Requirements for a successful OPNFV installation

OpenStack can be very challenging to install. The procedures and documentation have improved over time, but there is still a lot to do. Configuring OpenStack to work appropriately with OpenDaylight and other components of the OPNFV architecture can be even more challenging.

For OPNFV deployment, proper network preparation is key. Most requirements are covered in the Installation Guide. This can be found in the Documentation section at:
https://www.opnfv.org/software/download

For Arno release, the Documentation lists the following:

Jumphost Requirements

1. CentOS 7 (from ISO or self-installed).
2. Root access.
3. libvirt or other hypervisors disabled (no kernel modules loaded).
4. 3-4 NICs, untagged (no 802.1Q tagging), with IP addresses.
5. Internet access for downloading packages, with a default gateway configured.
6. 4 GB of RAM for a bare metal deployment, 24 GB of RAM for a VM deployment.

Network Requirements

1. No DHCP or TFTP server running on networks used by OPNFV.
2. 3-4 separate VLANs (untagged) with connectivity between Jumphost and nodes (bare metal deployment only). These make up the admin, private, public and optional storage networks.
3. Lights out OOB network access from Jumphost with IPMI node enabled (bare metal deployment only).
4. Admin or public network has Internet access, meaning a gateway and DNS availability.

Note: Storage network will be consolidated to the private network if only 3 networks are used.

Bare Metal Node Requirements

1. IPMI enabled on OOB interface for power control.
2. BIOS boot priority should be PXE first then local hard disk.
3. BIOS PXE interface should include admin network mentioned above.

Execution Requirements (Bare Metal Only)

In order to execute a deployment, one must gather the following information:

1. IPMI IP addresses for the nodes.
2. IPMI login information for the nodes (user/pass).
3. MAC address of admin interfaces on nodes.
4. MAC address of private interfaces on 3 nodes that will be controllers

This video helps you establish and understand the requirements of your OPNFV deployment.