▶ **Guided Exercise**

Deploying Red Hat Ceph Storage

In this exercise, you will install a Red Hat Ceph Storage cluster.

Outcomes
You should be able to install a containerized Ceph cluster by using a service specification file.

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-deploy
```

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

▶ 1. Log in to `serverc` as the `admin` user and switch to the `root` user.

```
[student@workstation ~]$ ssh admin@serverc
[admin@serverc ~]$ sudo -i
[root@serverc ~]#
```

▶ 2. Install the `cephadm-ansible` package, create the inventory file, and run the `cephadm-preflight.yml` playbook to prepare cluster hosts.

   2.1.   Install the `cephadm-ansible` package in `serverc`.

```
[root@serverc ~]# yum install cephadm-ansible
...output omitted...
Complete!
```

   2.2.   Create the `hosts` inventory in the `/usr/share/cephadm-ansible` directory.

```
[root@serverc ~]# cd /usr/share/cephadm-ansible
```