## Creating new networks in Cleura Cloud

Before creating a server in Cleura Cloud, you need at least one network to make the new server a member of. Since you may have more than one network per region, let us now walk through creating a new network using the Cleura Cloud Management Panel, or using the OpenStack CLI.

#### Prerequisites

Whether you choose to work from the Cleura Cloud Management Panel or with the OpenStack CLI, you need to have an account in Cleura Cloud. Additionally, to use the OpenStack CLI make sure to enable it first.

#### Creating a network

To create a network from the Cleura Cloud Management Panel, fire up your favorite web browser, navigate to the Cleura Cloud page, and login into your Cleura account. On the other hand, if you prefer to work with OpenStack CLI, please do not forget to source the RC file first.

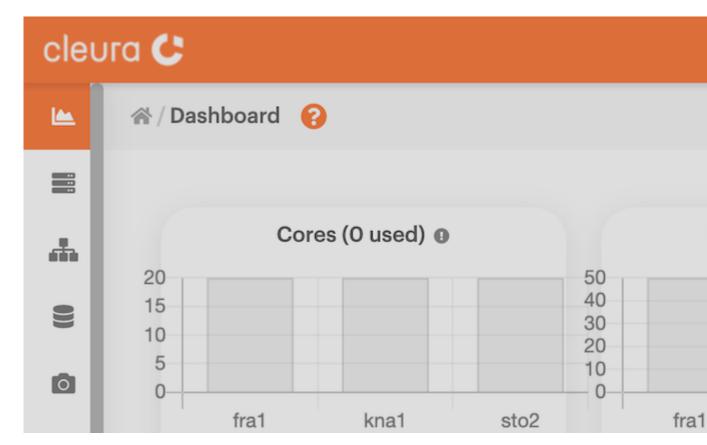
Cleura Cloud Management Panel OpenStack CLI
On the top right-hand side of the Cleura Cloud Management Panel, click the *Create* button. A new

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You will notice several rounded boxes prominently displayed on that pane, each for defining, configured one of the available regions for the new network.



Start by creating a new network, named nordostbahnhof:

```
openstack network create nordostbahnhof
```

By issuing the command above, you immediately get information regarding the new network:

```
| Value
| admin_state_up | UP
| admin_state_sp
| availability_zone_hints |
availability zones
| ipv4_address_scope | None
is_default | False
| is_vlan_transparent | None
    | 1500
| nordo
mtu
          | nordostbahnhof
name
| port_security_enabled | True
| provider:network_type | None
```

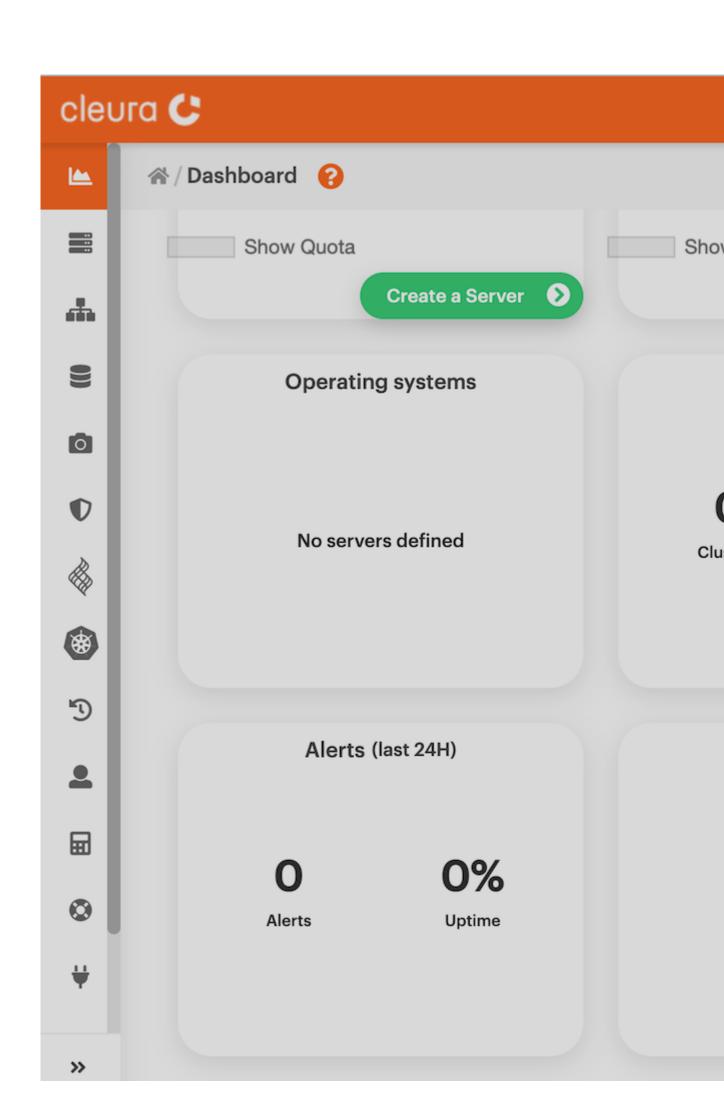
#### Adding a subnet and a router

Creating a new network does not necessarily mean it has all the features you most likely would expect. Unless you work from the Cleura Cloud Management Panel, where almost every component is activated for you with a few clicks here and there, when you use the OpenStack CLI there is some extra work you need to do before you get a network you would characterize as useful.

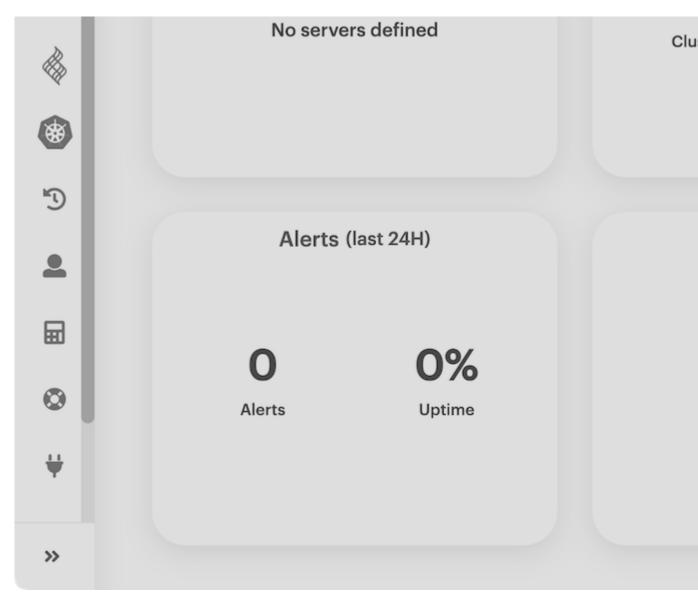
Expand the Advanced Options section below, make sure Port Security is enabled, and leave the MT



You probably want a full-featured network for your cloud servers, so please activate the *Create a common probably* and a DHCP server.



Scroll down a little bit if you have to. Assuming you want your cloud servers to reach hosts on the will be readily available.



You now have to create a subnet for the new network. Let us call this subnet nordostbahnhof-subnet:

```
openstack subnet create nordostbahnhof-subnet \
--network nordostbahnhof --subnet-range 10.20.30.0/24
```

Again, you get detailed information regarding the new subnet:

```
| dns_publish_fixed_ip | None
enable dhcp
              | True
              | 10.20.30.1
gateway ip
| host_routes
           | 1b0822b3-62e8-4b40-92e8-8544c72d4c15 |
ip version
           | 4
| ipv6 address mode | None
| ipv6 ra mode | None
           | nordostbahnhof-subnet
name
| 201d458b-9b47-4408-9736-980bec77d405 |
| revision_number | 0
              | None
| segment_id
| service_types
subnetpool id
               | None
              | 2022-10-30T14:47:40Z
```

If you want servers connected to the nordostbahnhof network to have Internet access, you need a ro

```
openstack router create nordostbahnhof-router
```

As expected, you will see lots of information regarding the new router:

```
| Value
| admin_state_up | UP
availability_zone_hints |
availability zones
                | 2022-10-30T15:36:26Z
created at
description
| enable_ndp_proxy | None
| external_gateway_info | null
| flavor_id | None
| ha
             | True
nordostbahnhof-router
project_id | dfc70046730045
              | 566de991-fc0e-4f85-b6c4-5c87694781f7 |
                | dfc700467396428bacba4376e72cc3e9
revision number
routes
status
               | ACTIVE
tags
                 | dfc700467396428bacba4376e72cc3e9
tenant_id
| updated at
                  | 2022-10-30T15:36:26Z
```

You want the nordostbahnhof-router connected to the external network. The name of this network is

```
openstack router set nordostbahnhof-router --external-gateway ext-net
```

Please note that if the command above is successful, you will get no output on your terminal. There

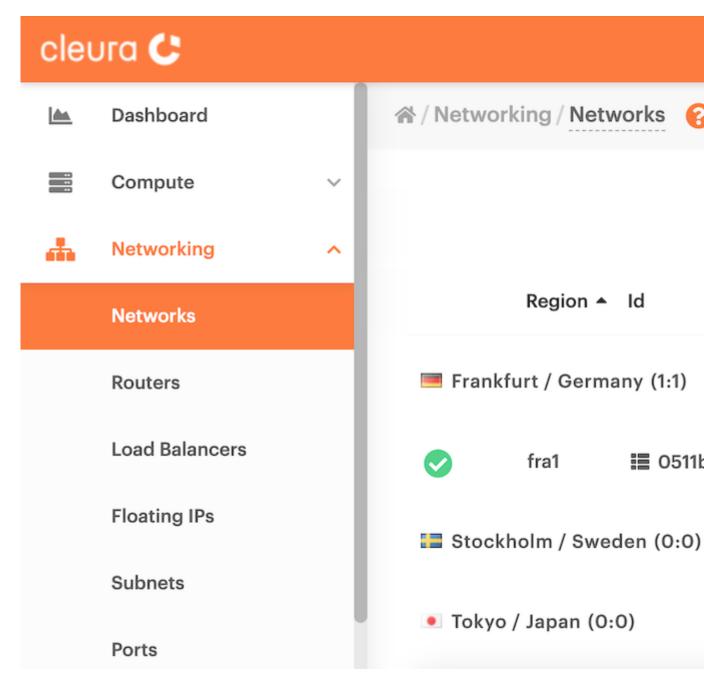
Again, if the command above is successful, you will get no output.

#### Listing networks and getting information

At any time, you may connect to the Cleura Cloud Management Panel, list all networks you have already created, and get detailed information for any of these networks. Alternatively, you may get all that information using the OpenStack CLI.

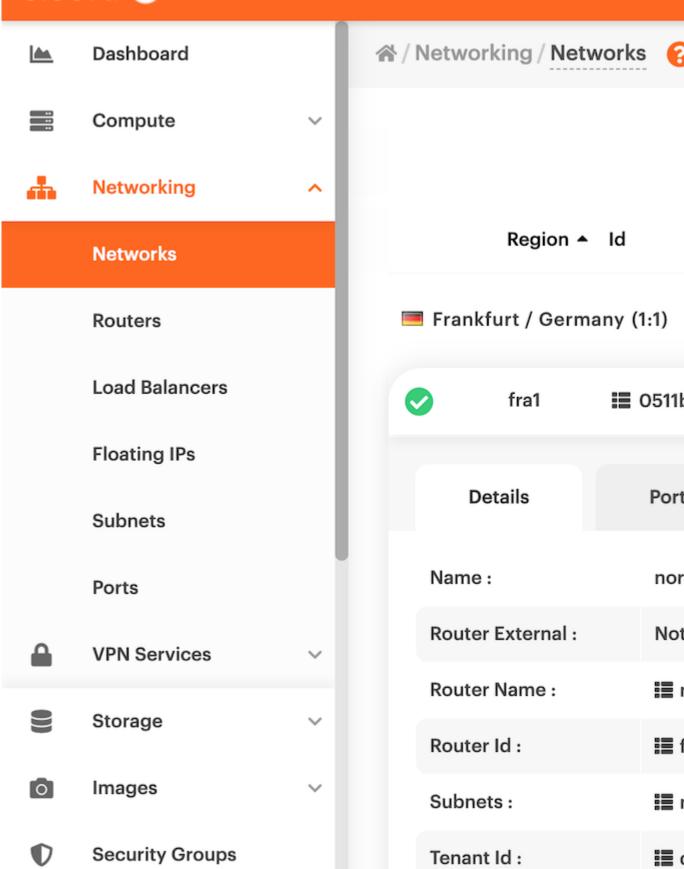
Cleura Cloud Management Panel OpenStack CLI

You may see all defined networks, in all supported regions, by selecting Networking > Networks (s



For more information regarding a specific network, click the corresponding three-dot icon (right-he

# cleura Ċ



To list all available networks in a specific region, just type:

openstack network list

You can always ask for more specific results. For instance, to see all internal networks only, type th

openstack network list --internal

You can also get detailed information about a specific network:

openstack network show nordostbahnhof

At any time, type openstack network list --help or openstack network show --help to see how to get inform

Last update: 2022-11-07 Created: 2022-10-30

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