

# Elastic Load Balance

## Best Practices

**Issue** 01  
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# 1 Viewing Traffic Usage

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## Scenarios


In live video broadcasting, traffic often increases suddenly, which make the service unstable. To respond to this, most live video platforms use ELB to distribute traffic. By working with Cloud Eye, ELB allows you to monitor the traffic usage in real time, especially for public network load balancers. You can view the traffic consumed by the EIPs bound to load balancers to better balance your application workloads.

## Prerequisites

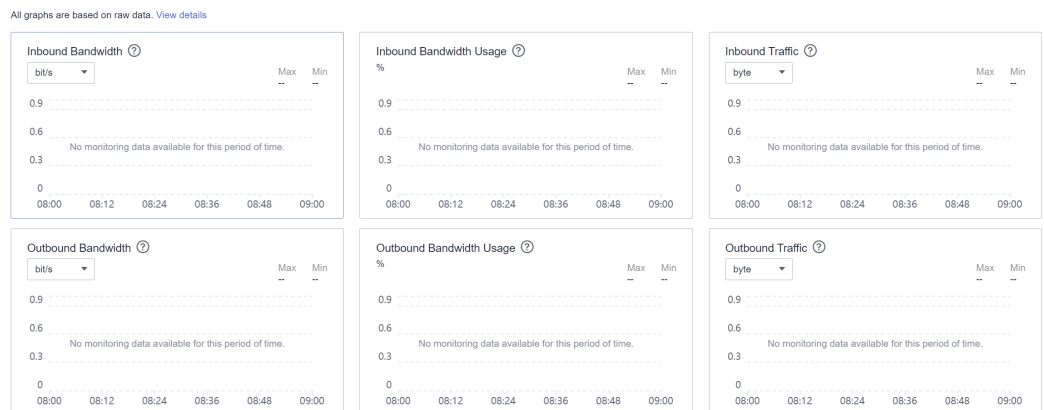
Load balancers are running properly.

The associated backend servers are running normally and are not deleted or in the stopped or faulty state.

## Viewing Traffic Usage of the Bound EIP

1. Log in to the management console.
2. In the upper left corner of the page, click  and select the desired region and project.
3. Click **Service List**. Under **Networking**, click **Virtual Private Cloud**.
4. In the navigation pane on the left, choose **Elastic IP and Bandwidth > EIPs**.
5. Locate the EIP bound to the load balancer and click its name. On the **Bandwidth** page, you can view the data for the last 1, 3, 12 hours, last day, or last 7 days.

**Figure 1-1** EIP traffic usage




**Table 1-1** EIP and bandwidth metrics

Metric	Meaning	Value Range	Monitored Object	Monitoring Period (Raw Data)
Outbound Bandwidth (originally named "Upstream Bandwidth")	Network rate of outbound traffic	≥ 0 bits/s	Bandwidth or EIP	1 minute
Inbound Bandwidth (originally named "Downstream Bandwidth")	Network rate of inbound traffic	≥ 0 bits/s	Bandwidth or EIP	1 minute
Outbound Bandwidth Usage	Usage of outbound bandwidth in percentage.	0-100%	Bandwidth or EIP	1 minute
Inbound Bandwidth Usage	Usage of inbound bandwidth in the unit of percent.	0-100%	Bandwidth or EIP	1 minute

Metric	Meaning	Value Range	Monitored Object	Monitoring Period (Raw Data)
Outbound Traffic (originally named "Upstream Traffic")	Network traffic going out of the cloud platform	$\geq 0$ bytes	Bandwidth or EIP	1 minute
Inbound Traffic (originally named "Downstream Traffic")	Network traffic going into the cloud platform	$\geq 0$ bytes	Bandwidth or EIP	1 minute

## Viewing Load Balancer Traffic Metrics

1. Log in to the management console.
2. In the upper left corner of the page, click  and select the desired region and project.
3. Click **Service List**. Under **Networking**, click **Elastic Load Balance**.
4. Locate the load balancer and click its name.
5. Click the **Monitoring** tab, select load balancer for **Dimension**, and view the graphs of inbound and outbound rates.

You can view data from the last 1, 3, 12 hours, last day, or the last 7 days. For details, see [ELB Metrics](#).

# 2 Routing Traffic to Backend Servers in Different VPCs

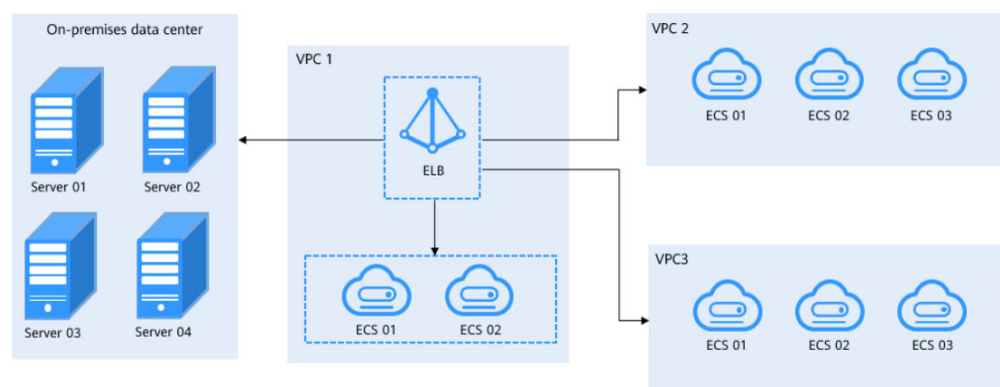
## 2.1 Overview

### Scenarios

You have servers both in VPCs and your on-premises data center and want load balancers to distribute incoming traffic across these servers.

This section describes how to use a load balancer to route incoming traffic across cloud and on-premises servers.

**Figure 2-1** Routing traffic across cloud and on-premises servers



### Solution

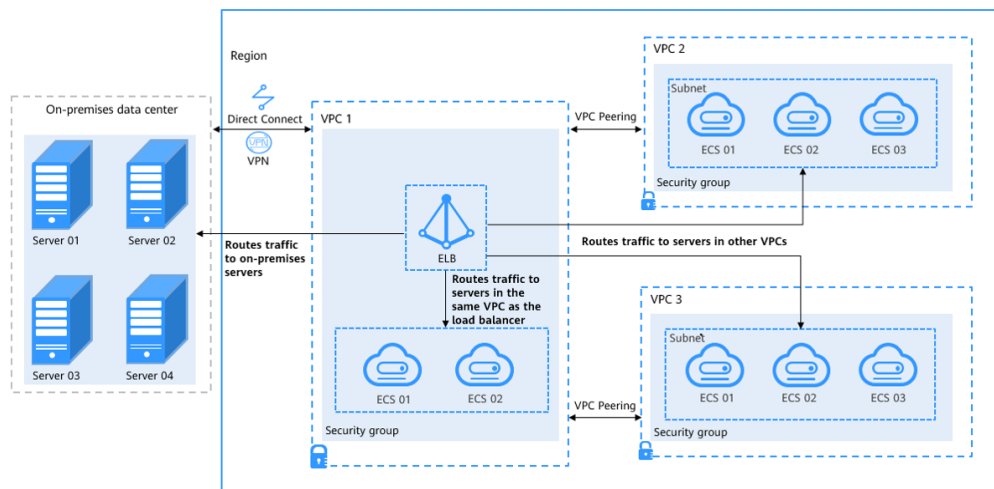
Dedicated load balancers can satisfy your needs. You can enable **IP as a Backend** when creating a dedicated load balancer and associate on-premises servers with this dedicated load balancer using their IP addresses.

As shown in [Figure 2-2](#), ELB can realize hybrid load balancing.

- You can associate the servers in the same VPC as the load balancer no matter whether you enable **IP as a Backend**.

- If you enable **IP as a Backend**:
  - You can associate on-premises servers with the load balancer after the on-premises data center is connected to the cloud through Direct Connect or VPN.
  - You can also associate the servers in other VPCs different from the load balancer after the VPCs are connected to the VPC where the load balancer is running over VPC peering connections.
  - You can associate backend servers in the same VPC where the load balancer is running.

**Figure 2-2** Associating servers with the load balancer



## Advantages

You can add servers in the VPC where the load balancer is created, in a different VPC, or in an on-premises data center, by using private IP addresses of the servers to the backend server group of the load balancer. In this way, incoming traffic can be flexibly distributed to cloud and on-premises servers for hybrid load balancing.

- You can add backend servers in the same VPC as the load balancer.
- You can add backend servers in a VPC that is not the VPC where the load balancer is running by establishing a VPC peering connection between the two VPCs.
- You can add backend servers in your on-premises data center with the load balancer by connecting your on-premises data center to the cloud through Direct Connect or VPN.

## Restrictions and Limitations

When you add IP as backend servers, note the following:

- If you do not enable the function when you create a load balancer, you can still enable it on the **Basic Information** page of the load balancer.
- IP as backend servers must use IPv4 addresses.
- IP as backend servers cannot use public IP addresses or IP addresses from the VPC where the load balancer works. Otherwise, requests cannot be routed to backend servers.



- If you enable **IP as a Backend** for a dedicated load balancer, you can add only TCP, HTTP, and HTTPS listeners to the load balancer.
- The subnet where the load balancer works must have at least 16 IP addresses. Otherwise, IP as backend servers cannot be added. You can add more subnets for more IP addresses on the **Basic Information** page of the load balancer.
- Security group rules of IP as backend servers must allow traffic from the subnet of the load balancer. Otherwise, health checks will fail.
- **IP as a Backend** cannot be disabled after it is enabled.
- Up to 492 backend servers (including common backend servers and IP as backend servers) can be associated with a listener.

## 2.2 Routing Traffic to Backend Servers in Different VPCs from the Load Balancer

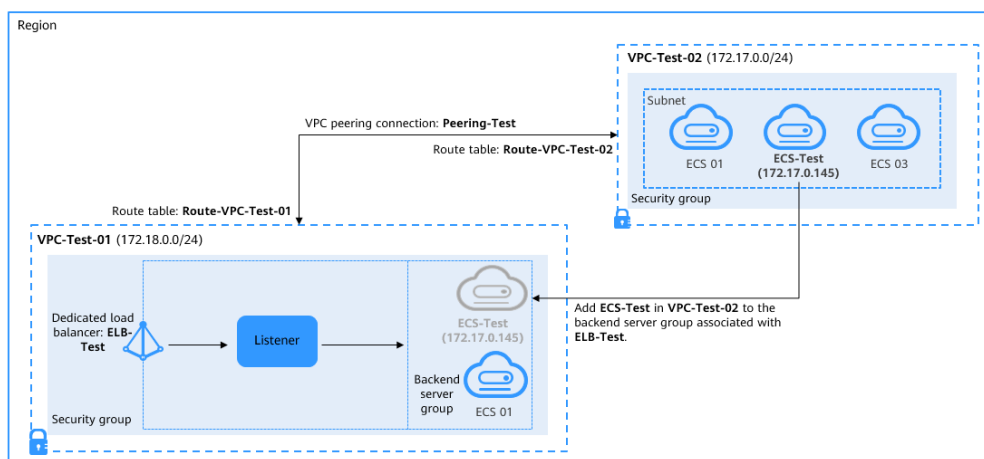
### Scenarios

You can use ELB to route traffic to backend servers in two VPCs connected over a VPC peering connection.

### Solution

- A dedicated load balancer named **ELB-Test** is running in **VPC-Test-01** (172.18.0.0/24).
- An ECS named **ECS-Test** is running in **VPC-Test-02** (172.17.0.0/24).
- **IP as a Backend** is enabled for the dedicated load balancer **ELB-Test**, and **ECS-Test** in **VPC-Test-02** (172.17.0.0/24) is added to the backend server group associated with **ELB-Test**.

Figure 2-3 Topology



### Advantages

You can enable **IP as a Backend** for the dedicated load balancer to route incoming traffic to servers in different VPCs from the load balancer.

## Resource and Cost Planning

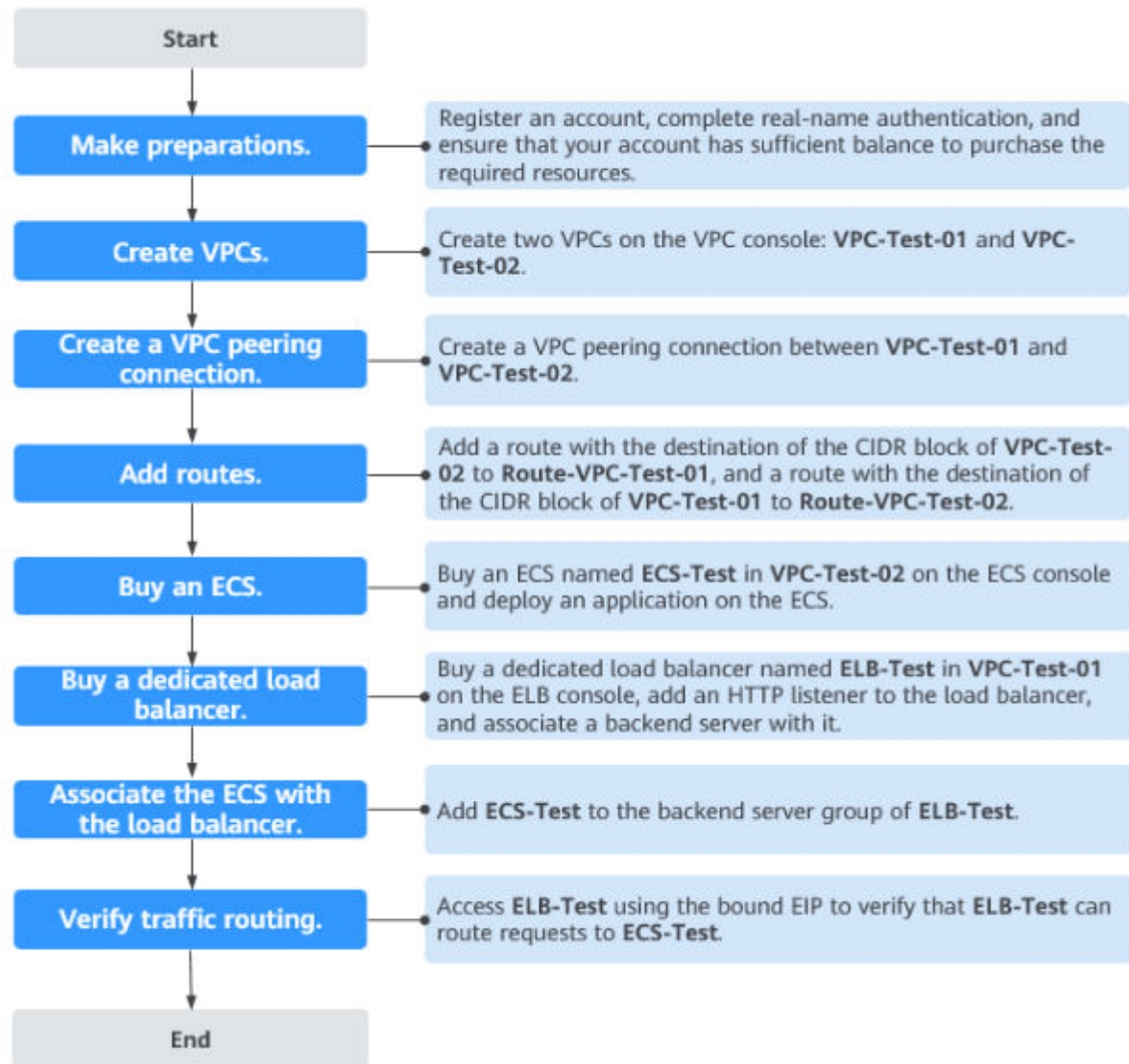
The actual cost shown on the Huawei Cloud console is used.

**Table 2-1** Resource planning

Resource Type	Resource Name	Description	Quantity
VPC	VPC-Test-01	The VPC where <b>ELB-Test</b> is running: 172.18.0.0/24	1
	VPC-Test-02	The VPC where <b>ECS-Test</b> is running: 172.17.0.0/24	1
VPC peering connection	Peering-Test	The connection that connects the VPC where <b>ELB-Test</b> is running and the VPC where <b>ECS-Test</b> is running <b>Local VPC: 172.18.0.0/24</b> <b>Peer VPC: 172.17.0.0/24</b>	1
Route table	Route-VPC-Test-01	The route table of <b>VPC-Test-01</b> <b>Destination: 172.17.0.0/24</b>	1
	Route-VPC-Test-02	The route table of <b>VPC-Test-02</b> <b>Destination: 172.18.0.0/24</b>	1
ELB	ELB-Test	The dedicated load balancer	1
EIP	EIP-Test	The EIP (119.3.233.52) bound to <b>ELB-Test</b>	1
ECS	ECS-Test	The ECS works in <b>VPC-Test-02</b> <b>Private IP address: 172.17.0.145</b>	1

## Operation Process

**Figure 2-4** Process of associating servers in a VPC that is different from the dedicated load balancer



## Creating VPCs

**Step 1** Log in to the management console.

**Step 2** Under **Networking**, select **Virtual Private Cloud**. On the **Virtual Private Cloud** page displayed, click **Create VPC**.

**Step 3** Configure the parameters as follows and click **Create Now**. For details on how to create a VPC, see the [Virtual Private Cloud User Guide](#).

- **Name:** **VPC-Test-01**
- **IPv4 CIDR Block:** **172.18.0.0/24**
- Configure other parameters as required.

**Figure 2-5** Creating VPC-Test-01

**Basic Information**

Region: [Region dropdown]

Name: VPC-Test-01

IPv4 CIDR Block: 172 · 18 · 0 · 0 / 24

Recommended: 10.0.0.0/8-24 (Select) 172.16.0.0/12-24 (Select) 192.168.0.0/16-24 (Select)

Enterprise Project: longterm-EPSTest- [Create Enterprise Project ?]

Advanced Settings ▾ Tag | Description

**Default Subnet**

**Step 4** Repeat **Step 2** and **Step 3** to create the other VPC.

- **Name:** VPC-Test-02
- **IPv4 CIDR Block:** 172.17.0.0/24
- Configure other parameters as required.

**Figure 2-6** Creating VPC-Test-02

Name	IPv4 CIDR Block	Status	Subnets	Route Ta...	Servers	Enterprise Project	Operation
VPC-Test-01	172.18.0.0/24 (Primary CIDR)	Available	1	1	0	longterm-EPSTes...	Edit CIDR Block   Delete
VPC-Test-02	172.17.0.0/24 (Primary CIDR)	Available	1	1	1	longterm-EPSTes...	Edit CIDR Block   Delete

----End

## Creating a VPC Peering Connection

**Step 1** In the navigation pane on the left, click **VPC Peering**.

**Step 2** In the upper right corner, click **Create VPC Peering Connection**.

**Step 3** Configure the parameters as follows and click **OK**. For details on how to create a VPC peering connection, see the [Virtual Private Cloud User Guide](#).


- **Name: Peering-Test**
- **Local VPC: VPC-Test-01**
- **Peer VPC: VPC-Test-02**
- Configure other parameters as required.

**Figure 2-7** Creating **Peering-Test**

### Create VPC Peering Connection


Local VPC Settings


\* Name

\* Local VPC  

Local VPC CIDR Block 172.18.0.0/24

Peer VPC Settings

\* Account  My account  Another account 

\* Peer Project  

\* Peer VPC

Peer VPC CIDR Block 172.17.0.0/24

Description   
0/255

----End

## Adding Routes for the VPC Peering Connection

**Step 1** In the navigation pane on the left, click **Route Tables**.

**Step 2** In the upper right corner, click **Create Route Table**.

**Step 3** Configure the parameters as follows and click **OK**. For details on how to create a route table, see the [Virtual Private Cloud User Guide](#).

- **Name:** Route-VPC-Test-01
- **VPC:** VPC-Test-01
- **Destination:** 172.17.0.0/24
- **Next Hop Type:** VPC peering connection
- **Next Hop:** Peering-Test

**Figure 2-8** Creating Route-VPC-Test-01

Create Route Table

\* Name

\* VPC

IPv4 CIDR Block: 172.18.0.0/24

You can create 0 more route tables for the selected VPC.

Description  0/255

Route Settings

Destination ?	Next Hop Type ?	Next Hop ?	Description
Local	Local	Local	Default route that enables instance communication within a VPC

**Step 4** Repeat **3** and **4** to create the other route table.

- **Name:** Route-VPC-Test-02
- **VPC:** VPC-Test-02
- **Destination:** 172.18.0.0/24
- **Next Hop Type:** VPC peering connection
- **Next Hop:** Peering-Test

-----End

## Creating an ECS

**Step 1** Under **Computing**, click **Elastic Cloud Server**.

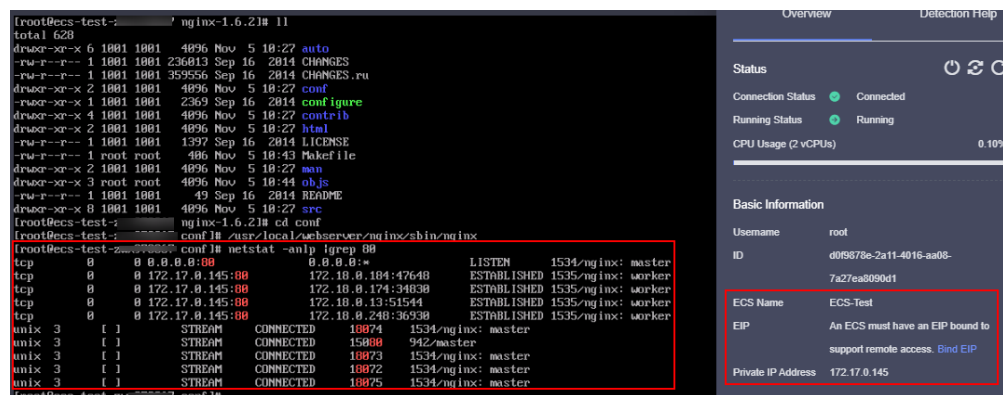
- Step 2** In the upper right corner, click **Buy ECS**.
- Step 3** Select **VPC-Test-02** as the **VPC** and set **ECS Name** to **ECS-Test**. Configure other parameters as required. For details, see [Elastic Cloud Server User Guide](#).

**Figure 2-9** Buying ECS-Test



- Step 4** Deploy Nginx on the ECS.

**Figure 2-10** Deploying Nginx on ECS-Test

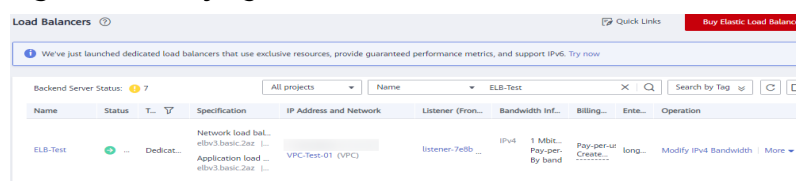


----End

## Buying a Dedicated Load Balancer and Adding an HTTP Listener and a Backend Server Group to the Load Balancer

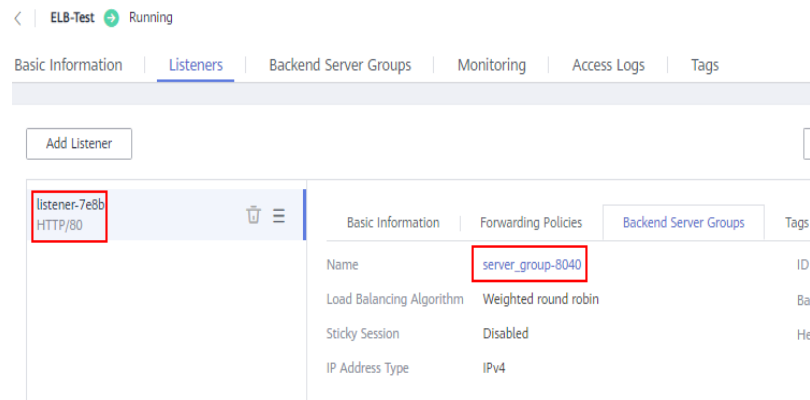
- Step 1** Under **Networking**, click **Elastic Load Balance**.
- Step 2** In the upper right corner, click **Buy Elastic Load Balancer**.
- Step 3** Configure the parameters as follows. For details, see [Elastic Load Balance User Guide](#).
  - **Type:** **Dedicated**
  - **IP as a Backend:** **Enable**
  - **VPC:** **VPC-Test-01**
  - **Name:** **ELB-Test**
  - Configure other parameters as required.

**Figure 2-11** Buying ELB-Test



- Step 4** Add an HTTP listener and a backend server group to the dedicated load balancer. For details, see [Elastic Load Balance User Guide](#).

**Figure 2-12** HTTP listener and backend server group



----End

## Adding the ECS to the Backend Server Group

- Step 1** Locate the created dedicated load balancer and click its name **ELB-Test**.
- Step 2** On the **Listeners** tab page, locate the HTTP listener added to the dedicated load balancer and click its name.
- Step 3** In the **Backend Server Groups** tab on the right, click **IP as Backend Servers**.

**Figure 2-13** IP as backend servers



- Step 4** Click **Add IP as Backend Server**, configure the parameters, and click **OK**. For details, see [Elastic Load Balance User Guide](#).
- **Backend Server IP Address:** 172.17.0.145 (private IP address of **ECS-Test**)
  - **Backend Port:** the port enabled for Nginx on **ECS-Test**
  - **Weight:** Set this parameter as required.



**Figure 2-14** Adding ECS-Test using its IP address

✕

### Add IP as Backend Server

**i** • Use the TOA module to obtain IP addresses of clients. [Learn more](#)

• Ensure that the security group that contains the backend servers has rules allowing access from the backend subnet of the load balancer. If access is not allowed, health checks will fail.

Batch Add Ports

**i** You can add 495 more IP as Backend Servers. [Increase quota](#)

Backend Server IP Address	Backend Port <span>?</span>	Weight <span>?</span>	Operation
<input type="text" value="0 . 0 . 0 . 0"/>	<input type="text"/>	<input type="text" value="1"/>	Remove

----End

## Verifying Traffic Routing

- Step 1** Locate the dedicated load balancer **ELB-Test** and click **More** in the **Operation** column.
- Step 2** Select **Bind IPv4 EIP** to bind an EIP (119.3.233.52) to **ELB-Test**.

**Figure 2-15** EIP bound to the load balancer

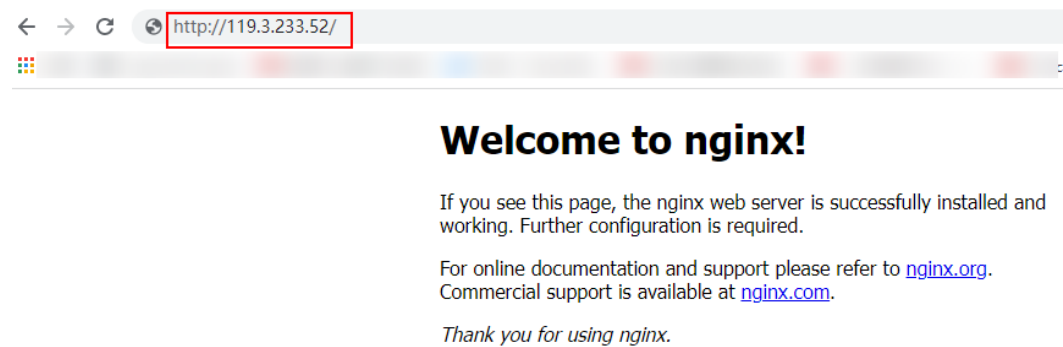
The screenshot shows the Elastic Load Balance console. At the top, there are navigation links for 'Elastic Load Balance', 'Process Flow', 'Feedback', 'Quick Links', and 'Buy Elastic Load Balancer'. A notification banner states: 'We've just launched dedicated load balancers that use exclusive resources, provide guaranteed performance metrics, and support IPv6. Try now'. Below the banner, there are buttons for 'Renew', 'Change Billing Mode', 'Unsubscribe', and 'Backend Server Status'. A search bar is present with the text 'Specify filter criteria'. The main content is a table with the following columns: NameID, Monit..., Status, Type, Specifications, IP Address and Network, Listener (Frontend Protoc..., Bandwidth Informa..., Billing Mode, Enterprise Project, and Operation. The table contains one entry for 'ELB\_Test' with a status of 'Running', type of 'Dedicated', and specifications of 'Application load bala...'. The IP Address and Network column shows '(Private IPv4 ad... VPC\_Test\_01 (VPC)'. The Listener (Frontend Protoc... column shows 'Listener HTTP(HTTP80)'. The Billing Mode column shows 'Pay-per-use Created on May 28, ...'. The Operation column has 'Add Listener' and 'More' options.

NameID	Monit...	Status	Type	Specifications	IP Address and Network	Listener (Frontend Protoc...	Bandwidth Informa...	Billing Mode	Enterprise Project	Operation
ELB_Test		Running	Dedicated	Application load bala...	(Private IPv4 ad... VPC_Test_01 (VPC)	Listener HTTP(HTTP80)	--	Pay-per-use Created on May 28, ...	default	Add Listener More

- Step 3** Enter **http://119.3.233.52/** in the address box of your browser to access the dedicated load balancer.

If the following page is displayed, the load balancer routes the request to **ECS-Test**, which processes the request and returns the requested page.

**Figure 2-16** Verifying that the request is routed to ECS-Test



----End

## 2.3 Routing Traffic to Backend Servers in the Same VPC as the Load Balancer

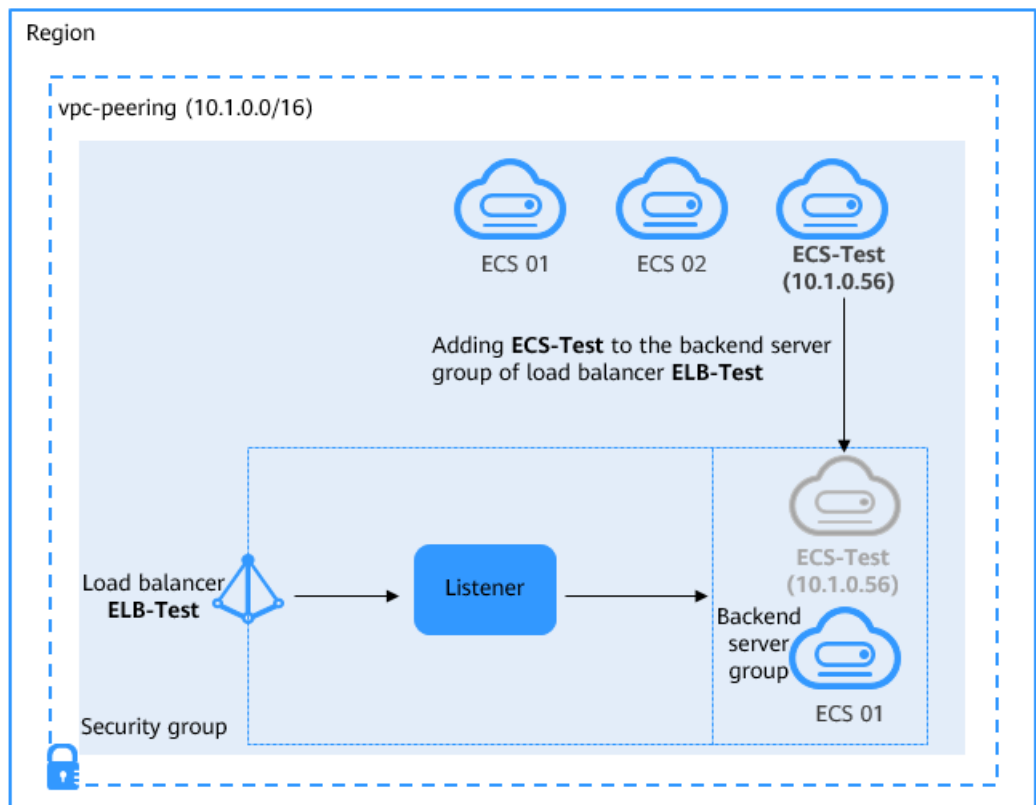
### Scenarios

You can route traffic to backend servers in the VPC where the load balancer is running.

### Solution

- A dedicated load balancer **ELB-Test** is running in a VPC named **vpc-peering** (10.1.0.0/16).
- The backend server **ECS-Test** is also running in **vpc-peering** (10.1.0.0/16).
- **ECS-Test** needs to be added to the backend server group associated with **ELB-Test**.

**Figure 2-17** Adding a backend server in the same VPC as the load balancer



## Advantages

You can add servers in the same VPC as the load balancer to the backend server group of the load balancer and then route incoming traffic to the servers.

## Resource and Cost Planning

The actual cost shown on the Huawei Cloud console is used.

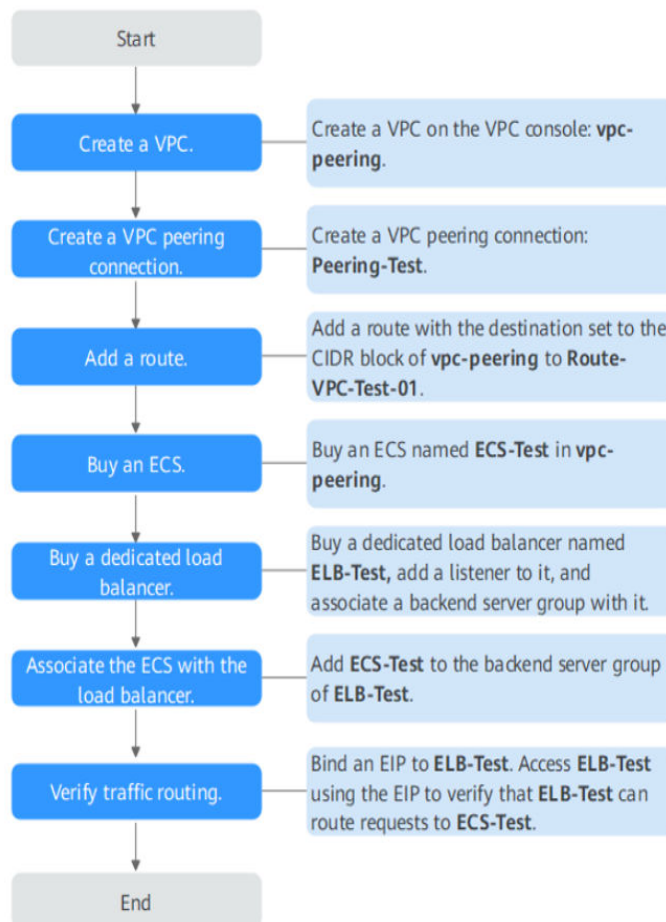
**Table 2-2** Resource planning

Resource Type	Resource Name	Description	Quantity
VPC	vpc-peering	The VPC where <b>ELB-Test</b> and <b>ECS-Test</b> are running: 10.1.0.0/16	1
VPC peering connection	Peering-Test	The connection that connects the VPC where <b>ELB-Test</b> is running and other VPCs <b>Local VPC: 10.1.0.0/16</b> <b>Peer VPC: any VPC</b>	1

Resource Type	Resource Name	Description	Quantity
Route table	Route-VPC-Test-01	The route table of <b>VPC-Test-01</b> <b>Destination: 10.1.0.0/16</b>	1
ELB	ELB-Test	The dedicated load balancer named <b>ELB-Test</b> <b>Private IP address: 10.1.0.9</b>	1
EIP	EIP-Test	The EIP (120.46.131.153) bound to <b>ELB-Test</b>	1
ECS	ECS-Test	The ECS works in <b>vpc-peering</b> <b>Private IP address: 10.1.0.56</b>	1

## Operation Process

**Figure 2-18** Process for adding backend servers in the same VPC as the load balancer



## Creating a VPC

- Step 1** Log in to the management console.
- Step 2** Under **Networking**, select **Virtual Private Cloud**. On the **Virtual Private Cloud** page displayed, click **Create VPC**.
- Step 3** Configure the parameters as follows and click **Create Now**. For details on how to create a VPC, see the [Virtual Private Cloud User Guide](#).
- **Name:** vpc-peering
  - **IPv4 CIDR Block:** 10.1.0.0/16
  - Configure other parameters as required.

**Figure 2-19** Creating vpc-peering

**Basic Information**

Region

Regions are geographic areas isolated from each other. Resources are region-specific and cannot be used across regions through internal network latency and quick resource access, select the nearest region.

Name

IPv4 CIDR Block  /

Enterprise Project  [Create Enterprise Project](#) ?

---

Advanced Settings ▼ Tag | Description

---

**Default Subnet**

AZ  ?

Name

IPv4 CIDR Block ?  /

Available IP Addresses: 251  
The CIDR block cannot be modified after the subnet has been created.

IPv6 CIDR Block  Enable ?

----End

## Creating a VPC Peering Connection

- Step 1** In the navigation pane on the left, click **VPC Peering**.
- Step 2** In the upper right corner, click **Create VPC Peering Connection**.

**Step 3** Configure the parameters as follows and click **OK**. For details on how to create a VPC peering connection, see the [Virtual Private Cloud User Guide](#).

- **Name:** Peering-Test
- **Local VPC:** vpc-peering
- **Peer VPC:** any VPC
- Configure other parameters as required.

**Figure 2-20** Creating Peering-Test

**Create VPC Peering Connection**

**i** A VPC peering connection allows two VPCs to communicate with each other if they are in the same region.  
If you need two VPCs in different regions to communicate with each other, use [Cloud Connect](#).

Local VPC Settings

* Name	Peering-Test
* Local VPC	vpc-peering
Local VPC CIDR Block	10.1.0.0/16

Peer VPC Settings

* Account	My account	Another account	?
* Peer Project			?
* Peer VPC			
Peer VPC CIDR Block			

**OK** Cancel

----End

## Adding Routes for the VPC Peering Connection

**Step 1** In the navigation pane on the left, click **Route Tables**.

**Step 2** In the upper right corner, click **Create Route Table**.

**Step 3** Configure the parameters as follows and click **OK**. For details on how to create a route table, see the [Virtual Private Cloud User Guide](#).

- **Name:** Route-VPC-Test-01
- **VPC:** vpc-peering
- **Destination:** 10.1.0.0/16
- **Next Hop Type:** VPC peering connection

- **Next Hop: Peering-Test**

**Figure 2-21** Creating Route-VPC-Test-01

**Create Route Table**

Name: Route-VPC-Test-01

VPC: vpc-peering

IPv4 CIDR block: 10.1.0.0/16

You can create 1 more route tables for the selected VPC.

Description: [Empty text box]

Route Settings

Destination	Next Hop Type	Next Hop	Description
Local	Local	Local	Default route that enables instance communication within a VPC
10.1.0.0/16	VPC peerin...	Peering-Test(dc0e99f2-4419-4ed9-9-...	

+ Add Route

OK Cancel

----End

## Creating an ECS

**Step 1** Under **Computing**, click **Elastic Cloud Server**.

**Step 2** In the upper right corner, click **Buy ECS**.

**Step 3** Configure the parameters as required. For details, see [Elastic Cloud Server User Guide](#).

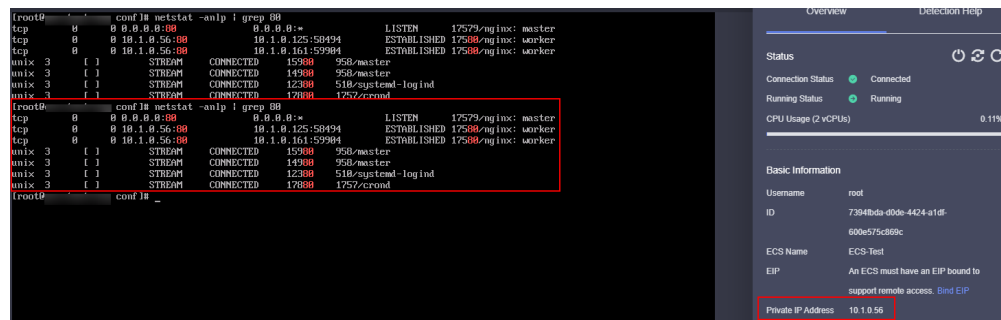
Select **vpc-peering** for VPC and set **Name** to **ECS-Test**.

**Figure 2-22** Buying ECS-Test

Name/ID	Monitoring	AZ	Status	Specifications/Image	IP Address	Billing Mode	Enterprise Project	Tag	Operation
ECS-Test i-7394fbc5-0506-4424-a10f-600e575c899c		AZ2	Running	2 vCPUs   4 GB   CentOS 7.6.64bit	10.1.0.56 (Private L...)	Pay-per-use Created on May ...	longterm-EPSTe...	--	Remote Login   More

**Step 4** Deploy Nginx on the ECS.

Figure 2-23 Deploying Nginx on ECS-Test



----End

## Buying a Dedicated Load Balancer and Adding an HTTP Listener and a Backend Server Group to the Load Balancer

- Step 1** Under **Networking**, click **Elastic Load Balance**.
- Step 2** In the upper right corner, click **Buy Elastic Load Balancer**.
- Step 3** Configure the parameters as follows. For details, see [Elastic Load Balance User Guide](#).
  - **Type:** **Dedicated**
  - **IP as a Backend:** **Enable**
  - **VPC:** **vpc-peering**
  - **Name:** **ELB-Test**
  - Configure other parameters as required.

Figure 2-24 Creating a dedicated load balancer named ELB-Test



- Step 4** Add an HTTP listener and a backend server group to the created dedicated load balancer. For details, see [Elastic Load Balance User Guide](#).

----End

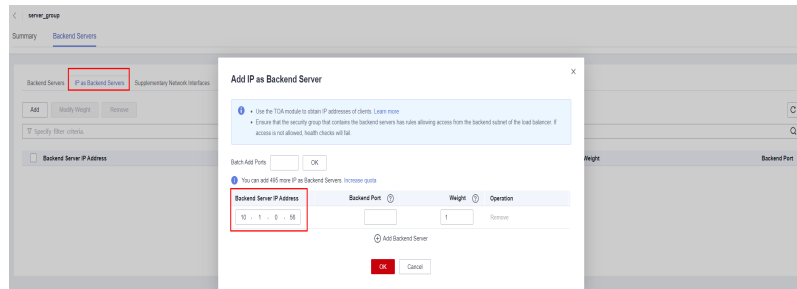
## Adding the ECS to the Backend Server Group

- Step 1** Locate the dedicated load balancer and click its name **ELB-Test**.
- Step 2** On the **Listeners** tab page, locate the HTTP listener added to the dedicated load balancer and click its name.
- Step 3** In the **Backend Server Groups** tab on the right, click **IP as Backend Servers**.
- Step 4** Click **Add IP as Backend Server**, configure the parameters, and click **OK**. For details, see [Elastic Load Balance User Guide](#).



- **Backend Server IP Address: 10.1.0.56** (private IP address of **ECS-Test**)
- **Backend Port:** the port enabled for Nginx on **ECS-Test**
- **Weight:** Configure this parameter as required.

Figure 2-25 Adding IP as backend servers

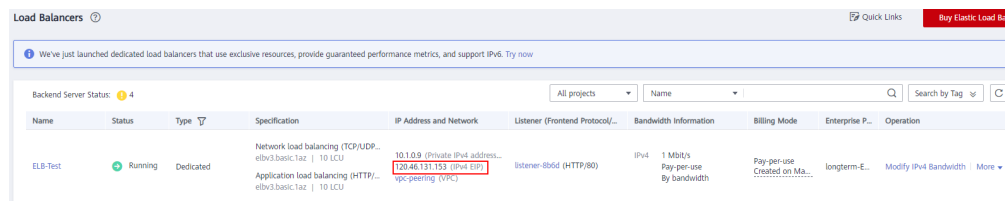


----End

## Verifying Traffic Routing

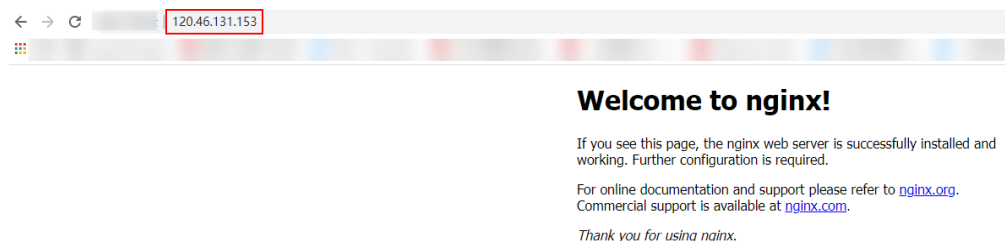
- Step 1** Locate the dedicated load balancer **ELB-Test** and click **More** in the **Operation** column.
- Step 2** Select **Bind IPv4 EIP** to bind an EIP (120.46.131.153) to **ELB-Test**.

Figure 2-26 EIP bound to the load balancer



- Step 3** Enter **http://120.46.131.153/** in the address box of your browser to access the dedicated load balancer. If the following page is displayed, the load balancer routes the request to **ECS-Test**. After receiving the request from the load balancer, **ECS-Test** processes the request and returns the requested page.

Figure 2-27 Verifying traffic routing



----End