External 10.3.150.0/24

Storage Mgmt 10.3.163.128/25

Storage Public 10.3.166.0/23

Internal API 10.3.162.0/24

pxe/Provisioning 10.3.160.0/23

RHEL OSP
Director

RHEL OSP 3x
Controller

RHEL OSP
Compute

RHEL OSP
CEPH NODE

External: Hosts the OpenStack Dashboard (horizon) for graphical system management, the public APIs for OpenStack services, and performs SNAT for incoming traffic destined for instances. If the external network uses private IP addresses (as per RFC-1918), then further NAT must be performed for traffic originating from the internet.

Storage Mgmt. : Services that use a Ceph backend connect over the Storage Management network, since they do not interact with Ceph directly but rather use the frontend service. Note that the RBD driver is an exception, as this traffic connects directly to Ceph.

Storage Public: Block Storage, NFS, iSCSI, and others. Ideally, this would be isolated to an entirely separate switch fabric for performance reasons.

Internal API: The Internal API network is used for communication between the OpenStack services using API communication, RPC messages, and database communication.

Provisioning: The director uses this network traffic type to deploy new nodes over PXE boot and orchestrate the installation of OpenStack Platform on the overcloud bare metal servers. This network is predefined before the installation of the undercloud.