Configure and Install Ceph

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This section describes the procedure to configure and install Ceph services.

Limitation

1. The OSD role cannot be changed. If you need to provision more disks on a given OSD node, ensure that you remove the earlier disks.

Pre-requisites

- Configure Processor has to be executed. When you execute the configure processor, the `hosts/verb_hosts` file is generated and two sections 'CEP-MON:children' and 'CEP-OSD:children' are added. The`hosts/ verb_hosts` file list the host on which the corresponding services will be installed.
- Config processor should have executed, which will generate the hosts/verb_hosts file with 'CEP-MON:children' and 'CEP-OSD:children' sections, which will list the hosts on which corresponding services will be installed. Otherwise, manually create the sections and list the appropriate hosts under the corresponding sections.

Procedure to install Ceph

1. Login in as a Stack user and execute the following command from the deployer:

```
cd helion/hlm/ansible
```

2. Configure OSDs in `roles/CEP-OSD/defaults/main.yml`. You can set the OSD configuration as per the environment.
3. Specify the data disks for Ceph storage in `roles/CEP-OSD/vars/ceph_disk_model.yml`
4. (Optional) Specify the journal disk to be used for a specific data disk. If you do not specify a journal disk then a separate partition is created on the data disk, which is used for journalling. A sample of disk model is as follows:

```
---

osd_disk_model:

  device_groups:

    - name: ceph-osd-data-and-journal

      devices:

        - name: /dev/sdd

      consumer:

        name: ceph

        attrs:

          usage: data

          journal_disk: /dev/sdf
```

> **Note:** In the above sample, the consumer name **ceph** is standard. This indicates that the drive should be consumed by Ceph.

> **Note:** You can repeat `ceph-osd-data-and-journal` for each data disk on an OSD node.

5. Execute the following command to install ceph:

```
ansible-playbook -i hosts/verb_hosts ceph-deploy.yml
```