

**Important**

If you configure multiple subnets for a network, those subnets must be able to route to each other.

The `public` and `cluster` networks can be changed with the `ceph config set` command or with the `ceph config assimilate-conf` command.

Configuring Individual Daemons

MON daemons bind to specific IP addresses, but MGR, OSD, and MDS daemons bind to any available IP address by default. In Red Hat Ceph Storage 5, `cephadm` deploys daemons in arbitrary hosts by using the `public` network for most services. To handle where `cephadm` deploys new daemons, you can define a specific subnet for a service to use. Only hosts that have an IP address in the same subnet are considered for deployment of that service.

To set the `172.25.252.0/24` subnet to MON daemons:

```
[ceph: root@node /]# ceph config set mon public_network 172.25.252.0/24
```

The example command is the equivalent of the following `[mon]` section in a cluster configuration file.

```
[mon]
public_network = 172.25.252.0/24
```

Use the `ceph orch daemon add` command to manually deploy daemons to a specific subnet or IP address.

```
[ceph: root@node /]# ceph orch daemon add mon cluster-host02:172.25.251.0/24
[ceph: root@node /]# ceph orch daemon rm mon.cluster-host01
```

Using runtime `ceph orch daemon` commands for configuration changes is not recommended. Instead, use service specification files as the recommended method for managing Ceph clusters.

Running IPv6

The default value of the `ms_bind_ipv4` setting is `true` for the cluster and the value of the `ms_bind_ipv6` setting is `false`. To bind Ceph daemons to IPv6 addresses, set `ms_bind_ipv6` to `true` and set `ms_bind_ipv4` to `false` in a cluster configuration file.

```
[global]
public_network = <IPv6 public-network/netmask>
cluster_network = <IPv6 cluster-network/netmask>
```

Enabling Jumbo Frames

Configuring the network MTU to support jumbo frames is a recommended practice on storage networks and might improve performance. Configure an MTU value of 9000 on the `cluster` network interface to support jumbo frames.