## Deleting networks

Deleting a network in Cleura Cloud may sound like a pretty straightforward task — and it is. It's just that before deleting a network, there are some steps we almost always need to take. In what follows we show, step by step and through specific examples, how we delete networks using either the Cleura Cloud Management Panel or 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 for the region you will be working in.

### Selecting a network

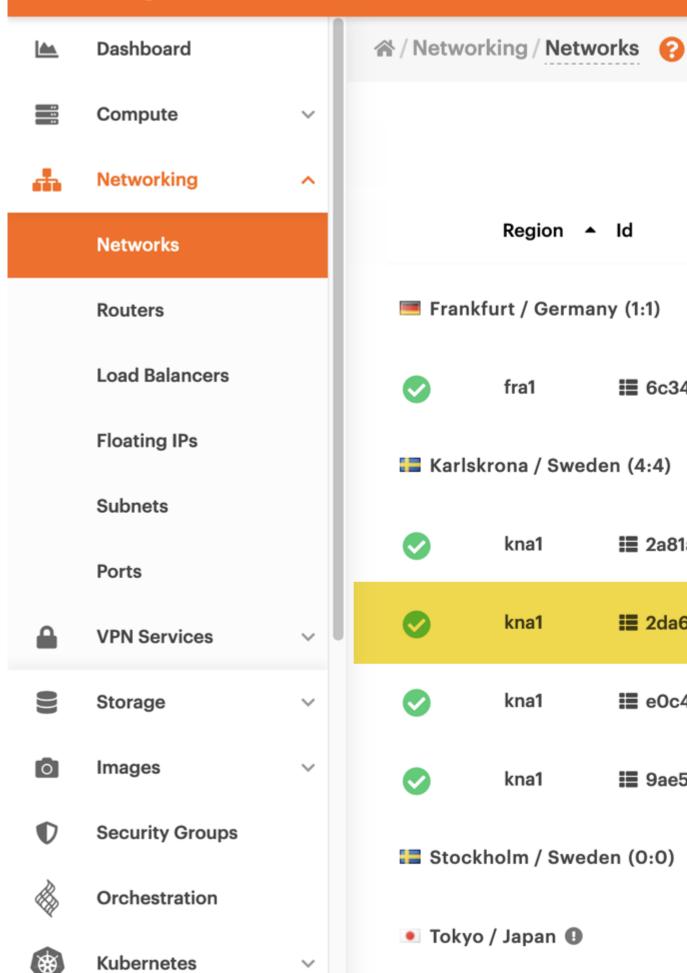
Unless you already have the ID or know the name of the network you wish to delete, you may first list all available networks.

#### Cleura Cloud Management Panel OpenStack CLI

Fire up your favorite web browser, navigate to the Cleura Cloud Management Panel start page, and

In the vertical pane on the left-hand side of the dashboard, expand the *Networking* section and clic carmacks, so now you want to delete it.

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**Kubernetes** 

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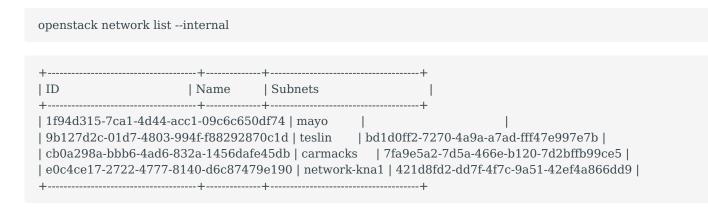
2a81a

**≡** 2da6

**≡** e0c4

**≡** 9ae5

To list all available networks in the region you are currently in, type the following:



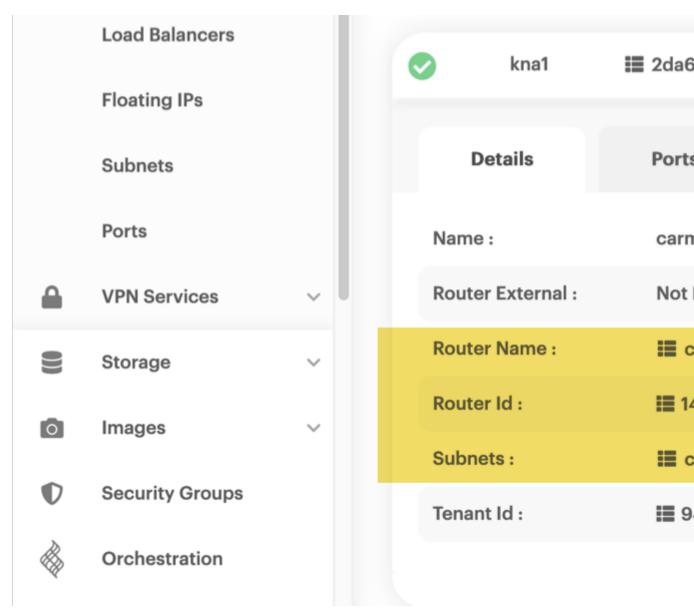
Let us assume you wish to delete the network named carmacks .

### Determining component dependencies

If the network to be deleted has a subnet component — and most likely it will have —, you will first have to delete the subnet before deleting the network. If, in addition, the network is behind a router (figurately speaking), then before deleting the subnet, you will have to disconnect it from the router. Finally, you will have the option to delete the router also. Let us see what the situation is with network carmacks.

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For more information on carmacks, click the three-dot icon (right-hand side of the network row) and behind a router. You may click on tabs *Subnets* and *Routers*, to see more information regarding the



To quickly check whether network carmacks has a subnet or not, type:

```
openstack network show carmacks -c subnets

+-----+
| Field | Value |
+-----+
| subnets | 7fa9e5a2-7d5a-466e-b120-7d2bffb99ce5 |
+-----+
```

If the value for the field subnets is non-empty, like in the example output above, that means the net

```
SUBNET ID="7fa9e5a2-7d5a-466e-b120-7d2bffb99ce5"
```

What about a router in front of carmacks? You might try checking the output of this command:

```
openstack network show carmacks
```

```
| Field | Value |
| admin_state_up | UP
| availability_zone_hints |
| availability_zones | nova
is_default | None
is_vlan_transparent | None
carmacks
port_security_enabled | True
| provider:network type | None
| provider:physical network | None
| provider:segmentation id | None
| subnets
| tags
```

While it usually pays off to use openstack commands with the verb show on various objects, in this different vantage point. Try, in particular, to list all routers:

The name of the second router says it all, but since it is just a name, it doesn't hurt to verify the ro

Looking at the value of interfaces info, it is easy to see that subnet id has the value of the variable S

There will be times when router names won't help much. Then, try a more exhaustive search app

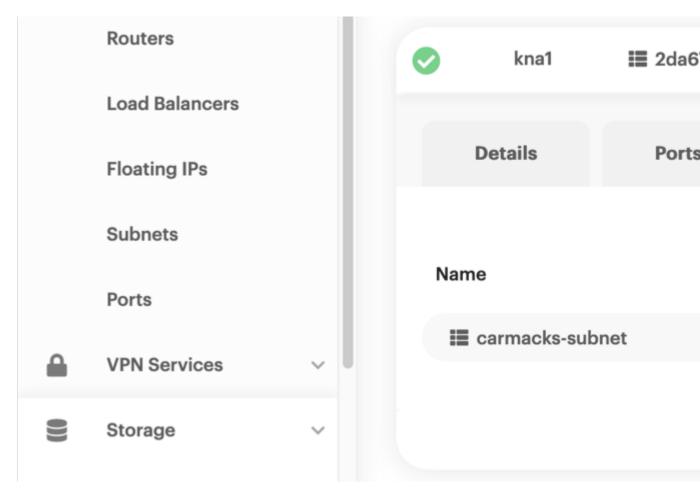
```
for i in $(openstack router list -f value -c Name); \
do echo Checking router "$i"; \
openstack router show "$i" -f json -c interfaces_info \
| grep "$SUBNET_ID"; \
done

Checking router carmacks-router
    "subnet_id": "7fa9e5a2-7d5a-466e-b120-7d2bffb99ce5"
Checking router router-kna1
```

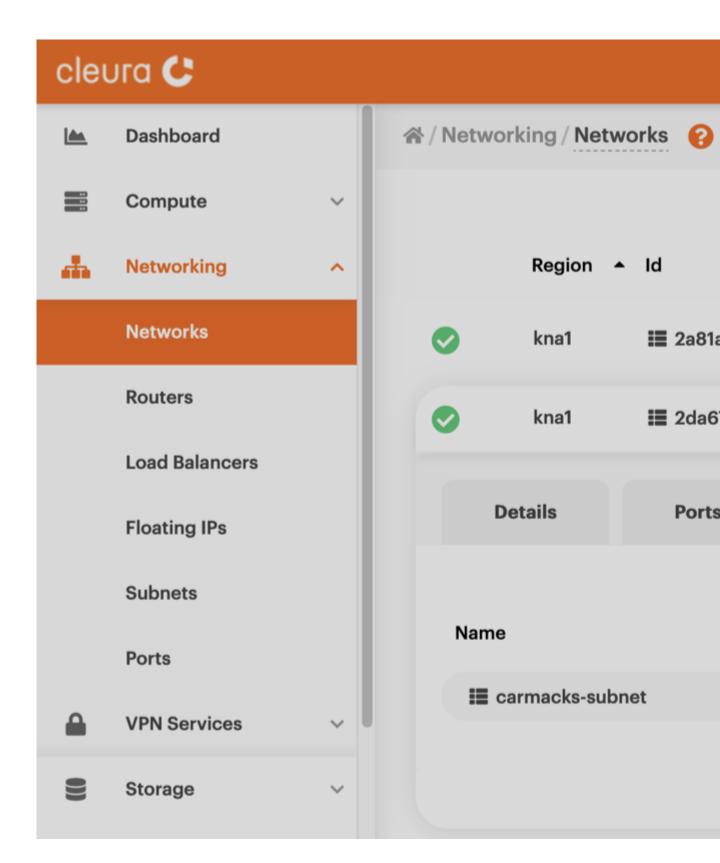
#### Tearing down networks

Now that you know you're dealing with a full-blown network and a router, you start by disconnecting the subnet from the router. Then, you will move on to deleting the subnet and the network, and after that, you can finish up with deleting the router.

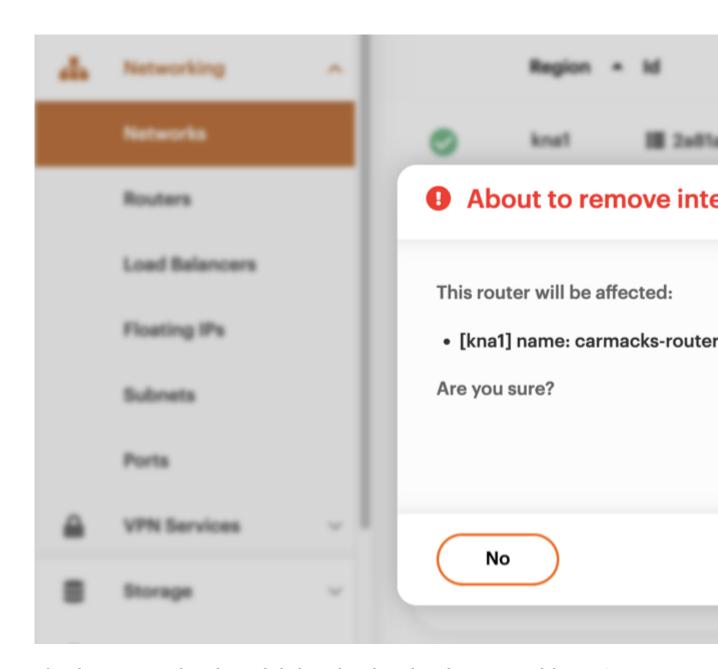
Go to the Subnets tab of the carmacks network, and click the gray notepad-and-pen icon (at the lef



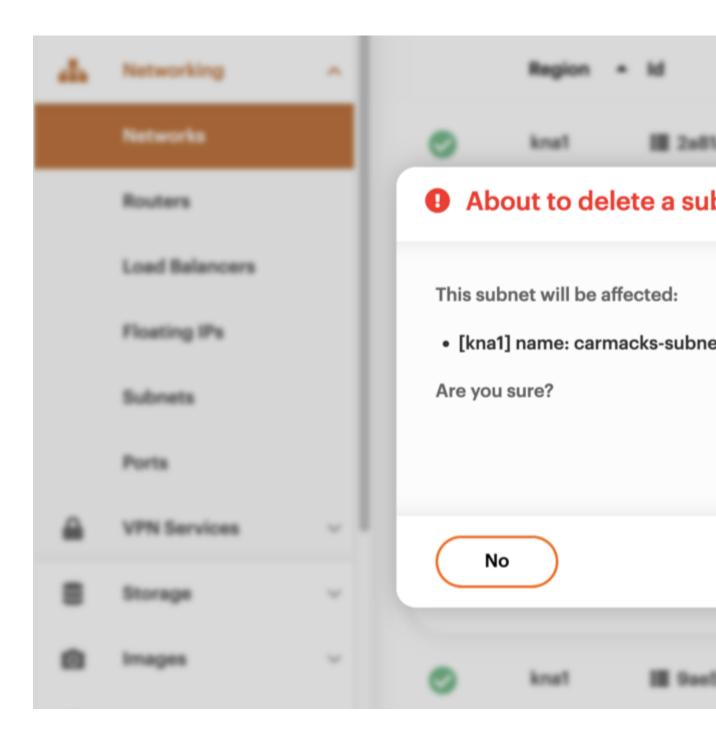
A vertical pane titled Modify Subnet will slide over from the right-hand side of the page. Pay attent



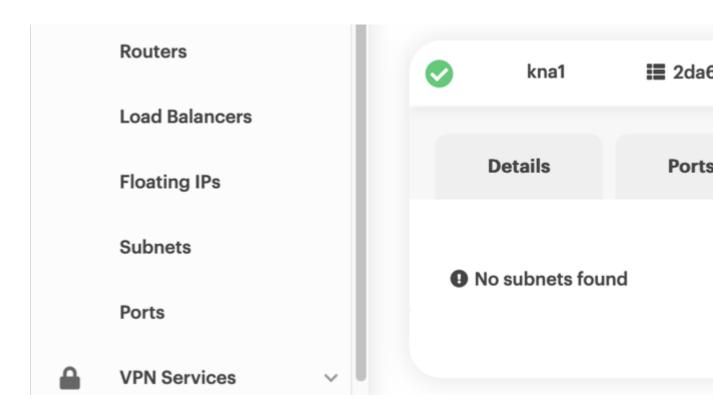
A pop-up window will appear, asking if you really want to go ahead with the disconnection. Just clied



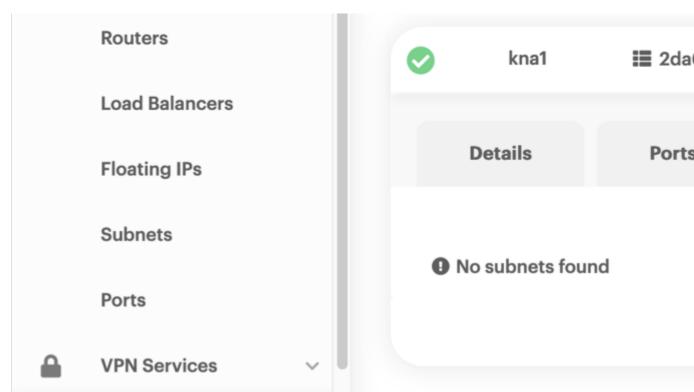
After disconnecting the subnet, click the red circle-and-trashcan icon to delete it. Once more, a popular



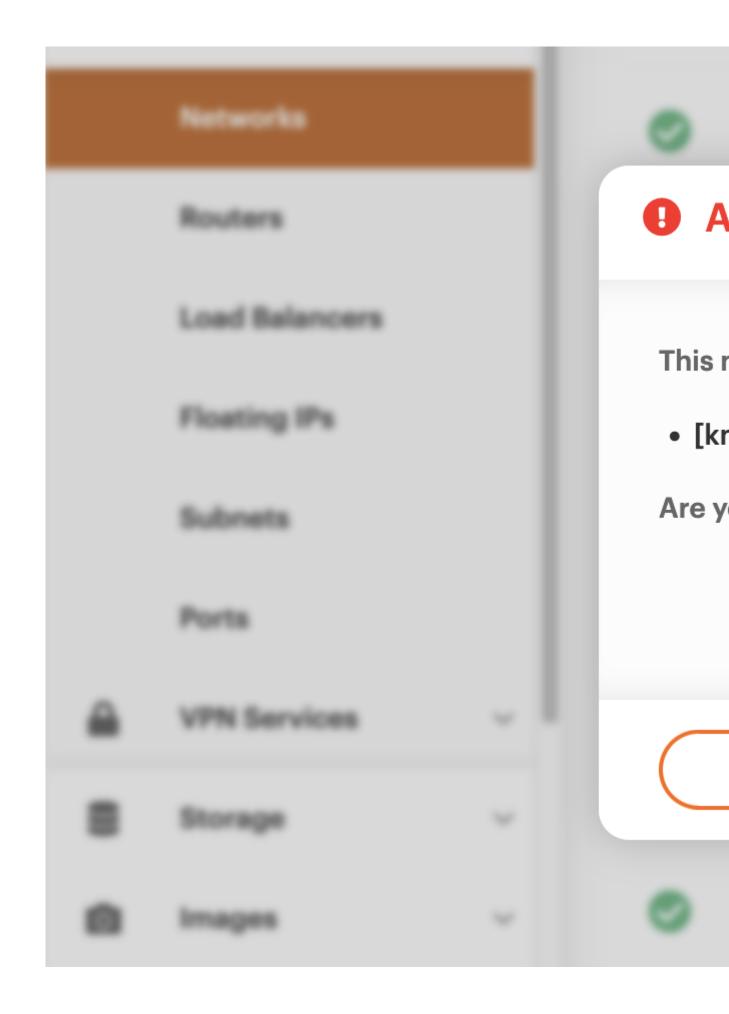
As soon as you delete the subnet, in the Subnets tab you will see the message No subnets found.



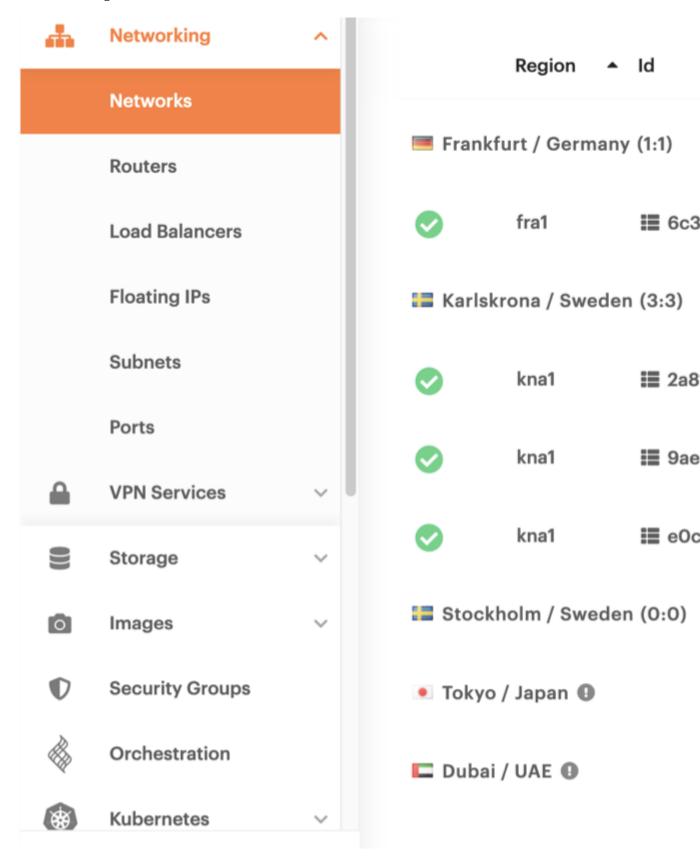
You can now delete the network. Click the three-dot icon (right-hand side of the network row) and



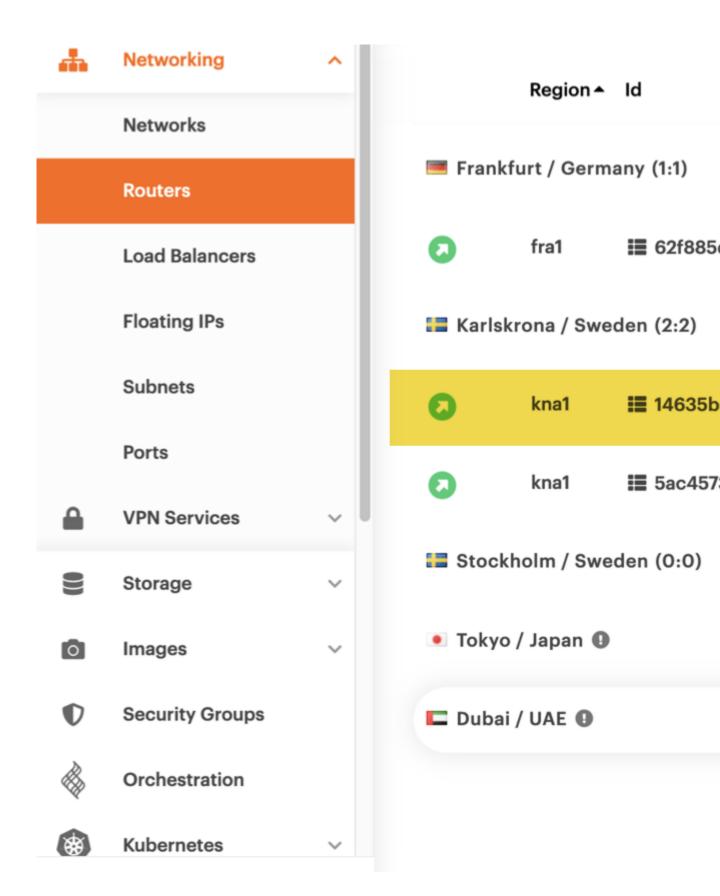
Of course, you will have to confirm this action. Clicking the red Yes, Delete button is enough.



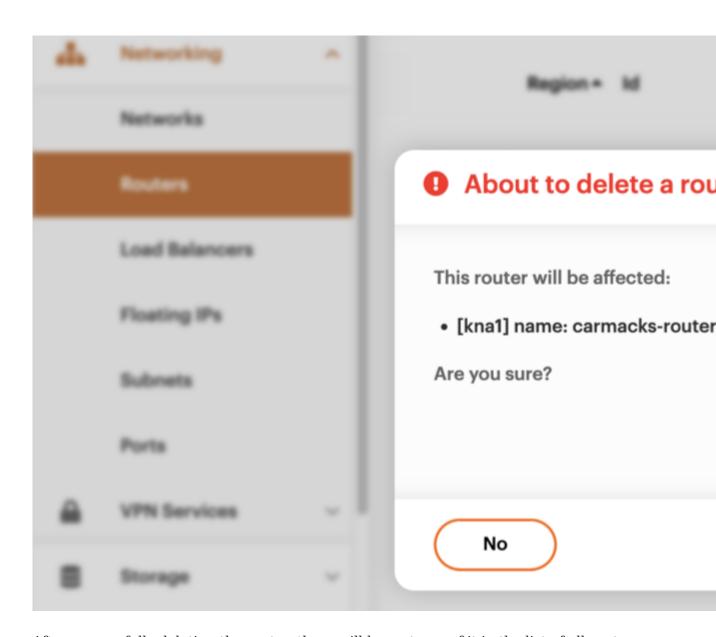
After deleting the network, it will not be on the list of all available networks.



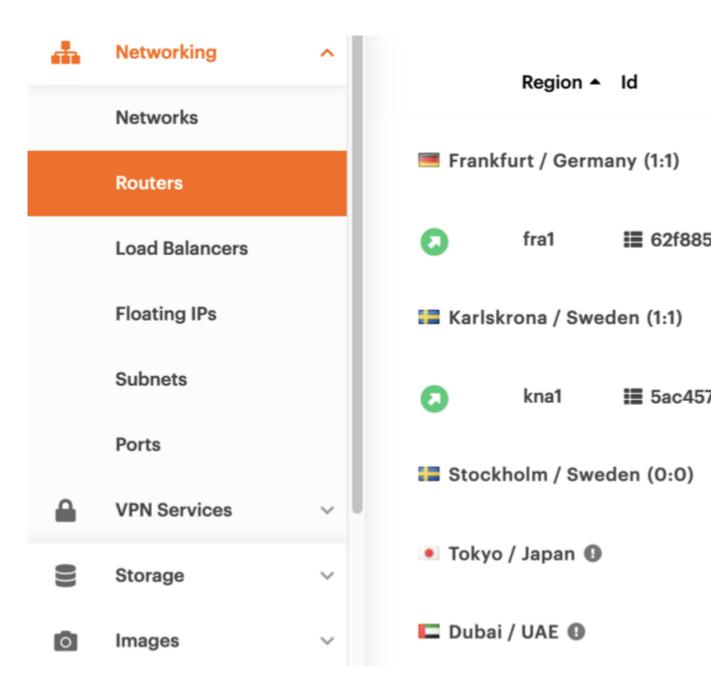
There's still that router lying around, and if you have no use for it, go to the Routers page to delete



Click the red three-dot icon of the router you wish to delete and select Delete Router. A pop-up wil



After successfully deleting the router, there will be no trace of it in the list of all routers.



First, take a look at all available subnets:

As you would expect, included on the list is subnet carmacks-subnet, which you are about to delete.

```
openstack subnet delete $SUBNET ID
```

Failed to delete subnet with name or ID '7fa9e5a2-7d5a-466e-b120-7d2bffb99ce5': ConflictException: 409: Client Error for url: kna1.citycloud.com:9696/v2.0/subnets/7fa9e5a2-7d5a-466e-b120-7d2bffb99ce5, Unable to complete operation on subnet 7fa9e5a2-7d5a-466e-b120-7d2bffb99ce5: One or more ports have an IP allocation from this subnet.

1 of 1 subnets failed to delete.

The trick here is to first disconnect the subnet from the corresponding router, which is perfectly do

```
openstack router remove subnet carmacks-router $SUBNET ID
```

If the command above is successful, you will see no output on your terminal. Now, an attempt to de

```
openstack subnet delete $SUBNET_ID
```

Again, no command output means success, but we suggest you check yourself:

```
openstack subnet list
```

The subnet carmacks-subnet is not on the list, which is what you wanted exactly. Next is network ca

```
openstack network list --internal
```

Network carmacks is on the list, and by looking at the Subnets column, you see that it has no subnet

```
openstack network delete carmacks
```

No command output signals success, but it never hurts to verify yourself:

Network carmacks is gone, and if you have no use of carmacks-router, go ahead and delete it:

```
openstack router delete carmacks-router
```

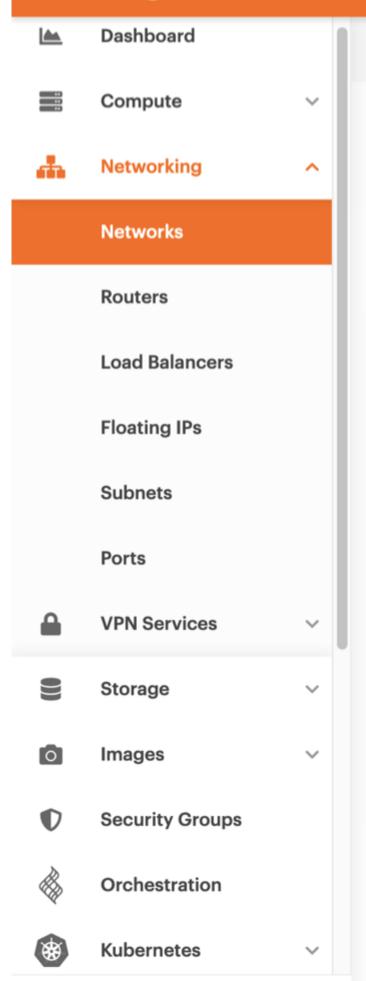
There is no output on the terminal, and yet the router is gone:

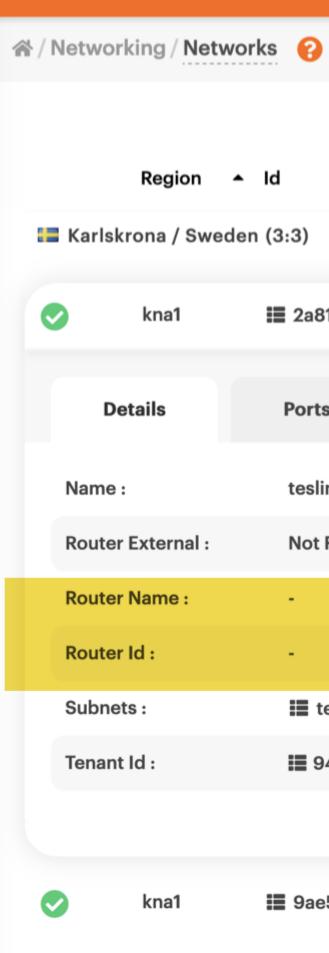
#### Networks with a subnet but no router

These are faster to delete, for there is no router to disconnect the subnet from. For our demonstration, we created network teslin, with subnet teslin-subnet and no router in front of it.

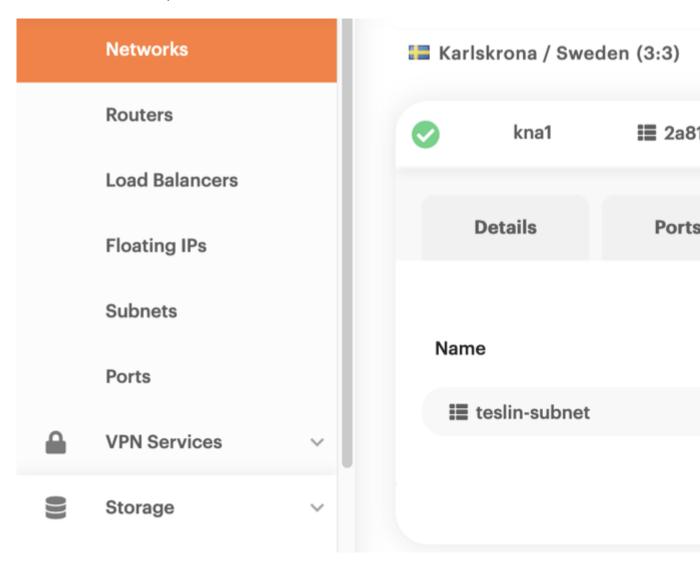
In the vertical pane on the left-hand side of the dashboard, expand the *Networking* section and clic Looking at the network details, it is immediately apparent that there's no router in front of it.

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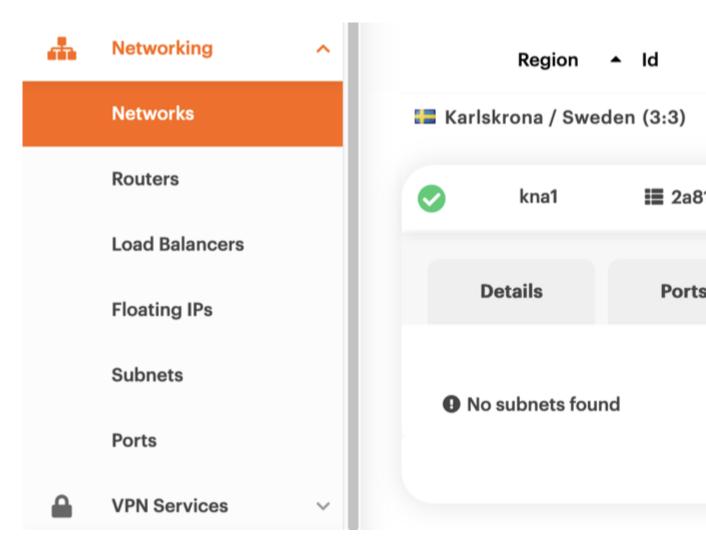




Go to the *Subnets* tab, and click the red circle-with-trashcan icon to delete the subnet.



Then, click the red three-dot icon at the right-hand side of the teslin row, and select Delete Network



Let us first take a look at all available networks...

...and at all available subnets:

Since there is nothing to disconnect the teslin-subnet from, you may go ahead and delete the subne

```
openstack subnet delete teslin-subnet
```

There is no command output. This is expected, but why not check yourself?

Finally, network teslin can go away with a single command:

```
openstack network delete teslin
```

The absence of any output means the command was successful. Take a look yourself:

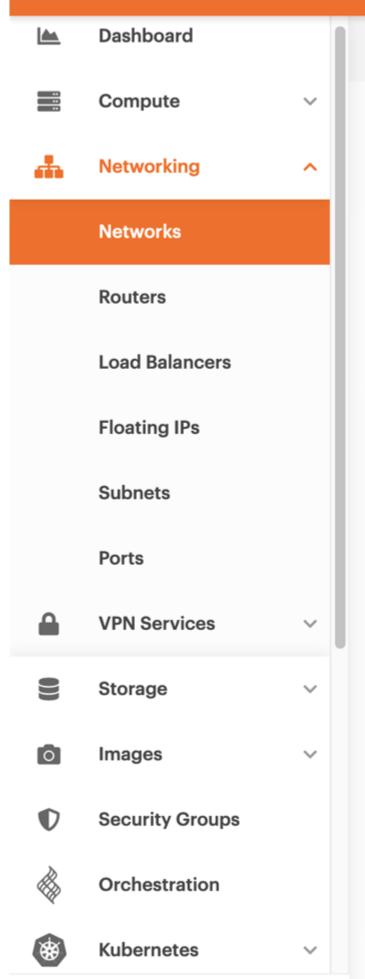
#### Networks with no subnet and no router

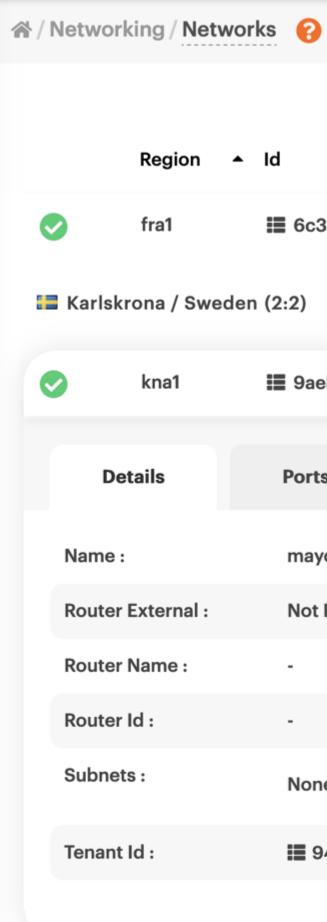
You may directly, without the slightest preparation, delete networks like these. For our demonstration, we created a network named  $\[mayo\]$ , with no subnet and no router in front of it.

Cleura Cloud Management Panel OpenStack CLI

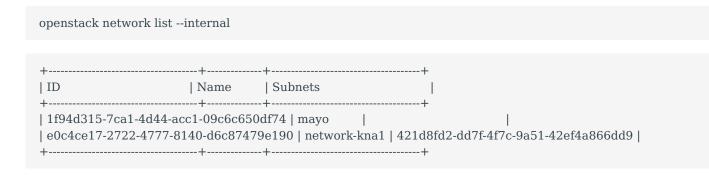
While viewing all available networks, click the red three-dot icon at the right-hand side of the mayor

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Once more, take a look at all remaining networks:



Since mayo has no subnet, issue a single command to delete it:

```
openstack network delete mayo
```

And, yes, it is still a good idea to check yourself:

### Recap: Of networks and towns

Depending on the features of a Neutron network, deleting it may require some preparation work. For the purposes of this guide, we created three different networks with different characteristics; carmacks, teslin, and mayo. Then, either from the Cleura Cloud Management Panel or with the help of OpenStack CLI, we showed how we discover any component dependencies and how we work towards deletion. Eventually, all three test networks were gone. We should point out, though, that all three namesake towns in Yukon are still there.

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