

Auto Scaling

Launch Configuration

Product Documentation



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Launch Configuration Overview

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A launch configuration is the template for the automatic creation of CVMs. It contains the image ID, CVM instance type, system disk/data disk types and capacities, key pair, security group, etc.

When a scaling group is created, it must be specified and cannot be edited once created.

Creating a Launch Configuration

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During scale-out, Auto Scaling needs to know in advance the configurations used to produce CVM instances. Therefore, you must predefine related resources such as images, data on data disks, instance configurations, key pairs, security groups, and block storage devices.

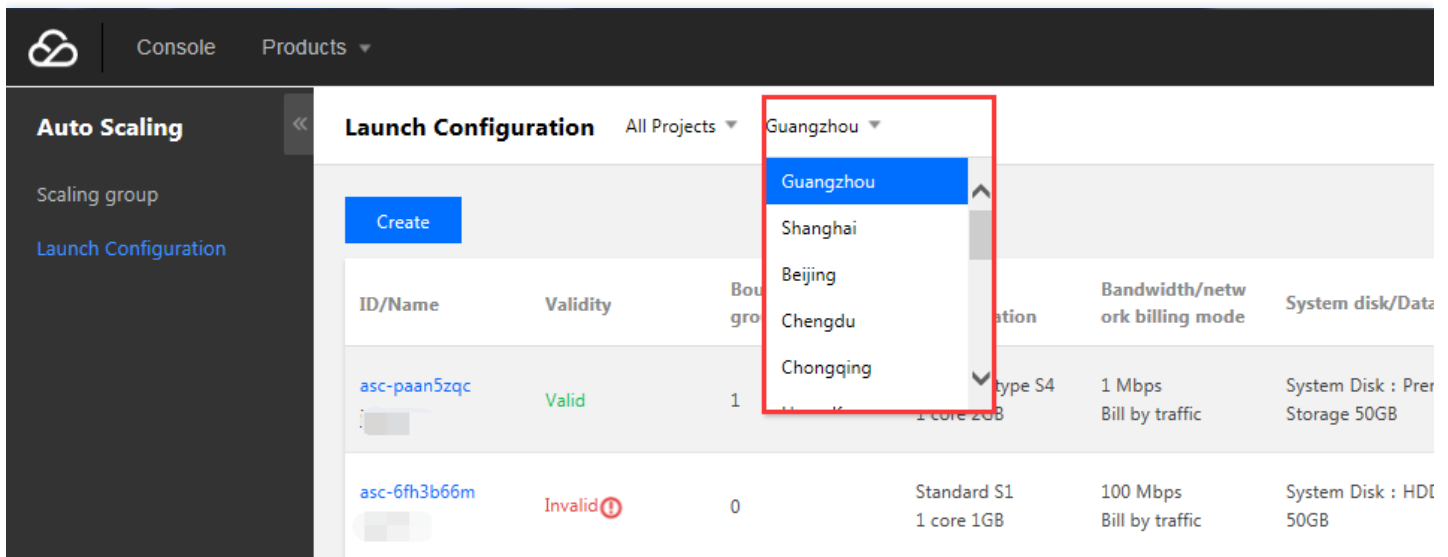
A launch configuration is a template based on which instances will be produced during automatic scale-out. **Creating a launch configuration itself will not produce any instances, so it is completely free to use.**

Log in to the [Auto Scaling console](#) and click **Launch Configuration** in the left sidebar.

Step 1. Select a region

On the menu at the top of the page, select a region for your scaling group based on your requirements.

Select the region of the CVM instances to which you want to bind the scaling group as the launch configuration and the scaling group are both region-based. For example, when the Guangzhou region is specified for the launch configuration, only CVM instances in Guangzhou will be automatically added in the scaling group.



The screenshot shows the Tencent Cloud console interface for the 'Auto Scaling' service. The 'Launch Configuration' page is active, displaying a table of configurations. A red box highlights the 'Region' dropdown menu, which is currently set to 'Guangzhou'. The dropdown menu is open, showing a list of regions: Guangzhou (selected), Shanghai, Beijing, Chengdu, and Chongqing. The table below shows two launch configurations: one with ID 'asc-paan5zqc' which is 'Valid', and another with ID 'asc-6fh3b66m' which is 'Invalid'.

ID/Name	Validity	Bou gro	ation	Bandwidth/netw ork billing mode	System disk/Data
asc-paan5zqc	Valid	1	Standard S4 1 core 2GB	1 Mbps Bill by traffic	System Disk : Pre Storage 50GB
asc-6fh3b66m	Invalid	0	Standard S1 1 core 1GB	100 Mbps Bill by traffic	System Disk : HDI 50GB

Step 2. Specify parameters

1. Click **Create** and follow the instructions to create a launch configuration in the same steps as purchasing a CVM.

2. Enter a **configuration name** such as "frontend server cluster configuration A".
3. Select a model such as 1-core 1G, which means 1-core CPU and 1 GB memory.
4. Select an image. You can either select a clean "public image" or a "custom image" where your application has already been deployed.

To make an instance available directly after creation, we strongly recommend that you deploy your business application in a custom image. **In addition, the application in the image needs to be set to run upon system startup**, so that the instances produced by AS can be automated.

5. Select the capacities of system disk and data disks.

If you want the data disk of the produced instance to have your own data, you can specify a data disk snapshot so that the instance comes with the data in the snapshot upon production.

- Since the instances in a scaling group are generally stateless, we recommend that you load your own data into a custom image for convenience. If the capacity of the system disk is insufficient, you can apply for a larger disk by submitting a ticket.
- If you want to use the data disk to store data, you need to set it to be automatically mounted, so that scale-out can be unattended. For more information, see [the specific method](#).

6. Select the bandwidth in a similar way of purchasing a CVM instance.
7. Set the username, password, and security group.
8. Click **Confirm**.
9. Create a scaling group based on the launch configuration. The launch configuration determines the instances to be created during scale-out, whereas the scaling group determines when to scale out.

Viewing Launch Configuration List

Last updated : 2022-04-19 18:57:47

A launch configuration is a template for the automatic creation of CVMs. It contains an image ID, CVM instance type, system disk/data disk types and capacities, key pair, security group, etc.

Note :

- The launch configuration must be specified when creating a scaling group.
- Once a launch configuration is created, its attributes cannot be edited.

Open the [Auto Scaling Console](#) and click **Launch Configuration** on the navigation bar to view the list.

- To check the details of a launch configuration, click the ID of the corresponding launch configuration.
- To delete a launch configuration, click **Delete** in the corresponding launch configuration entry.

Note :

Launch configurations that are bound with a scaling group cannot be deleted.

The screenshot displays the 'Launch Configuration' page in the Tencent Cloud Auto Scaling console. The page title is 'Launch Configuration' with sub-headers 'All Projects' and 'Guangzhou'. A notification banner at the top states: 'Launch Configuration now supports multiple models, allowing you to choose multiple similar models to improve your business availability.' Below the banner is a 'Create' button and a search bar. The main content is a table with the following columns: ID/Name, Validity, Bound scaling group, Instance Configuration, Instance Billing Mode, Bandwidth/network billing mode, System disk/Data disk, Image, Last Modified Time, Latest Version No., and Operation. Two launch configurations are listed:

ID/Name	Validity	Bound scaling group	Instance Configuration	Instance Billing Mode	Bandwidth/network billing mode	System disk/Data disk	Image	Last Modified Time	Latest Version No.	Operation
[Redacted]	Valid	1	SA2.SMALL1 (1 core 1GB)	Pay as you go	1 Mbps Bill by traffic	System Disk: Premium Cloud Storage 50GB	[Redacted]	2021-02-02 10:17:34	1	Delete Modify image Configure Multi-Model
[Redacted]	Valid	0	S2.SMALL1 (1 core 1GB)	Pay as you go	1 Mbps Bandwidth Package	System Disk: Premium Cloud Storage 50GB	[Redacted]	2020-04-10 14:35:03	3	Delete Modify image Configure Multi-Model

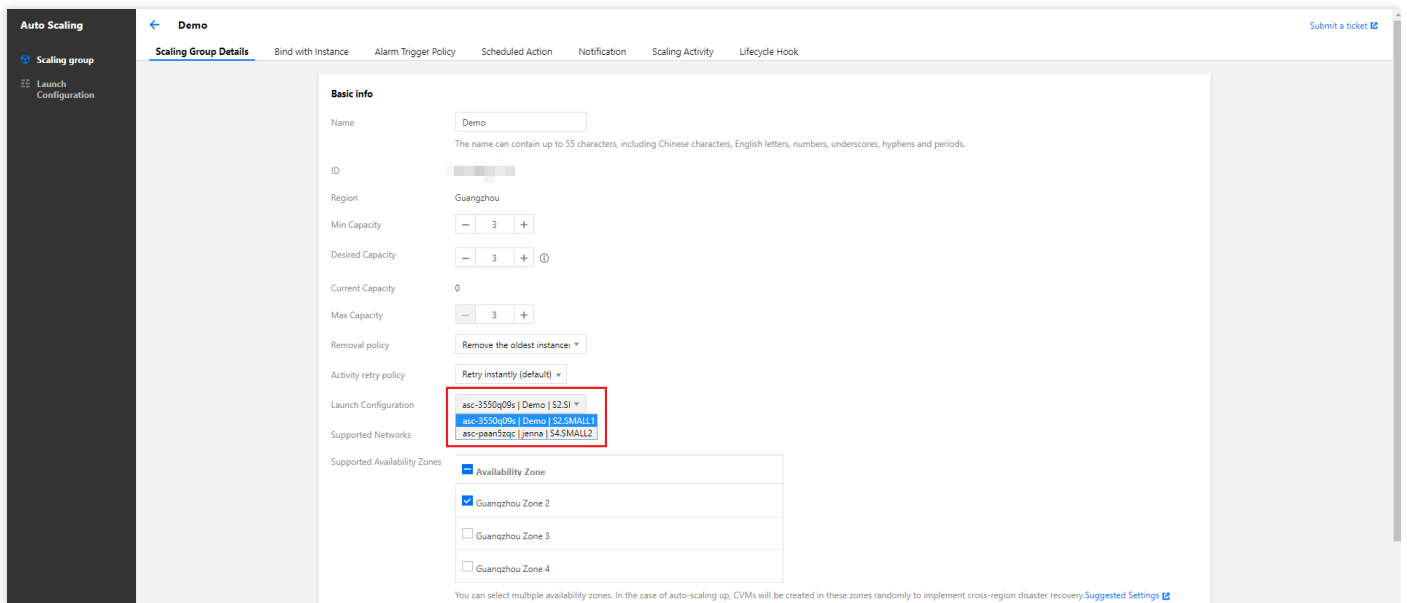
At the bottom of the table, it shows 'Total items: 2' and 'Records per page: 20'. The page number is 1 of 1.

Modifying Launch Configurations

Last updated : 2022-04-19 19:14:12

Launch configurations are not be modified after being created. But you can change the launch configuration of a scaling group.

1. Create a new launch configuration. See [Creating a Launch Configuration](#).
2. Go to the [Scaling Groups](#) page, select the target scaling group, and open the details page.
3. In the **Basic Info** section, select the new launch configuration.



4. Click **Save** to complete.

Exception Detection

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Auto Scaling (AS) can detect exceptions in advance.

In some cases, such as when you have an insufficient balance or accidentally delete an image, it is impossible to create the CVMs needed for scale-out. AS can detect these exceptions in advance and send an alarm. This allows you to identify risks before scaling fails, so as to prevent losses. You can view the causes of exceptions as described below:

In the launch configuration list, if **Invalid** appears in the **Validity** column, it indicates that your launch configuration has become unavailable due to an improper operation. Hover the cursor over the status to view the detailed reason.