## Assigning multiple public (floating) IPs to a server

In Cleura, we do not pass external networks to the compute nodes. This means that you, as a user, can not directly attach a server to the public network.

In order to provide connectivity to the public network (for IPv4), you need to use floating IPs. A floating IP is created in the public subnet, and is mapped to the specific network port. All traffic comes through a virtual router.

For some scenarios, you might need to have more than one public IP assigned to a server. But in case of 1-to-1 NAT (which is how the floating IP is implemented under the hood) you can not assign more than one external IP to the internal one. And adding a new port to the VM is also not an option, since this would result in asymmetric routing, as replies will go through the first interface for which a default route is set.

Instead, you must first configure an additional *private* ("fixed") IP address for your port, then associate a public ("floating") IP address to map to it.

## Add an extra IP to the port

Assume you already have a network port inside your private network:

And you also have a floating IP associated with it:

Then what you need to do, is to add extra IP address to your existing port:

You can then confirm that the port does have two entries in its fixed ips list:

Don't forget to configure new IP as an alias to the interface inside your VM!

When you have an IP address on your port that is not yet assigned to any floating IP, you can assign it to the new floating IP. Proceed with:

```
$ openstack floating ip set c45a5eaf-2f3a-4679-89fe-266a5cbe840a --port 51dae637-ad79-4ba9-9e41-78e5e0f3332c --fixed-ip-address 10.2.0.228
```

Then, list the floating (public) IP addresses, together with their fixed (private) counterparts:

Now your server is accessible through two different public IP addresses.

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