▶ Lab

Deploying Red Hat Ceph Storage

In this lab, you will deploy a Red Hat Ceph Storage cluster.

Outcomes
You should be able to deploy a new Ceph cluster.

Before You Begin
As the `student` user on the `workstation` machine, use the `lab` command to prepare your system for this exercise.

```
[student@workstation ~]$ lab start deploy-review
```

This command confirms that the local container registry for the classroom is running and deletes the prebuilt Ceph cluster so it can be redeployed with the steps in this exercise.

> **Important**
> This lab start script immediately deletes the prebuilt Ceph cluster and takes a few minutes to complete. Wait for the command to finish before continuing.

Instructions

Deploy a new cluster with `serverc`, `serverd`, and `servere` as MON, MGR, and OSD nodes. Use `serverc` as the deployment bootstrap node. Add OSDs to the cluster after the cluster deploys.

1. Use `serverc` as the bootstrap node. Log in to `serverc` as the `admin` user and switch to the `root` user. Run the `cephadm-preflight.yml` playbook to prepare the cluster hosts.

2. Create a services specification file called `initial-cluster-config.yaml`.

    Using the following template, add hosts `serverd.lab.example.com` and `servere.lab.example.com`, with their IP addresses, as `service_type: host`. Add `serverc` and `serverd` to the `mon` and `mgr` sections.

```
---
service_type: host
addr: 172.25.250.12
hostname: serverc.lab.example.com
---
service_type: mon
placement:
  hosts:
    - serverc.lab.example.com
---
service_type: mgr
placement:
```