

Service name	Ports	Description
Prometheus Node Exporter	9100/TCP	Communication with the Prometheus Node Exporter daemon
Grafana server	3000/TCP	Communication with the Grafana service
Ceph Object Gateway (RGW)	80/TCP	Communication with Ceph RADOSGW. If the <code>client.rgw</code> configuration section is empty, <code>cephadm</code> uses the default port 80.
Ceph iSCSI Gateway	9287/TCP	Communication with Ceph iSCSI Gateway

MONs always operate on the `public` network. To secure MON nodes for firewall rules, configure rules with the `public` interface and `public` network IP address. You can do it by manually adding the port to the firewall rules.

```
[root@node ~]# firewall-cmd --zone=public --add-port=6789/tcp
[root@node ~]# firewall-cmd --zone=public --add-port=6789/tcp --permanent
```

You can also secure MON nodes by adding the `ceph-mon` service to the firewall rules.

```
[root@node ~]# firewall-cmd --zone=public --add-service=ceph-mon
[root@node ~]# firewall-cmd --zone=public --add-service=ceph-mon --permanent
```

To configure a `cluster` network, OSDs need rules for both the `public` and `cluster` networks. Clients connect to OSDs by using the `public` network and OSDs communicate with each other over the `cluster` network.

To secure OSD nodes for firewall rules, configure rules with the appropriate network interface and IP address.

```
[root@node ~]# firewall-cmd --zone=<public-or-cluster> --add-port=6800-7300/tcp
[root@node ~]# firewall-cmd --zone=<public-or-cluster> \
--add-port=6800-7300/tcp --permanent
```

You can also secure OSD nodes by adding the `ceph` service to the firewall rules.

```
[root@node ~]# firewall-cmd --zone=<public-or-cluster> --add-service=ceph
[root@node ~]# firewall-cmd --zone=<public-or-cluster> \
--add-service=ceph --permanent
```



References

For more information, refer to the *Network Configuration Reference* chapter in the *Red Hat Ceph Storage 5 Configuration Guide* at https://access.redhat.com/documentation/en-us/red_hat_ceph_storage/5/html-single/configuration_guide/index#ceph-network-configuration