

Private Link Operation Guide



Tencent Cloud

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Operation Guide

Manage VPC Endpoint Services

Create an endpoint service

Last updated: 2023-09-04 15:46:18

Endpoint services are a crucial component of private connections, created and maintained by the service provider. Endpoint services can be requested by endpoints in other VPCs to establish private connections. Once connected, the application services deployed in the service provider's environment can be shared and accessed by other VPCs.

Preparations

- The service provider's VPC and subnet are prepared and ready.
- The services to be provided externally have been successfully deployed.

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. Click **Private Connection** > **Endpoint Services** on the left sidebar, and click **Create**.
3. In the **Create Endpoint Service** pop-up window, configure the relevant parameters.

Create VPC endpoint service ✕

Service name

Region Southwest China (Chengdu)

Network

Service type

Backend instance

Accept endpoint connection request No Yes

Parameter name	Description
Service name	Customize the endpoint service name, which cannot exceed 80 characters. It can only include Chinese characters, English letters, numbers, underscores, hyphens ("-"), and dots.
Region	Endpoint service region.
Network	Select the associated VPC.
Service type	Endpoint service types currently supported include application-based private network layer-4 CLB, MySQL, and Redis.
Backend service	Backend service's Instance ID.
Accept endpoint connection request	Specify whether the endpoint service does or does not automatically accept connection requests from endpoints. The default is no . <ul style="list-style-type: none"> When set to automatically accept, the endpoint service will accept all connection requests from endpoints by default. Once the endpoint is created successfully, its status will be Available. When choosing No for automatic connections, the initial connection status of the endpoint will be Pending Acceptance. The endpoint service must manually perform Accept Connection to change the status from Pending Acceptance to Available.

4. Click **OK** to create the endpoint service, which will be displayed in the list.

ID/Name	Monitoring	Network	Service type	Backend instance	Accept endpoint connection	VPC endpoint	Creation time	Operation
vpcsvc- lb-64-		vpc- lb-64-	Load balancing	lb-64- lb-64-xxxxx	Yes	1	2023-05-18 17:28:48	Delete More

Modify the VPC Endpoint Service

Last updated: 2023-09-04 15:46:26

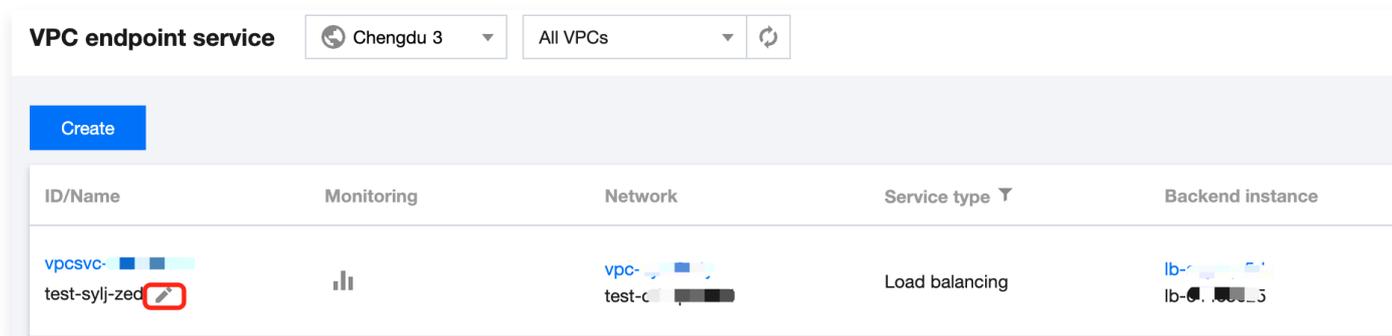
Modify the name of the VPC endpoint service.

Preparations

You have created a VPC endpoint service. For more information, see [Creating an Endpoint Service](#).

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. In the left sidebar, click **Private Connections** > **Endpoint Services**, select the region where the endpoint service is located, and view all created endpoint services in the specified region.
3. There are two methods to modify the VPC endpoint service name:
 - Click the edit icon  next to the VPC endpoint service name to rename it.



- Click the VPC endpoint service ID to enter the details page, and click the edit icon  to rename the service.

← VPC endpoint service

- Basic information**
- Monitoring
- VPC endpoint
- Allowlist

Basic information

Name	[redacted] 
ID	vpc- [redacted]
Region	Southwest China (Chengdu)
Network	vpc- [redacted]
Service type	Load balancing
Backend instance	lb- [redacted]
Accept endpoint connection request	Yes

View and Export VPC Endpoint Services

Last updated: 2023-09-04 15:46:36

Quickly view the created VPC endpoint services on the console and export a list of VPC endpoint services in a specific region.

Preparations

You have created a VPC endpoint service. For more information, see [Creating an Endpoint Service](#).

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. In the left sidebar, click **Private Connections** > **Endpoint Services**, select the region where the endpoint service is located, and view all created endpoint services in the specified region.
3. Click the **Endpoint Service ID** to enter the details page and view more information.
4. In the top-right search box, enter the VPC endpoint service ID or name for a quick search.
5. Click the settings icon  to customize the display fields, and click the refresh icon  to update the page information.
6. Click the export icon  to export information about all VPC endpoint services in the current region, saved in a .csv file format.

Manage allowlist

Last updated: 2023-08-31 22:04:43

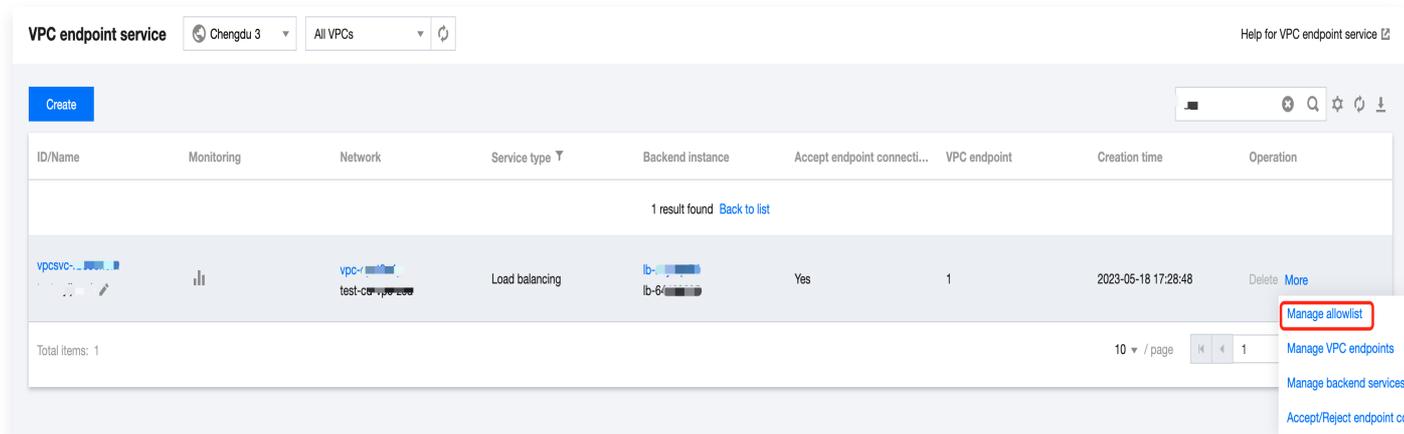
When creating a private connection for cross-account VPC access, you need to add the UIN of the account to which the endpoint belongs to the allowlist of the service provider's endpoint service before creating the endpoint. Otherwise, the connection will not be established. This section describes how to add and remove allowlist entries in the endpoint service.

Preparations

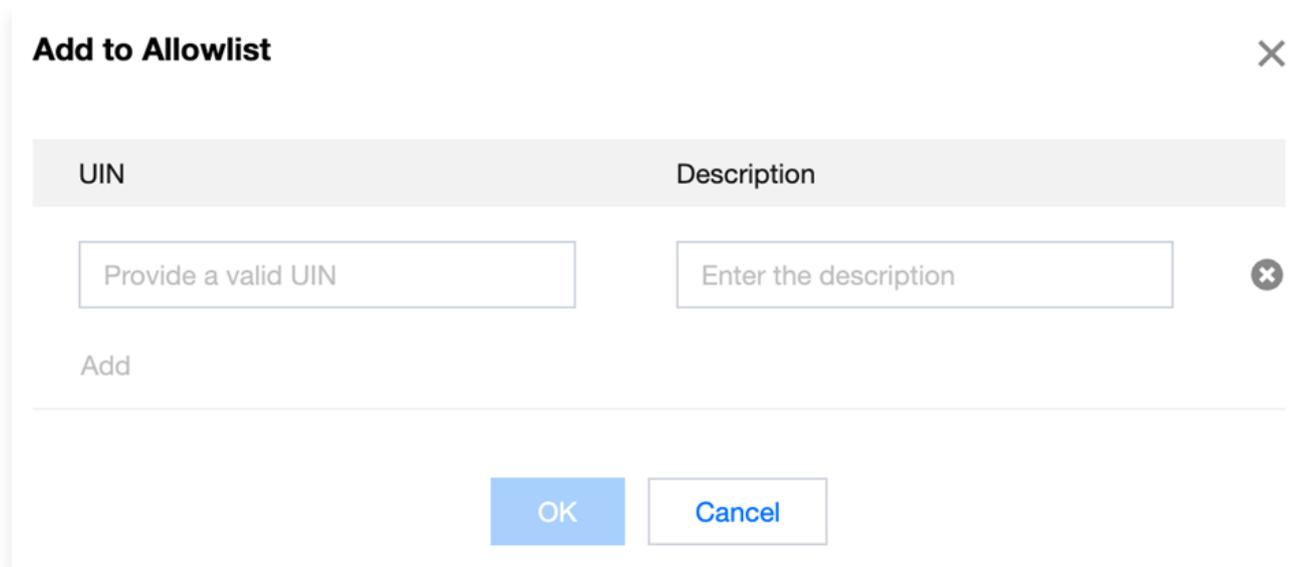
You have created a VPC endpoint service. For more information, see [Creating an Endpoint Service](#).

Add Allowlist

1. Log in to the [Virtual Private Cloud Console](#).
2. In the left sidebar, click **Private Connection > Endpoint Services**, and select the region where the endpoint service is located.
3. Click **More > Manage Allowlist** on the right side of a specific endpoint service, or click the endpoint service ID to enter its details page, and then go to the **Allowlist** tab.



4. Click **Add**.
5. In the **Add Allowlist User** dialog box that appears, enter the allowlist user UIN and description.



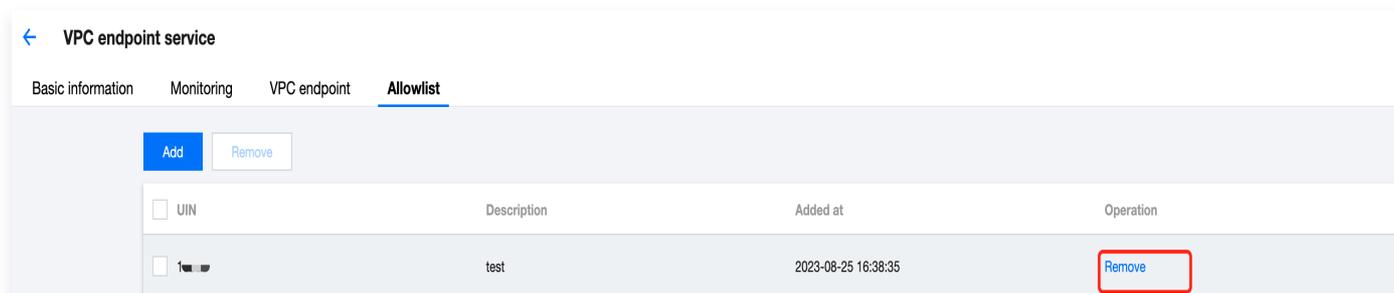
The dialog box titled "Add to Allowlist" contains two input fields: "UIN" with the placeholder text "Provide a valid UIN" and "Description" with the placeholder text "Enter the description". Below the input fields is an "Add" button. At the bottom of the dialog are "OK" and "Cancel" buttons.

6. Click **OK** to complete the addition of the allowlist entry.

Deleting your allowlist

If you no longer want to allow a specific account to access the service provider's application service, you can remove it from the user allowlist in the endpoint service.

1. Log in to the [Virtual Private Cloud Console](#).
2. In the left sidebar, click **Private Connection** > **Endpoint Services**, and select the region where the endpoint service is located.
3. Click **More** > **Manage Allowlist** on the right side of a specific endpoint service, or click the endpoint service ID to enter its details page, and then go to the **Allowlist** tab.
4. Click **Remove** next to the user account, and then click **Confirm** in the confirmation dialog box to remove the user.



5. To remove multiple users at once, select their UINs and click **Remove** at the top for batch deletion.

Manage VPC Endpoint Connections

Last updated: 2023-08-31 22:04:52

This chapter introduces how to manage connection requests for endpoints within the VPC endpoint service.

Preparations

You have already [created a VPC endpoint service](#) and [created an endpoint](#).

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. In the left sidebar, click **Private Connection** > **Endpoint Services**, and select the region where the endpoint service is located.
3. Click **More** > **Manage Endpoint Connections** on the right side of a specific VPC endpoint service, or click the endpoint service ID to enter the details page, and then go to the **Endpoints** tab.
4. Handle the connection requests for the endpoint status according to the actual situation.



ID/Name	Status	UIN	Creation time	Operation
vpcef-... test-...	Available	10...	2023-05-18 17:30:34	Reject connection requests

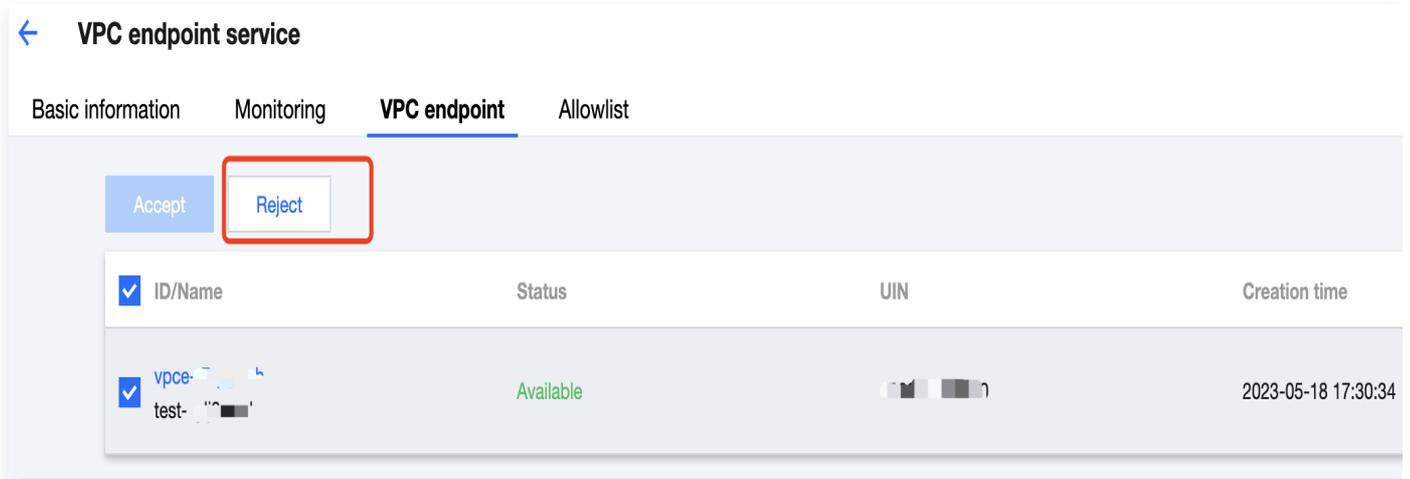
- When the status is **Pending Acceptance**, you can perform **Accept Connection** or **Reject Connection**. After execution, the status will be **Available** or **Rejected**, respectively.
- When the status is **Rejected**, you can perform **Accept Connection**. After execution, the status changes to **Available**.
- When the status is **Available**, you can perform **Reject Connection**. After execution, the status changes to **Rejected**.

Note

A VPC endpoint service can be connected to multiple endpoints. The status of an endpoint refers to the status of each individual connection, not the status of the standalone VPC endpoint service.

5. (Optional) If you need to process multiple endpoint connection requests simultaneously, you can select the endpoints and click **Accept** or **Reject** in the upper left corner. For

example, the image below shows batch rejection of **Available** endpoint connection requests.



Manage backend services

Last updated: 2023-08-31 22:04:59

Upon creation, VPC endpoint services require association with backend instances where the business is deployed. To modify the associated backend instances, perform this operation.

Preparations

- You have created a VPC endpoint service. For more information, see [Creating an Endpoint Service](#).
- You have created the backend instances that need to be associated.

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. In the left sidebar, click **Private Connection** > **Endpoint Services**, and select the region where the endpoint service is located.
3. Click **More** > **Manage Backend Instances** on the right side of the desired VPC endpoint service.
4. In the **Manage Backend Instances** dialog, click the triangle icon in the red box to change the backend instances associated with the VPC endpoint service, and then click **OK**.

Accept/Reject endpoint connection requests

Last updated: 2023-08-31 22:05:08

This section covers the management operations for configuring terminal connection acceptance settings. When creating a terminal endpoint service, you can choose to **accept** or **decline** connection requests from terminal endpoints automatically. If you need to modify this setting, follow the steps outlined in this section.

Preparations

You have already [created a VPC endpoint service](#) and [created an endpoint](#).

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. In the left sidebar, click **Private Connection > Endpoint Services**, and select the region where the endpoint service is located.
3. Click **More** on the right side of a terminal endpoint service, then select **Modify Terminal Connection Acceptance Settings**.
4. Please modify the acceptance settings according to your requirements and click **OK** to complete the changes.
 - If you change the setting from **accept** to **decline**, connection requests from the terminal endpoint to the terminal endpoint service will require manual execution of either **accept connection** or **reject connection**.
 - If you change **No** to **Yes**, all connection requests from terminal endpoints to the terminal endpoint service will be automatically accepted by default.

Accept/Reject endpoint connection requests



Determines whether to automatically accept all VPC endpoint connection requests

Service name test-

Accept endpoint connection request No Yes

OK

Cancel

View Monitoring Metrics

Last updated: 2023-08-31 22:05:16

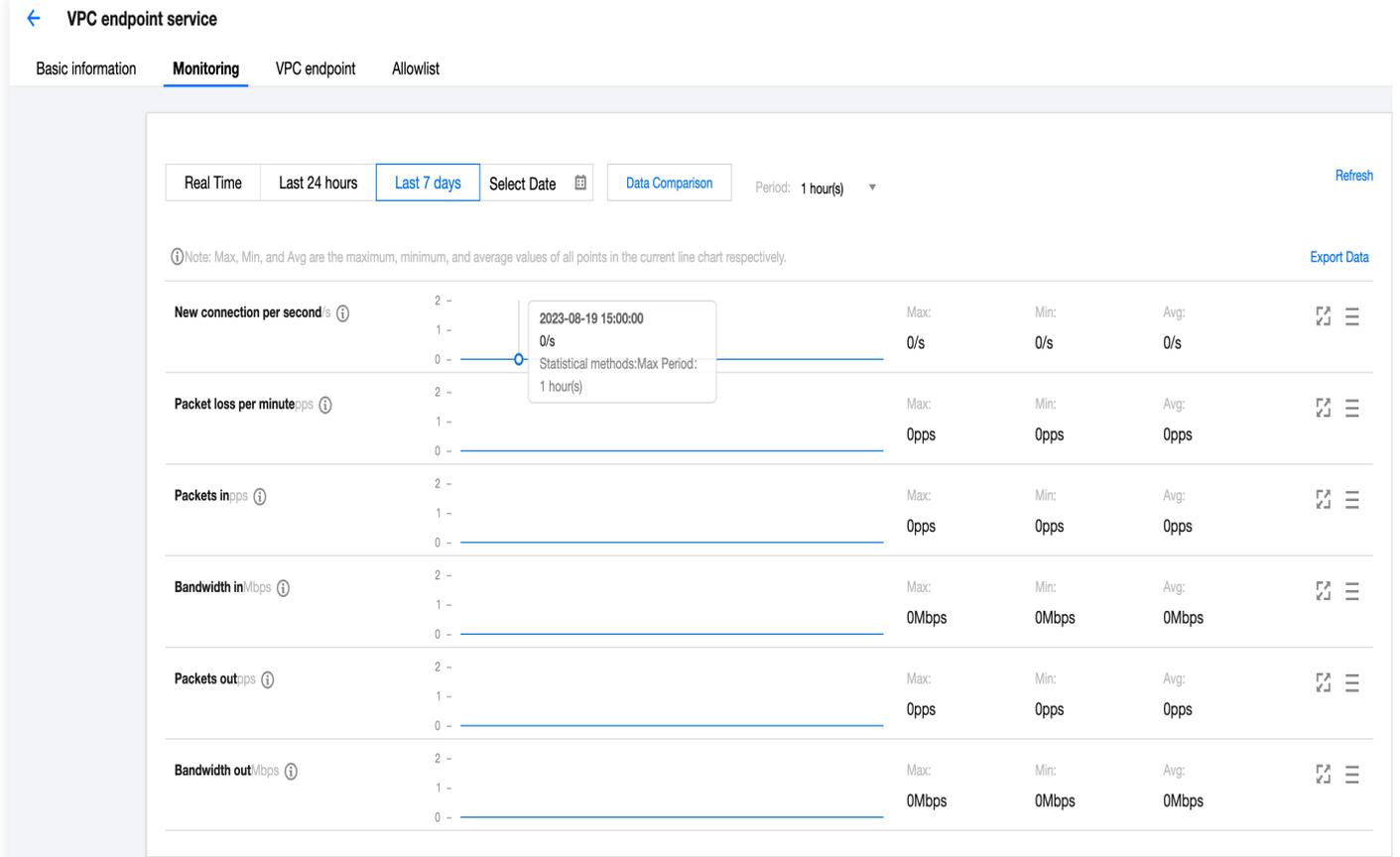
Metric monitoring helps you stay informed about the real-time performance of your endpoint services. In case of any anomalies, you can promptly detect and address them, thereby enhancing operational efficiency.

Preparations

You have created a VPC endpoint service. For more information, see [Creating an Endpoint Service](#).

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. In the left sidebar, click **Private Connection** > **Endpoint Services**, and select the region where the endpoint service is located.
3. There are two methods to view the monitoring metrics of the endpoint service:
 - Click the **Service ID** of an endpoint to access its details page, and then click the **Monitoring** tab.
 - Click the monitoring icon  on the Endpoint Services list page to directly access the monitoring interface.
4. In the Metric Details interface, you can select **Real-time**, **Last 24 hours**, **Last 7 days**, or a custom date range to view metric information. The time granularity supports 1 hour and 1 day.



5. Click **Data Comparison** to view the metric comparison between specified time points.
6. Click **Refresh** to update the displayed data, and click **Export Data** to export metric data for a specified time period.

Managing Endpoint Nodes

Create endpoint node

Last updated: 2023-09-04 15:56:46

Endpoint nodes are a crucial component of private connection services, created and maintained by the service user. By associating endpoint nodes with the service provider's endpoint node services, access to external network services can be achieved. This section guides you on how to create endpoint nodes.

Preparations

- The service user's VPC and subnet are prepared and ready.
- The service provider's endpoint node service is prepared and ready.
- Please obtain the service ID of the peer endpoint node service in advance.
- If accessing between cross-account VPCs, please obtain the UIN of the peer account in advance.

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. Click **Private Connection > Endpoint Node** on the left sidebar, and click **Create**.
3. In the pop-up **Create Endpoint Node** window, configure the endpoint node parameters.

Create VPC endpoint ✕

Name

Region **Southwest China (Chengdu)**

Network

Subnet

IP address Get an auto-assigned IP

Service type Custom service

Destination account type My account Other Tencent Cloud Account

Parameter name	Description
Name	Define a custom endpoint node name, not exceeding 80 characters, using only Chinese characters, English letters, numbers, underscores, hyphens (-), and dots.
Region	Endpoint node region.
Network	Select the Virtual Private Cloud (VPC) to which the endpoint node belongs.
Subnet	Select the subnet to which the endpoint node belongs.
IP Addresses	Configure the IP address for the endpoint node. By default, Automatic Allocation is selected, which means the system automatically assigns an internal IP address from the VPC subnet range to the endpoint node. Alternatively, you can choose Manual Input and enter an available internal IP within the VPC subnet.
Destination account type	Select the account to which the endpoint node service to be connected belongs: <ul style="list-style-type: none"> For access between VPCs under the same account, select My

	<p>Account.</p> <ul style="list-style-type: none">• For cross-account VPC access, select Other Accounts. When choosing Other Accounts, please fill in the peer account UIN and inform the peer of your UIN. The peer endpoint node service should add your UIN to the whitelist; otherwise, the connection will not be established.
Select a service	Enter the endpoint node service ID and click Verify ; only verified services can establish a connection.

4. Click **OK** to complete the creation of the endpoint node.

Modify VPC Endpoint

Last updated: 2023-09-04 16:01:46

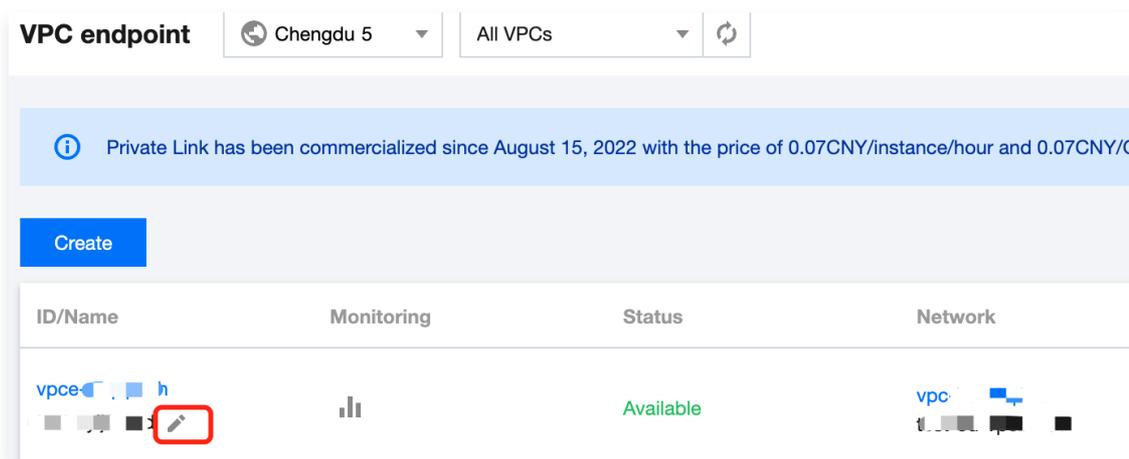
Allows modification of VPC endpoint names.

Preparations

You have created a VPC endpoint. For more information, see [Creating VPC Endpoint](#).

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. Click **Private Connection > VPC Endpoint** on the left sidebar, select the region where the endpoint is located, and view all created VPC endpoints in the specified region.
3. There are two methods to modify the VPC endpoint name:
 - Click the edit icon  next to the endpoint name to rename it.



- Click the VPC endpoint ID to access the details page, and click the edit icon  to rename the endpoint.

← VPC endpoint

- Basic information
- Monitoring
- Security groups

Basic information

Name	... [edit icon]
ID	vpce-...
Status	Available
Region	Southwest China (Chengdu)
Network	vpc-...
Subnet	subnet-...
IP address	10...11
Elastic IP	-
Service	test-...
Creation time	2023-05-18 17:30:34

View and Export VPC Endpoints

Last updated: 2023-08-31 22:05:56

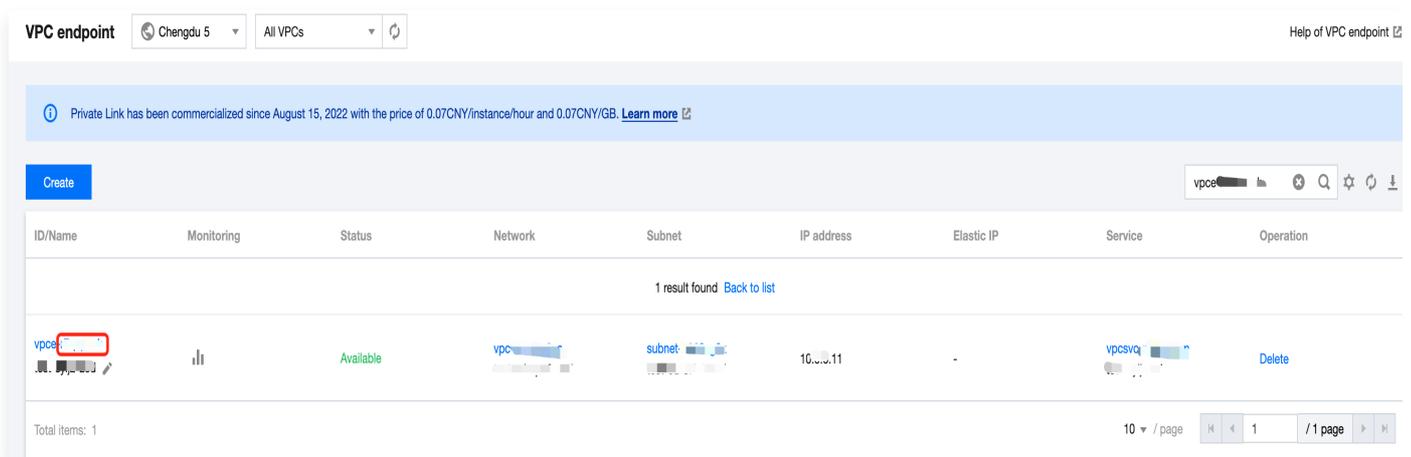
Quickly view created VPC endpoints via the console and export a list of endpoints in a specific region.

Preparations

You have created a VPC endpoint. For more information, see [Creating VPC Endpoint](#).

Instructions

1. Log in to the [Virtual Private Cloud Console](#).
2. Click **Private Connection** > **VPC Endpoint** on the left sidebar, select the region where the endpoint is located, and view all created VPC endpoints in the specified region.
3. Click the VPC Endpoint ID to enter the details page and view more information.
4. In the top-right search box, quickly find a VPC endpoint by entering its ID or name.



5. Click the settings icon  to customize the display fields, and click the refresh icon  to update the page information.
6. Click the export icon  to export information for all VPC endpoints in the current region, saved in .csv file format.

Bind and Unbind Security Groups

Last updated: 2023-08-31 22:06:05

To control client traffic accessing the endpoint, you can bind a security group to the endpoint. Only traffic that matches the security group rules will be allowed to pass through the endpoint to access the service provider's operations.

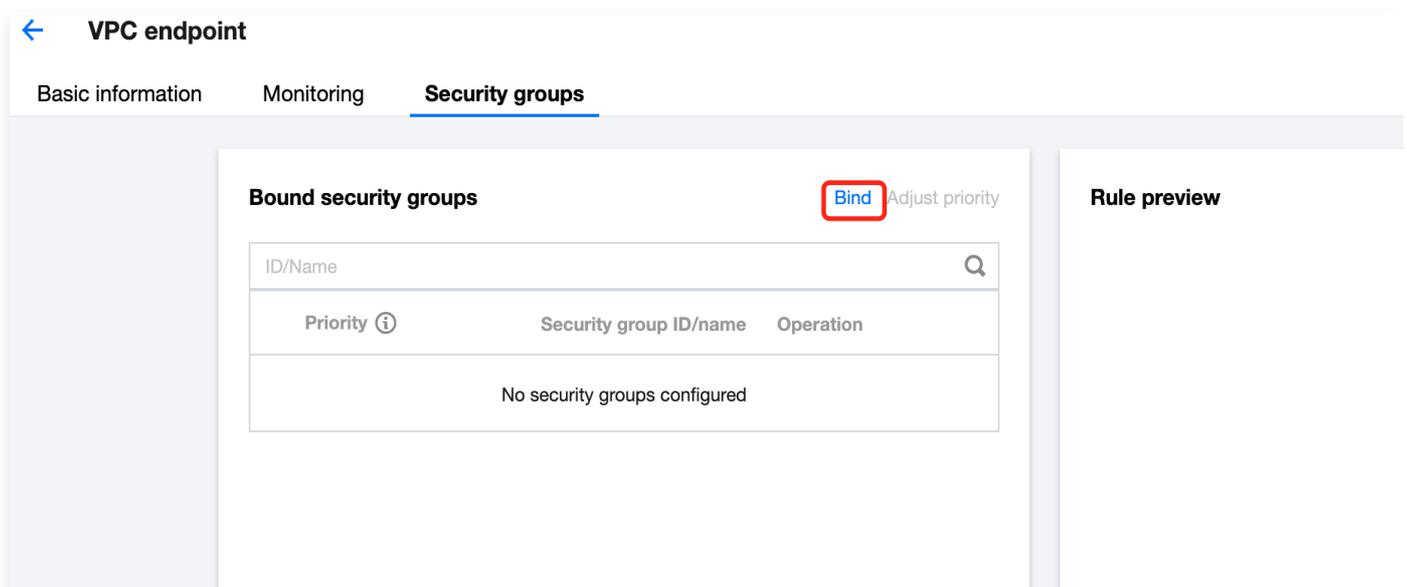
Preparations

- You have created a VPC endpoint. For more information, see [Creating VPC Endpoint](#).
- You have created a security group instance. For more information, see [Creating a Security Group Instance](#).

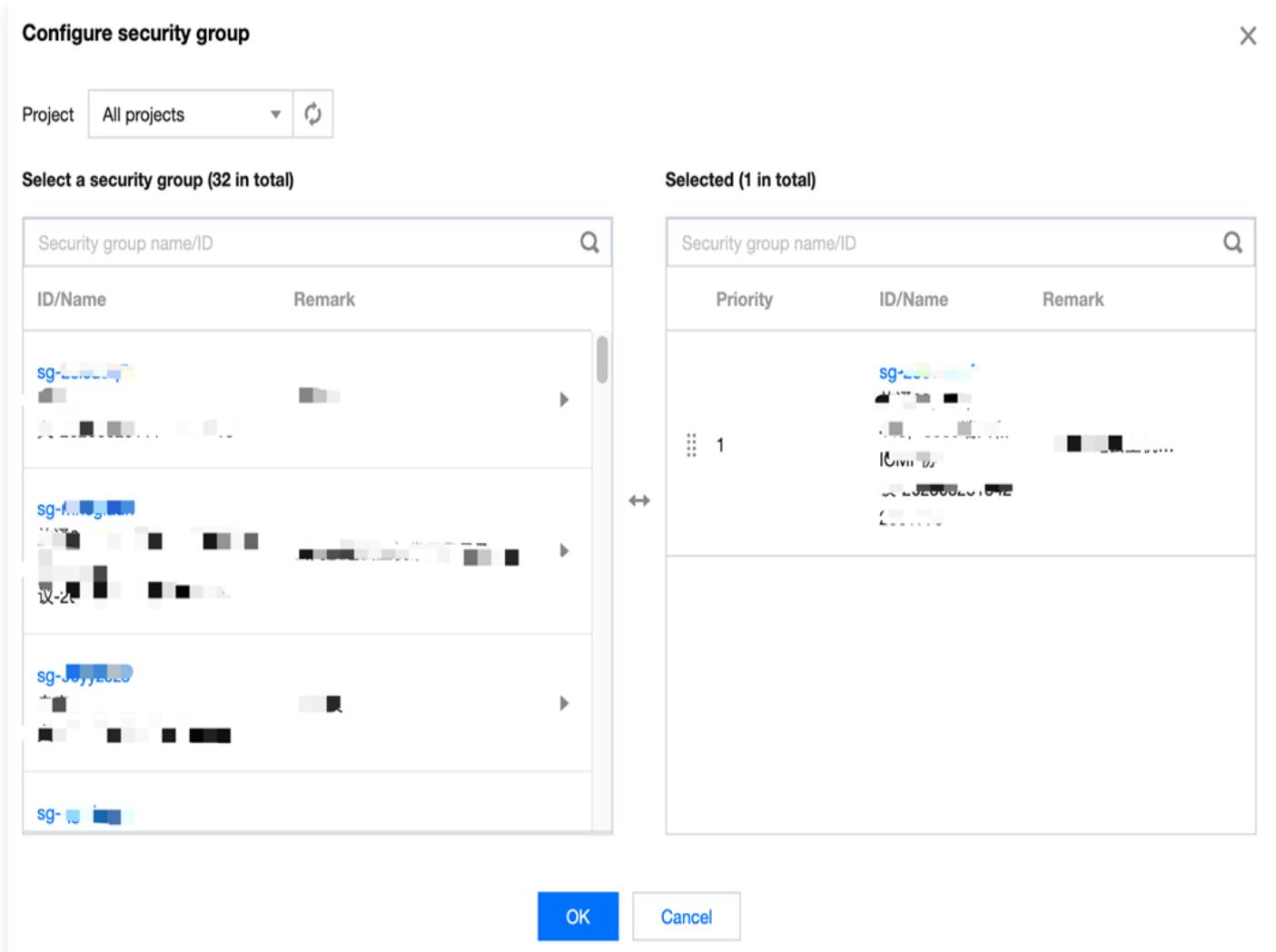
Instructions

This API is used to bind a security group.

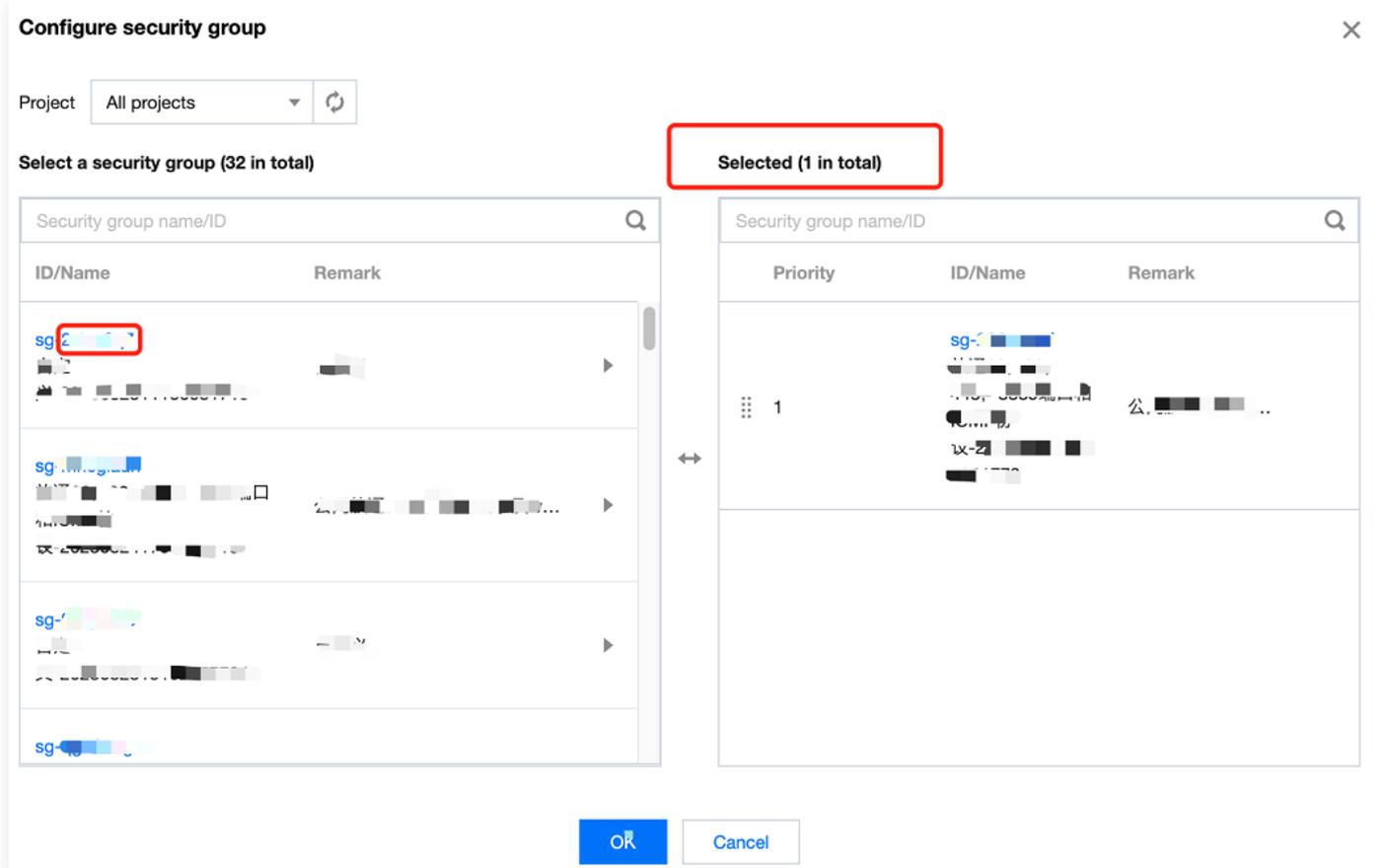
1. Log in to the [Virtual Private Cloud Console](#).
2. Click **Private Connection** > **VPC Endpoint** on the left sidebar, and select the region where the endpoint is located.
3. Click on a specific endpoint ID to enter the details page, and then click the **Security Group** tab.
4. Click **Bind** to open the **Configure Security Group** dialog box.



5. Click the triangle icon  on the right side of the security group you want to bind. The selected security group will be displayed in the right area.



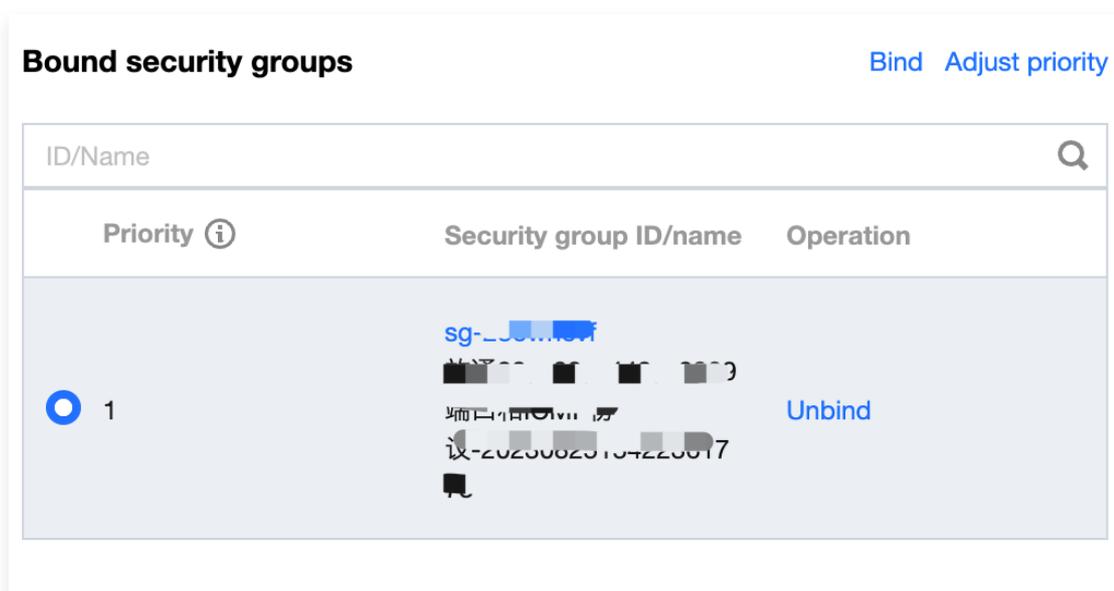
- Click  to adjust the security group priority, and click **Confirm** when finished. The bound security groups and corresponding rules preview are shown in the following image.



Adjust priority

When an endpoint instance is bound to multiple security groups, the system will execute them in ascending order of priority. If business requirements change, you can adjust the security group priority in the console to meet the actual business situation.

1. In the **Security Group** tab of the VPC Endpoint details, click **Adjust Priority**.



2. Drag the  icon to adjust the security group order, and click **Save**.

This API is used to unbind a security group.

If you do not need to control the inbound and outbound traffic of the endpoint, you can unbind the security group.

1. In the **Security Group** tab of the VPC endpoint details, click **Unbind** in the bound security group.
2. In the Unbind Security Group confirmation dialog box that appears, click **OK** to proceed.

View Monitoring Metrics

Last updated: 2023-08-31 22:06:16

Metric monitoring helps you stay informed about the real-time performance of your endpoint services. In case of any anomalies, you can promptly detect and address them, thereby enhancing operational efficiency.

Preparations

You have created a VPC endpoint. For more information, see [Creating VPC Endpoint](#).

Instructions

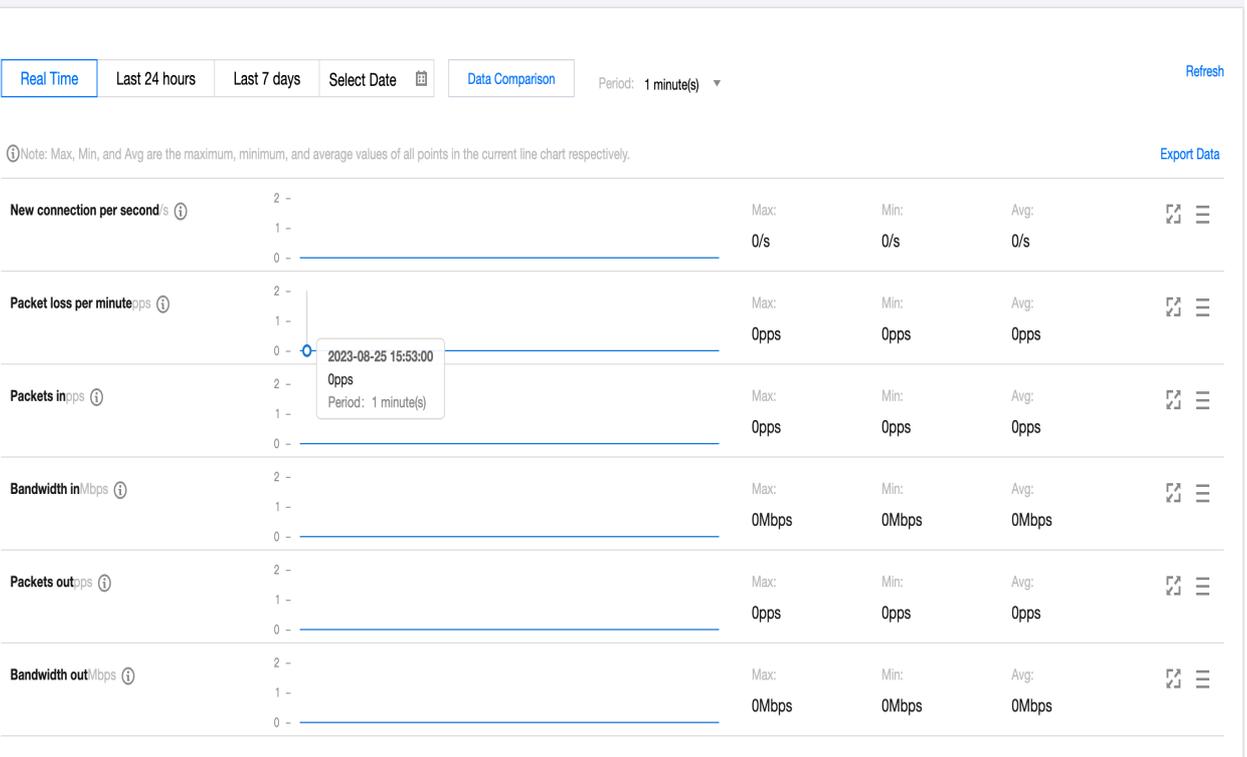
1. Log in to the [Virtual Private Cloud Console](#).
2. Click **Private Connection > VPC Endpoint** on the left sidebar, and select the region where the endpoint is located.
3. There are two methods to view the monitoring metrics of VPC endpoints:
 - Click on a specific endpoint ID to access its details page, and then click the **Monitoring** tab.
 - Click the monitoring icon  on the VPC endpoint list page to directly access the monitoring interface.
4. In the Metric Details interface, you can select **Real-time**, **Last 24 hours**, **Last 7 days**, or a custom date range to view metric information. The time granularity supports 1 hour and 1 day.

← VPC endpoint

Basic information

Monitoring

Security groups



5. Click **Data Comparison** to view the metric comparison between specified time points.

6. Click **Refresh** to update the displayed data, and click **Export Data** to export metric data for a specified time period.