

Auto Scaling

Launch Configuration

Product Documentation



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Launch Configuration Startup Configuration Overview

Last updated : 2019-12-16 16:01:12

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

Last updated : 2020-04-27 17:27:03

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.

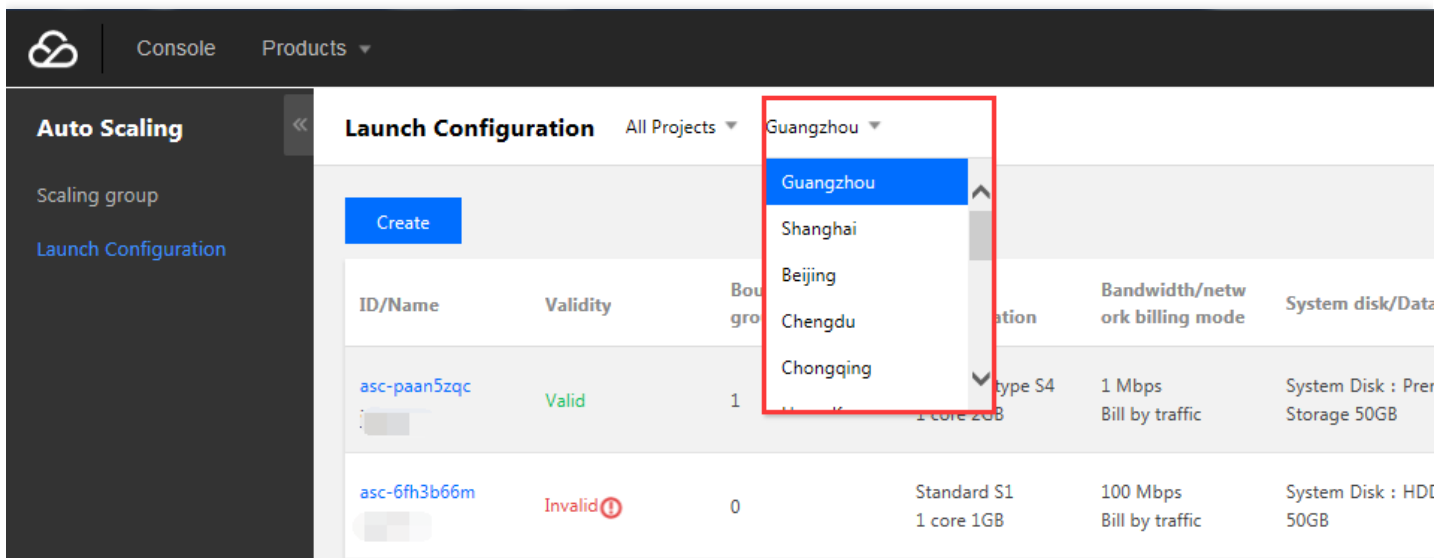
A launch configuration is a template based on which instances will be produced during automatic scale-out. **Creating a launch configuration itself will not produce any instances, so it is completely free to use.**

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 Auto Scaling console. The left sidebar is titled 'Auto Scaling' and has 'Launch Configuration' selected. The main content area is titled 'Launch Configuration' and shows a 'Create' button. A dropdown menu is open, showing a list of regions: Guangzhou (selected), Shanghai, Beijing, Chengdu, and Chongqing. Below the dropdown is a table of launch configurations.

ID/Name	Validity	Bound group	Instance type	Bandwidth/network billing mode	System disk/Data
asc-paan5zqc	Valid	1	Standard S4 1 core 2GB	1 Mbps Bill by traffic	System Disk : Prer 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 Startup Configuration List

Last updated : 2020-06-23 15:00:32

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.

- 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.

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
[ID]	Valid	1	S2.SMALL1 (1 core1GB)	Pay as you go	1 Mbps Bill by traffic	System Disk: Premium Cloud Storage 50GB	[Image]	2019-11-05 20:07:01	1	Delete Modify image
[ID]	Valid	0	S4.SMALL2 (1 core2GB)	Pay as you go	1 Mbps Bill by traffic	System Disk: Premium Cloud Storage 50GB	[Image]	2019-09-19 05:41:33	1	Delete Modify image
[ID]	Valid	1	S4.SMALL2 (1 core2GB)	Pay as you go	1 Mbps Bill by traffic	System Disk: Premium Cloud Storage 50GB	[Image]	2019-08-02 14:57:52	1	Delete Modify image
[ID]	Invalid	0	S1.SMALL1 (1 core1GB)	Pay as you go	100 Mbps Bill by traffic	System Disk: Cloud Block Storage 50GB	[Image]	2018-01-25 06:31:38	1	Delete Modify image

Total items: 4

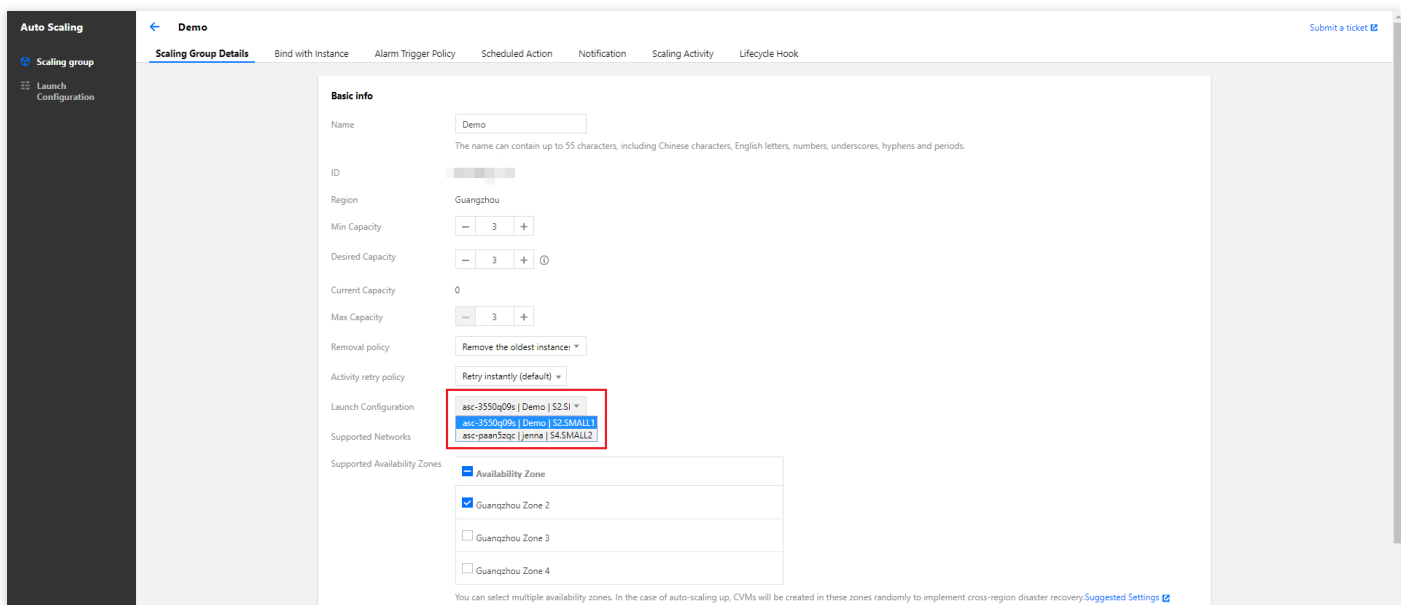
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Modifying Launch Configurations

Last updated : 2020-08-06 16:45:53

Launch configurations are not editable, but you can change the launch configuration associated with a scaling group. After an application upgrade or data update, you can change the launch configuration by performing the following steps:

1. Create a new launch configuration by referring to [Creating Launch Configuration](#).
2. Go to the [Scaling Groups](#) page and select the ID of the scaling group to configure to go the details page of the scaling group.
3. Click **Edit** in the top right corner of the **Basic Information** module to update launch configuration items. See the figure below:



4. After editing, click **Save**.

Exception Detection

Last updated : 2020-08-06 16:45:53

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.