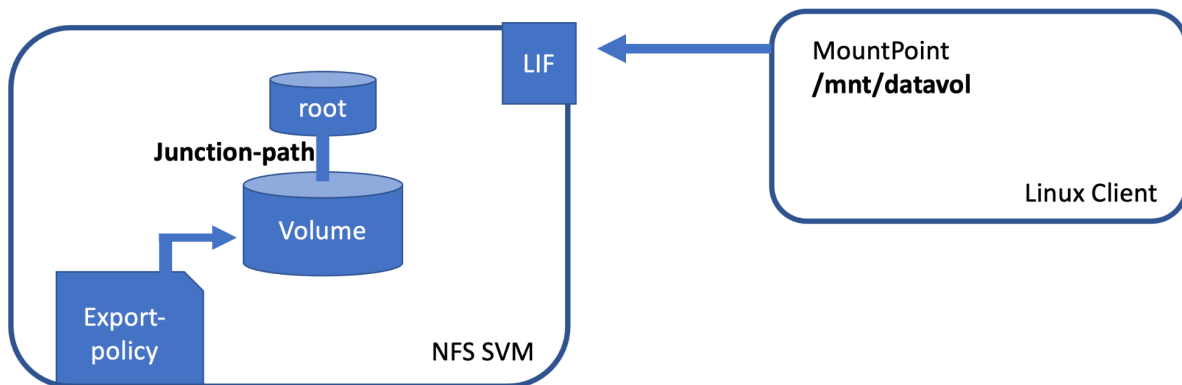


ONTAP_NFS_SVM

In this lab you will setup and configure a basic NFS Storage VM.
You will connect to the share using linux.

1. Create a new SVM
2. Create a LIF in the SVM
3. Create an export policy that allows access for reading and writing
4. Create a volume in the SVM and connect the export policy
5. Mount the volume
6. Enable NFS in the SVM
7. On linux, use the showmount command
8. On linux, create a mountpoint
9. Mount the volume and create a file

(see next page for commands)



NFS SVM and NFS client

Commands

1. Create an SVM called nfssvm with the default settings

cluster1::>

```
vserver create -vserver nfssvm -subtype default -rootvolume nfssvm_root
```

2. Create a LIF in the nfssvm with lifname nfslif1, use an available ip address.

cluster1::>

```
net int create -vserver nfssvm -lif nfslif1 -service-policy default-data-files -address 192.168.4.220 -netmask 255.255.255.0 -home-node cluster1-01 -home-port e0d
```

3. Create a new export-policy in the svm “nfssvm_pol”, and add a rule that allows access to all ips, and with read and write permissions, also for the superuser of a linux machine.

cluster1::

```
export-policy create -vserver nfssvm -policyname nfssvm_pol
```

```
export-policy rule create -vserver nfssvm -policyname nfssvm_pol -clientmatch 0.0.0.0/0 -rorule any -rwrule any -superuser any
```

4. Create a volume “nfsvol1” in an available aggregate. Volume size 100M, policy nfssvm_pol

cluster1::

```
vol create -vserver nfssvm -volume nfsvol1 -aggregate n1_data -size 100M -state online -policy nfssvm_pol
```

5. Mount the volume.

cluster1::>

```
vol mount -vserver nfssvm -volume nfsvol1 -junction-path /nfsvol1
```

6. Enable nfs for the SVM.

cluster1::>

```
nfs on nfssvm
```

7. Open up a collection to the linux machine. Run ‘showmount -e <nfssvm ip>.’

Linux:

```
showmount -e 192.168.4.220
```

(the output should look like this:

```
/ (everyone)
```

```
/nfsvol1 (everyone)
```

8. Create a mountpoint in /mnt

Linux:

```
mkdir /mnt/nfsvol1
```

9. Try to mount the volume.

Linux:

```
mount 192.168.4.220:/nfsvol1 /mnt/nfsvol1
```

This should fail. Why is that?

10. Connect the nfssvm_pol to the rootvolume of the SVM.

```
cluster1::>
```

```
vol modify -vserver nfssvm -volume nfssvm_root -policy nfssvm_pol
```

11. Repeat step 9.

```
mount 192.168.4.220:/nfsvol1 /mnt/nfsvol1
```

This should work.

12. Create a file in the volume from the linux client.

Linux:

```
touch /mnt/nfsvol1/file1
```