login as: root

root@192.168.44.131's password:

Last login: Fri Jul 14 22:36:40 2023

**[root@localhost ~]# hostnamectl set-hostname client**

**[root@localhost ~]# exec bash**

**[root@client ~]# yum install iscsi-initiator-utils**

Loaded plugins: fastestmirror

Determining fastest mirrors

\* base: centos.mirror.net.in

\* extras: centos.mirror.net.in

\* updates: centos.mirror.net.in

base | 3.6 kB 00:00:00

extras | 2.9 kB 00:00:00

updates | 2.9 kB 00:00:00

(1/4): base/7/x86\_64/group\_gz | 153 kB 00:00:00

(2/4): extras/7/x86\_64/primary\_db | 250 kB 00:00:00

(3/4): updates/7/x86\_64/primary\_db | 22 MB 00:00:01

(4/4): base/7/x86\_64/primary\_db | 6.1 MB 00:00:02

Resolving Dependencies

--> Running transaction check

---> Package iscsi-initiator-utils.x86\_64 0:6.2.0.874-22.el7\_9 will be installed

--> Processing Dependency: iscsi-initiator-utils-iscsiuio >= 6.2.0.874-22.el7\_9 for package: iscsi-initiator-utils-6.2.0.874-22.el7\_9.x86\_64

--> Running transaction check

---> Package iscsi-initiator-utils-iscsiuio.x86\_64 0:6.2.0.874-22.el7\_9 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

================================================================================================================

Package Arch Version Repository Size

================================================================================================================

Installing:

iscsi-initiator-utils x86\_64 6.2.0.874-22.el7\_9 updates 423 k

Installing for dependencies:

iscsi-initiator-utils-iscsiuio x86\_64 6.2.0.874-22.el7\_9 updates 94 k

Transaction Summary

================================================================================================================

Install 1 Package (+1 Dependent package)

Total download size: 517 k

Installed size: 2.5 M

Is this ok [y/d/N]: y

Downloading packages:

warning: /var/cache/yum/x86\_64/7/updates/packages/iscsi-initiator-utils-iscsiuio-6.2.0.874-22.el7\_9.x86\_64.rpm: Header V3 RSA/SHA256 Signature, key ID f4a80eb5: NOKEY

Public key for iscsi-initiator-utils-iscsiuio-6.2.0.874-22.el7\_9.x86\_64.rpm is not installed

(1/2): iscsi-initiator-utils-iscsiuio-6.2.0.874-22.el7\_9.x86\_64.rpm | 94 kB 00:00:00

(2/2): iscsi-initiator-utils-6.2.0.874-22.el7\_9.x86\_64.rpm | 423 kB 00:00:00

----------------------------------------------------------------------------------------------------------------

Total 2.0 MB/s | 517 kB 00:00:00

Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Importing GPG key 0xF4A80EB5:

Userid : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org>"

Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5

Package : centos-release-7-9.2009.0.el7.centos.x86\_64 (@anaconda)

From : /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Is this ok [y/N]: y

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : iscsi-initiator-utils-iscsiuio-6.2.0.874-22.el7\_9.x86\_64 1/2

Installing : iscsi-initiator-utils-6.2.0.874-22.el7\_9.x86\_64 2/2

Verifying : iscsi-initiator-utils-6.2.0.874-22.el7\_9.x86\_64 1/2

Verifying : iscsi-initiator-utils-iscsiuio-6.2.0.874-22.el7\_9.x86\_64 2/2

Installed:

iscsi-initiator-utils.x86\_64 0:6.2.0.874-22.el7\_9

Dependency Installed:

iscsi-initiator-utils-iscsiuio.x86\_64 0:6.2.0.874-22.el7\_9

Complete!

**[root@client ~]# systemctl stop firewalld**

[root@client ~]# cat /etc/is

iscsi/ issue issue.net

**[root@client ~]# cat /etc/iscsi/initiatorname.iscsi**

InitiatorName=iqn.1994-05.com.redhat:bb8717736236

**[root@client ~]# iscsiadm -m discovery -t st -p 192.168.44.130**

192.168.44.130:3260,1 iqn.2023-07.cdac.acts.hpcsa.sbm:disk1

**[root@client ~]# iscsiadm -m discovery -t st -p 192.168.44.130 --login**

192.168.44.130:3260,1 iqn.2023-07.cdac.acts.hpcsa.sbm:disk1

Logging in to [iface: default, target: iqn.2023-07.cdac.acts.hpcsa.sbm:disk1, portal: 192.168.44.130,3260] (multiple)

Login to [iface: default, target: iqn.2023-07.cdac.acts.hpcsa.sbm:disk1, portal: 192.168.44.130,3260] successful.

[root@client ~]# lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 20G 0 disk

├─sda1 8:1 0 1G 0 part /boot

└─sda2 8:2 0 19G 0 part

├─centos-root 253:0 0 17G 0 lvm /

└─centos-swap 253:1 0 2G 0 lvm [SWAP]

sr0 11:0 1 973M 0 rom

[root@client ~]# lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 20G 0 disk

├─sda1 8:1 0 1G 0 part /boot

└─sda2 8:2 0 19G 0 part

├─centos-root 253:0 0 17G 0 lvm /

└─centos-swap 253:1 0 2G 0 lvm [SWAP]

sr0 11:0 1 973M 0 rom

**[root@client ~]# iscsiadm -m session**

tcp: [1] 192.168.44.130:3260,1 iqn.2023-07.cdac.acts.hpcsa.sbm:disk1 (non-flash)

**[root@client ~]# lsblk**

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 20G 0 disk

├─sda1 8:1 0 1G 0 part /boot

└─sda2 8:2 0 19G 0 part

├─centos-root 253:0 0 17G 0 lvm /

└─centos-swap 253:1 0 2G 0 lvm [SWAP]

sr0 11:0 1 973M 0 rom

**[root@client ~]# fdisk /dev/sdb**

Welcome to fdisk (util-linux 2.23.2).

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Device does not contain a recognized partition table

Building a new DOS disklabel with disk identifier 0xe36d1e36.

Command (m for help): n

Partition type:

p primary (0 primary, 0 extended, 4 free)

e extended

Select (default p): p

Partition number (1-4, default 1):

First sector (8192-2097151, default 8192):

Using default value 8192

Last sector, +sectors or +size{K,M,G} (8192-2097151, default 2097151):

Using default value 2097151

Partition 1 of type Linux and of size 1020 MiB is set

Command (m for help): w

The partition table has been altered!

Calling ioctl() to re-read partition table.

Syncing disks.

**[root@client ~]# mkfs.ext4 /dev/sdb1**

mke2fs 1.42.9 (28-Dec-2013)

Filesystem label=

OS type: Linux

Block size=4096 (log=2)

Fragment size=4096 (log=2)

Stride=0 blocks, Stripe width=1024 blocks

65280 inodes, 261120 blocks

13056 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=268435456

8 block groups

32768 blocks per group, 32768 fragments per group

8160 inodes per group

Superblock backups stored on blocks:

32768, 98304, 163840, 229376

Allocating group tables: done

Writing inode tables: done

Creating journal (4096 blocks): done

Writing superblocks and filesystem accounting information: done

**[root@client ~]# lsblk**

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 20G 0 disk

├─sda1 8:1 0 1G 0 part /boot

└─sda2 8:2 0 19G 0 part

├─centos-root 253:0 0 17G 0 lvm /

└─centos-swap 253:1 0 2G 0 lvm [SWAP]

sdb 8:16 0 1G 0 disk

└─sdb1 8:17 0 1020M 0 part

sr0 11:0 1 973M 0 rom

**[root@client ~]# mkdir /mnt/iscsi-lab**

**[root@client ~]# mount /dev/sdb1 /mnt/iscsi-lab/**

**[root@client ~]# cd /mnt/iscsi-lab/**

**[root@client iscsi-lab]# dd if=/dev/zero of=file.txt bs=1024 count=520040**

520040+0 records in

520040+0 records out

532520960 bytes (533 MB) copied, 6.71014 s, 79.4 MB/s

[root@client iscsi-lab]# df -TH

Filesystem Type Size Used Avail Use% Mounted on

devtmpfs devtmpfs 498M 0 498M 0% /dev

tmpfs tmpfs 510M 0 510M 0% /dev/shm

tmpfs tmpfs 510M 8.0M 502M 2% /run

tmpfs tmpfs 510M 0 510M 0% /sys/fs/cgroup

/dev/mapper/centos-root xfs 19G 1.6G 17G 9% /

/dev/sda1 xfs 1.1G 144M 920M 14% /boot

tmpfs tmpfs 102M 0 102M 0% /run/user/0

/dev/sdb1 ext4 1.1G 536M 431M 56% /mnt/iscsi-lab