## **Configuring Cluster Networking**

## **Objectives**

After completing this section, you should be able to describe the purpose for each of the cluster networks, and view and modify the network configuration.

## **Configuring the Public and Cluster Networks**

The public network is the default network for all Ceph cluster communication. The cephadm tool assumes that the network of the first MON daemon IP address is the public network. New MON daemons are deployed in the public network unless you explicitly define a different network.

Ceph clients make requests directly to OSDs over the cluster's public network. OSD replication and recovery traffic uses the public network unless you configure a separate cluster network for this purpose.

Configuring a separate cluster network might improve cluster performance by decreasing the public network traffic load and separating client traffic from back-end OSD operations traffic.



Figure 3.6: OSD network communication

Configure the nodes for a separate cluster network by performing the following steps.

- · Configure an additional network interface on each cluster node.
- Configure the appropriate cluster network IP addresses on the new network interface on each node.
- Use the --cluster-network option of the cephadm bootstrap command to create the cluster network at the cluster bootstrap.

You can use a cluster configuration file to set public and cluster networks. You can configure more than one subnet for each network, separated by commas. Use CIDR notation for the subnets (for example, 172.25.250.0/24).

```
[global]

public_network = 172.25.250.0/24,172.25.251.0/24

cluster_network = 172.25.249.0/24
```