### Instructions

You will be provisioned the access credentials (Username, Password and IP Connection) for a CentOS 7 server that you will use as both iSCSI server and iSCSI client (for verification). Once you have logged into your server, open your Activity Guide for instructions on completing this activity.

### Objectives

help

**Install the Server and Client iSCSI Utilities**

Since we are using the single instance as both server and client (target and initiator in this case), we can install what is needed with:

sudo yum install -y targetcli iscsi-initiator-utils

help

**Create the iSCSI Block Device on the Server**

Using the first device on the system of 20gb, you are asked to create a block device that you make available via iSCSI. This will involve the following commands:

As root:

[#/] targetcli

/> backstores/block/ create test1 /dev/xvdg

/> iscsi/ create iqn.2018-11.com.mylabserver:t1

/> cd iscsi/iqn.2018-11.com.mylabserver:t1/tpg1

/> luns/ create /backstores/block/test1

/> acls/ create iqn.2018-11.com.mylabserver:client

help

**Enable and Start the Target iSCSI Service**

Easy enough to do, as root:

systemctl enable target

systemctl start target

help

**Create the Client Initiator Name**

We need to add the client initiator name (which we created in the earlier configration ACL for the target) to the /etc/initiatorname.iscsi file, like so:

 InitiatorName=iqn.2018-11.com.mylabserver:client

help

**Complete the Client 'Initiator' Configuration and Discover (Verify) the Configuration**

Within the /etc/iscsi/iscsi.conf file, you will look for, and change, the following values in the file:

node.session.auth.authmethod = CHAP

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You are COMMENTING OUT the value. You then need to enable and start the service:

systemctl enable iscsi

systemctl start iscsi

Discover and verify you can now see the block device:

iscsiadm --mode discovery --type sendtargets --portal [Private IP of Server]

and you should see the target configured. Now make sure you can connect:

iscsiadm --mode node --targetname iqn.2018-11.com.mylabserver:t1 --portal [Private IP of Server] --login

You should now see the SCSI device (like /dev/sda) when executing the 'lsblk' command