

► Solution

Providing Object Storage Using a RADOS Gateway

In this lab, you will configure Ceph to provide object storage to clients.

Outcomes

You should be able to deploy and configure the Ceph RADOS Storage service.

Before You Begin

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

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

This command ensures that the lab environment is created and ready for the lab exercise.

Instructions

1. Log in to `serverc` as the `admin` user. Create a realm called `prod` and set it as the default. Create a master zone group called `us-west` with the endpoint set to `http://serverc:8080`. Set the zone group as the default.

- 1.1. Log in to `serverc` as the `admin` user and use `sudo` to run the `cephadm` shell.

```
[student@workstation ~]$ ssh admin@serverc
[admin@serverc ~]$ sudo cephadm shell
[ceph: root@serverc /]#
```

- 1.2. Create a realm called `prod` and set it as the default.

```
[ceph: root@serverc /]# radosgw-admin realm create --rgw-realm=prod --default
```

- 1.3. Create a master zone group called `us-west`.

```
[ceph: root@serverc /]# radosgw-admin zonegroup create --rgw-zonegroup=us-west \
--endpoints=http://serverc:8080 --master --default
```

2. Create a master zone called `us-west-1` and set the endpoint to `http://serverc:8080`. Set the zone as the default. Use `admin` as the access key and `secure` as the secret key.

```
[ceph: root@serverc /]# radosgw-admin zone create --rgw-zonegroup=us-west \
--rgw-zone=us-west-1 --endpoints=http://serverc:8080 --master \
--access-key=admin --secret=secure --default
```