

Resizing a server

This guide will walk you through the required steps to change the number of CPU cores and the amount of memory your server has access to, this is done by changing the server's **flavor**.

Resize (or Server resize) is the ability to change the flavor of a server, thus allowing it to upscale or downscale according to user needs. A resize operation is a two-step process for the user:

1. Initiate the resize.
2. Either confirm (verify) success and release the old server, or declare a revert to release the new server and restart the old one.

Prerequisites

You need to have a server you wish to resize. Additionally, if you prefer to work with the OpenStack CLI, then make sure to properly **enable it first**.

Listing available flavors

Cleura Cloud Management Panel

Navigate to the server list.

OpenStack CLI



Find the server you want to resize in the list, and on the right-hand side click on its menu button.



Click on *Modify Server*.



On this panel near the top, find the section called *Flavor*. This is the current flavor used by the server. Press on the dropdown menu to see all available flavors.



To list all available flavors you can simply run `openstack flavor list`, but that will return a very long unsorted list, instead we recommend the following command:

```
openstack flavor list -c Name -f value | grep '[0-9]c[0-9]' | sort -V
```

The printout is a simple and clean list, sorted by the compute type, the number of cores and then by the amount of memory.

```
b.1c1gb  
b.1c2gb  
b.1c4gb  
b.2c2gb  
b.2c4gb  
b.2c8gb  
b.2c16gb  
b.4c4gb  
...
```

Initiating the resize

Choose a new flavor that you want your server to use instead.

A resize is only possible with **flavors** using the same prefix letter. Most commonly you will have a `b.` flavor, thus you must select another `b.` flavor.

Cleura Cloud Management Panel **OpenStack CLI**
Once selected, the *Resize* button will appear.

Modify Server [1f98f1] **os-Resized** ?

Estimated monthly cost **202.00 USD** ? ✓

Server name **os-Resized**

Flavor **4 Cores, 24 GB Ram (b.4c24gb)** ▼

Resize

Click on it to start the resize.

While the resize is ongoing you will see a spinning circle saying *Resize is in progress*.



To start the resize use the following command:

```
openstack server resize --flavor <new_flavor> <server_id>
```

While the resize is ongoing the server should have the `OS-EXT-STS:task_state` of `resize_migrating` and the `status` of `RESIZE`.

```
openstack server show -c OS-EXT-STS:task_state -c OS-EXT-STS:vm_state -c status <server_id>
```

Field	Value
OS-EXT-STS:task_state	resize_migrating
OS-EXT-STS:vm_state	active
status	RESIZE

You may proceed with the next step once your server status is `VERIFY_RESIZE` .

```
+-----+-----+
| Field      | Value      |
+-----+-----+
| OS-EXT-STS:task_state | None      |
| OS-EXT-STS:vm_state   | resized   |
| status                | VERIFY_RESIZE |
+-----+-----+
```

The resize process might take a minute or more. Cleura Cloud will now make a restore point in case the resize process fails. It would then restore your server to the state it was before the resize.

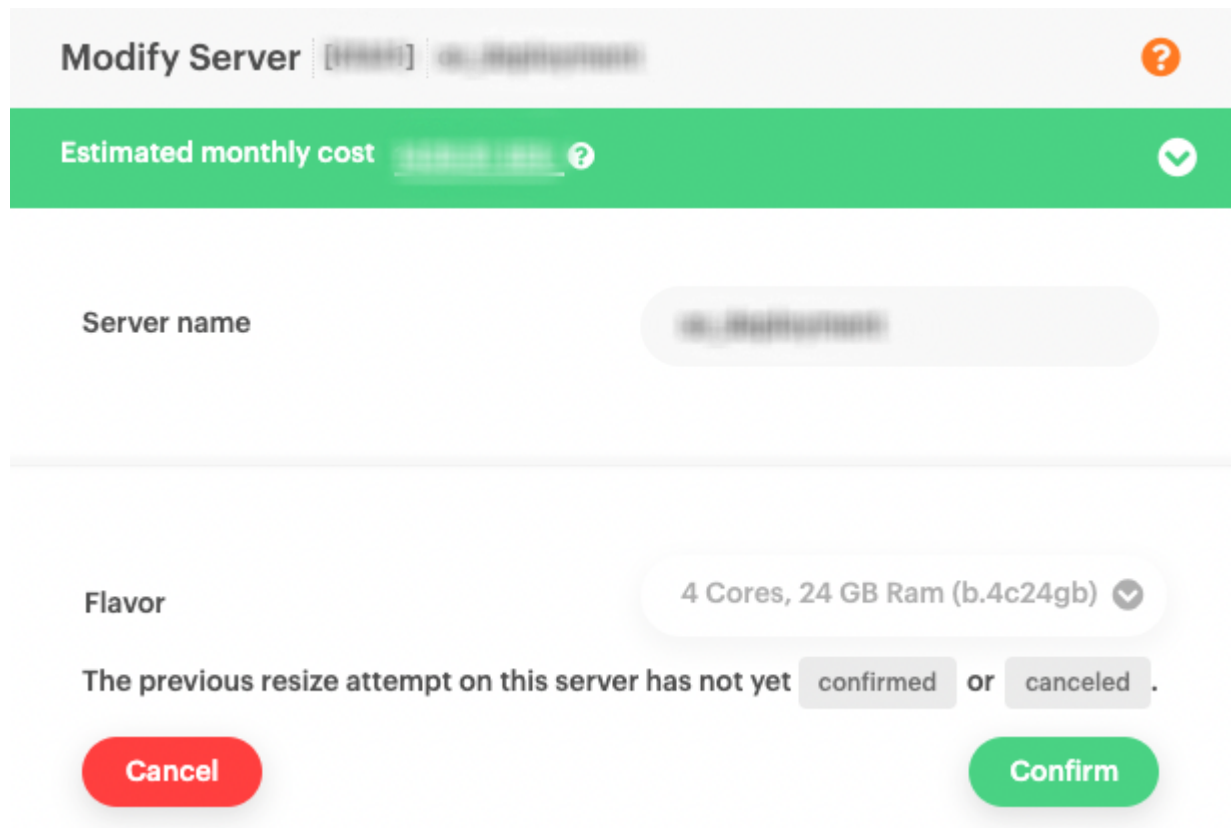
Confirming the resize

Your server is now using the new flavor you selected earlier, and you need to make sure the server is working as intended after the resize.

Once you are certain your server is working as intended, you should confirm the resize. If you do not confirm the resize, your server will automatically have the resize confirmed after 24 hours.

Cleura Cloud Management Panel OpenStack CLI

This is done by clicking the *Confirm* button.



Modify Server [b4-24gb-4c] ?

Estimated monthly cost ? ✓

Server name b4-24gb-4c

Flavor 4 Cores, 24 GB Ram (b.4c24gb) ✓

The previous resize attempt on this server has not yet confirmed or canceled .

Cancel **Confirm**

If your server is not working as intended, or you simply regret the resize, instead click *Cancel*.

This is done by using the following command:

```
openstack server resize confirm <server_id>
```

Alternatively, if your server is not working as intended, revert the resize with the following command:

```
openstack server resize revert <server_id>
```

This concludes the process of resizing a server in Cleura Cloud.

Last update: 2022-11-29

Created: 2022-11-23

Authors: Christian Mattsson, Florian Haas