

목차

RHEL7 이상 버전에서의 iSCSI Target 구성 ..... 3

*File Backstore* 구성방법 ..... 3

*iSCSI Target\_RHEL 7 Block Device Backstore* 구성방법 ..... 4

        targetcli ..... 4

*iSCSI* 사용 ..... 6



# RHEL7 이상 버전에서의 iSCSI Target 구성

## File Backstore 구성방법

```
# 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
```

```
# 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 구성방법

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

### targetcli

targetcli 는 트리 기반의 파일 시스템과 유사한 방식으로 탐색한다 targetcli 는 커널의 대상 서스 시스템을 구성하고 저장하기 위한 쉘 스크립트 이다

#### Step1. Install and run targetcli

이 문서에서는 공유 디스크로 생성한 LVM 볼륨 구성은 작성하지 않았습니다 현재 등록되어 있는 디스크 정보들을 확인한다

```
[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 구성을
위해 신규 추가된 디스크
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 설치 및 확인 : \*\***

```
# yum install targetcli
```

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

\* target service 구동 :

```
# systemctl start target
```

**\*\* targetcli 명령어로 쉘 스크립트 실행 \*\***

```
[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
.....
```

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

**\*\* backstores 구성 \*\***

## iSCSI 사용

```
# 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
```

From:  
<https://atl.kr/dokuwiki/> - AllThatLinux!

Permanent link:  
[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](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)

Last update: 2024/06/11 02:20

