iscsi_nutanix_linux

In this exercise you will setup a linux client as iSCSI initiator.
You will then Create a volume group in Prism Element.
You will configure the iSCSI Data Services IP for the cluster.
You will attach the Linux iSCSI initiator to the volume group
From the Linux client you will login to the Nutanix target

The end result will be that you have all disks from the Nutanix
Volume Group mapped to the Linux iSCSI client.

1. Login to the Linux VM and run the following two commands:

```
unlink /etc/resolv.conf
echo nameserver 8.8.8.8 > /etc/resolv.conf
```

The first command will take the resolv.conf file away from systemd
The second command stores 8.8.8.8 as nameserver in the file
Check it:

```
cat /etc/resolv.conf
nameserver 8.8.8.8
```

2. Still logged in to Linux, run the following command:

```
dnf install -y iscsi-initiator-utils
```

This will install the iscsi initiator utilities.

3. Still logged in to Linux, run the following command:

```
systemctl enable iscsi --now
```

This will start the iscsi service after every reboot and right now.

4. Still in Linux, run the following command:

```
cat /etc/iscsi/initiatorname.iscsi
```

You will see the iqn for this machine.
Make a note of this name.

5. Login to Prism Element

6. Click on the clustername (next to the Nutanix logo)
Scroll down to the ISCSI Data Services IP
Enter a free IP address
e.g. **192.168.4.140**

7. From the Home pull down menu, select Storage

Click +Volume Group
Name: **`iscsi_vg1`**
Click + Add New Disk
Enter **`5`** in the size field
Click Add
Scroll down and checkbox Enable external client access
Click + Add New Client
Paste the client **iqn** from the linux machine you created in step 4.
Click Add
Click Save

8. In the Volume Group details of iscsi_vg1 buffer the Target IQN Prefix.
This target looks like this "**`iqn.2010-06.com.nutanix`**....."

9. Go back to Linux.
To discover the Nutanix Target, run the following command:

```
iscsiadm -m discovery -t sendtargets -p 192.168.4.140
```

Check the target.

```
iscsiadm -m node up
```

(this should list the iscsivg1 target)
Login to the target:

```
iscsiadm -m node --targetname <the iscsivg1 target iqn> \
--portal 192.168.4.140:3260 --login
```

10. Still in Linux run the following command:

```
lsblk
```

You should now see the 5G disk.

11. To make this permanent (through reboots) run the following command:

```
iscsiadm -m node --targetname <the iscsivg1 target iqn> \
--portal 192.168.4.140:3260 --op update --name node.startup \
--value automatic
```