Last
update:
2024/06/11
02:20

rhel7_

_iscsi_target https://atl.kr/dokuwiki/doku.php/rhel7_%EC%9D%B4%EC%83%81_%EB%B2%84%EC%A0%84%EC%97%90%EC%84%9C%EC%9D%98_iscsi_target%EA%B5%AC%EC%84%B1

RHEL7   iSCSI Target

File Backstore

```
# create a directory
[root@dlp ~]# mkdir /var/lib/iscsi_disks

# enter the admin console
[root@dlp ~]# targetcli
targetcli shell version 2.1.53
Copyright 2011-2013 by Datera, Inc and others.
For help on commands, type 'help'.

/> cd /backstores/fileio

# create a disk-image with the name [disk01] on
[/var/lib/iscsi_disks/disk01.img] with 10G
/backstores/fileio> create disk01 /var/lib/iscsi_disks/disk01.img 10G
Created fileio disk01 with size 10737418240
/backstores/fileio> cd /iscsi

# create a target
# naming rule : [ iqn.(year)-(month).(reverse of domain name):(any name you
like) ]
/iscsi> create iqn.2022-01.world.srv:dlp.target01
Created target iqn.2022-01.world.srv:dlp.target01.
Created TPG 1.
Global pref auto_add_default_portal=true
Created default portal listening on all IPs (0.0.0.0), port 3260.
/iscsi> cd iqn.2022-01.world.srv:dlp.target01/tpg1

# enable authentication
/iscsi/iqn.20...target01/tpg1> set attribute authentication=1
Parameter authentication is now '1'.
/iscsi/iqn.20...target01/tpg1> cd luns

# set LUN
/iscsi/iqn.20...t01/tpg1/luns> create /backstores/fileio/disk01
Created LUN 0.
/iscsi/iqn.20...t01/tpg1/luns> cd ../acls

# set ACL (it's the IQN of an initiator you permit to connect)
/iscsi/iqn.20...t01/tpg1/acls> create
iqn.2022-01.world.srv:node01.initiator01
Created Node ACL for iqn.2022-01.world.srv:node01.initiator01
Created mapped LUN 0.
/iscsi/iqn.20...t01/tpg1/acls> cd iqn.2022-01.world.srv:node01.initiator01
```

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```
# set UserID and Password for authentication
/iscsi/iqn.20...w.initiator01> set auth userid=username
Parameter userid is now 'username'.
/iscsi/iqn.20...w.initiator01> set auth password=password
Parameter password is now 'password'.
/iscsi/iqn.20...w.initiator01> exit
Global pref auto_save_on_exit=true
Configuration saved to /etc/target/saveconfig.json


# after configuration above, the target enters in listening like follows
[root@dlp ~]# ss -napt | grep 3260
LISTEN 0      256          0.0.0.0:3260        0.0.0.0:*


[root@dlp ~]# systemctl enable target
```

iSCSI Target_RHEL 7 Block Device Backstore

* HOST OS : CentOS Linux release 7 * GUEST OS : CentOS Linux release 7

targetcli

targetcli   targetcli

Step1. Install and run targetcli

LVM

```
[root@server1 ~]# fdisk -l | grep Disk
Disk /dev/sda: 32.2 GB, 32212254720 bytes, 62914560 sectors
Disk /dev/sdb: 53.7 GB, 53687091200 bytes, 104857600 sectors // ISCSI

Disk /dev/mapper/centos-swap: 2164 MB, 2164260864 bytes, 4227072 sectors
Disk /dev/mapper/centos-root: 29.5 GB, 29519511552 bytes, 57655296 sectors
```

```
[root@server1 ~]# vgs
  VG              #PV #LV #SN Attr   VSize     VFree
  VG_iscsi_Disk1   1   1   0 wz--n- 1020.00m    0
  VG_iscsi_Disk2   1   1   0 wz--n-   10.00g    0
  centos           1   2   0 wz--n-   29.51g    0
[root@server1 ~]# lvs
  LV             VG              Attr      LSize    Pool Origin Data%  Move
Log Cpy%Sync Convert
```

```
  lv_iscsi_Disk1 VG_iscsi_Disk1 -wi-a----- 1020.00m
  lv_iscsi_Disk2 VG_iscsi_Disk2 -wi-a-----   10.00g
  root           centos         -wi-ao----   27.49g
  swap           centos         -wi-ao----    2.02g
```

targetcli   :

```
# yum install targetcli
```

```
# targetcli --version
/usr/bin/targetcli version 2.1.fb37
```

* target service   :

```
# systemctl start target
```

targetcli

```
[root@server1 ~]# targetcli
targetcli shell version 2.1.fb37
Copyright 2011-2013 by Datera, Inc and others.
For help on commands, type 'help'.

/> ls
o- /
..........................................................................
.......................................... [...]
  o- backstores
..........................................................................
................................... [...]
  | o- block
..........................................................................
..................... [Storage Objects: 0]
  | o- fileio
..........................................................................
..................... [Storage Objects: 0]
  | o- pscsi
..........................................................................
..................... [Storage Objects: 0]
  | o- ramdisk
..........................................................................
.................... [Storage Objects: 0]
  o- iscsi
..........................................................................
.............................. [Targets: 0]
  o- loopback
..........................................................................
```

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```
............................ [Targets: 0]
/>
```

backstores

---

iSCSI

```
# Discover targets at a given IP address:
iscsiadm --mode discoverydb --type sendtargets --portal 192.168.1.10 --
discover

#Login, must use a node record id found by the discovery:
iscsiadm --mode node --targetname iqn.2001-05.com.doe:test --portal
192.168.1.1:3260 --login

#Logout:
iscsiadm --mode node --targetname iqn.2001-05.com.doe:test --portal
192.168.1.1:3260 --logout

#List node records:
iscsiadm --mode node

#Display all data for a given node record:
iscsiadm --mode node --targetname iqn.2001-05.com.doe:test --portal
192.168.1.1:3260
```