

Auto Scaling

Scaling Groups

Product Documentation



Copyright Notice

©2013-2019 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

Trademark Notice

 Tencent Cloud

All trademarks associated with Tencent Cloud and its services are owned by Tencent Cloud Computing (Beijing) Company Limited and its affiliated companies. Trademarks of third parties referred to in this document are owned by their respective proprietors.

Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

Contents

Scaling Groups

Scaling Group Overview

Creating a Scaling Group

Viewing Scaling Group List

Modifying Scaling Groups

Modifying Bound Instances

Combining Load Balancers and Scaling Groups

Delete Scaling Groups

Scaling Groups

Scaling Group Overview

Last updated : 2020-01-06 14:46:57

A scaling group contains a collection of CVM instances that follow the same policies and have a shared purpose. Scaling groups define attributes such as the maximum and minimum numbers of CVM instances in the group and their associated CLB instances.

Creating a Scaling Group

Last updated : 2021-01-08 16:56:12

Overview

This document describes how to create a scaling group in the Auto Scaling console.

Directions

Selecting a region

1. Log in to the Auto Scaling console and click **Scaling group** in the left sidebar.
2. At the top of the **Scaling group** page, select the region where a scaling group will be created.

CVM instances and CLB instances must be in the same region as the one specified for launch configuration. For example, if the Guangzhou region is specified for the launch configuration, only CVM instances in Guangzhou will be automatically added to the scaling group. For a scaling group in Guangzhou, you cannot add CVM instances or bind CLB instances from other regions (such as Shanghai, Beijing, Hong Kong (China), or Toronto).

Configuring the scaling group

1. On the **Scaling group** page, click **Create**.

2. In the pop-up window, complete the basic configuration of the scaling group as shown below:

Create scaling group ✕

1 Basic Configuration >
2 Load Balancer Configuration >
3 Other configurations

Name *

The name can contain up to 55 characters, including Chinese characters, English letters, numbers, underscores, hyphens and periods.

Project Default project

Min Capacity *

Initial Capacity *

Max Capacity *

Launch Configuration * [Create launch configuration](#) ⓘ

The current launch configuration has only one mode. We recommend configuring multiple similar models to reduce the risk of scale-out failures. [Configure Now](#)

Supported Network * Use IPv6 ⓘ

If you don't have an available network, you can [create a VPC](#).

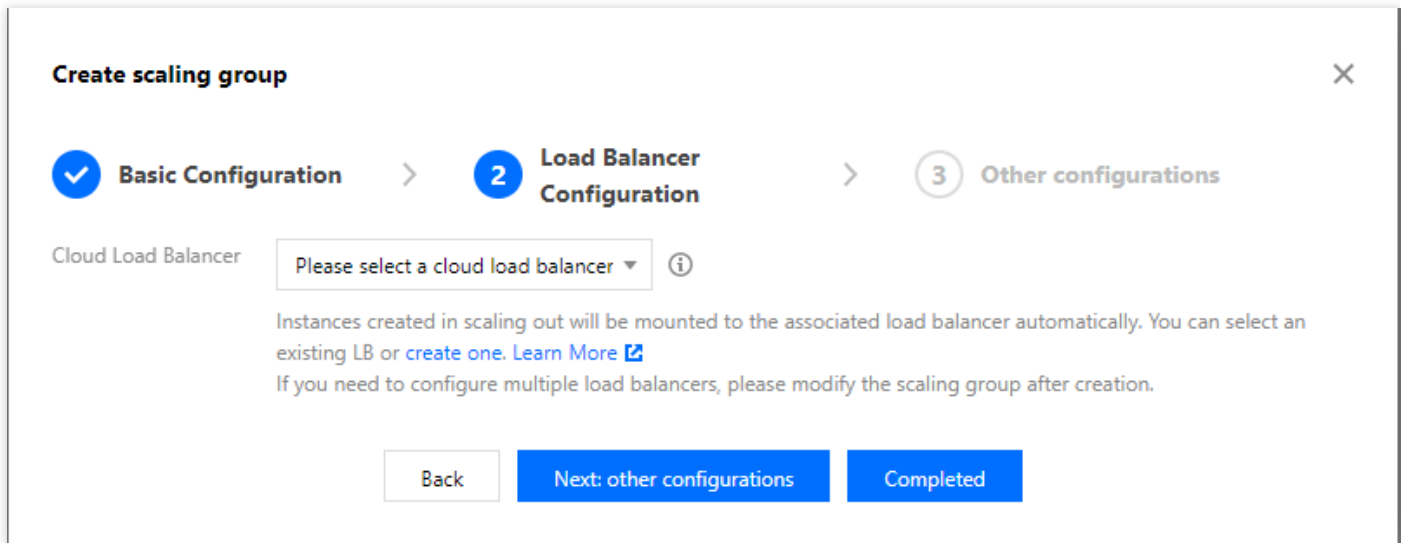
Support subnet *

<input type="checkbox"/> Subnet ID	Subnet name	Availability Zone	Support IPv6
<input type="checkbox"/> subnet-xxxx	xxxx	Guangzhou Zone 3	No
<input type="checkbox"/> subnet-xxxx	xxxx	Guangzhou Zone 3	No
<input type="checkbox"/> subnet-xxxx	xxxx	Guangzhou Zone 3	No
<input checked="" type="checkbox"/> subnet-xxxx	xxxx	Guangzhou Zone 1	Yes

You can select multiple subnets. CVMs will be created in these subnets randomly when auto-scaling up is triggered, so as to implement cross-subnet disaster recovery. [Suggested Settings](#)

- **Name:** identifies the scaling group with a custom name, such as “Website logic layer”.
- **Min Capacity:** defines the minimum number of instances in the scaling group.

- **Initial Capacity:** defines the number of **automatically** created instances when the scaling group is created.
 - **Max Capacity:** defines the maximum number of instances in the scaling group.
 - **Launch Configuration:** specifies the launch configuration to scale out CVM instances.
 - **Supported Network:** specifies the network attribute of the scaled-out CVMs. Select a VPC in which CVM instances will be scaled out.
 - **Support subnet:** specifies the subnet in which the CVMs will be scaled out. You can select multiple subnets to locate the CVM instances automatically created for scale-out, implementing cross-subnet disaster recovery.
3. Click **Next** to complete the load balancer configuration as shown below:



Create scaling group ✕

Basic Configuration > **2 Load Balancer Configuration** > 3 Other configurations

Cloud Load Balancer ⓘ

Instances created in scaling out will be mounted to the associated load balancer automatically. You can select an existing LB or [create one](#). [Learn More](#) ⓘ

If you need to configure multiple load balancers, please modify the scaling group after creation.

You can select an existing CLB or create one. Instances created for scale-out will be mounted to the associated CLB automatically. If you need to configure multiple load balancers, please modify the scaling group after creation.

4. (Optional) Click **Next: other configurations** to complete configurations as shown below or directly click **Completed** to skip this step.

Create scaling group ✕

✓ Basic Configuration >
✓ Load Balancer Configuration >
✓ Other configurations

Removal policy Remove the oldest instances ▼ ⓘ

Instance Creation Policy Preferred Availability Zones (Subnets) First ▼ ⓘ

Tag Configuration

Tag key	Tag value	Operation
Select a tag key ▼	Select a tag value ▼	Delete

[Add](#)

If the current tags/tag values are not applicable, please go to the console to [create one](#) [🔗](#).

Back
Completed

- **Removal policy:** identifies which CVMs should be removed first when AS needs to remove instances from the scaling group for scale-in:
 - **Remove the oldest instances:** removes the earliest auto-added instances in the scaling group. Instances added automatically are removed first, and then the oldest instances that are manually added. We recommend you choose this option.
 - **Remove the latest instances:** removes the latest auto-added CVMs in the scaling group. Instances added automatically are removed first, and then the latest instances that are manually added.
- **Instance Creation Policy:** specifies the policy to add instances in different availability zones of multiple subnets for scaling-out. Available options include:
 - **Preferred Availability Zones (Subnets) First:** the availability zones (subnets) will be selected sequentially from top to bottom of the configuration list till success. This mode is suitable for architectures with one primary availability zone and other secondary availability zones.
 - **Multiple Availability Zones (Subnets) Distribution:** during scale-out, the system will select availability zones (subnets) with relatively few instances in which to create new instances. This mode is suitable for architectures where instances need to be evenly distributed.
- **Tag Configuration:** categorizes and manages resources with tags. For more information, see [Tag](#).

5. Click **Completed**.

Subsequent Operations

The scaling group is now created. To implement auto scaling, you need to proceed with the following 3 operations:

- [Expanding Capacity Manually](#)
- [Managing an Alarm-triggered Policy](#)
- [Creating Scaling Activity Notifications](#)

Viewing Scaling Group List

Last updated : 2020-07-16 17:02:39

Log in to the Auto Scaling Console, and click [Scaling group](#) in the left sidebar to view the list, as shown below:

The screenshot shows the 'Scaling group' page in the Tencent Cloud Auto Scaling console. The page includes a sidebar with 'Scaling group' and 'Launch Configuration' options. The main content area features a table with columns for ID/Name, Status, Current/Desired, Min/Max Capacity, Cloud Load Balance, Launch Configuration, Network, Removal policy, Creation Time, and Operation. Two scaling groups are listed, both with a status of 'Enable'. The first group has a creation time of 2019-11-05 20:08:53, and the second has a creation time of 2019-08-02 15:03:10. A 'Create' button is visible at the top left of the table area, and a search bar is at the top right. The bottom of the table shows 'Total items: 2' and 'Records per page: 20'.

ID/Name	Status	Current/Desired	Min/Max Capacity	Cloud Load Balance	Launch Configuration	Network	Removal policy	Creation Time	Operation
[blurred]	Enable	0 / 3	3 / 3	-	[blurred]	[blurred]ark	Remove the oldest instances	2019-11-05 20:08:53	Delete Disable More
[blurred]	Enable	0 / 0	0 / 1	-	[blurred]	[blurred]g9x	Remove the oldest instances	2019-08-02 15:03:10	Delete Disable More

Modifying Scaling Groups

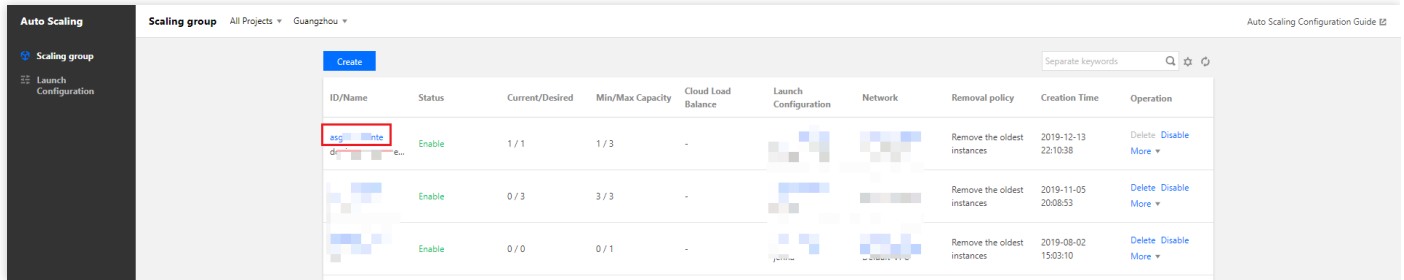
Last updated : 2020-12-23 16:15:01

1. Log in to the [Auto Scaling console](#) and click **Scaling group** in the left sidebar.
2. Click the **ID/Name** of the scaling group to be modified to enter its details page, as shown below:
3. Select the **Scaling group details** tag, click **Edit** to modify its name, adjust the min capacity and max capacity, or modify the CVM instance removal policy, etc.
4. After modification, click **Save**.

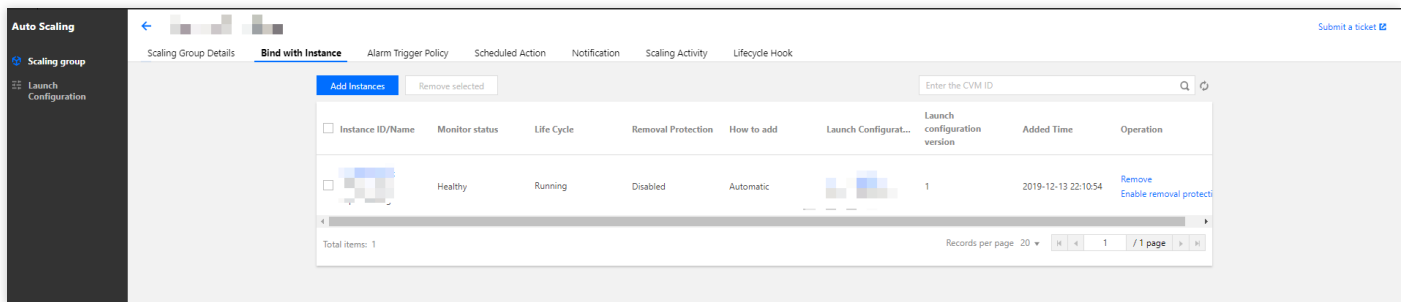
Modifying Bound Instances

Last updated : 2022-04-19 19:13:39

1. Log in to the Auto Scaling console and click **Scaling group** in the left sidebar.
2. Click the **ID/Name** of the scaling group to be modified to enter its details page, as shown in the figure below:



3. Select the **Bind with Instance** tab where you can view the list of CVMs that are bound to the scaling group, as shown in the figure below:



- To manually add CVM instances to the scaling group, click **Add Instances**, select the instance to be added (hold the **Shift** key to select multiple instances) and click **OK**.
- To unbind a specific CVM, click **Remove** under its **Operation** column.

Note :

- CVMs that are automatically created in scale-out event will be terminated when they're removed from the scaling group.
- CVMs that are manually added will not be terminated upon removal. They will only be removed from the scaling group, and the Cloud Load Balancer will be unbound.

Combining Load Balancers and Scaling Groups

Last updated : 2020-04-23 16:50:34

When Auto Scaling (AS) adds or deletes CVM instances, you need to ensure that app traffic is distributed across all CVM instances. If you want the scaled-out CVMs to be bound with a specific load balancer (LB) and receive the traffic forwarded by that LB without your intervention, you can specify an LB for the CVMs. In this case, the LB will work as the single point of contact for all inbound traffic towards the instances in your Auto Scaling group.

Binding an LB to a Scaling Group

Integrate scaling groups with Cloud Load Balancer (CLB) so you can bind a CLB instance to an existing scaling group. After the CLB instance is bound, it automatically registers the instances in the scaling group and distributes inbound traffic to these instances.

1. Log in to the [Auto Scaling console](#) and click **Scaling Groups** in the left sidebar.
2. On the "Scaling Groups" page, click **Create**.
3. In the "CLB configuration" step of creating a scaling group, select the desired CLB. If no CLBs are available, click **Create** under the option to create one.

A scaling group and its associated CLB instance (in the case of a cross-region CLB instance, its backend VPC) must be in the same network environment (the same VPC instance or the basic network in the same region).

Unbinding a CLB from a Scaling Group

On the "Scaling Groups" page, click a scaling group ID to go to the details page for the corresponding scaling group. You can delete the corresponding CLB in the "CLB Information" section.

Once the CLB is deleted, CVMs in the scaling group will also be automatically unbound from the deleted CLB.

Delete Scaling Groups

Last updated : 2019-08-13 19:53:24

Open the [Console](#), and select **Scaling Group** in the navigation bar.

There is a **Delete** button behind each scaling group in the scaling group list. Note: you need to delete the instances in the scaling group before you can delete the scaling group itself.