

ravi30flash Add files via upload

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8c761ff · 12 hours ago

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Preview

Code

Blame

73 lines (61 loc) · 1.5 KB

Raw

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On iSCSI client

```
yum install iSCSI-initiator-utils -y
cd /etc/iSCSI
echo InitiatorName=iqn.2022-12.acts.student:306631cea220 > initiatorname.iSCSI
systemctl start iSCSI;systemctl status iSCSI;
```

on iSCSI server

add 3 hdd with 10 gb size

```
lsblk
pvcreate /dev/sdb /dev/sdc /dev/sdd
vgcreate vg_iSCSI /dev/sdb /dev/sdc /dev/sdd
lvcreate -n lv_iSCSI-disk-01 -L 1G vg_iSCSI
lvs
yum install targetcli -y
targetcli
cd backstores/block
create block1 /dev/mapper/vg_iSCSI-lv_iSCSI--disk--01
cd ../../iSCSI
create iqn.2022-12.cdac.acts.hpcsa.sbm:disk1
cd iqn.2022-12.cdac.acts.hpcsa.sbm:disk1/tpg1/acls
create iqn.2022-12.acts.student:306631cea220
cd ..
cd iqn.2022-12.cdac.acts.hpcsa.sbm:disk1/tpg1/luns
create /backstores/block/block1
exit
```

```
# now start the target service
systemctl start target;systemctl status target
```

```
[root@iscsi_server ~]# 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   10G  0 disk
sdc                  8:32    0   10G  0 disk
sdd                  8:48    0   10G  0 disk
sr0                 11:0    1   973M  0 rom

[root@iscsi_server ~]# pvcreate /dev/sdb /dev/sdc /dev/sdd
Physical volume "/dev/sdb" successfully created.
Physical volume "/dev/sdc" successfully created.
Physical volume "/dev/sdd" successfully created.

[root@iscsi_server ~]# vgcreate vg_iscsi /dev/sdb /dev/sdc /dev/sdd
Volume group "vg_iscsi" successfully created
[root@iscsi_server ~]# lvcreate -n lv_iscsi-disk-01 -L 1G vg_iscsi
Logical volume "lv_iscsi-disk-01" created.
[root@iscsi_server ~]# lvs
LV          VG      Attr      LSize   Pool Origin Data%  Meta%  Move Log Cpy%Sync Convert
root        centos  -wi-ao---- <17.00g
swap        centos  -wi-ao----  2.00g
lv_iscsi-disk-01 vg_iscsi -wi-a----- 1.00g
[root@iscsi_server ~]# yum install targetcli -y
Loaded plugins: fastestmirror
Determining fastest mirrors
* base: centos.mirror.net.in
* extras: centos.mirror.net.in
* updates: centos.mirror.net.in
```

```
[root@iscsi_server ~]# targetcli
Warning: Could not load preferences file /root/.targetcli/prefs.bin.
targetcli shell version 2.1.53
Copyright 2011-2013 by Datera, Inc and others.
For help on commands, type 'help'.

/> cd backstores/block
/backstores/block> create block1 /dev/mapper/vg_iscsi-lv_iscsi--disk--01
Created block storage object block1 using /dev/mapper/vg_iscsi-lv_iscsi--disk--01.
/backstores/block> cd ../../
/> cd iscsi
/iscsi> ll
/iscsi> ls
o- iscsi ..... [Targets: 0]
/iscsi> create iqn.2022-12.cdac.acts.hpcsa.sbm:disk1
Created target iqn.2022-12.cdac.acts.hpcsa.sbm:disk1.
Created TPG 1.
Global pref auto_add_default_portal=true
Created default portal listening on all IPs (0.0.0.0), port 3260.
/iscsi> ls
o- iscsi ..... [Targets: 1]
  o- iqn.2022-12.cdac.acts.hpcsa.sbm:disk1 ..... [TPGs: 1]
    o- tpg1 ..... [no-gen-acls, no-auth]
      o- acls ..... [ACLs: 0]
      o- luns ..... [LUNs: 0]
      o- portals ..... [Portals: 1]
        o- 0.0.0.0:3260 ..... [OK]
/iscsi> cd iqn.2022-12.cdac.acts.hpcsa.sbm:disk1/tpg1/acls
/iscsi/iqn.20...sk1/tpg1/acls> create iqn.2022-12.acts.student:306631cea220
Created Node ACL for iqn.2022-12.acts.student:306631cea220

/iscsi/iqn.20...sk1/tpg1/acls> cd ..
/iscsi/iqn.20...bm:disk1/tpg1> cd luns
/iscsi/iqn.20...sk1/tpg1/luns> create /backstores/block/block1
Created LUN 0.
Created LUN 0->0 mapping in node ACL iqn.2022-12.acts.student:306631cea220
/iscsi/iqn.20...sk1/tpg1/luns> exit
Global pref auto_save_on_exit=true
Configuration saved to /etc/target/saveconfig.json
[root@iscsi_server ~]# systemctl restart target;systemctl status target
● target.service - Restore LIO kernel target configuration
   Loaded: loaded (/usr/lib/systemd/system/target.service; disabled; vendor preset: disabled)
   Active: active (exited) since Sat 2023-07-15 00:54:56 IST; 5ms ago
   Process: 1366 ExecStart=/usr/bin/targetctl restore (code=exited, status=0/SUCCESS)
   Main PID: 1366 (code=exited, status=0/SUCCESS)

Jul 15 00:54:56 iscsi_server systemd[1]: Starting Restore LIO kernel target configuration...
Jul 15 00:54:56 iscsi_server systemd[1]: Started Restore LIO kernel target configuration.
```

On iSCSI client

```
# iscsiadm -m discovery -t st -p [server_ip] --login
iscsiadm -m discovery -t st -p 192.168.64.144 --login

# check if volume is mapped or not
```



```
lsblk

# use X=iscsi mount disk
fdisk /dev/sdb
    -> press n
    -> press p
    -> press enter
    -> press enter
    -> press w

# check if volume is mapped or not
fdisk -l

# create a folder to mount the iscsi disk
mkdir /mnt/disk-1

# format the disk
mkfs.xfs -f /dev/sdb

# mount the disk
mount /dev/sdb /mnt/disk-1/

# check if mounted disk is visible or not
df -Th
```

```
[root@iscsi_client iscsi]# 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
sr0                 11:0    1  973M  0 rom

[root@iscsi_client iscsi]# 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 0xfc35a123.

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@iscsi_client iscsi]# mkfs.xfs -f /dev/sdb
meta-data=/dev/sdb             isize=512    agcount=4, agsize=65536 blks
      =                       sectsz=512   attr=2, projid32bit=1
      =                       crc=1        finobt=0, sparse=0
data      =                       bsize=4096   blocks=262144, imaxpct=25
      =                       sunit=0       swidth=0 blks
naming    =version 2           bsize=4096   ascii-ci=0 ftype=1
log       =internal log       bsize=4096   blocks=2560, version=2
      =                       sectsz=512   sunit=0 blks, lazy-count=1
realtime  =none               extsz=4096   blocks=0, rtextents=0

[root@iscsi_client iscsi]# mkdir /mnt/disk-1
[root@iscsi_client iscsi]# mount /dev/sdb /mnt/disk-1/
[root@iscsi_client iscsi]# df -hT
Filesystem              Type      Size  Used Avail Use% Mounted on
devtmpfs                devtmpfs  475M   0    475M  0% /dev
tmpfs                   tmpfs     487M   0    487M  0% /dev/shm
tmpfs                   tmpfs     487M  7.6M  479M  2% /run
tmpfs                   tmpfs     487M   0    487M  0% /sys/fs/cgroup
/dev/mapper/centos-root xfs       17G   1.5G   16G   9% /
/dev/sda1               xfs     1014M  138M   877M  14% /boot
tmpfs                   tmpfs     98M    0    98M  0% /run/user/0
/dev/sdb                xfs     1014M   33M   982M  4% /mnt/disk-1

[root@iscsi_client iscsi]#
```

