

Auto Scaling

Getting Started

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<https://securitybulletin.huawei.com/enterprise/en/security-advisory>

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1 Scaling Your Website Dynamically

Scenarios

When service requirements change frequently and irregularly, you can configure alarm-based AS policies in your application system to adjust resources dynamically. When the conditions of a policy are met, the system automatically changes the expected number of instances to trigger a scaling action to add or remove instances. This reduces the workload of manual resource adjustments caused by service changes or peak hours, helping you save resource and labor costs.

Assume that you are an e-commerce vendor that runs a website on an ECS. If you plan to launch a big sales promotion at 00:00 on a certain day but the ECS is unable to handle service requests during peak hours, you can address this issue according to the guidance of this section.

Procedure

Step	Description
Step 1: Create an AS Configuration	Configure the specifications, image, and disks for new ECS instances.
Step 2: Create an AS Group	Configure the maximum, minimum, and expected number of instances and other parameters.
Step 3: Add an AS Policy	Create an AS policy to adjust service resources.
(Optional) Step 4: Manually Add Instances	Add instances to the AS group when the group is enabled, no scaling action is in progress in it, and the number of instances in it is less than the maximum allowed.
(Optional) Step 5: View Monitoring Data	View monitoring data changes during the scaling action.

Step 1: Create an AS Configuration

In this step, create an AS configuration using the example settings. For more information, see [AS Configuration](#).

1. Log in to the [AS console](#).
2. Click **Create AS Configuration** and set parameters.

Figure 1-1 Creating an AS configuration

The screenshot shows the configuration interface for creating an AS configuration. The settings are as follows:

- Billing Mode:** Pay-per-use (selected), Spot pricing.
- Region:** CN-Hong Kong.
- Name:** as-config-3817.
- Configuration Template:** Create new template (selected), Use existing ECS.
- CPU Architecture:** x86 (selected), Kunpeng.
- Specifications:** Latest generation, vCPUs: All, Memory (GiB): All. Filtered by General computing.

ECS Type	Flavor Name	vCPUs Memory (...)	CPU	Assured / Maximum Bandwidth	Packets Per Second
<input type="checkbox"/> General computing s7n	s7n.small.05 (Sold out ...)	1 vCPUs 0.5 GiB	Intel Ice Lake 2.6GHz	0.1/0.8 Gbit/s	100,000
<input type="checkbox"/> General computing s7n	s7n.small.1 (Sold out i...)	1 vCPUs 1 GiB	Intel Ice Lake 2.6GHz	0.1/0.8 Gbit/s	100,000
<input type="checkbox"/> General computing s7n	s7n.medium.2 (Sold ou...)	1 vCPUs 2 GiB	Intel Ice Lake 2.6GHz	0.1/0.8 Gbit/s	100,000
<input type="checkbox"/> General computing s7n	s7n.medium.4 (Sold ou...)	1 vCPUs 4 GiB	Intel Ice Lake 2.6GHz	0.1/0.8 Gbit/s	100,000
<input type="checkbox"/> General computing s7n	s7n.large.025 (Sold ou...)	2 vCPUs 0.5 GiB	Intel Ice Lake 2.6GHz	0.2/1.5 Gbit/s	150,000
<input checked="" type="checkbox"/> General computing s7n	s7n.large.2 (Sold out in...)	2 vCPUs 4 GiB	Intel Ice Lake 2.6GHz	0.2/1.5 Gbit/s	150,000
<input type="checkbox"/> General computing s7n	s7n.large.4 (Sold out in...)	2 vCPUs 8 GiB	Intel Ice Lake 2.6GHz	0.2/1.5 Gbit/s	150,000
<input type="checkbox"/> General computing s7n	s7n.xlarge.2 (Sold out l...)	4 vCPUs 8 GiB	Intel Ice Lake 2.6GHz	0.35/2 Gbit/s	250,000

Currently selected: s7n.large.2. The selected flavor is preferentially used for scaling. You can click a selected flavor to view its details. You can select 9 more flavors.

Selected flavor: s7n.large.2

Summary: General computing | s7n.large.2 | 2 vCPUs | 4 GiB

★ Image Public image Private image Shared image

CentOS CentOS 8.2 64bit (40 GiB)

CentOS 8 reached End of Life on December 31, 2021. [Select an alternative solution](#)

★ Disk EVS

System Disk General Purpose SSD - 100 + GiB IOPS limit: 3,000, IOPS burst limit: 8,000

You can add 23 more disks.

★ Security Group default (Inbound:TCP | Outbound: -)

Similar to a firewall, a security group logically controls network access. [Learn how](#) to create a security group.

Inbound: TCP | Outbound: -

EIP Do not use Automatically assign

An ECS without an EIP cannot access the Internet. However, it can still be used to deploy services or clusters in a private network.

★ Login Mode Key pair Password

The private key will be required for logging in to the ECS and for reinstalling or changing the OS. Keep it secure.

★ Key Pair KeyPair-2325

I acknowledge that I have the private key file KeyPair-2325.pem and that I will not be able to log in to my ECS without this file.

Advanced Settings Do not configure Configure now

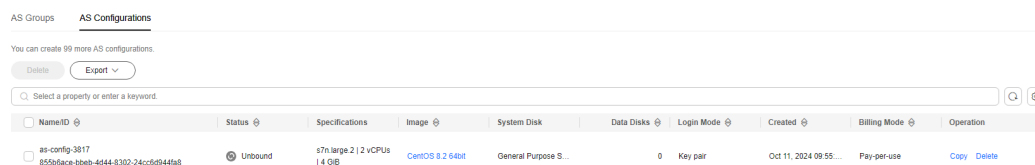
Table 1-1 Parameters for creating an AS configuration

Parameter	Example	Description
Billing Mode	Pay-per-use	Resources will be billed based on the usage duration. You can provision or delete resources at any time. For more information, see Billing Overview .
Region	CN-Hong Kong	For low network latency and fast resource access, select the region nearest to your target users. For more information, see Region and AZ .
Name	as-config-3817	Enter a name for the AS configuration.
Configuration Template	Create new template	Configure the specifications, image, disks, and other parameters for the instance.

Parameter	Example	Description
CPU Architecture	x86	x86 uses Complex Instruction Set Computing (CISC).
Specifications	s7n.xlarge.2	Select a flavor based on service requirements. For more information, see A Summary List of x86 ECS Specifications .
Image	CentOS 8.2 64bit(40GiB)	The example is a free public Linux image provided by Huawei Cloud.
Disk	General Purpose SSD, 100 GiB	This is a system disk that will be created together with an instance. They are used to store the OS of each instance.
Security Group	default	Use the default security group.
EIP	Do not use	If the instances need to access the Internet, you can configure EIPs for them.
Login Mode	Key pair	Set Login Mode to Key pair .
Key Pair	KeyPair-2325	Use an existing or create a new key pair. Ensure that you have obtained the private key.
Advanced Settings	Do not configure	-

3. Click **Create Now**.
4. Click **Back to AS Configuration List** to view the new AS configuration.

Figure 1-2 Viewing an AS configuration



Step 2: Create an AS Group

In this step, create an AS group using the example settings. For more information, see [AS Group](#).

1. Click **Create AS Group** and set parameters.

Figure 1-3 Creating an AS group

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

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

* Multi-AZ Scaling Policy Balanced Sequenced
Regions are geographic areas isolated from each other. Resources are region-specific and cannot be used across regions through internal network connections. For low network latency and quick resource access, select the nearest region.

* Name

* Max. Instances

* Expected Instances

* Min. Instances

The selected AS configuration serves as a specifications template for the instances in your AS group. After a subnet is selected, an IP address will be automatically assigned to each instance in the AS group.

* AS Configuration +

* VPC [Create VPC](#)

* Subnet This subnet is used by the primary NIC.
 Source/Destination Check
[Add Subnet](#) You can add 4 more subnets. [Create Subnet](#)

Load Balancing

* Instance Removal Policy

EIP
Select Release if you want to release ECS EIPs when the ECSs are removed from the AS group. Select Do not release if you want to unbind EIPs from ECSs but do not release them. These EIPs will continue to be billed.

Data Disk
Select Delete if you want to delete ECS data disks when the ECSs are removed from the AS group. Select Do not delete if you want to detach data disks from ECSs but do not release them. These data disks will continue to be billed.

* Health Check Method
If a protected instance is identified as unhealthy in a health check, AS replaces the instance with a new one.

* Health Check Interval

* Health Check Grace Period (s)

* Enterprise Project

Tag It is recommended that you use TMS's predefined tag function to add the same tag to different cloud resources. [View predefined tags](#)

You can add 10 more tags.

Agency [Create Agency](#)

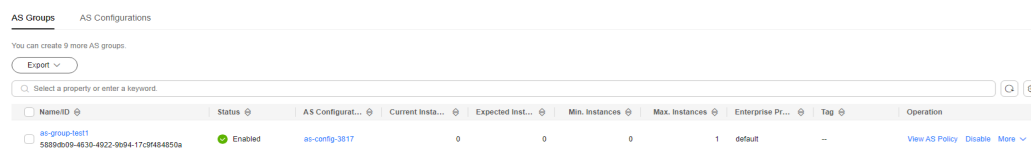
Table 1-2 Parameters for creating an AS group

Parameter	Example	Description
Region	CN-Hong Kong	For low network latency and fast resource access, select the region nearest to your target users. For more information, see Region and AZ .
AZ	AZ1, AZ2, AZ3, AZ7	AZs are physically isolated but interconnected over an intranet.
Multi-AZ Scaling Policy	Balanced	This policy ensures that the number of instances in each of the selected AZs is balanced.
Name	as-group-test1	Enter a name for the AS group.
Max. Instances	1	Specify the maximum number of instances in the AS group.
Expected Instances	0	Specify the desired number of instances in the AS group.
Min. Instances	0	Specify the minimum number of instances in the AS group.
AS Configuration	as-config-3817	Select the AS configuration created in Step 1: Create an AS Configuration .
VPC	vpc-default-smb	Use the default VPC and subnet.
Subnet	subnet-default-smb	For more information, see VPC Network Planning Suggestions .
Load Balancing	Do not use	This parameter is optional. For more information, see Creating an AS Group .
Instance Removal Policy	Oldest instance created from oldest AS configuration	With this policy, instances that use the oldest AS configuration are removed from the AS group first.
EIP	Release	With this option, when an instance is removed from an AS group, its EIP will be released.

Parameter	Example	Description
Data Disk	Delete	With this option, when an instance is removed from the AS group, all data disks attached to it will be deleted
Health Check Method	ECS health check	With this method, AS checks whether instances are running. If an instance fails the health check, AS removes it from the AS group.
Health Check Interval	5 minutes	Specify the interval between health checks.
Health Check Grace Period (s)	600	Specify how long AS must wait before checking the health status of an instance after the instance is enabled in an AS group.
Enterprise Project	default	Specify the enterprise project where the AS group is managed. Instances in this AS group are also managed under the same project.

2. Click **Create Now**.
3. Click **Back to AS Group List** to view the new AS group.

Figure 1-4 Viewing an AS group



Step 3: Add an AS Policy

1. In the AS group list, locate the AS group and click **View AS Policy** in the **Operation** column. Then, click **Add AS Policy**.
2. Configure the parameters for adding an AS policy.

Figure 1-5 Parameters for adding an AS policy

Add AS Policy

Policy Name:

Policy Type: **Alarm** | Scheduled | Periodic

Policies of this type are applied only when their associated alarm rules are enabled. [View alarm rules](#)

Alarm Rule: **Create** | Use existing

Rule Name:

Monitoring Type: **System monitoring** | Custom monitoring

Trigger Condition: CPU Usage | Max. | > | %

If you select a metric starting with (Agent), the Agent must be installed on all instances in the AS group. [Learn more](#)

For more information about AS monitoring metrics, see [Monitoring Metrics](#).

The metrics that can be monitored vary somewhat by OS. [Learn more](#)

Monitoring Interval:

Consecutive Occurrences:

Enterprise Project:

The enterprise project the alarm rule belongs to.

Alarm Policy Type: **Simplified scaling** | Refined scaling

Scaling Action: Add | | instances

Cooldown Period (s):

Table 1-3 Alarm-based AS policy parameters

Parameter	Example	Description
Policy Name	as-policy-e26c	Enter a name for the AS policy.
Policy Type	Alarm	Set Policy Type to Alarm .
Alarm Rule	Create	You can choose either to create a new alarm rule or use an existing one.
Rule Name	as-alarm-43bd	Enter a name for the alarm rule.
Monitoring Type	System monitoring	You can choose either System monitoring or Custom monitoring .
Trigger Condition	CPU Usage Max. > 90%	-
Monitoring Interval	5 minutes	-

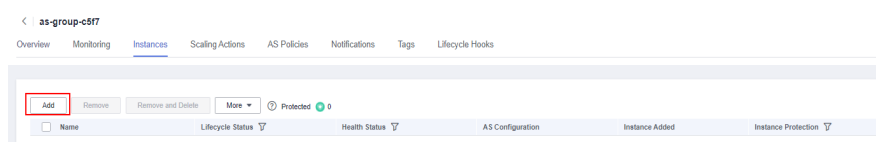
Parameter	Example	Description
Consecutive Occurrences	3	-
Enterprise Project	default	The default enterprise project is default .
Alarm Policy Type	Simplified scaling	-
Scaling Action	Add 2 instances	Specify an action and the number or percentage of instances. The value can be Add , Reduce , or Set to .
Cooldown Period (s)	300	To prevent an alarm-based policy from being repeatedly triggered by the same event, you can set a cooldown period.

3. Click **OK**.

(Optional) Step 4: Manually Add Instances

1. Click the name of the AS group. Click the **Instances** tab.
2. Select the instance to be added and click **Add**.

Figure 1-6 Manually adding instances



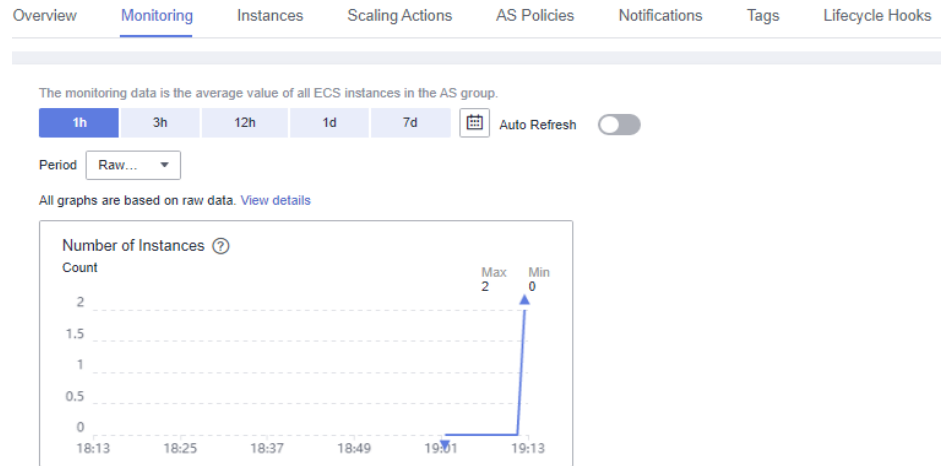
NOTE

Instances can be added to an AS group only when the group is enabled, no scaling action is in progress in it, and the number of instances in it is less than the maximum allowed.

(Optional) Step 5: View Monitoring Data

Click the name of the AS group and then click the **Monitoring** tab. You can view monitoring data changes of the AS group's scaling actions. AS can monitor CPU status in real time and perform scaling actions based on configured policies. This meets service requirements and reduces costs.

Figure 1-7 Viewing monitoring data



2 Scaling Your Website on a Schedule

Scenarios

When service requirements change regularly, you can configure AS policies in your application system to adjust resources on a scheduled basis. When the conditions of a policy are met, the system automatically changes the expected number of instances to trigger a scaling action to add or remove instances. This reduces the workload of manual resource adjustments during peak hours, helping you save resource and labor costs.

Assume that you are an e-commerce vendor that runs a website on an ECS. If you plan to launch a big sales promotion at 00:00 on a certain day but the ECS is unable to handle service requests during peak hours, two ECSs need to be automatically added to the application system at about 23:30 on the previous day, you can address this issue according the guidance of this section.

Procedure

Step	Description
Step 1: Create an AS Configuration	Configure the specifications, image, and disks for new ECS instances.
Step 2: Create an AS Group	Configure the maximum, minimum, and expected number of instances and other parameters.
Step 3: Add an AS Policy	Create an AS policy to adjust service resources.
(Optional) Step 4: Manually Add Instances	Add instances to the AS group when the group is enabled, no scaling action is in progress in it, and the number of instances in it is less than the maximum allowed.
(Optional) Step 5: Viewing the Number of Instances	After a scaling action is triggered, check whether the number of instances in the AS group is the same as the expected number of instances.

Step 1: Create an AS Configuration

In this step, create an AS configuration using the example settings. For more information, see [AS Configuration](#).

1. Log in to the [AS console](#).
2. Click **Create AS Configuration** and set parameters.

Figure 2-1 Creating an AS configuration

The screenshot shows the configuration interface for creating an AS configuration. The settings are as follows:

- Billing Mode:** Pay-per-use (selected), Spot pricing.
- Region:** CN-Hong Kong.
- Name:** as-config-3817.
- Configuration Template:** Create new template (selected), Use existing ECS.
- CPU Architecture:** x86 (selected), Kunpeng.
- Specifications:** Latest generation, vCPUs: All, Memory (GIB): All. Filtered by General computing.

ECS Type	Flavor Name	vCPUs Memory (...)	CPU	Assured / Maximum Bandwidth	Packets Per Second
<input type="checkbox"/> General computing s7n	s7n.small.05 (Sold out ...)	1 vCPUs 0.5 GIB	Intel Ice Lake 2.6GHz	0.1/0.8 Gbit/s	100,000
<input type="checkbox"/> General computing s7n	s7n.small.1 (Sold out i...)	1 vCPUs 1 GIB	Intel Ice Lake 2.6GHz	0.1/0.8 Gbit/s	100,000
<input type="checkbox"/> General computing s7n	s7n.medium.2 (Sold ou...)	1 vCPUs 2 GIB	Intel Ice Lake 2.6GHz	0.1/0.8 Gbit/s	100,000
<input type="checkbox"/> General computing s7n	s7n.medium.4 (Sold ou...)	1 vCPUs 4 GIB	Intel Ice Lake 2.6GHz	0.1/0.8 Gbit/s	100,000
<input type="checkbox"/> General computing s7n	s7n.large.025 (Sold ou...)	2 vCPUs 0.5 GIB	Intel Ice Lake 2.6GHz	0.2/1.5 Gbit/s	150,000
<input checked="" type="checkbox"/> General computing s7n	s7n.large.2 (Sold out in...)	2 vCPUs 4 GIB	Intel Ice Lake 2.6GHz	0.2/1.5 Gbit/s	150,000
<input type="checkbox"/> General computing s7n	s7n.large.4 (Sold out in...)	2 vCPUs 8 GIB	Intel Ice Lake 2.6GHz	0.2/1.5 Gbit/s	150,000
<input type="checkbox"/> General computing s7n	s7n.xlarge.2 (Sold out l...)	4 vCPUs 8 GIB	Intel Ice Lake 2.6GHz	0.35/2 Gbit/s	250,000

Currently selected: s7n.large.2. The selected flavor is preferentially used for scaling. You can click a selected flavor to view its details. You can select 9 more flavors.

★ Image Public image Private image Shared image

CentOS CentOS 8.2 64bit (40 GiB)

CentOS 8 reached End of Life on December 31, 2021. [Select an alternative solution](#)

★ Disk EVS

System Disk General Purpose SSD - 100 + GiB IOPS limit: 3,000, IOPS burst limit: 8,000

You can add 23 more disks.

★ Security Group default (Inbound:TCP | Outbound: -) X

Similar to a firewall, a security group logically controls network access. [Learn how](#) to create a security group.

Inbound: TCP | Outbound: -

EIP Do not use Automatically assign

An ECS without an EIP cannot access the Internet. However, it can still be used to deploy services or clusters in a private network.

★ Login Mode Key pair Password

The private key will be required for logging in to the ECS and for reinstalling or changing the OS. Keep it secure.

★ Key Pair KeyPair-2325

I acknowledge that I have the private key file KeyPair-2325.pem and that I will not be able to log in to my ECS without this file.

Advanced Settings Do not configure Configure now

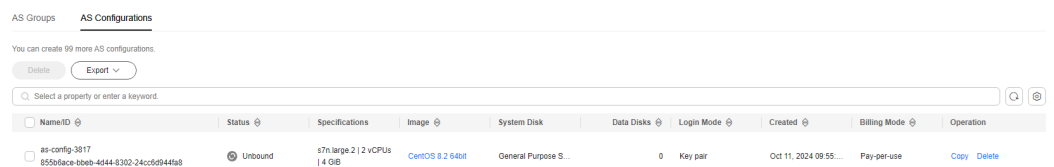
Table 2-1 Parameters for creating an AS configuration

Parameter	Example	Description
Billing Mode	Pay-per-use	Resources will be billed based on the usage duration. You can provision or delete resources at any time. For more information, see Billing Overview .
Region	CN-Hong Kong	For low network latency and fast resource access, select the region nearest to your target users. For more information, see Region and AZ .
Name	as-config-3817	Enter a name for the AS configuration.
Configuration Template	Create new template	Configure the specifications, image, disks, and other parameters for the instance.

Parameter	Example	Description
CPU Architecture	x86	x86 uses Complex Instruction Set Computing (CISC).
Specifications	s7n.xlarge.2	Select a flavor based on service requirements. For more information, see A Summary List of x86 ECS Specifications .
Image	CentOS 8.2 64bit(40GiB)	The example is a free public Linux image provided by Huawei Cloud.
Disk	General Purpose SSD, 100 GiB	This is a system disk that will be created together with an instance. They are used to store the OS of each instance.
Security Group	default	Use the default security group.
EIP	Do not use	If the instances need to access the Internet, you can configure EIPs for them.
Login Mode	Key pair	Set Login Mode to Key pair .
Key Pair	KeyPair-2325	Use an existing or create a new key pair. Ensure that you have obtained the private key.
Advanced Settings	Do not configure	-

3. Click **Create Now**.
4. Click **Back to AS Configuration List** to view the new AS configuration.

Figure 2-2 Viewing an AS configuration



Step 2: Create an AS Group

In this step, create an AS group using the example settings. For more information, see [AS Group](#).

1. Click **Create AS Group** and set parameters.

Figure 2-3 Creating an AS group

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

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

* Multi-AZ Scaling Policy Balanced Sequenced
Regions are geographic areas isolated from each other. Resources are region-specific and cannot be used across regions through internal network connections. For low network latency and quick resource access, select the nearest region.

* Name

* Max. Instances

* Expected Instances

* Min. Instances

The selected AS configuration serves as a specifications template for the instances in your AS group. After a subnet is selected, an IP address will be automatically assigned to each instance in the AS group.

* AS Configuration +

* VPC [Create VPC](#)

* Subnet This subnet is used by the primary NIC.
 Source/Destination Check

+ Add Subnet You can add 4 more subnets. [Create Subnet](#)

Load Balancing

* Instance Removal Policy

EIP
Select Release if you want to release ECS EIPs when the ECSs are removed from the AS group. Select Do not release if you want to unbind EIPs from ECSs but do not release them. These EIPs will continue to be billed.

Data Disk
Select Delete if you want to delete ECS data disks when the ECSs are removed from the AS group. Select Do not delete if you want to detach data disks from ECSs but do not release them. These data disks will continue to be billed.

* Health Check Method
If a protected instance is identified as unhealthy in a health check, AS replaces the instance with a new one.

* Health Check Interval

* Health Check Grace Period (s)

* Enterprise Project

Tag
It is recommended that you use TMS's predefined tag function to add the same tag to different cloud resources. [View predefined tags](#)

You can add 10 more tags.

Agency [Create Agency](#)

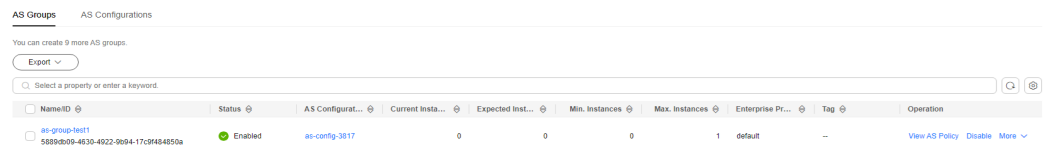
Table 2-2 Parameters for creating an AS group

Parameter	Example	Description
Region	CN-Hong Kong	For low network latency and fast resource access, select the region nearest to your target users. For more information, see Region and AZ .
AZ	AZ1, AZ2, AZ3, AZ7	AZs are physically isolated but interconnected over an intranet.
Multi-AZ Scaling Policy	Balanced	This policy ensures that the number of instances in each of the selected AZs is balanced.
Name	as-group-test1	Enter a name for the AS group.
Max. Instances	1	Specify the maximum number of instances in the AS group.
Expected Instances	0	Specify the desired number of instances in the AS group.
Min. Instances	0	Specify the minimum number of instances in the AS group.
AS Configuration	as-config-3817	Select the AS configuration created in Step 1: Create an AS Configuration .
VPC	vpc-default-smb	Use the default VPC and subnet.
Subnet	subnet-default-smb	For more information, see VPC Network Planning Suggestions .
Load Balancing	Do not use	This parameter is optional. For more information, see Creating an AS Group .
Instance Removal Policy	Oldest instance created from oldest AS configuration	With this policy, instances that use the oldest AS configuration are removed from the AS group first.
EIP	Release	With this option, when an instance is removed from an AS group, its EIP will be released.

Parameter	Example	Description
Data Disk	Delete	With this option, when an instance is removed from the AS group, all data disks attached to it will be deleted
Health Check Method	ECS health check	With this method, AS checks whether instances are running. If an instance fails the health check, AS removes it from the AS group.
Health Check Interval	5 minutes	Specify the interval between health checks.
Health Check Grace Period (s)	600	Specify how long AS must wait before checking the health status of an instance after the instance is enabled in an AS group.
Enterprise Project	default	Specify the enterprise project where the AS group is managed. Instances in this AS group are also managed under the same project.

2. Click **Create Now**.
3. Click **Back to AS Group List** to view the new AS group.

Figure 2-4 Viewing an AS group



Step 3: Add an AS Policy

1. In the AS group list, locate the AS group and click **View AS Policy** in the **Operation** column. Then, click **Add AS Policy**.
2. Configure the parameters for adding an AS policy.

Figure 2-5 Parameters for adding an AS policy

The screenshot shows a dialog box titled "Add AS Policy" with a close button (X) in the top right corner. The dialog contains the following fields and options:

- Policy Name:** as-policy-61b8
- Policy Type:** Alarm, **Scheduled**, Periodic
- Time Zone:** GMT+08:00
- Triggered On:** Dec 25, 2025 23:30:00. Below this field is a note: "The specified time must be later than the default time and the current system time."
- Scaling Action:** Add (dropdown), 2 (input), instances (dropdown)
- Cooldown Period (s):** 300

At the bottom right of the dialog are "Cancel" and "OK" buttons.

Table 2-3 Scheduled AS policy parameters

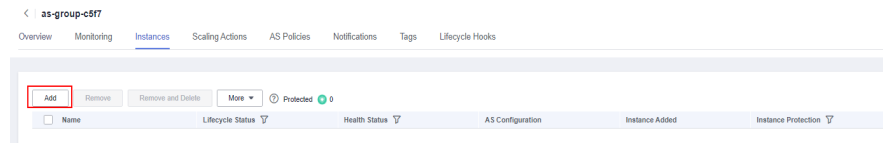
Parameter	Example	Description
Policy Name	as-policy-61b8	Enter a name for the AS policy.
Policy Type	Scheduled	Set Policy Type to Scheduled policy .
Time Zone	GMT+08:00	The default value is GMT+08:00 . GMT+08:00 indicates the time is 8 hours ahead of the Greenwich Mean Time (GMT).
Triggered On	2025/12/03 23:30:00	Specify the time when the AS policy will be triggered. The example is for reference only. You can change it as needed.
Scaling Action	Add 2 instances	Specify an action and the number or percentage of instances. If two instances need to be added, set the action to Add two instances . The value can be Add , Reduce , or Set to .
Cooldown Period (s)	300	A cooldown period (in seconds) is the period of time between two scaling actions.

3. Click **OK**.

(Optional) Step 4: Manually Add Instances

1. Click the name of the AS group. Click the **Instances** tab.
2. Select the instance to be added and click **Add**.

Figure 2-6 Manually adding instances



NOTE

Add instances to the AS group when the group is enabled, no scaling action is in progress in it, and the number of instances in it is less than the maximum allowed.

(Optional) Step 5: Viewing the Number of Instances

- Before the scaling action is triggered, the AS group has only two instances. Both the number of current instances and the expected number of instances are **2**.

Figure 2-7 Before the scaling action is triggered

The screenshot shows the 'AS Configurations' page. At the top, there are filters for 'All AS Groups' and 'All statuses'. Below the filters, there is a table with the following data:

Name	Status	AS Configuration	Current Instances	Expected Instances	Min. Instances	Max. Instances	Enterprise Project	Operation
as-group-c8f7	Enabled	as-config-f50r	2	2	0	10	default	View AS Policy Disable More

- After the scaling action is triggered, the AS group automatically adds two instances based on the AS policy. The number of instances is **4**, and the expected number of instances is **4**.

Two instances are added to the application system. In total, there will be four instances processing services, meeting service requirements during peak hours.

Figure 2-8 After the scaling action is triggered

The screenshot shows the 'AS Configurations' page after the scaling action. The table now shows 4 current instances and 4 expected instances.

Name	Status	AS Configuration	Current Instances	Expected Instances	Min. Instances	Max. Instances	Enterprise Project	Operation
as-group-c8f7	Enabled	as-config-f50r	4	4	0	10	default	View AS Policy Disable More

3 Scaling Your EIP Bandwidth Periodically

Scenarios

If your services are bandwidth-intensive and the required bandwidth changes periodically, you can configure AS policies in your application system to adjust the bandwidth periodically. When the conditions of a bandwidth scaling policy are met, the system automatically adjusts the bandwidth. This reduces manual adjustment workloads during peak hours and helps you save resource and labor costs.

For example, a live streaming website broadcasts the most watched movies at 20:00 for two hours every day. The EIP bandwidth is 5 Mbit/s, which cannot handle the traffic peak. You need to adjust the bandwidth to 10 Mbit/s at 20:00 and adjust it back to 5 Mbit/s at 22:00 every day. You can follow the steps in this section to adjust it.

Procedure

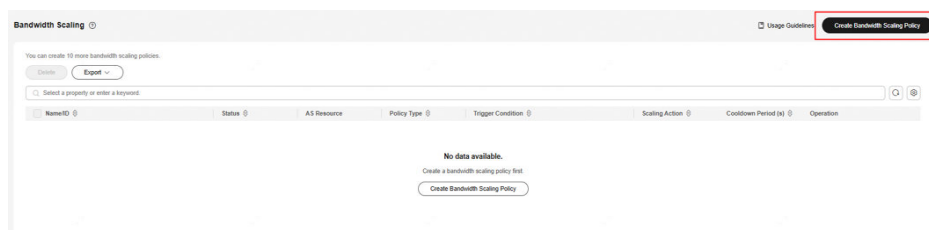
Step	Description
Step 1: Create Bandwidth Scaling Policies	Set parameters such as the period, triggering time, and effective time.
Step 2: Check Policy Execution Logs	After the policy execution time arrives, check the execution results.
Step 3: Check the EIP Bandwidth	Check the EIP bandwidth changes before and after a scaling policy is executed.
(Optional) Step 4: Execute a Bandwidth Scaling Policy Immediately	When a traffic burst occurs, you can execute the bandwidth scale-out policy adjust the bandwidth immediately.

Step 1: Create Bandwidth Scaling Policies

Only parameters involved in the example are described here and the values are for reference only. For details, see [Creating a Bandwidth Scaling Policy](#).

1. Log in to the [AS console](#).
2. In the navigation pane on the left, click **Bandwidth Scaling**.
3. Click **Create Bandwidth Scaling Policy**.

Figure 3-1 Creating a bandwidth scaling policy



4. Configure the bandwidth scaling policy.

Figure 3-2 Configuring a bandwidth scaling policy

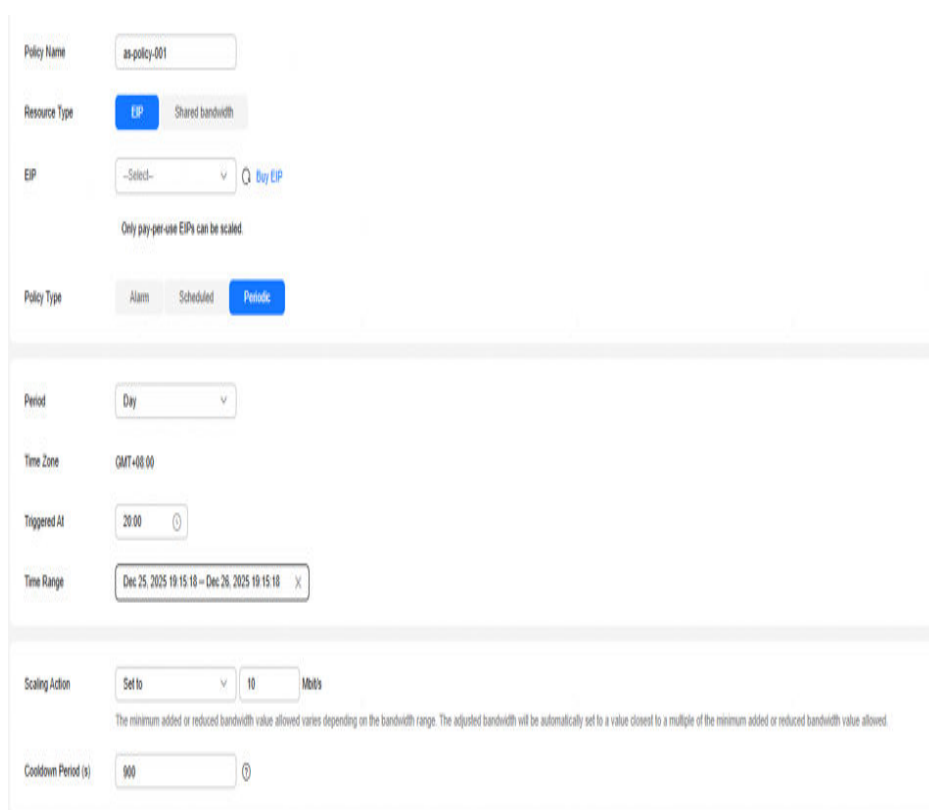


Table 3-1 Parameters of a bandwidth scaling policy

Parameter	Example	Description
Policy Name	as-policy-001	Enter a name for the bandwidth scaling policy.
Resource Type	EIP	Select the type of the bandwidth to be adjusted. You can select EIP or Shared bandwidth .

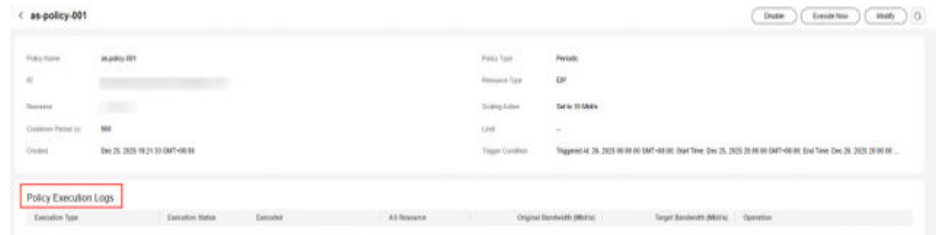
Parameter	Example	Description
EIP	-	Select the EIP whose bandwidth needs to be scaled. This parameter is available when Resource Type is set to EIP .
Policy Type	Periodic	The bandwidth will be adjusted periodically.
Period	Day	The value can be day, week, or month .
Time Zone	GMT+08:00	The default value is GMT+08:00 . GMT+08:00 indicates the time is 8 hours ahead of the Greenwich Mean Time (GMT).
Triggered At	20:00	Specify the time when the AS policy will be triggered. NOTE The value of Triggered At must fall in that of Time Range .
Time Range	Custom	Specify the time range during which the AS policy can be triggered.
Scaling Action	Set to 10 Mbit/s	Specify the action to be performed. The value can be Add, Reduce, or Set to .
Cooldown Period (s)	900	A cooldown period (in seconds) is the period of time between two scaling actions.

5. Click **Create Now**.
6. Repeat **Step 3** to **Step 5** to create another bandwidth scaling policy. Set **Policy Name** to **as-policy-002**, **Policy Type** to **Periodic**, **Period** to **Day**, **Triggered At** to **22:00**, and **Scaling Action** to **Set to 5 Mbit/s**

Step 2: Check Policy Execution Logs

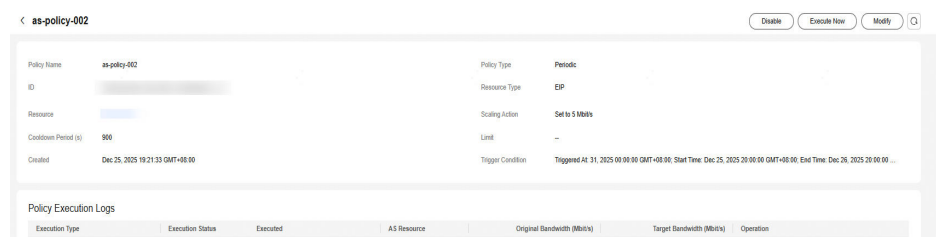
1. After the policy execution time arrives, click the bandwidth scaling policy name **as-policy-001** to go to the policy details page.
2. Checking policy execution logs in the **Policy Execution Logs** area. You can see the bandwidth specified in the policy **as-policy-001** is changed to 10 Mbit/s at 20:00 every day.

Figure 3-3 Execution logs of the bandwidth scaling policy as-policy-001



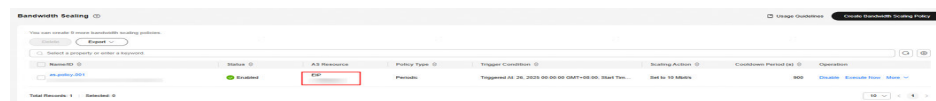
- Repeat **1** and **2** for the bandwidth scaling policy **as-policy-002** to check the policy execution logs. You can see the bandwidth is adjusted to 5 Mbit/s at 22:00 every day.

Figure 3-4 Execution logs of the bandwidth scaling policy as-policy-002



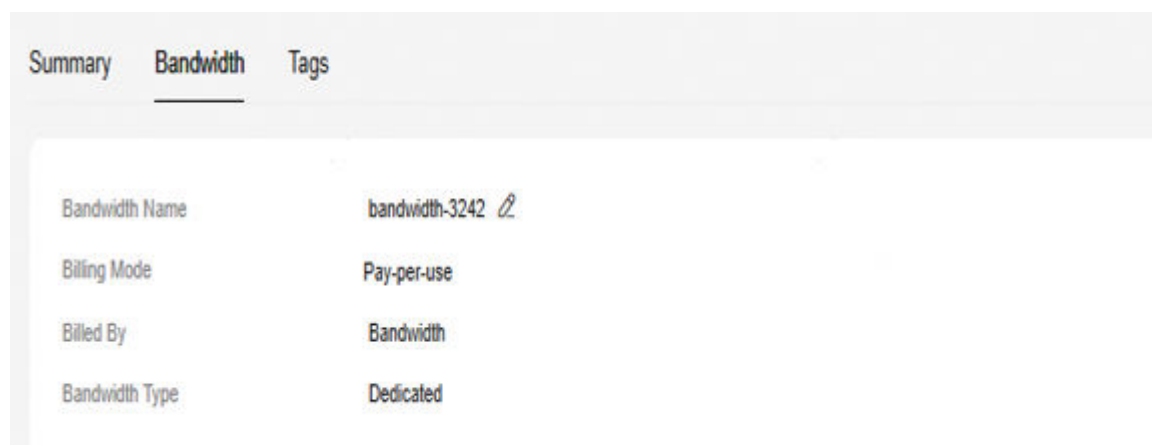
Step 3: Check the EIP Bandwidth

- On the **Bandwidth Scaling** page, click the EIP to go to its details page.



- On the **Bandwidth** tab, you can check the bandwidth. From 20:00 to 22:00, the bandwidth is 10 Mbit/s. At other times, the bandwidth is 5 Mbit/s.

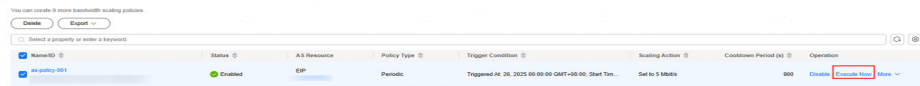
Figure 3-5 EIP details



(Optional) Step 4: Execute a Bandwidth Scaling Policy Immediately

- On the **Bandwidth Scaling** page, locate the bandwidth scaling policy and click **Execute Now** in the **Operation** column.

Figure 3-6 Executing a bandwidth scaling policy immediately



2. Check the policy execution by referring to [Step 2: Check Policy Execution Logs](#).

NOTE

When you detect a sudden service load peak, you can execute the scaling bandwidth policy as-policy-001 immediately to increase the bandwidth. After the peak hours, execute the bandwidth scaling policy as-policy-002 immediately to decrease the bandwidth back to 5 Mbit/s. This way, you can adjust a bandwidth anytime you want.