "99477d3b-87f6-49d2-8f3b-2ffc72731a38" ],
  "created_at" : "2022-08-03T03:03:54Z",
  "updated_at" : "2022-08-03T03:03:57Z",
  "endpoint_service_id" : "4651bc78-5cec-41b7-b448-f77326ebbed0",
  "endpoint_service_name" : "br-iaas-odin1.obs_test.4651bc78-5cec-41b7-b448-f77326ebbed0",
  "policy_statement" : [ {
    "Action" : [ "obs:*:*" ],
    "Resource" : [ "obs:*:*:*/*", "obs:*:*:*" ],
    "Effect" : "Allow"
  } ],
  "specification_name" : "default",
  "enable_status" : "enable",
  "description" : "",
  "endpoint_pool_id" : "b0ad6a4f-55c0-43f1-a26d-278639661fc2"
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The server failed to process the request.
401	Username and password are required to access the requested page.
403	The access to the requested page is forbidden.
404	The server could not find the requested page.
405	The method specified in the request is not allowed.
406	The response generated by the server could not be accepted by the client.
407	Proxy authentication is required before the request is processed.
408	The request timed out.
409	The request could not be processed due to a conflict.
500	Request failed. A service error occurred.
501	Request failed. The server does not support the requested function.
502	Request failed. The server has received an invalid response from the upstream server.
503	Request failed. The system is unavailable.
504	Gateway timed out.

Error Codes

See **Error Codes**.

4.3.10 Modifying Route Tables Associated with a VPC Endpoint

Function

Function This API is used to delete the policy of a gateway VPC endpoint.

URI

DELETE /v1/{project_id}/vpc-endpoints/{vpc_endpoint_id}/policy

Table 4-838 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Specifies the project ID. Minimum: **1** Maximum: **64**
vpc_endpoint_id	Yes	String	Specifies the ID of the VPC endpoint. Minimum: **1** Maximum: **64**

Request Parameters

Table 4-839 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type. Minimum: **1** Maximum: **64**

Response Parameters

Status code: 200

Table 4-840 Response body parameters

Parameter	Type	Description
id	String	Specifies the unique ID of the VPC endpoint.

Parameter	Type	Description
service_type	String	Specifies the type of the VPC endpoint service that is associated with the VPC endpoint. ● gateway: configured by O&M personnel. You can use them directly without creating them by yourselves. ● interface: includes cloud services configured by O&M personnel and private services created by users. You cannot configure these cloud services, but can use them. You can query public VPC endpoint services to view the VPC endpoint services that are visible and accessible to all users configured by O&M personnel. You can also create an interface VPC endpoint service by creating a VPC endpoint service.
status	String	Specifies the connection status of the VPC endpoint. ●pendingAcceptance: The VPC endpoint connection is to be accepted. ● creating: The VPC endpoint connection is being created. ●accepted: The VPC endpoint connection has been accepted. ● failed: The VPC endpoint connection failed.
active_status	Array of strings	Specifies the account status. ● frozen: The account is frozen. ● active: The account is unfrozen.
endpoint_service_name	String	Specifies the name of the VPC endpoint service.
marker_id	Integer	Specifies the packet ID of the VPC endpoint.
endpoint_service_id	String	Specifies the ID of the VPC endpoint service.
enable_dns	Boolean	Specifies whether to create a domain name. ● true: A domain name is required. ● false: A domain name is not required. Note: When you create a VPC endpoint for connecting a gateway VPC endpoint service, no domain name is created if enable_dns is set to true or false.
dns_names	Array of strings	Specifies the domain name for accessing the associated VPC endpoint service. This parameter is only available when enable_dns is set to true.

Parameter	Type	Description
ip	String	Specifies the IP address for accessing the associated VPC endpoint service. This parameter is returned only when the following conditions are met: You query a VPC endpoint for accessing an interface VPC endpoint service. The connection approval function is enabled for the VPC endpoint service, and the connection has been accepted. The status of the VPC endpoint can be accepted or rejected. The rejected status only appears when the VPC endpoint connection is accepted and then rejected.
vpc_id	String	Specifies the ID of the VPC where the VPC endpoint is to be created.
subnet_id	String	Specifies the ID of the subnet in the VPC based on vpc_id. The ID is in the UUID format.
created_at	String	Specifies the creation time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
updated_at	String	Specifies the update time of the VPC endpoint. The applied UTC time format is YYYY-MM-DDTHH:MM:SSZ.
project_id	String	Specifies the project ID. For details about how to obtain the project ID, see "Obtaining a Project ID".
tags	Array of **TagList** objects	Specifies the tag list. If there is no tag in the list, tags is taken as an empty array.
error	Array of **QueryError** objects	Specifies the error message. This field is returned when the VPC endpoint is abnormal, that is, the value of status is failed.
whitelist	Array of strings	Specifies the whitelist for controlling access to the VPC endpoint. If you do not specify this parameter, an empty whitelist is returned. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.

Parameter	Type	Description
enable_whitelist	Boolean	Specifies whether to enable network ACL isolation. ● true: The network ACL isolation is enabled. ● false: The network ACL isolation is disabled. If you do not specify this parameter, network ACL isolation is disabled. This parameter is available when you create a VPC endpoint for connecting an interface VPC endpoint service.
routetables	Array of strings	Specifies the IDs of route tables. If you do not specify this parameter, the route table ID of the VPC is returned. This parameter is available when you create a VPC endpoint for connecting a gateway VPC endpoint service.
description	String	Specifies the description field. The value can contain characters such as letters and digits, but cannot contain less than signs (<) and great than signs (>).
policy_statement	Array of **PolicyStatement** objects	This field is displayed in the response body only for enabling the gateway VPC endpoint with fixed ports at both ends.
endpoint_pool _id	String	Specifies the ID of the pool associated with the VPC endpoint.
public_border _group	String	Specifies the information about the Public Border Group associated with the VPC endpoint. This parameter is returned only when the endpoint is associated with an edge pool.

Table 4-841 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**

Parameter	Type	Description
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Table 4-842 QueryError

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

Table 4-843 PolicyStatement

Parameter	Type	Description
Effect	String	Specifies whether to accept or reject the OBS permissions or object.
Action	Array of strings	Specifies OBS access permissions.
Resource	Array of strings	Specifies the OBS object.

Status code: 400

Table 4-844 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-845 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-846 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-847 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-848 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-849 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-850 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-851 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-852 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-853 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-854 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-855 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-856 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-857 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-858 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-859 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-860 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-861 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-862 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-863 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-864 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-865 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-866 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-867 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-868 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-869 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-870 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-871 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

DELETE https://{endpoint}/v1/{project_id}/vpc-endpoints/938c8167-631e-40a4-99f9-493753fbd16b/policy

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "id" : "938c8167-631e-40a4-99f9-493753fbd16b",
  "status" : "accepted",
  "tags" : [ ],
  "jobId" : "endpoint_add_938c8167-631e-40a4-99f9-493753fbd16b",
  "marker_id" : 302035929,
  "active_status" : [ "active" ],
  "vpc_id" : "0da03835-1dcf-4361-9b87-34139d58dd59",
  "service_type" : "gateway",
  "project_id" : "0605767a3300d5762fb7c0186d9e1779",
  "routetables" : [ "99477d3b-87f6-49d2-8f3b-2ffc72731a38" ],
  "created_at" : "2022-08-03T03:03:54Z",
  "updated_at" : "2022-08-03T03:03:57Z",
  "endpoint_service_id" : "4651bc78-5cec-41b7-b448-f77326ebbed0",
  "endpoint_service_name" : "br-iaas-odin1.obs_test.4651bc78-5cec-41b7-b448-f77326ebbed0",
  "specification_name" : "default",
  "enable_status" : "enable",
  "description" : "",
  "endpoint_pool_id" : "b0ad6a4f-55c0-43f1-a26d-278639661fc2"
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The server failed to process the request.
401	Username and password are required to access the requested page.

Status Code	Description
403	The access to the requested page is forbidden.
404	The server could not find the requested page.
405	The method specified in the request is not allowed.
406	The response generated by the server could not be accepted by the client.
407	Proxy authentication is required before the request is processed.
408	The request timed out.
409	The request could not be processed due to a conflict.
500	Request failed. A service error occurred.
501	Request failed. The server does not support the requested function.
502	Request failed. The server has received an invalid response from the upstream server.
503	Request failed. The system is unavailable.
504	Gateway timed out.

Error Codes

See **Error Codes**.

4.4 Resource Quotas

4.4.1 Query quotas

Function

Function This API is used to query the quota of your resources, including VPC endpoint services and VPC endpoints.

URI

GET /v1/{project_id}/quotas

Table 4-872 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Table 4-873 Query Parameters

Parameter	Mandatory	Type	Description
type	No	String	Specifies the resource type. ● endpoint_service ● endpoint

Request Parameters

Table 4-874 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Response Parameters

Status code: 200

Table 4-875 Response body parameters

Parameter	Type	Description
quotas	**ResourcesResp** object	Response structure of the API for querying quotas

Table 4-876 ResourcesResp

Parameter	Type	Description
resources	Array of **Quotas** objects	Resource List

Table 4-877 Quotas

Parameter	Type	Description
type	String	Specifies the resource type. You can query the quota of a specified resource by resource type. ● endpoint_service ● endpoint
used	Integer	Specifies the number of created resources. The value ranges from 0 to the value of quota.
quota	Integer	Specifies the resource quota. The value ranges from the default quota value to the maximum quota value.

Status code: 400

Table 4-878 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-879 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-880 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-881 Error

Parameter	Type	Description
message	String	Task error description

Parameter	Type	Description
code	String	Error code of a task exception.

Status code: 403

Table 4-882 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-883 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-884 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-885 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-886 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-887 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-888 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-889 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-890 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-891 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-892 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-893 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-894 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-895 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-896 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-897 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-898 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-899 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-900 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-901 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-902 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-903 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-904 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-905 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

- GET https://{endpoint}/v1/{project_id}/quotas?type=endpoint

- GET https://{endpoint}/v1/{project_id}/quotas?type=endpoint_service

Example Responses

Status code: 200

The server has successfully processed the request.

```
{
  "quotas" : {
    "resources" : [ {
      "type" : "endpoint",
      "used" : 4,
      "quota" : 150
    }, {
      "type" : "endpoint_service",
      "used" : 10,
      "quota" : 100
    } ]
  }
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.

Status Code	Description
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.5 Tags

4.5.1 Querying Resources by Tag

Function

Function This API is used to query resources using tags.

URI

POST /v1/{project_id}/{resource_type}/resource_instances/action

Table 4-906 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
resource_type	Yes	String	Specifies the resource type. The type is endpoint_service or endpoint.

Request Parameters

Table 4-907 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token.

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Table 4-908 Request body parameters

Parameter	Mandatory	Type	Description
tags	No	Array of **TagValuesList** objects	Tags are included. A maximum of 10 tag keys are included, and each tag value can have a maximum of 10 values. Each tag value can be an empty array, but the tag structure cannot be missing. Tag keys must be unique. Values of the same tag key must be unique. Specifies all returned tags of the resource. Keys are in the AND relationship while values in the key-value structure are in the OR relationship. If no filtering condition for tags is specified, full data is returned.
tags_any	No	Array of **TagValuesList** objects	Any tags are included. A maximum of 10 tag keys are included, and each tag key can have a maximum of 10 values. Values of each tag key can be an empty array, but the tag structure cannot be missing. Both tag keys and values of the same tag key must be unique. Specifies resources including tags returned. Keys and values in the key-value structure are in the OR relationship. If no filtering condition is specified, full data is returned.

Parameter	Mandatory	Type	Description
not_tags	No	Array of **TagValuesList** objects	Tags are excluded, a maximum of 10 tag keys are included, and each tag value can have a maximum of 10 values. Each tag value can be an empty array, but the tag structure cannot be missing. Tag keys must be unique. Values of the same tag key must be unique. Specifies resources excluding tags returned. Keys are in the AND relationship while values in the key-value structure are in the OR relationship. If no filtering condition is specified, full data is returned.
not_tags_any	No	Array of **TagValuesList** objects	Any tags are excluded, a maximum of 10 tag keys are included, and each tag value can have a maximum of 10 values. Each tag value can be an empty array, but the tag structure cannot be missing. Tag keys must be unique. Values of the same tag key must be unique. Specifies resources excluding tags returned. Keys are in the AND relationship while values in the key-value structure are in the OR relationship. If no filtering condition is specified, full data is returned.
sys_tags	No	Array of **TagValuesList** objects	Specifies the system tags.
limit	No	String	Specifies the number of records to be queried. This parameter is unavailable when action is set to count. If action is set to filter, the default value is 1000. The maximum value of limit is 1000 and the minimum value is 1.

Parameter	Mandatory	Type	Description
offset	No	String	Specifies the index position and offset. The query starts from the data after the first data offset. This parameter is unavailable when action is set to count. If action is set to filter, the default value is 0 which indicates that the query starts from the first data. The value must be a non-negative number.
action	Yes	String	Specifies the action, which only can be filter and count. If this parameter is set to filter, the query is performed based on the filter criteria. If the parameter is set to count, only the total number of resources need to be returned.
matches	No	Array of **Match** objects	Specifies the search field. The tag key is the field to be matched, for example, resource_name. The tag value indicates the matched value. The tag key is a fixed dictionary value and cannot be a duplicate key or an unsupported key. Specifies whether fuzzy match is required based on the value of the tag key. For example, if the tag key is resource_name, fuzzy search (case-insensitive) is used by default. If value is an empty string, exact match is used. An empty list is returned because the resource_name for most services cannot be left blank. If the tag key is resource_id, exact match is used. Only resource_name for key is supported. Other key values will be available later.

Parameter	Mandatory	Type	Description
without_any_t ag	No	Boolean	The default value is false. The value can be true or false. When withoutAnyTag is set to true, ignore parameter verification on the tags, tagsAny, notTags, and notTagsAny.

Table 4-909 TagValuesList

Parameter	Mandatory	Type	Description
key	Yes	String	Specifies the tag key. It contains a maximum of 127 Unicode characters. A tag key cannot be left blank. (The character set of this parameter is not verified during the search.) The tag key cannot be left blank, empty strings, or spaces. Before you verify and use it, delete spaces at the beginning and end of the tag key. Minimum: **1** Maximum: **36**
values	Yes	Array of strings	Specifies the tag values. Each tag value contains a maximum of 255 Unicode characters. Before you verify and use it, delete spaces at the beginning and end of the tag value. The tag value can be an empty array but cannot be left blank. If values is left blank, it indicates any_value (querying any value). Values are in the OR relationship. The system does not verify the character set of values when searching for resources, but only verifies the length.

Table 4-910 Match

Parameter	Mandatory	Type	Description
key	Yes	String	Indicates the tag key. Only resource_name for key is supported. Other key values will be available later. Minimum: **1** Maximum: **36**
value	Yes	String	Value. Each value can contain a maximum of 255 Unicode characters. The character set of value is not verified. Minimum: **1** Maximum: **43**

Response Parameters

Status code: 200

Table 4-911 Response body parameters

Parameter	Type	Description
resources	Array of **ResourceInstance** objects	Resource Instance Details
total_count	Integer	Specifies the total number of query records. Minimum: **1**

Table 4-912 ResourceInstance

Parameter	Type	Description
resource_id	String	Indicates the resource ID, endpoint service ID, or endpoint ID.
tags	Array of **TagList** objects	Indicates the list of tags.
resource_name e	String	Resource name. If the resource does not have a name, the ID is returned.

Table 4-913 TagList

Parameter	Type	Description
key	String	Specifies the tag key. A tag key contains a maximum of 36 Unicode characters. It cannot be left blank. It cannot contain equal signs (=), asterisks (*), less than signs (<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **36**
value	String	Specifies the tag key. A tag value contains a maximum of 43 Unicode characters and can be an empty string. It cannot contain equal signs (=), asterisks (*), less than signs(<), greater than signs (>), backslashes (), commas (,), vertical bars (|), and slashes (/), and the first and last characters cannot be spaces. Minimum: **1** Maximum: **43**

Status code: 400

Table 4-914 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-915 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-916 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-917 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-918 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-919 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-920 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-921 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-922 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-923 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-924 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-925 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-926 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-927 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-928 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-929 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-930 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-931 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-932 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-933 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-934 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-935 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-936 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-937 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-938 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-939 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-940 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-941 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

- POST https://{endpoint}/v1/{project_id}/endpoint/resource_instances/action

  When action is set to filter: "offset": "100",
  ```
      "limit": "100",
      "action": "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"
              ]
          }
      ]
  }
  ```

- https://{endpoint}/v1/{project_id}/endpoint_service/ resource_instances/action

  When action is set to count:
  ```
  {
      "action": "count",
      "not_tags": [
          {
  ```

```
            "key": "key1",
            "values": [
              "value1",
              "*value2"
            ]
        }
      ],
      "tags": [
        {
            "key": "key1",
            "values": [
              "value1",
              "value2"
            ]
        },
        {
            "key": "key2",
            "values": [
              "value1",
              "value2"
            ]
        }
      ],
      "tags_any": [
        {
            "key": "key1",
            "values": [
              "value1",
              "value2"
            ]
        }
      ],
      "not_tags_any": [
        {
            "key": "key1",
            "values": [
              "value1",
              "value2"
            ]
        }
      ],
      "matches": [
        {
            "key": "resource_name",
            "value": "resource1"
        }
      ]
}
```

Example Responses

Status code: 200

The server has successfully processed the request.

```
- When action is set to filter:
{
"resources": [
{
"resource_detail": null,
"resource_id": "cdfs_cefs_wesas_12_dsad",
"resource_name": "resource1",
"tags": [
{
"key": "key1","value": "value1"
},
{
"key": "key2","value": "value1"
}
```

```
]
}
],
"total_count": 1000
}
- When action is set to be count:
{
"total_count": 1000
}
```

Status Codes

Status Code	Description
200	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.5.2 Adding or Deleting Resource Tags in Batches

Function

Function This API is used to batch add or delete tags for a specified VPC endpoint service or VPC endpoint. ● A resource can have a maximum of 10 tags.

URI

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

Table 4-942 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.
resource_type	Yes	String	Specifies the resource type. The type is endpoint_service or endpoint.
resource_id	Yes	String	Indicates the resource ID, endpoint service ID, or endpoint ID.

Request Parameters

Table 4-943 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token.
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Table 4-944 Request body parameters

Parameter	Mandatory	Type	Description
tags	No	Array of **resource_tag** objects	Specifies the tag list. If there is no tag in the list, tags is taken as an empty array.
action	Yes	String	Specifies the action, which only can be create and delete.

Table 4-945 resource_tag

Parameter	Mandatory	Type	Description
key	Yes	String	Specifies the tag key. A key can contain a maximum of 36 Unicode characters. The tag key must comply with the tag character set specifications.
value	No	String	Specifies the tag value. This parameter is mandatory when action is set to create. Each tag value contains a maximum of 43 Unicode characters. If the tag value is specified, the tag is deleted based on the key and value.If the tag value is left blank, the tag is deleted by key. The tag value must comply with the tag character set specifications.

Response Parameters

Status code: 400

Table 4-946 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-947 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-948 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-949 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-950 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-951 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-952 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-953 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-954 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-955 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-956 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-957 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-958 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-959 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-960 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-961 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-962 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-963 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-964 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-965 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-966 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-967 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-968 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-969 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-970 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-971 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-972 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-973 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

- POST https://{endpoint}/v1/{project_id}/endpoint_service/{resource_id}/tags/action

```
{
  "action" : "create",
  "tags" : [ {
    "key" : "key1",
    "value" : "value1"
  }, {
    "key" : "key",
    "value" : "value3"
  } ]
}
```

- POST https://{endpoint}/v1/{project_id}/endpoint/{resource_id}/tags/action

```
{
  "action" : "delete",
  "tags" : [ {
    "key" : "key1"
  }, {
    "key" : "key2",
    "value" : "value3"
  } ]
}
```

Example Responses

None

Status Codes

Status Code	Description
204	The server has successfully processed the request.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.

Status Code	Description
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

4.5.3 Querying Tags of a Tenant's Resource

Function

Function This API is used to query resources tags based on the tenant ID and resource type.

URI

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

Table 4-974 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Parameter	Mandatory	Type	Description
resource_type	Yes	String	Specifies the resource type. The type is endpoint_service or endpoint.

Request Parameters

Table 4-975 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	Specifies the user token. It can be obtained by calling the IAM API. The value of X-Subject-Token in the response header is the user token. Minimum: **1** Maximum: **2048**
Content-Type	Yes	String	Specifies the MIME type of the request body. Default value application/json is recommended. For APIs used to upload objects or images, the MIME type varies depending on the flow type.

Response Parameters

Status code: 200

Table 4-976 Response body parameters

Parameter	Type	Description
tags	Array of **TagValuesList** objects	Tags are included. A maximum of 10 tag keys are included, and each tag value can have a maximum of 10 values. Each tag value can be an empty array, but the tag structure cannot be missing. Tag keys must be unique. Values of the same tag key must be unique. Specifies all returned tags of the resource. Keys are in the AND relationship while values in the key-value structure are in the OR relationship. If no filtering condition for tags is specified, full data is returned.

Table 4-977 TagValuesList

Parameter	Type	Description
key	String	Specifies the tag key. It contains a maximum of 127 Unicode characters. A tag key cannot be left blank. (The character set of this parameter is not verified during the search.) The tag key cannot be left blank, empty strings, or spaces. Before you verify and use it, delete spaces at the beginning and end of the tag key. Minimum: **1** Maximum: **36**
values	Array of strings	Specifies the tag values. Each tag value contains a maximum of 255 Unicode characters. Before you verify and use it, delete spaces at the beginning and end of the tag value. The tag value can be an empty array but cannot be left blank. If values is left blank, it indicates any_value (querying any value). Values are in the OR relationship. The system does not verify the character set of values when searching for resources, but only verifies the length.

Status code: 400

Table 4-978 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-979 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 401

Table 4-980 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-981 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 403

Table 4-982 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-983 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 404

Table 4-984 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-985 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 405

Table 4-986 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-987 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 406

Table 4-988 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-989 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 407

Table 4-990 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-991 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 408

Table 4-992 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-993 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 409

Table 4-994 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-995 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 500

Table 4-996 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-997 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 501

Table 4-998 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-999 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 502

Table 4-1000 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-1001 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 503

Table 4-1002 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-1003 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Status code: 504

Table 4-1004 Response body parameters

Parameter	Type	Description
error	**Error** object	Specifies the error message returned when a task submission exception occurs.

Table 4-1005 Error

Parameter	Type	Description
message	String	Task error description
code	String	Error code of a task exception.

Example Requests

- GET https://{endpoint}/v1/{project_id}/endpoint_service/tags

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

Example Responses

Status code: 200

Indicates the list of tags.

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

Status Codes

Status Code	Description
200	Indicates the list of tags.
400	The request could not be understood by the server due to malformed syntax.
401	The requested page requires a user name and password.
403	The server understood the request, but is refusing to fulfill it.
404	The requested page was not found.
405	The method specified in the request line is not allowed for the resource identified by the request URI.
406	The resource identified by the request is only capable of generating response entities which have content characteristics not acceptable according to the accept headers sent in the request.
407	The client must first authenticate itself with the proxy.
408	The client did not produce a request within the time that the server was prepared to wait.
409	The request could not be completed due to a conflict with the current state of the resource.

Status Code	Description
500	Failed to complete the request. Service abnormality.
501	Failed to complete the request. The server does not support the requested function.
502	Failed to complete the request. because the server has received an invalid response.
503	Failed to complete the request. because the system is unavailable.
504	Gateway Timeout

Error Codes

See **Error Codes**.

5 Application Examples

5.1 Configuring a VPC Endpoint for Communication Across VPCs

Scenarios

VPCEP enables you to privately connect your VPC to a VPC endpoint service (a cloud service or your private service) in another VPC, providing higher access efficiency and networking security compared with EIPs.

This section describes how to invoke APIs described in **Creating a VPC Endpoint Service** and **Creating a VPC endpoint** to connect a VPC endpoint to a VPC endpoint service. For details, see **Calling APIs**.

> ☐ NOTE
>
> The token obtained from IAM is valid for only 24 hours. If you want to use one token for authentication, you can cache it to avoid frequently calling the IAM API.

Prerequisites

You have planned the region where you want to create a VPC endpoint and obtained the endpoint required for API calls. For details, see **Endpoints**.

Creating a VPC Endpoint Service

The following is an example request of creating an interface VPC endpoint service for an ECS:

> ☐ NOTE
>
> Before creating a VPC endpoint service, obtain necessary information such as values of parameters **vpc_id** and **port_id**. For details, see **Creating a VPC Endpoint Service**.

```
{
  "port_id": "4189d3c2-8882-4871-a3c2-d380272eed88",
  "vpc_id": "4189d3c2-8882-4871-a3c2-d380272eed80",
  "approval_enabled":false,
```

```
"service_type":"interface",
"server_type":"VM",
"ports":
     [
        {
          "client_port":8080,
          "server_port":80,
          "protocol":"TCP"
        },
        {
          "client_port":8081,
          "server_port":80,
          "protocol":"TCP"
        }
     ]
}
```

- **port_id**: indicates the ID for identifying the backend service of a VPC endpoint service. For example, when you create a VPC endpoint service for an ECS, set this parameter to the NIC ID of the ECS IP address.

- **vpc_id**: indicates the ID of the VPC where the backend resource is located.

- **approval_enabled**: indicates whether approval is required when a VPC endpoint connects to a VPC endpoint service. For example, if this parameter is set to **false**, no approval is required.

- **service_type**: indicates the type of the VPC endpoint service. For example, if this parameter is set to **interface**, the created VPC endpoint service is of the interface type.

- **server_type**: indicates the type of the backend resource. For example, if this parameter is set to **VM**, the backend resource is an ECS.

- **ports.client_port**: indicates the port provided by the VPC endpoint, allowing you to access the VPC endpoint service.

- **ports.server_port**: indicates the port provided by the backend resource to provide services.

- **ports.protocol**: indicates the protocol used for the port mapping.

Creating a VPC Endpoint

The following is an example request for creating a VPC endpoint, and creating a private domain name is supported.

📖 **NOTE**

> Before creating a VPC endpoint, obtain necessary information, such as values of parameters **vpc_id** and **subnet_id** and the VPC endpoint service ID returned in the previous step. For details, see **Creating a VPC endpoint**.

```
{
  "subnet_id": "4189d3c2-8882-4871-a3c2-d380272eed81",
  "vpc_id": "4189d3c2-8882-4871-a3c2-d380272eed82",
  "endpoint_service_id":"4189d3c2-8882-4871-a3c2-d380272eed83",
  "enable_dns":true
}
```

- **subnet_id**: indicates the ID of the subnet where the VPC endpoint is created.

- **vpc_id**: indicates the ID of the VPC where the VPC endpoint is created.

- **endpoint_service_id**: indicates the ID of the VPC endpoint service.

- **enable_dns**: indicates whether to create a private domain name for the VPC endpoint. For example, if this parameter is set to **true**, a private domain name is created for the VPC endpoint.

After the VPC endpoint is created, ECSs in the VPC where the VPC endpoint is located can access VPC endpoint service **4189d3c2-8882-4871-a3c2-d380272eed83** using this endpoint.

6 Appendix

6.1 Status Code

- Normal

Table 6-1 Return values for successful requests

Status Code	Returned Value	Description
200	OK	The results of POST, GET, and PUT operations are returned as expected.
204	No Content	The results of the DELETE operation are returned as expected.

- Abnormal

Table 6-2 Return code for failed requests

Status Code	Returned Value	Description
400	Bad Request	The server failed to process the request.
401	Unauthorized	You must enter a username and password to access the requested page.
403	Forbidden	You are forbidden to access the requested page.
404	Not Found	The server could not find the requested page.
405	Method Not Allowed	You are not allowed to use the method specified in the request.

Status Code	Returned Value	Description
406	Not Acceptable	The response generated by the server could not be accepted by the client.
407	Proxy Authentication Required	You must use the proxy server for authentication so that the request can be processed.
408	Request Timeout	The request timed out.
409	Conflict	The request could not be processed due to a conflict.
500	Internal Server Error	Failed to complete the request because of an internal service error.
501	Not Implemented	Failed to complete the request 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 service is unavailable.
504	Gateway Timeout	A gateway timeout error occurred.

6.2 Error Codes

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.0002	Parameter error.	Parameter error.	Check whether the parameter is valid.
400	EndPoint.0006	Invalid limit.	Invalid limit.	Enter a valid limit.
400	EndPoint.0007	Invalid action.	Invalid action.	Enter a valid action.
400	EndPoint.0009	The remote address does not match.	The remote address does not match.	Check whether you have the access permissions.
400	EndPoint.0010	Invalid offset.	Invalid offset.	Enter a valid offset.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.0014	Invalid project ID.	Invalid project ID.	Enter a valid project ID.
400	EndPoint.0015	Invalid specification.	Invalid specifications.	Enter valid specifications.
400	EndPoint.0016	The number of batch operated resources exceeded the limit.	The number of batch operated resources exceeded the limit.	Reduce the number of resources to be batch operated.
400	EndPoint.0017	Invalid sort_key.	Invalid sort key.	Enter a valid sort key.
400	EndPoint.0018	Invalid sort_dir.	Invalid sort DIR.	Enter a valid sort DIR.
400	EndPoint.0019	Invalid status.	Invalid status.	Enter a valid status.
400	EndPoint.0020	Invalid VPC ID.	Invalid VPC ID.	Enter a valid VPC ID.
400	EndPoint.0021	Invalid marker_id.	Invalid marker ID.	Enter a valid marker ID.
400	EndPoint.0022	The number of requests exceeded the limit. Please try later.	The number of requests exceeded the limit.	Try again later.
400	EndPoint.0023	Invalid subnet_id.	Invalid subnet ID.	Enter a valid subnet ID.
400	EndPoint.1003	Invalid service name.	Invalid service name.	Enter a valid service name.
400	EndPoint.1004	Invalid request.	Invalid request.	Enter a valid request body.
400	EndPoint.1008	Failed to obtain the token.	Failed to obtain the token.	Contact technical support.
400	Endpoint.1018	Quota exceeded.	Quota exceeded.	Contact technical support.
400	EndPoint.1019	Invalid route table ID.	Invalid route table ID.	Enter a valid route table ID.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.2001	The VPC does not exist.	The VPC does not exist.	Enter a valid VPC ID for the current tenant.
400	EndPoint.2002	The request input parameter is empty.	The request input parameter is left blank.	Enter a valid parameter.
400	EndPoint.2003	The endpoint service does not exist.	The endpoint service does not exist.	Enter a valid VPC endpoint service.
400	EndPoint.2004	The endpoint service is unavailable.	The VPC endpoint service is unavailable.	Try again later. If the fault persists, contact technical support.
400	EndPoint.2009	The specification information does not exist.	The specifications information does not exist.	Enter correct specifications.
400	EndPoint.2010	The input parameter subnet ID is empty.	The input parameter **subnet_id** is left blank.	Enter a valid subnet ID.
400	EndPoint.2011	The input parameter VPC ID is empty.	The input parameter **vpc_id** is left blank.	Enter a valid VPC ID.
400	EndPoint.2012	You have no permission to connect to the VPC endpoint service.	You have no permission to connect to the VPC endpoint service.	Check whether you have the access permissions.
400	EndPoint.2013	The endpoint does not belong to the endpoint service.	The VPC endpoint does not belong to the VPC endpoint service.	Check whether the VPC endpoint is valid.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.2014	The endpoint has connected to the endpoint service.	The VPC endpoint has connected to the VPC endpoint service.	Connected. You do not need to connect again.
400	EndPoint.2015	The endpoint has been frozen.	The VPC endpoint has been frozen.	Contact technical support.
400	EndPoint.2016	The endpoint pool IP address does not exist.	The pool IP address of the VPC endpoint does not exist.	Contact technical support.
400	EndPoint.2017	Invalid endpoint ID.	Invalid VPC endpoint ID.	Enter a valid VPC endpoint ID.
400	EndPoint.2018	The endpoint is being deleted.	The VPC endpoint is being deleted.	Select an available VPC endpoint.
400	EndPoint.2019	The endpoint is being created.	The VPC endpoint is being created.	Try again later.
400	EndPoint.2020	qrMac or sgMac does not exist.	**qrMac** or **sgMac** is not found.	Contact technical support.
400	EndPoint.2021	Failed to query the VPC.	Failed to query the VPC.	Contact technical support.
400	EndPoint.2022	Failed to create an endpoint.	Failed to create the VPC endpoint.	Contact technical support.
400	EndPoint.2023	CIDR is not found.	CIDR is not found.	Contact technical support.
400	EndPoint.2024	shadowVpc or shadowPort does not exist.	**shadowVpc** or **shadowPort** is left blank.	Contact technical support.
400	EndPoint.2025	The endpoint port does not exist.	The VPC endpoint port is not found.	Contact technical support.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.2026	VNI is empty.	VNI is left blank.	Contact technical support.
400	EndPoint.2027	Invalid action.	Invalid action.	Enter a valid action.
400	EndPoint.2028	The endpoint service port or protocol is empty.	The VPC endpoint service port or protocol is left blank.	Enter a valid port number or protocol.
400	EndPoint.2029	The requested endpoint service ID is empty.	The requested endpoint service ID is left blank.	Enter a valid VPC endpoint service ID.
400	EndPoint.2031	Only one endpoint is allowed.	Only one VPC endpoint is allowed.	A VPC endpoint service allows accepting or rejecting only one VPC endpoint.
400	EndPoint.2033	The entered parameter enable_dns is invalid.	Invalid **enable_dns** value.	Enter a valid **enable_dns**.
400	EndPoint.2034	The entered parameter enable_dns is incorrect.	Incorrect **enable_dns** value.	Enter a correct **enable_dns** value.
400	EndPoint.2035	The system parameter dns.enable is invalid.	Invalid **dns.enable** value.	Contact technical support.
400	EndPoint.2037	The current network does not belong to the VPC.	The current network does not belong to the VPC.	Check whether the parameter is valid.
400	EndPoint.2038	The pool does not exist.	The pool does not exist.	Contact technical support.
400	EndPoint.2039	The route table is being used by another VPC endpoint.	The route table is being used by another VPC endpoint.	Contact technical support.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.2040	The VPC endpoint has no route table bound.	The VPC endpoint has no route table associated.	Contact technical support.
400	EndPoint.2041	Invalid Port IP address.	Invalid NIC IP address.	Enter a valid IP address.
400	EndPoint.2042	The Port IP is in use.	The IP address of the NIC is in use.	Enter another IP address.
400	EndPoint.2043	The Port IP is not valid for the subnet.	The IP address of the NIC does not belong to the subnet.	Enter a valid IP address.
400	EndPoint.2044	Invalid whitelist.	Invalid whitelist.	Enter a valid whitelist.
400	EndPoint.2045	The maximum number of whitelist records has been reached.	The maximum number of records in the whitelist has been reached.	Contact technical support.
400	EndPoint.2046	Can not modify a specified mac endpoint.can not modify a specified mac endpoint.	**mac** of a specified VPC endpoint cannot be modified.	Contact technical support.
400	EndPoint.2047	The VPC endpoint in the Failed status cannot be modified.	A VPC endpoint in the **Failed** state cannot be modified.	Select a valid VPC endpoint.
400	EndPoint.2048	The VPC endpoint policy is invalid.	Invalid VPC endpoint policy.	Enter a valid VPC endpoint policy.
400	EndPoint.2049	The VPC endpoint has no policy associated.	No policy has been associated with the VPC endpoint.	Contact technical support.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.2050	The endpoint has been disabled.	The VPC endpoint has been disabled.	Contact technical support.
400	EndPoint.2051	The current endpoint is switching to new pool.	The VPC endpoint is being switched to a new resource pool.	Try again later.
400	EndPoint.2052	The current endpoint does not need to be rolled back.	The VPC endpoint failed to be rolled back.	Contact technical support.
400	EndPoint.3001	Failed to create a port.	Failed to create the port.	Contact technical support.
400	EndPoint.3002	Invalid permission.	Invalid permissions.	Contact technical support.
400	EndPoint.3003	Invalid port ID.	Invalid port ID.	Contact technical support.
400	EndPoint.3004	Invalid port.	Invalid port.	Contact technical support.
400	EndPoint.3005	Failed to delete the endpoint service.	Failed to delete the VPC endpoint service.	Contact technical support.
400	EndPoint.3006	The endpoint service is being used.	The VPC endpoint service is being used.	Contact technical support.
400	EndPoint.3008	The port does not exist.	The port is not found.	Contact technical support.
400	EndPoint.3009	Invalid CIDR.	Invalid CIDR.	Contact technical support.
400	EndPoint.3010	Invalid IP address.	Invalid IP address.	Enter a valid IP address.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.3011	Parameter IP is not required to create an endpoint service (interface).	**IP** is not required to create an interface VPC endpoint service.	Enter a valid request body.
400	EndPoint.3013	endpointService interface vlan can't have vpcId.	The request for accessing the VLAN VPC endpoint service cannot contain **vpcId**.	Enter a valid request body.
400	EndPoint.3014	endpointService interface can't have cidr.	The request for accessing the VPC endpoint service (interface) cannot contain **cidr**.	Enter a valid request body.
400	EndPoint.3015	endpointService gateway vlan can't have portId.	The request for accessing the VLAN VPC endpoint service (gateway) cannot contain **portId**.	Enter a valid request body.
400	EndPoint.3016	endpointService gateway vlan can't have ip.	The request for accessing the VLAN VPC endpoint service (gateway) cannot contain **ip**.	Enter a valid request body.
400	EndPoint.3017	Invalid CIDRs.	Invalid CIDRs.	Enter valid CIDRs.
400	EndPoint.3018	endpointService gateway vlan can't have vpcId.	The request for accessing the VLAN VPC endpoint service cannot contain **vpcId**.	Enter a valid request body.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.3021	Invalid serverType.	Invalid **serverType**.	Enter a valid **serverType**.
400	EndPoint.3022	Failed to create a network.	Failed to create the network.	Contact technical support.
400	EndPoint.3023	Failed to create a subnet.	Failed to create the subnet.	Contact technical support.
400	EndPoint.3035	Invalid action.	Invalid action.	Enter a valid action.
400	EndPoint.3036	Invalid permissions.	The permission list cannot be left blank.	Enter a valid request body.
400	EndPoint.3040	Failed to add a rollback task.	Failed to add the rollback task.	Contact technical support.
400	EndPoint.3042	The port ID does not belong to the current VPC.	The port ID does not belong to the current VPC.	Enter a valid request body.
400	EndPoint.3043	The service port is invalid.	Invalid service port.	Enter a valid request body.
400	EndPoint.3044	The parameter ports conflicted with ports in an existing endpoint service.	This port conflicted with the port of an existing endpoint service.	Enter a valid request body.
400	EndPoint.3045	Other properties cannot be modified in the current endpoint service state.	Modifying other properties of the VPC endpoint service in the current state is not supported.	Enter a valid request body.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.3046	The IP address conflicted with an existing endpoint service.	The IP address conflicted with that of an existing VPC endpoint service.	Enter a valid request body.
400	EndPoint.3048	Invalid netType.	Invalid **netType**.	Enter a valid **netType**.
400	EndPoint.3048	Invalid netType.	Invalid **netType**.	Enter a valid **netType**.
400	EndPoint.3049	The maximum number of whitelist records has been reached.	The maximum number of whitelist records has been reached.	Delete invalid whitelist records or add an authorized account ID named *.
400	EndPoint.3051	Endpoint service vip port id is invalid.	Invalid **vip port id**.	Enter a valid **vip port id**.
400	EndPoint.3052	portId and ip cannot be modified at the same time.	**portId** and **ip** cannot be modified at the same time.	Enter a valid request body.
400	EndPoint.3053	vipPortId and ip cannot be modified at the same time.	**vipPortId** and **ip** cannot be modified at the same time.	Enter a valid request body.
400	EndPoint.3054	portId or vipPortId cannot be modified.	**portId** or **vipPortId** cannot be modified.	Enter a valid request body.
400	EndPoint.3055	ip cannot be modified.	**ip** cannot be modified.	Enter a valid request body.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.3056	The maximum of VPC endpoint services using the same IP address has been reached.	The maximum number of VPC endpoint services using the same IP address has been reached.	Contact technical support.
400	EndPoint.3057	cidr cannot be modified.	**cidr** cannot be modified.	Enter a valid request body.
400	EndPoint.3058	The domain name is invalid.	Invalid **dns name**.	Enter a valid **dns name**.
400	EndPoint.3059	The domain name already exists.	The domain name already exists.	Contact technical support.
400	EndPoint.3060	You have no permission to add domain names.	You have no permission to add domain names.	Contact technical support.
400	EndPoint.3061	The maximum number of domain names has reached.	The maximum number of domain names has been reached.	Contact technical support.
400	EndPoint.3062	Invalid endpoint service ID.	Invalid VPC endpoint service ID.	Enter a valid VPC endpoint service ID.
400	EndPoint.3063	Invalid port ID.	Invalid port ID.	Enter a valid port ID.
400	EndPoint.3066	The tag cannot be empty.	The tag cannot be left blank.	Enter a valid request body.
400	EndPoint.3067	The tag key cannot be duplicated.	The tag key must be unique.	Enter a valid request body.
400	EndPoint.3068	Tag keys and values should meet relevant requirements.	Tag keys and values must meet relevant requirements.	Enter a valid request body.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.3069	The maximum number of tags has been reached.	The maximum number of tags has been reached.	Contact technical support.
400	EndPoint.3070	Invalid resource type.	Incorrect resource type.	Contact technical support.
400	EndPoint.3071	The tag value cannot be duplicated.	Tag values must be unique.	Contact technical support.
400	EndPoint.3072	The tag key size is invalid.	Invalid tag key length.	Enter a valid tag key.
400	EndPoint.3073	The tag value size is invalid.	Invalid tag value length.	Enter a valid tag value.
400	EndPoint.3074	The maximum of ports has been reached.	The maximum number of port mappings has been reached.	Contact technical support.
400	EndPoint.3075	The protocol is invalid.	Invalid protocol.	Contact technical support.
400	EndPoint.3076	Invalid service name.	Invalid service name.	Enter a valid service name.
400	EndPoint.4001	Failed to query the subnet.	Failed to query the subnet.	Contact technical support.
400	EndPoint.4002	Failed to create a subnet.	Failed to create the subnet.	Contact technical support.
400	EndPoint.4003	Failed to delete the subnet.	Failed to delete the subnet.	Contact technical support.
400	EndPoint.4005	Failed to query the network.	Failed to query the network.	Contact technical support.
400	EndPoint.4006	Failed to create a network.	Failed to create the network.	Contact technical support.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.4007	Failed to delete the network.	Failed to delete the network.	Contact technical support.
400	EndPoint.4009	Failed to query the port.	Failed to query the port.	Contact technical support.
400	EndPoint.4010	Failed to create a port.	Failed to create the port.	Contact technical support.
400	EndPoint.4011	Failed to delete the port.	Failed to delete the port.	Contact technical support.
400	EndPoint.4013	Failed to query the proxy.	Failed to query the proxy.	Contact technical support.
400	EndPoint.4014	Failed to query the router.	Failed to query the route.	Contact technical support.
400	EndPoint.4015	The router is not found.	The route is not found.	Contact technical support.
400	EndPoint.4016	Failed to add an interface router.	Failed to add the interface route.	Contact technical support.
400	EndPoint.4017	Failed to delete the interface router.	Failed to delete the interface route.	Contact technical support.
400	EndPoint.4018	Failed to add an extension router.	Failed to add the extended route.	Contact technical support.
400	EndPoint.4019	Failed to delete the extension router.	Failed to delete the extended route.	Contact technical support.
400	EndPoint.4020	Failed to query Neutron L3 Agent.	Failed to query Neutron L3 Agent.	Contact technical support.

Status Code	Error Code	Error Message	Description	Solution
400	EndPoint.4025	The specification is being used.	The specifications are being used.	Contact technical support.
400	EndPoint.4026	Failed to query the default route table of the VPC.	Failed to query the default route table of the VPC.	Contact technical support.
400	EndPoint.4027	Failed to query route tables of the VPC.	Failed to query route tables of the VPC.	Contact technical support.
400	EndPoint.4028	Failed to add routes to the VPC's route table.	Failed to add routes to the VPC's route table.	Contact technical support.
400	EndPoint.4029	Failed to remove routes from the VPC's route table.	Failed to remove routes from the VPC's route table.	Contact technical support.
401	EndPoint.0003	Authentication failed or authentication information is invalid.	Authentication failed or authentication information is invalid.	Check whether the permissions are enabled.
403	EndPoint.0004	Authentication information is incorrect or you have no permissions.	Authentication information is incorrect or you have no permissions.	Check whether the permissions are enabled.
404	EndPoint.0005	The requested resource is unavailable.	The requested resource is unavailable.	Check whether the input parameters are valid.
404	EndPoint.2006	The requested endpoint does not exist.	The requested VPC endpoint does not exist.	Enter a valid VPC endpoint.

Status Code	Error Code	Error Message	Description	Solution
404	EndPoint.2007	The endpoint information does not exist.	The VPC endpoint information does not exist.	Enter a valid VPC endpoint and check whether the VPC endpoint is deleted.
404	EndPoint.2008	The endpoint has been deleted.	The VPC endpoint has been deleted.	Check whether the VPC endpoint is deleted.
404	EndPoint.2030	markerId is empty.	**markerId** is left blank.	Enter a valid marker ID.
404	EndPoint.4004	The subnet is not found.	The subnet does not exist.	Check the entered subnet ID. If the fault persists, contact technical support.
404	EndPoint.4008	Network is unavailable.	Network is unavailable.	Contact technical support.
404	EndPoint.4012	The port is not found.	The port does not exist.	Contact technical support.
404	EndPoint.4021	Neutron L3 Agent is not found.	Neutron L3 Agent is not found.	Contact technical support.
404	EndPoint.4030	The route table is not found.	The route table does not exist.	Contact technical support.
500	EndPoint.0001	System error. Please retry.	System error. Please retry.	Try again. If the fault persists, contact technical support.
504	EndPoint.0011	The request body is null.	The request body is left blank.	Enter a valid request body.
504	EndPoint.0012	The request header is null.	The request header is left blank.	Enter a request header.
504	EndPoint.0013	The request timed out.	The request timed out.	Contact technical support if the problem persists after a retry.

6.3 Obtaining a Project ID

Scenarios

A project ID is required for some URLs when an API is called. Therefore, you need to obtain a project ID in advance. Two methods are available:

- **Obtain the Project ID by Calling an API**
- **Obtain the Project ID from the Console**

Obtain the Project ID by Calling an API

You can obtain a project ID by calling the API used to **query projects based on specified criteria**.

The API used to obtain a project ID is GET https://{Endpoint}/v3/projects. {Endpoint} is the IAM endpoint and can be obtained from Regions and Endpoints. For details about API authentication, see **Authentication**.

The following is an example response. The value of **id** is the project ID.

```
{
    "projects": [
        {
            "domain_id": "65382450e8f64ac0870cd180d14e684b",
            "is_domain": false,
            "parent_id": "65382450e8f64ac0870cd180d14e684b",
            "name": "project_name",
            "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"
    }
}
```

Obtain a Project ID from the Console

To obtain a project ID from the console, perform the following operations:

1. Log in to the management console.
2. Click the username and select **My Credentials** from the drop-down list.
   On the **API Credentials** page, view the project ID in the project list.

A Change History

Released On	Description
2022-09-30	This issue is the first official release.