

# How To

## Add a compute node

You already deployed successfully Joid and want to scale up ? this is how to add a compute node:

- Add a new compute node unit:

```
juju add-unit nova-compute
```

- Check the new compute is ready

```
juju status --format=tabular | grep nova-compute
```

- Get the ID of your last added compute and add Ceph to this node:

```
ID=$(juju status --format=tabular | tail -n2 | head -n1 | cut -d\ -f1)
juju add-unit ceph-osd --to $ID
```

- Check ceph is ready

```
juju status --format=tabular | grep ceph-osd
```

## Update CEPH number of replicat

```
juju set ceph-radosgw ceph-osd-replication-count=2
```

## Configure access to Public API on HA mode

There is 2 way of configuring public access on API:

- Production ready: Using a NAT between a public IP and the admin network
- Test/CI usage: using a reverse proxy on the jumphost

### Using a NAT

#### Register API FQDN

First set your DNS:

##### DNS Entries

api	28800	A	<PUBLIC_IP_TO_NAT>
heat	28800	CNAME	api
glance	28800	CNAME	api
cinder	28800	CNAME	api
ceilometer	28800	CNAME	api
nova	28800	CNAME	api
neutron	28800	CNAME	api
swift	28800	CNAME	api

#### Set NAT rules

- [Add a compute node](#)
- [Update CEPH number of replicat](#)
- [Configure access to Public API on HA mode](#)
  - [Using a NAT](#)
    - [Register API FQDN](#)
    - [Set NAT rules](#)
  - [Test/CI usage: using a reverse proxy](#)
    - [Add a public IP on the jumphost](#)
    - [Set the reverse proxy](#)

Set those NAT rules on the default router:

name	public port	internal IP	internal port
api	5000	<ADMIN_NETWORK_VIP_PREFIX>3	5000
heat	8004	<ADMIN_NETWORK_VIP_PREFIX>8	8004
glance	9292	<ADMIN_NETWORK_VIP_PREFIX>2	9292
heat	8000	<ADMIN_NETWORK_VIP_PREFIX>8	8000
cinder	8776	<ADMIN_NETWORK_VIP_PREFIX>9	8776
nova	8774	<ADMIN_NETWORK_VIP_PREFIX>6	8774
neutron	9696	<ADMIN_NETWORK_VIP_PREFIX>7	9696
swift	80	<ADMIN_NETWORK_VIP_PREFIX>1	80
ceilometer	8777	<ADMIN_NETWORK_VIP_PREFIX>4	8777

<ADMIN\_NETWORK\_PREFIX> is the prefix of the virtual ips of your clusters. As an example, <ADMIN\_NETWORK\_PREFIX>3 on the Orange pod2 will be 192.168.2.23

## Test/CI usage: using a reverse proxy

### Add a public IP on the jumphost

Add an IP from your JOID public network on the jumphost (the next after the router ip for example)

### Set the reverse proxy

Edit joid/ci/joid\_pub\_access\_nginx.sh

```
# Public Network (to authorize only the admin network to connect api
PUBNET=10.0.0.0/24
# Public IP
PUBIP=10.0.1.3
# Public interface
PUBIF=eth1.120
# Admin interface
ADMIF=brAdm
# Admin network prefix
ADMNETPREF=192.168.1.2
# Domain name for APIs
DOMAIN=pod1.opnfv.fr
```

Run the script:

```
bash joid/ci/joid_pub_access_nginx.sh
```

To delete the reverse proxy and clean iptables rules, run:

```
bash joid/ci/joid_pub_access_nginx.sh -D
```