▶ 5. Your application evolves over time and now the client.docget user also needs write access to the docs namespace within the replpool1 pool. This user also needs to store documents in the docarchive pool.

Confirm that the client.docget user cannot store objects yet in the docs namespace within the replpool1 pool:

```
[ceph: root@clienta /]# rados --id docget -p replpool1 -N docs put \
mywritetest /etc/hosts
error putting mypool/mywritetest: (1) Operation not permitted
```

▶ 6. Grant the client.docget user rw capabilities on the docs namespace within the replpool1 pool, and rw capabilities on the non-yet-created docarchive pool. Confirm that the client.docget user can now store objects in the docs namespace.

```
[ceph: root@clienta /]# ceph auth caps client.docget mon 'allow r' \
osd 'allow rw pool=replpool1 names pace=docs, allow rw pool=docarchive'
updated caps for client.docget
[ceph: root@clienta /]# rados --id docget -p replpool1 -N docs put \
mywritetest /etc/hosts
```

You must define the total user capabities with the ceph auth caps command because it overwrites previous definitions. You can define capabilities on pools that do not exist yet, such as the docarchive pool.

▶ 7. Exit the cephadm shell and clean up by deleting the client.docedit and the client.docget users. Remove the associated key-ring files.

```
[ceph: root@clienta /]# exit
[root@clienta ~]$ rm /etc/ceph/ceph.client.docedit.keyring
[root@clienta ~]$ ssh serverd rm /etc/ceph/ceph.client.docedit.keyring
[root@clienta ~]$ cephadm shell -- ceph auth del client.docedit
updated
[root@clienta ~]$ rm /etc/ceph/ceph.client.docget.keyring
[root@clienta ~]$ ssh serverd rm /etc/ceph/ceph.client.docget.keyring
[root@clienta ~]$ cephadm shell -- ceph auth del client.docget
updated
```

▶ 8. Return to workstation as the student user.

```
[root@clienta ~]$ exit
[admin@clienta ~]$ exit
[student@workstation ~]$
```

Finish

On the workstation machine, use the lab command to complete this exercise. This is important to ensure that resources from previous exercises do not impact upcoming exercises.

```
[student@workstation ~]$ lab finish component-auth
```

This concludes the guided exercise.