# VPC Endpoint

# User Guide

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# 1 VPC Endpoint Services

## 1.1 VPC Endpoint Service Overview

A VPC endpoint service is a cloud service or a private service that can be accessed through a VPC endpoint.

There are two types of VPC endpoint services: gateway and interface.

- Gateway VPC endpoint services are created only for cloud services.
- Interface VPC endpoint services can be created for both cloud services and your private services. All VPC endpoint services for cloud services are created by default while those for private services need to be created by users themselves.

NOTE

Supported cloud services vary in different regions. For details, see the list of services that can be configured on the management console.

Only in the LA-Mexico City1, LA-Sao Paulo1, and LA-Santiago regions, can OBS be configured as a gateway VPC endpoint service.

This section describes how to configure a VPC endpoint service (interface type) from your private service and how to manage it.

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**Table 1-1** Management of VPC endpoint services

| Operation | Description | Constraint |
| --- | --- | --- |
| **Creating a VPC Endpoint Service** | Describes how to configure a private service as a VPC endpoint service. | • VPC endpoint services are region-level resources. Select a region and project when you create such a service.<br>• Each tenant can create a maximum of 20 VPC endpoint services.<br>• The following private services can be configured into VPC endpoint services:<br>– **Elastic load balancer**: Backend resources of this type suit services that receive high access traffic and demand high reliability and disaster recovery (DR) performance.<br>– **ECS**: Backend resources of this type serve as servers.<br>– **BMS**: Backend resources of this type serve as servers.<br>• One VPC endpoint service corresponds to only one backend resource. |
| **Viewing Summary of a VPC Endpoint Service** | Describes how to query details of a VPC endpoint service. | None |
| **Deleting a VPC Endpoint Service** | Describes how to delete a VPC endpoint service. | • Deleted VPC endpoint services cannot be recovered. Exercise caution when performing this operation.<br>• Only VPC endpoint services configured from users' private services can be deleted.<br>• VPC endpoint services in the **Accepted** or **Creating** state cannot be deleted. |

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| Operation | Description | Constraint |
| --- | --- | --- |
| Managing Connections of a VPC Endpoint Service | Describes how to set connection approval of a VPC endpoint service to determine whether to allow a VPC endpoint to connect to the VPC endpoint service. | You can specify whether to allow a VPC endpoint to connect to a VPC endpoint service only when connection approval is enabled during VPC endpoint service creation. |
| Managing Whitelist Records of a VPC Endpoint Service | Describes how to manage whitelist records of a VPC endpoint service to control across-account access between a VPC endpoint and a VPC endpoint service. | • The VPC endpoint must be in the same region as the VPC endpoint service.<br>• Before you configure the whitelist for a VPC endpoint service, obtain the account ID of the associated VPC endpoint. |
| Viewing Port Mappings of a VPC Endpoint Service | Describes how to view the port mapping between a VPC endpoint and a VPC endpoint service, including the supported protocol, service port, and terminal port. | • Configuring a port mapping is required when you create a VPC endpoint service.<br>• After a VPC endpoint service is created, you can view its port mappings but cannot modify them. |
| Managing Tags of a VPC Endpoint Service | Describes how to manage VPC endpoint service tags, including viewing, adding, editing, and deleting tags. | A maximum of 10 tags can be added to each VPC endpoint service. |

# 1.2 Creating a VPC Endpoint Service

## Scenarios

There are two types of VPC endpoint services: gateway and interface.

- Gateway VPC endpoint services are created only for cloud services.
- Interface VPC endpoint services can be created for both cloud services and your private services. All VPC endpoint services for cloud services are created by default while those for private services need to be created by users themselves.

This section describes how to configure a private service into an interface VPC endpoint service.

## Constraints

- VPC endpoint services are region-level resources. Select a region and project when you create such a service.
- Each tenant can create a maximum of 20 VPC endpoint services.


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- The following private services can be configured into VPC endpoint services:
  - **Elastic load balancer**: Backend resources of this type suit services that receive high access traffic and demand high reliability and disaster recovery (DR) performance.
  - **ECS**: Backend resources of this type serve as servers.
  - **BMS**: Backend resources of this type serve as servers.
- One VPC endpoint service corresponds to only one backend resource.

## Prerequisites

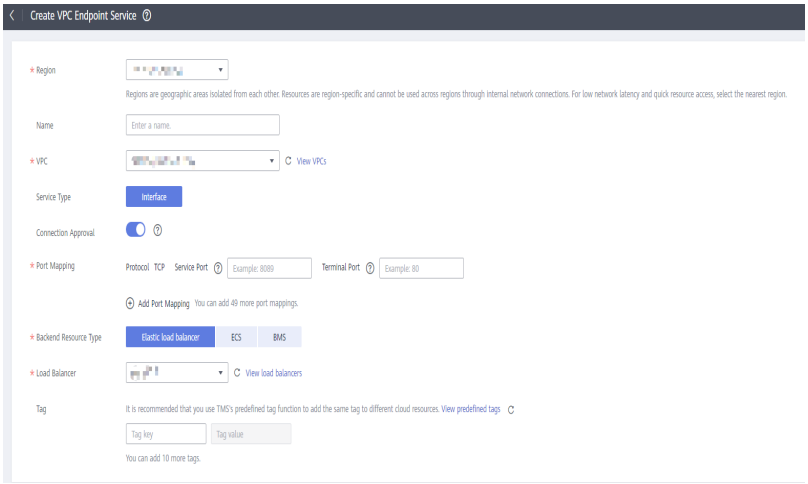
There are available backend resources in the same VPC.

## Procedure

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**, and click **Create VPC Endpoint Service**.

   The **Create VPC Endpoint Service** page is displayed.

   **Figure 1-1** Create VPC Endpoint Service

5. Configure parameters by referring to **Table 1-2**.

   **Table 1-2** Required parameters

| Parameter | Description |
| --- | --- |
| Region | Specifies the region where the VPC endpoint service is deployed.<br>Resources in different regions cannot communicate with each other over internal networks. Select the nearest region for lower network latency and faster access to resources. |

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| Parameter | Description |
| --- | --- |
| Name | This parameter is optional.<br>Specifies the name of the VPC endpoint service.<br>The name can contain a maximum of 16 characters, including letters, digits, underscores (_), and hyphens (-).<br>• If you do not enter a name, the system automatically generates a name in the *region.service_id* format<br>• If you enter a name, the system automatically generates a name in the *region.Name.service_id* format |
| VPC | Specifies the VPC where the VPC endpoint service is deployed. |
| Service Type | Specifies the type of the VPC endpoint service. The type can only be **Interface**. |
| Connection Approval | Specifies whether the connection between a VPC endpoint and a VPC endpoint service requires approval from the owner of the VPC endpoint service.<br>You can determine whether to enable or disable the connection approval.<br>If connection approval is enabled, any VPC endpoint for connecting to the VPC endpoint service needs to be approved. For details, see **Managing Connections of a VPC Endpoint Service**. |
| Port Mapping | Specifies the protocol and ports used for communications between the VPC endpoint service and VPC endpoint. The protocol is TCP.<br>• **Service Port**: A service port is provided by the backend service bound to the endpoint service.<br>• **Terminal Port**: A terminal port is provided by the VPC endpoint, allowing you to access the VPC endpoint service.<br>The service and terminal port numbers range from **1** to **65535**. A maximum of 50 port mappings can be added at a time.<br>**NOTE**<br>Accessing a VPC endpoint service from a VPC endpoint is to access the service port from the associated terminal port. |


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| Parameter | Description |
| --- | --- |
| Backend Resource Type | Specifies the type of the backend resource that provides services to be accessed.<br>The following backend resources are supported:<br>• **Elastic load balancer**: Backend resources of this type suit services that receive high access traffic and demand high reliability and disaster recovery (DR) performance.<br>• **ECS**: Backend resources of this type serve as servers.<br>• **BMS**: Backend resources of this type serve as servers.<br>Example: **Elastic load balancer**<br>**NOTE**<br>For the security group associated with the backend resource configured for the VPC endpoint service, add an inbound rule, with the source IP address set to 198.19.0.0/16. For details, see **Adding a Security Group Rule** in the *Virtual Private Cloud User Guide*. |
| Load Balancer | When **Backend Resource Type** is set to **Elastic load balancer**, select the load balancer that provides services from the drop-down list.<br>**NOTE**<br>If an elastic load balancer is used as the backend resource, the source IP address received by the VPC endpoint service is not the real address of the client. |
| ECS List | When **Backend Resource Type** is set to **ECS**, select the ECS that provides services from the ECS list. |
| BMS List | When **Backend Resource Type** is set to **BMS**, select the BMS that provides services from the BMS list. |
| Tag | This parameter is optional.<br>Specifies the VPC endpoint service tag, which consists of a key and a value. You can add a maximum of 10 tags to each VPC endpoint service.<br>Tag keys and values must meet requirements listed in **Table 1-3**.<br>**NOTE**<br>If a predefined tag has been created on TMS, you can directly select the corresponding tag key and value.<br>For details about predefined tags, see **Predefined Tag Overview**. |
| Description | Supplementary information about the VPC endpoint service. |


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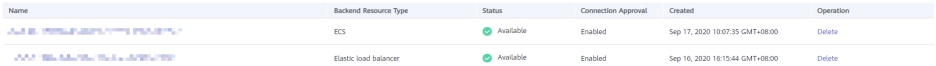
**Table 1-3** Tag requirements for VPC endpoint services

| Parameter | Requirement |
| --- | --- |
| Tag key | • Cannot be left blank.<br>• Must be unique for each resource.<br>• Can contain a maximum of 36 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |
| Tag value | • Cannot be left blank.<br>• Can contain a maximum of 43 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |

6. Click **Create Now**.
7. Click **Back to VPC Endpoint Service List** to view the newly-created VPC endpoint service.

**Figure 1-2** VPC endpoint service list




# 1.3 Viewing Summary of a VPC Endpoint Service

## Scenarios

This section describes how to query summary of a VPC endpoint service, including the name, ID, backend resource type, backend resource name, VPC, status, connection approval, service type, and creation time.

## Procedure

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.

   Locate the target VPC endpoint service by entering a filter in the search box in the upper right corner:

   – Search by name or ID.

      i. Select **Name** or **ID** in the filter box.

      ii. Enter a keyword in the search box.

      iii. Click  to start the search.

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VPC endpoint services containing the keyword are displayed in the list.

- Search by preset tag.

  i. Click in **Search by Tag**.

  ii. Enter a tag and a value.

  Enter a key or value or select a key or value from the drop-down list.

  You can use a maximum of 10 tags to search for a VPC endpoint service.

  iii. Click **Search**.

  The VPC endpoint service containing the specified tag is displayed in the list.

  If you set multiple tags, VPC endpoint services containing all the specified tags will be displayed.

5. In the VPC endpoint service list, locate the target VPC endpoint service and click its name to view the details.

**Figure 1-3** Summary of the VPC endpoint service

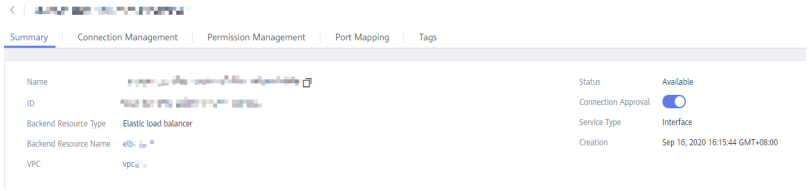


Table 1-4 describes the parameters displayed on the VPC endpoint service details page.

**Table 1-4** Parameter description

| Tab | Parameter | Description |
| --- | --- | --- |
| Summary | Name | Specifies the name of the VPC endpoint service. |
| | ID | Specifies the ID of the VPC endpoint service. |
| | Backend Resource Type | Specifies the type of the backend resource that provides services. |
| | Backend Resource Name | Specifies the name of the backend resource that provides services to be accessed. |
| | VPC | Specifies the region where the VPC endpoint service is deployed. |
| | Status | Specifies the status of the VPC endpoint service. |

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| Tab | Parameter | Description |
| --- | --- | --- |
| | Connection Approval | Specifies whether connection approval is required. |
| | Service Type | Specifies the type of the VPC endpoint service. |
| | Creation | Specifies the creation time of the VPC endpoint service. |
| Connection Management | VPC Endpoint ID | Specifies the ID of the VPC endpoint. |
| | Packet ID | Specifies the identifier of the VPC endpoint ID. |
| | Status | Specifies the status of the VPC endpoint.<br>For details about statuses of a VPC endpoint, see **What Are Statuses of VPC Endpoint Services and VPC Endpoints?** |
| | Owner | Specifies the account ID of the VPC endpoint owner. |
| | Creation | Specifies the creation time of the VPC endpoint. |
| | Operation | Specifies whether to allow a VPC endpoint to connect to a VPC endpoint service. The option can be **Accept** or **Reject**. |
| Permission Management | Authorized Account ID | Specifies the authorized account ID for connecting to the VPC endpoint. The ID can also be *.<br>If you add an asterisk (*) to the whitelist, it means that all users can access the VPC endpoint service. |
| | Operation | Specifies whether to delete an authorized account from the whitelist. |
| Port Mapping | Protocol | Specifies the protocol used for communications between the VPC endpoint service and VPC endpoint. |
| | Service Port | Specifies the port provided by the backend service bound to the VPC endpoint service. |

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| Tab | Parameter | Description |
| --- | --- | --- |
| | Terminal Port | Specifies the port provided by the VPC endpoint, allowing you to access the VPC endpoint service. |
| Tag | Key | Specifies the tag key of the VPC endpoint service. |
| | Value | Specifies the tag value of the VPC endpoint service. |
| | Operation | Specifies the operation to be performed on the VPC endpoint service tag, for example, you can select **Edit** or **Delete**. |

# 1.4 Deleting a VPC Endpoint Service

## Scenarios

This section describes how to delete a VPC endpoint service.

NOTE

Deleted VPC endpoint services cannot be recovered. Exercise caution when performing this operation.

## Constraints

- The VPC endpoint services configured from your private services can be deleted, but those configured by the system cannot.
- Any VPC endpoint service that has VPC endpoints in **Accepted** or **Creating** status cannot be deleted.

  For statuses of a VPC endpoint, see **What Are Statuses of VPC Endpoint Services and VPC Endpoints?**

## Procedure

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.
5. In the VPC endpoint service list, locate the target VPC endpoint service and click **Delete** in the **Operation** column.

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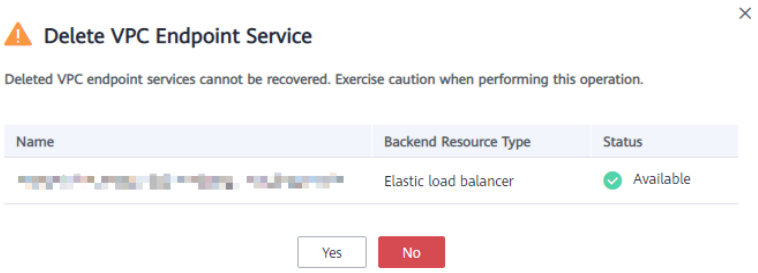
**Figure 1-4** Delete VPC Endpoint Service




6. Click **Yes**.

# 1.5 Managing Connections of a VPC Endpoint Service

## Scenarios

To connect a VPC endpoint to a VPC endpoint service that has connection approval enabled, obtain the approval from the owner of the endpoint service.

This section describes how to accept or reject connection of a VPC endpoint.

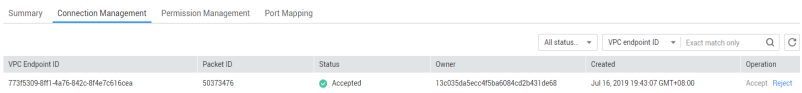
## Prerequisites

There is a VPC endpoint available for connecting to the target VPC endpoint service.

## Procedure

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.
5. In the VPC endpoint service list, locate the target VPC endpoint service and click its name.
6. Select the **Connection Management** tab.

**Figure 1-5** Connection Management




7. Accept or reject connection of a VPC endpoint in the list based on service requirements.
   - If you click **Accept**, the VPC endpoint can connect to the VPC endpoint service.
   - If you click **Reject**, the VPC endpoint cannot connect to the VPC endpoint service.

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# 1.6 Managing Whitelist Records of a VPC Endpoint Service

## Scenarios

Permission management controls the access of a VPC endpoint in one account to a VPC endpoint service in another.

After a VPC endpoint service is created, you can add an authorized account ID to or delete it from the whitelist of the endpoint service.

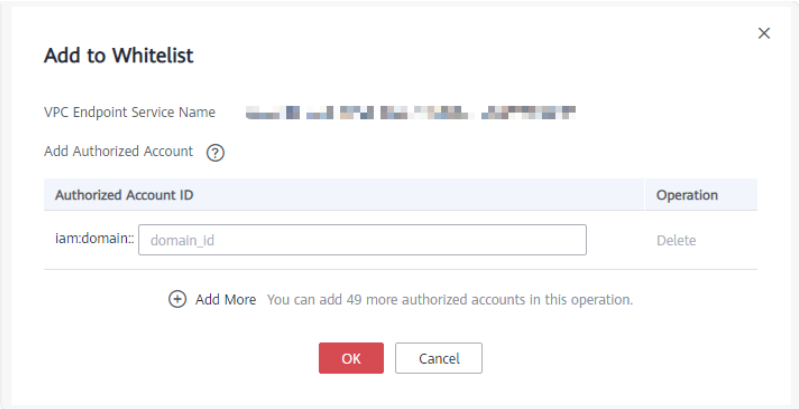
- If the whitelist is empty, access from a VPC endpoint in another account is not allowed.
- If an authorized account ID is already in the whitelist, you can use this account to create a VPC endpoint for connecting to the VPC endpoint service.
- If an authorized account ID is not in the whitelist, you cannot use this account to create a VPC endpoint for connecting to the VPC endpoint service.

This section describes how to add or delete a whitelist record for a VPC endpoint service.

## Add a Whitelist Record

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.
5. In the VPC endpoint service list, locate the target VPC endpoint service and click its name.
6. On the displayed page, select the **Permission Management** tab and click **Add to Whitelist**.
7. Enter an authorized account ID in the required format and click **OK**.

**Figure 1-6** Add to Whitelist

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NOTE

- Your account is in the whitelist of your VPC endpoint service by default.
- *domain_id* indicates the ID of the authorized account, for example, **1564ec50ef2a47c791ea5536353ed4b9**
- Adding * to the whitelist means that all users can access the VPC endpoint service.

### Delete a Whitelist Record

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.
5. In the VPC endpoint service list, locate the target VPC endpoint service and click its name.
6. On the displayed page, select the **Permission Management** tab, locate the target account ID, and click **Delete** in the **Operation** column.

   To delete multiple whitelist records, select all the target account IDs and click **Delete** in the upper left corner.
7. Click **Yes**.

## 1.7 Viewing Port Mappings of a VPC Endpoint Service

### Scenarios

After a VPC endpoint service is created, you can view the added port mappings.

A port mapping defines the protocol and ports used for communications between a VPC endpoint and a VPC endpoint service.

- Protocol: A protocol both supported by the VPC endpoint and VPC endpoint service
- Service Port: A service port is provided by the backend service bound to the endpoint service.
- Terminal Port: A terminal port is provided by the VPC endpoint, allowing you to access the VPC endpoint service.

### Procedure

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.
5. In the VPC endpoint service list, locate the target VPC endpoint service and click its name.

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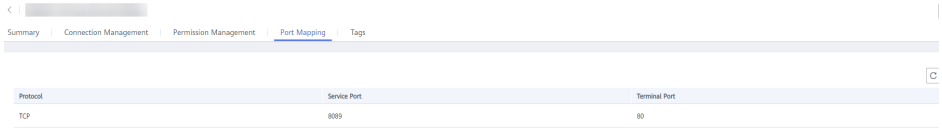
6. On the displayed page, select the **Port Mapping** tab.
   The port mapping configured for the VPC endpoint service is displayed.

   **Figure 1-7** Port Mapping




# 1.8 Managing Tags of a VPC Endpoint Service

## Scenarios

After a VPC endpoint service is created, you can view its tags or add, edit or delete a tag.

A tag is a unique identifier of each VPC endpoint service, and it consists of a tag key and a tag value. You can add a maximum of 10 tags to each VPC endpoint service.

**NOTE**

If a predefined tag has been created on TMS, you can directly select the corresponding tag key and value.

For details about predefined tags, see **Predefined Tag Overview**.

## Add a Tag

Perform the following operations to add a tag for an existing VPC endpoint service:

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.
5. In the VPC endpoint service list, locate the target VPC endpoint service and click its name.
6. On the displayed page, select the **Tags** tab.
7. Click **Add Tag**.
8. In the displayed dialog box, enter a key and a value.
   **Table 1-5** describes the required parameters.

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**Table 1-5** Tag requirements for VPC endpoint services

| Parameter | Requirement |
| --- | --- |
| Tag key | • Cannot be left blank.<br>• Must be unique for each resource.<br>• Can contain a maximum of 36 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |
| Tag value | • Cannot be left blank.<br>• Can contain a maximum of 43 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |

9. Click **OK**.

## Edit a Tag

Perform the following operations to edit a tag of an existing VPC endpoint service:

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.
5. In the VPC endpoint service list, locate the target VPC endpoint service and click its name.
6. On the displayed page, select the **Tags** tab.
7. In the tag list, locate the target tag and click **Edit** in the **Operation** column.
8. Enter a new value.

   NOTE

   You can only edit values of exiting tags.
9. Click **OK**.

## Delete a Tag

Perform the following operations to delete a tag of an existing VPC endpoint service:

CAUTION

Deleted tags cannot be recovered. Exercise caution when performing this operation.

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1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoint Services**.
5. In the VPC endpoint service list, locate the target VPC endpoint service and click its name.
6. On the displayed page, select the **Tags** tab.
7. In the tag list, locate the target tag and click **Delete** in the **Operation** column.
8. Click **Yes**.

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# 2 VPC Endpoints

## 2.1 VPC Endpoint Overview

VPC endpoints are secure and private channels for connecting VPCs to VPC endpoint services.

You can buy a VPC endpoint to connect a resource in your VPC to a VPC endpoint service in another VPC of the same region.

This section describes how to buy and manage a VPC endpoint.

**Table 2-1** Management of VPC endpoints

| Operation | Description | Constraint |
| --- | --- | --- |
| **Buying a VPC Endpoint** | Describes how to buy a VPC endpoint. | • VPC endpoints are region-level resources. Select a region and project when you create such an endpoint.<br>• Each tenant can buy a maximum of 50 VPC endpoints.<br>• When you buy a VPC endpoint, ensure that the associated VPC endpoint service exists and is in the same region as the VPC endpoint.<br>• VPC endpoints are billed based on the subscription duration. |
| **Querying and Accessing a VPC Endpoint** | Describes how to query summary of a VPC endpoint. | A VPC endpoint supports a maximum of 3000 concurrent requests. |

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| Operation | Description | Constraint |
| --- | --- | --- |
| Deleting a VPC Endpoint | Describes how to delete a VPC endpoint. | Deleted VPC endpoints cannot be recovered. Exercise caution when performing this operation. |
| Configuring Access Control for a VPC Endpoint | Describes how to enable access control for a VPC endpoint and configure a whitelist of IP addresses that are allowed to access the VPC endpoint. | • Only the VPC endpoints for connecting to interface VPC endpoint services support access control.<br>• If access control is disabled, all IP addresses can access the VPC endpoint.<br>• A maximum of 60 whitelist records can be added. |
| Managing Tags of a VPC Endpoint | Describes how to manage VPC endpoint tags, including viewing, adding, editing, and deleting tags. | A maximum of 10 tags can be added to each VPC endpoint. |

# 2.2 Buying a VPC Endpoint

## Scenarios

VPC endpoints are secure and private channels for connecting VPCs to VPC endpoint services.

You can buy a VPC endpoint to connect a resource in your VPC to a VPC endpoint service in another VPC of the same region.

A VPC endpoint comes with a VPC endpoint service. VPC endpoints vary depending on the type of the VPC endpoint services that they can access:

- VPC endpoints for accessing interface VPC endpoint services are elastic network interfaces that have private IP addresses.
- VPC endpoints for accessing gateway VPC endpoint services are gateways, with routes configured to distribute traffic to the associated VPC endpoint services.

NOTE

VPC endpoints for accessing gateway VPC endpoint services can be purchased only in regions LA-Mexico City1, LA-Sao Paulo1, and LA-Santiago.

You can buy different types of VPC endpoints based the types of associated VPC endpoint services:

- Buying a VPC Endpoint for Accessing Interface VPC Endpoint Services
- Buying a VPC Endpoint for Accessing Gateway VPC Endpoint Services

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## Buying a VPC Endpoint for Accessing Interface VPC Endpoint Services

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. On the displayed page, click **Buy VPC Endpoint**.
5. On the **Buy VPC Endpoint** page, configure the parameters.

**Figure 2-1** Buy VPC Endpoint (**Service Category** set to **Cloud service**)

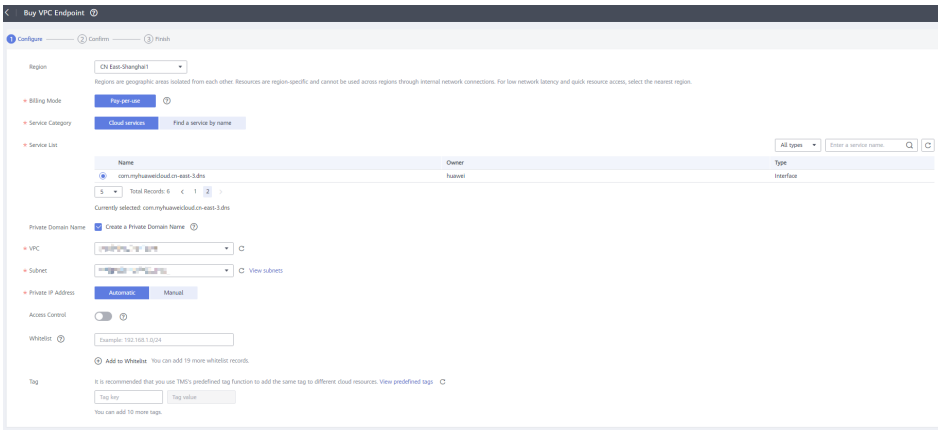


**Figure 2-2** Buy VPC Endpoint (**Service Category** set to **Find a service by name**)

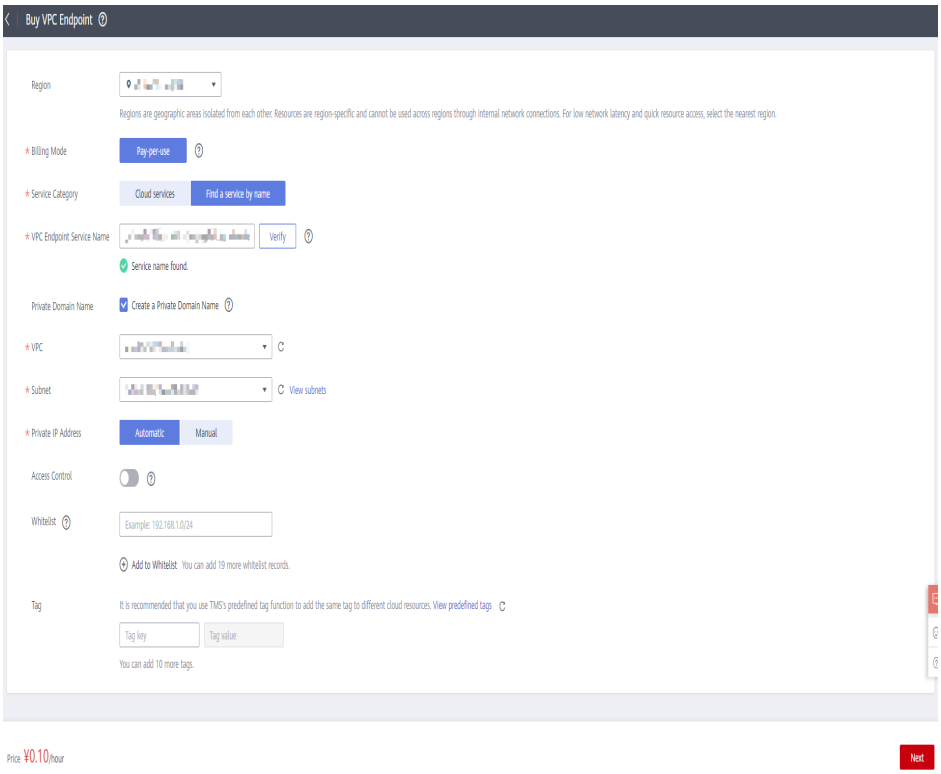


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**Table 2-2** Required parameters

| Parameter | Description |
| --- | --- |
| Region | Specifies the region where the VPC endpoint is located. Resources in different regions cannot communicate with each other over internal networks. Select the nearest region for lower network latency and faster access to resources. |
| Billing Mode | Specifies the billing method of the VPC endpoint. VPC endpoints can be enabled or deleted at any time.<br>VPC endpoints support only pay-per-use billing. |
| Service Category | There are two options as follows:<br>• **Cloud services**: Select this value if the target VPC endpoint service is a cloud service.<br>• **Find a service by name**: Select this value if the target VPC endpoint service is a private service of your own. |
| Service List | This parameter is available only when you select **Cloud services** for **Service Category**.<br>The VPC endpoint service has been created by operations people and you can use it without having to perform the creation operation. |
| VPC Endpoint Service Name | This parameter is available only when you select **Find a service by name** for **Service Category**.<br>In the VPC endpoint service list, locate the target VPC endpoint service, copy its name in the **Name** column, paste it into the **VPC Endpoint Service Name** text box, and click **Verify**.<br>• If **Service name found** is displayed, proceed with subsequent operations.<br>• If **Service name not found** is displayed, check whether the region is the same as that of the connected VPC endpoint service or whether the entered service name is correct. |
| Private Domain Name | If you want to access a VPC endpoint using a domain name, select **Create a Private Domain Name** when creating a VPC endpoint. After the VPC endpoint is created, you can access it using the domain name.<br>This parameter is only configured for interface VPC endpoints.<br>• For the gateway type, this parameter is unavailable.<br>• For the interface type, this parameter is optional. |
| VPC | Specifies the VPC where the VPC endpoint is deployed. |
| Subnet | This parameter is available when you want to access an interface endpoint service.<br>Specifies the subnet where the VPC endpoint is located. |


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| Parameter | Description |
| --- | --- |
| Private IP Address | This parameter is available when you want to access an interface endpoint service.<br>Specifies the private IP address of the VPC endpoint. You can select **Automatic** or **Manual**. |
| Access Control | This parameter is available when you want to access an interface endpoint service.<br>It controls IP addresses allowed to access the VPC endpoint.<br>• If access control is enabled, only IP addresses in the whitelist are allowed to access the VPC endpoint.<br>• If access control is disabled, all IP addresses are allowed to access the VPC endpoint. |
| Whitelist | This parameter is available when you want to access an interface endpoint service and **Access Control** is enabled.<br>Lists the IP addresses or CIDR blocks that are allowed to access the VPC endpoint. You can add a maximum of 20 records.<br>0.0.0.0 and CIDR blocks in x.x.x.x/0 format are not supported. |
| Tag | This parameter is optional.<br>Specifies the VPC endpoint tag, which consists of a key and a value. You can add a maximum of 10 tags to each VPC endpoint.<br>Tag keys and values must meet requirements listed in **Table 2-3**.<br>**NOTE**<br>If a predefined tag has been created on TMS, you can directly select the corresponding tag key and value.<br>For details about predefined tags, see **Predefined Tag Overview**. |

**Table 2-3** Tag requirements for VPC endpoints

| Parameter | Requirement |
| --- | --- |
| Tag key | • Cannot be left blank.<br>• Must be unique for each resource.<br>• Can contain a maximum of 36 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |


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| Parameter | Requirement |
| --- | --- |
| Tag value | • Cannot be left blank.<br>• Can contain a maximum of 43 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |

6. Confirm the specifications and click **Next**.
   - If all of the specifications are correct, click **Submit**.
   - If any of the specifications are incorrect, click **Previous** to return to the previous page and modify the parameters as needed, and click **Submit**.

## Buying a VPC Endpoint for Accessing Gateway VPC Endpoint Services

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. On the displayed page, click **Buy VPC Endpoint**.
5. On the **Buy VPC Endpoint** page, configure the parameters.

**Figure 2-3** Buy VPC Endpoint (**Service Category** set to **Cloud service**)

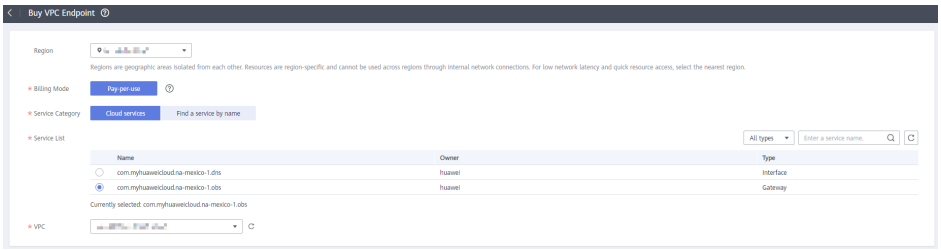


**Table 2-4** Required parameters

| Parameter | Description |
| --- | --- |
| Region | Specifies the region where the VPC endpoint is located. Resources in different regions cannot communicate with each other over internal networks. Select the nearest region for lower network latency and faster access to resources. |
| Billing Mode | Specifies the billing method of the VPC endpoint. VPC endpoints can be enabled or deleted at any time.<br>VPC endpoints support only pay-per-use billing. |
| Service Category | Specifies the type of services that are configured as gateway VPC endpoint services. Only cloud services are supported.<br>Select **Cloud services**. |

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| Parameter | Description |
| --- | --- |
| Service List | This parameter is available only when you select **Cloud services** for **Service Category**.<br>In the VPC endpoint service list, select the VPC endpoint service whose type is gateway.<br>The VPC endpoint service has been created by operations people and you can use it without having to perform the creation operation. |
| VPC | Specifies the VPC where the VPC endpoint is deployed. |
| Route Table | This parameter is available only when you create a VPC endpoint for connecting to a gateway VPC endpoint service.<br>**NOTE**<br>This parameter is available only in the regions where the route table function is enabled.<br>Select a route table required for the VPC where the VPC endpoint is located.<br>For details about how to add a route, see **Adding a Custom Route** in the *Virtual Private Cloud User Guide*. |
| Tag | This parameter is optional.<br>Specifies the VPC endpoint tag, which consists of a key and a value. You can add a maximum of 10 tags to each VPC endpoint.<br>Tag keys and values must meet requirements listed in **Table 2-5**.<br>**NOTE**<br>If a predefined tag has been created on TMS, you can directly select the corresponding tag key and value.<br>For details about predefined tags, see **Predefined Tag Overview**. |

**Table 2-5** Tag requirements for VPC endpoints

| Parameter | Requirement |
| --- | --- |
| Tag key | • Cannot be left blank.<br>• Must be unique for each resource.<br>• Can contain a maximum of 36 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |
| Tag value | • Cannot be left blank.<br>• Can contain a maximum of 43 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |


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6. Confirm the specifications and click **Next**.
   - If all of the specifications are correct, click **Submit**.
   - If any of the specifications are incorrect, click **Previous** to return to the previous page and modify the parameters as needed, and click **Submit**.

# 2.3 Querying and Accessing a VPC Endpoint

## Scenarios

After a VPC endpoint is bought, you can query its details and access it.

## Querying a VPC Endpoint

Perform the following operations to query details about a VPC endpoint, including the ID, associated VPC endpoint service name, VPC, and status.

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.

   On the displayed page, locate the target VPC endpoint by entering a keyword in the search box in the upper right corner:
   - Search by VPC endpoint service name or VPC endpoint ID.
     i. Select **VPC endpoint service name** or **ID** in the filter box.
     ii. Enter a keyword in the search box.
     iii. Click  to start the search.

     VPC endpoints containing the keyword are displayed in the VPC endpoint list.
   - Search by preset tag.
     i. Click  in **Search by Tag**.
     ii. Enter a tag and a value.

     Enter a key or value or select a key or value from the drop-down list.

     You can use a maximum of 10 tags to search for a VPC endpoint.
     iii. Click **Search**.

     VPC endpoints containing the specified tag are displayed in the VPC endpoint list.

     If you set multiple tags, VPC endpoints containing all the specified tags will be displayed.
4. In the VPC endpoint list, click the ID of the target VPC endpoint to view its details.

   After an interface VPC endpoint is created, a private IP address is assigned together with a private domain name if you select **Create a Private Domain Name**.

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**Figure 2-4** Summary of the VPC endpoint (for accessing an interface VPC endpoint service)

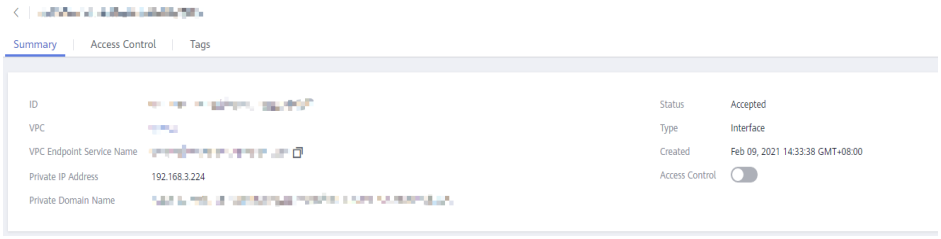


**Figure 2-5** Summary of the VPC endpoint (for accessing a gateway VPC endpoint service)

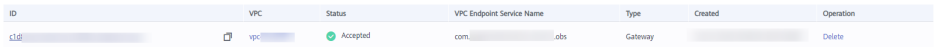


**Table 2-6** Parameter description

| Tab | Parameter | Description |
| --- | --- | --- |
| Summary | ID | Specifies the ID of the VPC endpoint. |
| | VPC | Specifies the region where the VPC endpoint is deployed. |
| | VPC Endpoint Service Name | Specifies the name of the VPC endpoint service that the VPC endpoint is used to access. |
| | Private IP Address | Specifies the IP address for accessing the VPC endpoint. |
| | Private Domain Name | Specifies the private domain name for accessing the VPC endpoint. |
| | Status | Specifies the status of the VPC endpoint. |
| | Type | Specifies the type of the VPC endpoint service that the VPC endpoint is used to access. |
| | Created | Specifies the creation time of the VPC endpoint. |

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| Tab | Parameter | Description |
| --- | --- | --- |
| | Access Control | Specifies whether the whitelist is enabled for IP addresses to access this VPC endpoint.<br>• If access control is enabled, only IP addresses in the whitelist are allowed to access the VPC endpoint.<br>• If access control is disabled, all IP addresses are allowed to access the VPC endpoint.<br>**NOTE**<br>Access control is enabled only for VPC endpoints for connecting to an interface VPC endpoint service. |
| Access Control | IP Address or CIDR Block | Specifies the IP addresses allowed to access the VPC endpoint.<br>**NOTE**<br>The **Access Control** tab is displayed only for the VPC endpoint for connecting to an interface VPC endpoint service. |
| | Operation | Specifies the operation to be performed on whitelist records of the VPC endpoint. Only deletion is supported. |
| Route Table | Name | Specifies the name of the route table.<br>**NOTE**<br>The **Route Tables** tab is displayed only for the VPC endpoint for connecting to a gateway VPC endpoint service in some specific regions. |
| | VPC | Specifies the VPC that the route table belongs to. |
| | Type | Specifies the type of the route table. The type can be **Default** and **Custom**. |
| | Associated Subnets | Number of subnets associated with the route table |

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| Tab | Parameter | Description |
| --- | --- | --- |
| | Operation | Specifies the operation to be performed on the route table. The operation can be **Disassociate** or **Associate**.<br>**NOTE**<br>If a VPC endpoint is associated with only one route table, it cannot be disassociated. |
| Tags | Key | Specifies the tag key of the VPC endpoint. |
| | Value | Specifies the tag value of the VPC endpoint. |
| | Operation | Specifies the operation to be performed on the VPC endpoint tag, for example, you can select **Edit** or **Delete**. |

## Accessing a VPC Endpoint Using a Private IP Address

Perform the following operations to access a VPC endpoint using its private IP address:

1. In the VPC that the VPC endpoint belongs to, log in to the backend resource, for example, an ECS.
2. Select a command based on the backend resource type and run the command to access the VPC endpoint. The command format is as follows:

   *Command Private IP address:Port number*

   The following is a command example:

   **curl** *Private IP address:Port number*

## Accessing a VPC Endpoint (Using a Private Domain Name)

You can access a VPC endpoint using its private domain name if you select **Create a Private Domain Name** when buying the endpoint.

The system automatically creates a private zone for the generated domain name and adds A record set for the private zone to resolve the domain name into the private IP address of the VPC endpoint.

You can view the corresponding private zone and its resolution records on the DNS console.

**Viewing the record set of the private domain name**

1. Log in to the management console.
2. Hover the cursor over  in the upper left corner.In the service list, choose **Networking** > **Domain Name Service**.

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The DNS console is displayed.

3. In the navigation pane, choose **DNS Resolution** > **Private Zones**.

   The **Private Zones** page is displayed.

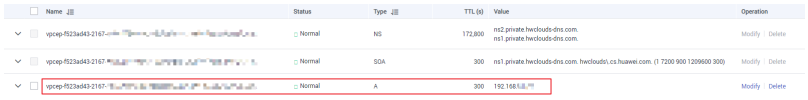
4. In the private zone list, click the name of the target private zone.

   The record set page is displayed.

5. In the record set list, locate the target A record set and view its information.

   When **Status** changes to **Normal**, the resolution takes effect.

**Figure 2-6** Record set of the private domain name




**Accessing a VPC endpoint using a private domain name**

1. In the VPC that the VPC endpoint belongs to, log in to the backend resource, for example, an ECS.
2. Select a command based on the backend resource type and run the command to access the VPC endpoint. The command format is as follows:

   *Command Private domain name:Port number*

   The following is a command example:

   **curl** *Private domain name:Port number*

# 2.4 Deleting a VPC Endpoint

## Scenarios

This section describes how to delete a VPC endpoint.

NOTE

Deleted VPC endpoints cannot be recovered. Exercise caution when performing this operation.

## Procedure

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoints**.
5. In the VPC endpoint list, locate the target VPC endpoint and click **Delete** in the **Operation** column.


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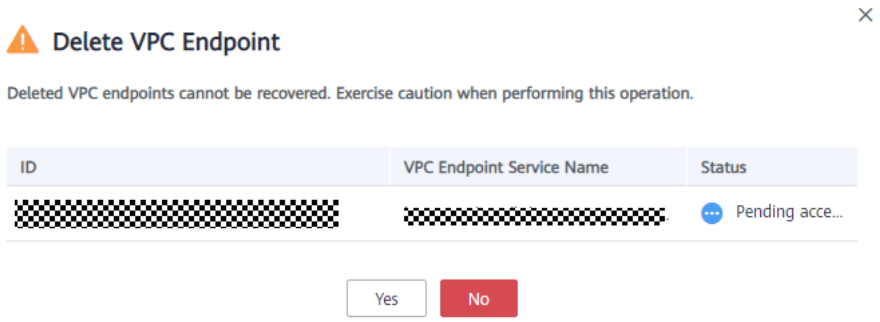
**Figure 2-7** Delete VPC Endpoint




6. Click **Yes**.

# 2.5 Configuring Access Control for a VPC Endpoint

## Scenarios

This section describes how to enable control over IP addresses that can access a VPC endpoint through whitelist configuration. For a new or existing VPC endpoint, you can enable access control, add or delete a whitelist record, or disable access control if you do not need it.

NOTE

- Only the VPC endpoints for connecting to interface VPC endpoint services support access control.
- If access control is disabled, all IP addresses can access the VPC endpoint.

For details about how to configure access control and whitelist, see **Buying a VPC Endpoint**.

This section describes how to enable and configure access control after a VPC endpoint is bought.

## Enable Access Control and Add a Whitelist Record

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the VPC endpoint list, locate the target VPC endpoint and click its ID.
5. On the **Summary** tab page, click the **Access Control** tab.
6. On the **Access Control** page, click **Add to Whitelist**.

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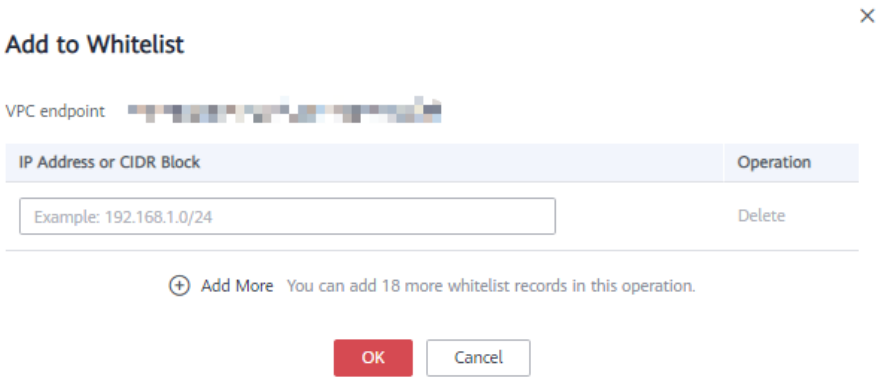
**Figure 2-8** Adding a whitelist record for the VPC endpoint




7. Enter the authorized IP addresses.

   NOTE

   A maximum of 60 whitelist records can be added for each VPC endpoint.

   The asterisk (*) indicates all IP addresses or CIDR blocks can access the endpoint. The current account is added to the whitelist by default.

8. Click **OK**.

## Delete a Whitelist Record

1. Log in to the management console.
2. Click in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the VPC endpoint list, locate the target VPC endpoint and click its ID.
5. Select the **Access Control** tab.
6. In the whitelist, locate the target IP address or CIDR block and click **Delete** in the **Operation** column.

   To delete multiple whitelist records, select all the target IP addresses or CIDR blocks and click **Delete** in the upper left corner.

7. Click **Yes**.

# 2.6 Managing Tags of a VPC Endpoint

## Scenarios

After a VPC endpoint is created, you can view its tags or add, edit or delete a tag.

Each VPC endpoint has a unique tag, which consists of a tag key and a tag value. You can add a maximum of 10 tags to each VPC endpoint.

NOTE

If a predefined tag has been created on TMS, you can directly select the corresponding tag key and value.

For details about predefined tags, see **Predefined Tag Overview**.

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## Add a Tag

Perform the following operations to add a tag for an existing VPC endpoint:

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the VPC endpoint list, locate the target VPC endpoint and click its ID.
5. On the displayed page, select the **Tags** tab.
6. Click **Add Tag**.
7. In the displayed dialog box, enter a key and a value.
   Table 2-7 describes the required parameters.

   **Table 2-7** Tag requirements for VPC endpoints

| Parameter | Requirement |
| --- | --- |
| Tag key | • Cannot be left blank.<br>• Must be unique for each resource.<br>• Can contain a maximum of 36 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |
| Tag value | • Cannot be left blank.<br>• Can contain a maximum of 43 Unicode characters.<br>• Cannot start or end with a space or contain special characters =*<>\,\|/ |

8. Click **OK**.

## Edit a Tag

Perform the following operations to edit a tag of a VPC endpoint:

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the VPC endpoint list, locate the target VPC endpoint and click its ID.
5. On the displayed page, select the **Tags** tab.
6. In the tag list, locate the target tag and click **Edit** in the **Operation** column.
7. Enter a new value.

   NOTE

   You can only edit the tags that have values.

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8. Click **OK**.

## Delete a Tag

Perform the following operations to delete a tag of a VPC endpoint:

**CAUTION**

Deleted tags cannot be recovered. Exercise caution when performing this operation.

1. Log in to the management console.
2. Click  in the upper left corner and select the required region and project.
3. Choose **Service List** > **Networking** > **VPC Endpoint**.
4. In the VPC endpoint list, locate the target VPC endpoint and click its ID.
5. On the displayed page, select the **Tags** tab.
6. In the tag list, locate the target tag and click **Delete** in the **Operation** column.
7. Click **Yes**.


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# 3 Accessing OBS

## Scenarios

This section describes how to access OBS using a VPN connection or a direct connection.

NOTE

Only in the LA-Mexico City1, LA-Sao Paulo1, and LA-Santiago regions, can OBS be configured as a gateway VPC endpoint service.

## Prerequisites

Your local data center has been connected to your VPC using a VPN or Direct Connect connection.

- The local subnet of the VPC that interconnects with your VPN contains the OBS CIDR block 100.125.0.0/16.

  For details about how to create a VPN connection, see **Creating a VPN Gateway**.
- The CIDR block of the virtual gateway associated with your direct connection contains the OBS CIDR block 100.125.0.0/16.

  For details on how to enable Direct Connect, see **Enabling Direct Connect**.

## Procedure

1. Click  in the upper left corner and select the required region and project.
2. Click **Service List** and choose **Networking** > **VPC Endpoint**.
3. In the navigation pane on the left, choose **VPC Endpoint** > **VPC Endpoints**.
4. On the displayed page, click **Buy VPC Endpoint**.
5. Set **Service Category** to **Cloud Services** and select **com.myhuaweicloud.na-mexico-1.dns**.
6. Configure the parameters as prompted.

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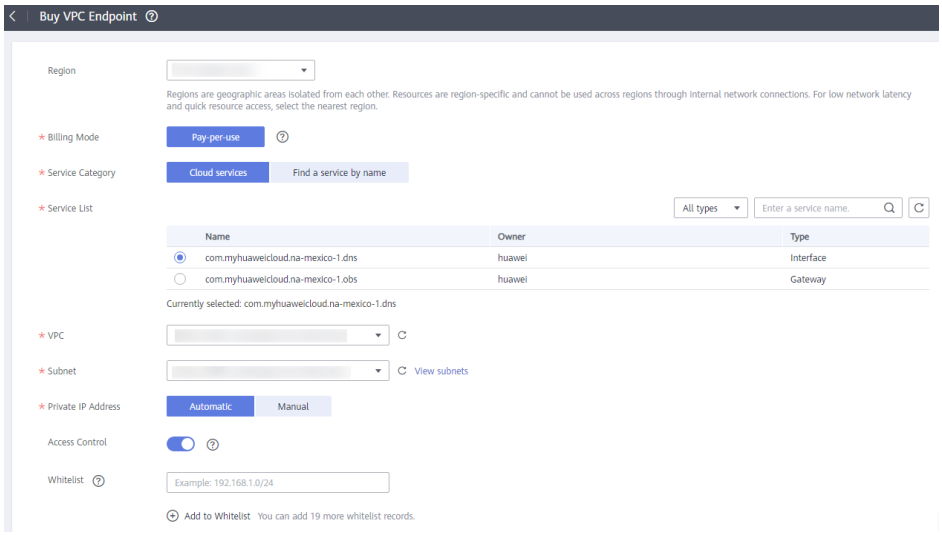
**Figure 3-1** Buy VPC Endpoint (**Service Category** set to **Cloud service**)




7. Click **Next** and **Submit**.
8. Check the private IP address returned after the VPC endpoint for connecting to DNS is created.
9. Add DNS records on the DNS server at your local data center to forward requests for resolving the OBS domain name to the DNS VPC endpoint.

   The following uses DNS Bind as an example:

   Method 1: In file **/etc/named.conf**, add the DNS forwarder configuration and set **forwarders** to the IP address of the DNS server.

   ```
   options {
           forward only;
           forwarders{ xx.xx.xx.xx;};
   };
   ```

   Method 2: In file **/etc/named.rfc1912.zones**, add the following content and set **forwarders** to the IP address of the DNS server.

   Take the OBS endpoint in region LA-Mexico City1 as an example:

   ```
   zone "com.myhuaweicloud.na-mexico-1.obs" {
           type forward;
           forward only;
           forwarders{ xx.xx.xx.xx;};
   };
   ```

   **NOTE**

   - If no DNS server is available, add the IP address of the DNS VPC endpoint in file **/etc/resolv.conf** on a node at your local data center.
   - *xx.xx.xx.xx* indicates the IP address returned in step 9.

10. Configure a DNS route from the offline node to the Direct Connect or VPN gateway.

    *xx.xx.xx.xx* indicates the private IP address of the VPC endpoint for accessing DNS. Therefore, the traffic from the node to OBS needs to be directed to the Direct Connect or VPN gateway, and then to OBS through Direct Connect or VPN. Configure a permanent route at your local data center and specify the Direct Connect or VPN gateway as the next hop for accessing OBS.

    route -p add xx.xx.xx.xx mask 255.255.255.255 xxx.xxx.xxx.xxx

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NOTE

- *xx.xx.xx.xx* indicates the IP address returned in step 9.
- *xxx.xxx.xxx.xxx* indicates the IP address of the Direct Connect or VPN gateway created at your local data center.

11. Repeat steps 5 to 9 to create a VPC endpoint for connecting to OBS.

    NOTE

    You can only access OBS using the OBS domain name in the region where the VPC endpoint is located.

12. Configure an OBS route from your local data center to the Direct Connect or VPN gateway.

    The IP address of OBS belongs to 100.125.0.0/16. Therefore, traffic from the data center to OBS needs to be directed to the Direct Connect or VPN gateway, and then to OBS through Direct Connect or VPN.

    Configure a permanent route at your local data center and specify the IP address of the Direct Connect or VPN gateway as the next hop for accessing OBS.

    ```
    route -p add 100.125.0.0 mask 255.255.0.0 xxx.xxx.xxx.xxx
    ```

    NOTE

    If your local data center is disconnected from the Direct Connect gateway or a VPN gateway, a connection between the offline node and the gateway must be established first.


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# 4 Permission Management

## 4.1 Creating a User and Granting Permissions

Use **IAM** to implement fine-grained permissions control over your Direct Connect resources. With IAM, you can:

- Create IAM users for employees based on the organizational structure of your enterprise. Each IAM user has their own security credentials, providing access to VPCEP resources.
- Grant only the permissions required for users to perform a task.
- Entrust a HUAWEI CLOUD account or cloud service to perform professional and efficient O&M on your VPCEP resources.

If your account does not require individual IAM users, skip over this section.

**Figure 4-1** shows the procedure for granting permissions.

### Prerequisites

Learn about the permissions (see **Permission Management**) supported by the VPCEP service and choose policies or roles based on your requirements. For the permission policies of other services, see **System Permissions**.

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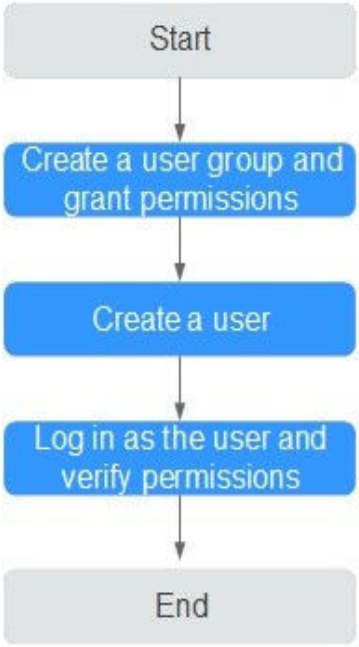
## Authorization Process

**Figure 4-1** Process for granting VPCEP permissions




1. **Create a user group and assign permissions**.

   Create a user group on the IAM console and assign the **VPCEndpoint Administrator** policy to the group.

2. **Create a user and add the user to the user group**.

   Create a user on the IAM console and add the user to the group created in **1**.

3. **Log in to the management console as the created user**.

   Log in to the VPCEP console by using the newly created user, and verify that the user only has read permissions for VPCEP.

   - Click **Service List** and choose **VPC Endpoint**. On the displayed page, click **Buy VPC Endpoint** in the upper right corner. If you can buy a VPC endpoint, the **VPCEndpoint Administrator** policy has already taken effect.
   - Choose any other service in **Service List**. If a message appears indicating that you have insufficient permissions to access the service, the **VPCEndpoint Administrator** policy has already taken effect.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# 5 Quota Adjustment

## What Is a Quota?

Quotas are enforced for service resources on the platform to prevent unforeseen spikes in resource usage. Quotas can limit the number and capacity of resources available to users, for example, how many cloud resources you can create.

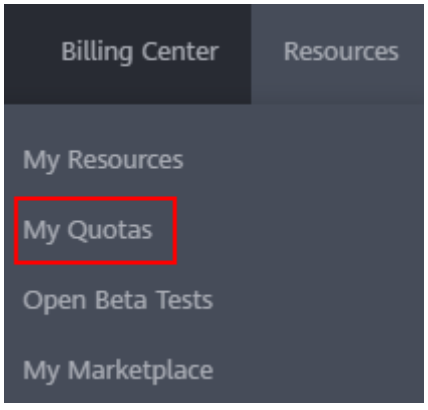
If the existing resource quota cannot meet your service requirements, you can apply for a higher quota.

## How Do I View My Quotas?

1. Log in to the management console.
2. Click in the upper left corner and select the desired region and project.
3. In the upper right corner of the page, choose **Resources** > **My Quotas**.

   The **Service Quota** page is displayed.

   **Figure 5-1** My Quotas

4. View the used and total quota of each type of resources on the displayed page.

   If a quota cannot meet service requirements, apply for a higher quota.

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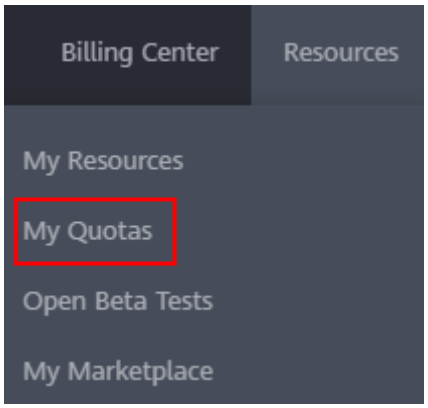
## How Do I Apply for a Higher Quota?

1. Log in to the management console.
2. In the upper right corner of the page, choose **Resources** > **My Quotas**.
   The **Service Quota** page is displayed.

   **Figure 5-2** My Quotas

3. Click **Increase Quota**.
4. On the **Create Service Ticket** page, configure parameters as required.
   In **Problem Description** area, fill in the content and reason for adjustment.
5. After all necessary parameters are configured, select **I have read and agree to the Tenant Authorization Letter and Privacy Statement** and click **Submit**.

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# A Change History

| Released On | Description |
| --- | --- |
| 2021-05-08 | This issue is the seventh official release.<br>Supports a maximum of 60 whitelist records for a VPC endpoint in the following sections:<br>• **VPC Endpoint Overview**<br>• **Buying a VPC Endpoint**<br>• **Configuring Access Control for a VPC Endpoint** |
| 2020-11-13 | This issue is the sixth official release.<br>Added:<br>• **VPC Endpoint Service Overview**<br>• **Managing Tags of a VPC Endpoint Service**<br>• **VPC Endpoint Overview**<br>• **Configuring Access Control for a VPC Endpoint**<br>• **Managing Tags of a VPC Endpoint** |
| 2019-12-30 | This issue is the fifth official release.<br>Updated section "Permission Management". |
| 2019-11-30 | This issue is the fourth official release.<br>Updated all screenshots in this document. |

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| Released On | Description |
| --- | --- |
| 2019-07-10 | This issue is the third official release.<br>• Updated all screenshots in this document.<br>• Added the content of permissions management. |
| 2019-02-18 | This issue is the second official release.<br>Added the quota adjustment content. |
| 2018-11-30 | This issue is the first official release. |

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