

**RHEL7**                    **iSCSI Target** ..... 3

**File Backstore** ..... 3

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

    targetcli ..... 4

**iSCSI** ..... 6



# 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

# 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
가
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
.....
..... [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
```

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