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# iSCSI

## iSCSI Target\_RHEL 6

\* HOST OS : CentOS 6.6 64bit \* GUEST OS : CentOS 6.6 64bit

### tgt-setup-lun

```
tgt-setup-lun : target          target          가          Script          .
                  iSCSI Target          .
```

#### Step.1 iSCSI Target

```
[root@iscsi ~]# yum install scsi-target-utils.x86_64 -y
```

```
[root@iscsi ~]# rpm -qa | grep scsi-target-utils
scsi-target-utils-1.0.24-16.el6.x86_64
```

#### Step.2 iSCSI Target

```
[root@iscsi ~]# service tgtd start
[root@iscsi ~]# service tgtd status
[root@iscsi ~]# chkconfig tgtd on
```

#### Step.3 iSCSI Target

```
*          LVM          . * tgt-setup-lun
```

```
[root@iscsi ~]# tgt-setup-lun -d /dev/mapper/VG_DISK1-LV_Disk1 -n
iSCSI_Target1
[root@iscsi ~]# tgt-setup-lun -d /dev/mapper/VG_DISK2-LV_Disk2 -n
iSCSI_Target2
[root@iscsi ~]# tgt-setup-lun -d /dev/mapper/VG_DISK3-LV_Disk3 -n
iSCSI_Target3
[root@iscsi ~]# tgt-setup-lun -d /dev/mapper/VG_DISK4-LV_Disk4 -n
iSCSI_Target4
```

```
*          targets.conf
```

```
[root@iscsi ~]#tgt-admin --dump | grep -v default-driver > target.conf
[root@iscsi ~]#vim target.conf
<target iqn.2001-04.com.iscsi-iSCSI_Target3> // iqn
    backing-store /dev/mapper/VG_DISK3-LV_Disk3
</target>

<target iqn.2001-04.com.iscsi-iSCSI_Target1>
    backing-store /dev/mapper/VG_DISK1-LV_Disk1
</target>

<target iqn.2001-04.com.iscsi-iSCSI_Target4>
    backing-store /dev/mapper/VG_DISK4-LV_Disk4
</target>

<target iqn.2001-04.com.iscsi-iSCSI_Target2>
    backing-store /dev/mapper/VG_DISK2-LV_Disk2
</target>

[root@iscsi ~]#
```

\* tgd

```
[root@iscsi ~]# service tgd restart
```

\* Target

```
[root@iscsi ~]# tgt-admin -s
```

```
Target 1: iqn.2015-04.com.iscsi-iSCSI_Target1
System information:
  Driver: iscsi
  State: ready
I_T nexus information:
LUN information:
  LUN: 0
    Type: controller
    SCSI ID: IET      00010000
    SCSI SN: beaf10
    Size: 0 MB, Block size: 1
    Online: Yes
    Removable media: No
    Prevent removal: No
```

```
    Readonly: No
    Backing store type: null
    Backing store path: None
    Backing store flags:
LUN: 1
    Type: disk
    SCSI ID: IET      00010001
    SCSI SN: beaf11
    Size: 32216 MB, Block size: 512
    Online: Yes
    Removable media: No
    Prevent removal: No
    Readonly: No
    Backing store type: rdwr
    Backing store path: /dev/mapper/VG_DISK1-LV_Disk1
    Backing store flags:
Account information:
ACL information:
    ALL
Target 2: iqn.2015-04.com.iscsi-iSCSI_Target2
System information:
    Driver: iscsi
    State: ready
I_T nexus information:
LUN information:
    LUN: 0
        Type: controller
        SCSI ID: IET      00020000
        SCSI SN: beaf20
        Size: 0 MB, Block size: 1
        Online: Yes
        Removable media: No
        Prevent removal: No
        Readonly: No
        Backing store type: null
        Backing store path: None
        Backing store flags:
    LUN: 1
        Type: disk
        SCSI ID: IET      00020001
        SCSI SN: beaf21
        Size: 10737 MB, Block size: 512
        Online: Yes
        Removable media: No
        Prevent removal: No
        Readonly: No
        Backing store type: rdwr
        Backing store path: /dev/mapper/VG_DISK2-LV_Disk2
        Backing store flags:
Account information:
ACL information:
```

ALL

Target 3: iqn.2015-04.com.iscsi-iSCSI\_Target3

System information:

Driver: iscsi

State: ready

I\_T nexus information:

LUN information:

LUN: 0

Type: controller

SCSI ID: IET 00030000

SCSI SN: beaf30

Size: 0 MB, Block size: 1

Online: Yes

Removable media: No

Prevent removal: No

Readonly: No

Backing store type: null

Backing store path: None

Backing store flags:

LUN: 1

Type: disk

SCSI ID: IET 00030001

SCSI SN: beaf31

Size: 5377 MB, Block size: 512

Online: Yes

Removable media: No

Prevent removal: No

Readonly: No

Backing store type: rdwr

Backing store path: /dev/mapper/VG\_DISK3-LV\_Disk3

Backing store flags:

Account information:

ACL information:

ALL

Target 4: iqn.2015-04.com.iscsi-iSCSI\_Target4

System information:

Driver: iscsi

State: ready

I\_T nexus information:

LUN information:

LUN: 0

Type: controller

SCSI ID: IET 00040000

SCSI SN: beaf40

Size: 0 MB, Block size: 1

Online: Yes

Removable media: No

Prevent removal: No

Readonly: No

Backing store type: null

Backing store path: None

```

    Backing store flags:
LUN: 1
    Type: disk
    SCSI ID: IET      00040001
    SCSI SN: beaf41
    Size: 5344 MB, Block size: 512
    Online: Yes
    Removable media: No
    Prevent removal: No
    Readonly: No
    Backing store type: rdwr
    Backing store path: /dev/mapper/VG_DISK4-LV_Disk4
    Backing store flags:
Account information:
ACL information:
    ALL

```

\* target

```

tgt-admin --delete ALL // .
tgt-admin --delete tid=4 // 4 .
tgt-admin --delete iqn.2015-04.com // iqn.2015-04.com .

```

## iSCSI Target\_RHEL 7

\* 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

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