

Centos/RHEL6 ?????

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- [centos6 配置 iscsi 存储](#)

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```
$> vi /etc/udev/rules.d/70-persistent-net.rules
...
# PCI device 0x8086:0x1076 (e1000)
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*", ATTR{address}=="00:00:00:00:00:00",
ATTR{type}=="1", KERNEL=="eth*", NAME="eth0"
...
# PCI device 0x8086:0x1076 (e1000)
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*", ATTR{address}=="00:00:00:00:00:01",
ATTR{type}=="1", KERNEL=="eth*", NAME="eth1"
...
```

centos6?? iscsi ????

????

1. 安装 软件

```
$ yum install -y scsi-target-utils libibverbs libibverbs-devel librdmacm librdmacm-devel
```

2. 检查 软件 是否 安装 成功

```
$ chkconfig tgttd on; /etc/init.d/tgttd start
$ chkconfig --list | grep tgttd
tgttd          0:off   1:off   2:on    3:on    4:on    5:on    6:off
```

1. target 创建 成功

```
$ tgtadm --lld iscsi -o new -m target --tid 1 -T iqn.test.storage

#iqn.test.storage 名称 格式 为 iqn.yyyy.mm.nnnn, 其中 yyyy 为年 mm 为月 nnnn 为序列号
```

2. target 信息 查看

```
$ tgtadm --lld iscsi -o show -m target

Target 1: iqn.test.storage
  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
Readonly: No
Backing store type: null
Backing store path: None
Backing store flags:
Account information:
ACL information:
```

3. `target` `target`

```
$ tgtadm --lld iscsi -o new -m logicalunit --tid 1 --lun 1 -b /dev/sda5
```

4. `target` `target` `target`

```
$ tgtadm --lld iscsi -o show -m target
Target 1: iqn.test.storage
  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
      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: 10619 MB, Block size: 512
      Online: Yes
      Removable media: No
```

```
Readonly: No
Backing store type: rdwr
Backing store path: /dev/sda5
Backing store flags:
Account information:
ACL information:
```

5. target `iqn.192.168.100.10`

```
$ tgtadm --lld iscsi --op bind --mode target --tid 1 --initiator-address
192.168.100.10
```

6. target `iqn.192.168.100.10`

```
$ tgtadm --lld iscsi --op new --mode account --user test --password iscsitest
```

7. `iqn.192.168.100.10` `iqn.192.168.100.10`

```
$ tgtadm --lld iscsi --op show --mode account
Account list:
test
```

8. `iqn.192.168.100.10` `iqn.192.168.100.10`

```
$ tgtadm --lld iscsi --op bind --mode account --tid 1 --user test
```

9. `iqn.192.168.100.10` `iqn.192.168.100.10`

```
$ tgtadm --lld iscsi --op show --mode target
Target 1: iqn.test.storage
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
```

```

        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: 10619 MB, Block size: 512
        Online: Yes
        Removable media: No
        Readonly: No
        Backing store type: rdwr
        Backing store path: /dev/sda5
        Backing store flags:
Account information:
        test
ACL information:
        192.168.100.10

```

10. `target` `targets` (`targets`)

```

$ mv /etc/tgt/targets.conf /etc/tgt/targets.conf_ori
$ tgt-admin --dump > /etc/tgt/targets.conf

```

11. `targets` `targets` `targets` `targets`

```

$ cat /etc/tgt/targets.conf

default-driver iscsi
<target iqn.test.storage>
    backing-store /dev/sda5
    incominguser test iscsitest
    # targets targets, 12~16 targets targets
    initiator-address 192.168.100.10
</target>

```

12. `target` `targets`

```
$ /etc/init.d/tgtd restart
Stopping SCSI target daemon: Stopping target framework daemon
[ OK ]
Starting SCSI target daemon: Starting target framework daemon
```

????? ??

1. 安装 软件包

```
$ yum install -y iscsi-initiator-utils
```

2. 启动 服务 并 设置

```
$ /etc/init.d/iscsi start
$ /etc/init.d/iscsid start
$ chkconfig iscsi on; chkconfig iscsid on;
```

3. target 配置文件 编辑 内容

```
$vi /etc/iscsi/iscsid.conf
#node.session.auth.username = username
#node.session.auth.password = password
#discovery.sendtargets.auth.username = username
#discovery.sendtargets.auth.password = password
# 4个 空格 4个 空格
```

4. iscsid 服务 重启

```
$ /etc/init.d/iscsid restart
Stopping iSCSI daemon: [ OK ]
Starting iSCSI daemon: [ OK ]
```

5. target 配置 文件

```
$ iscsiadm --mode discovery --type sendtargets --portal 192.168.10.10 (target ip)
#192.168.10.10:3260,1 iqn.test.storage (4个 空格, 2个 空格 4个 空格, 2个 空格 4个 空格)
"iscsiadm: No portals found" 4个 空格 4个 空格.
```

6. target 配置 文件

```
$ iscsiadm --mode node --targetname iqn.test.storage --portal 192.168.10.10 -l -n
node.startup -v automatic
```

7. 查看磁盘分区情况

```
$ fdisk -l
Disk /dev/sda: 21.4 GB, 21474836480 bytes
255 heads, 63 sectors/track, 2610 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes

   Device Boot      Start         End      Blocks   Id  System
/dev/sda1  *           1           13       104391   83  Linux
/dev/sda2             14          1057       8385930   83  Linux
/dev/sda3          1058          1452       3172837+   82  Linux swap / Solaris
/dev/sda4          1453          2610       9301635    5  Extended
/dev/sda5          1453          2610       9301603+   83  Linux

Disk /dev/sdb: 10.6 GB, 10618804224 bytes
64 heads, 32 sectors/track, 10126 cylinders
Units = cylinders of 2048 * 512 = 1048576 bytes

Disk /dev/sdb doesn't contain a valid partition table
```

```
# 查看 /dev/sdb 分区情况, /dev/sdb 分区情况如下。
```

8. 配置 fstab 文件

```
$ vi /etc/fstab
...
/dev/sdb1          /data              ext3              _netdev          0 0
```

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1. iscsi 配置

```
$ iscsiadm -m node -T iqn.test.storage -p 192.168.10.10 -u
```

```
Logging out of session [sid: 1, target: iqn.test.storage, portal: 192.168.10.10,3260]
```

```
Logout of [sid: 1, target: iqn.test.storage, portal: 192.168.10.10,3260] successful.
```

2. `iscsiadm` `node` `delete`

```
$ iscsiadm -m node -T iqn.test.storage -p 192.168.10.10 -o delete
```

3. `target` `iscsi` `show`

```
$ tgtadm --lld iscsi --op show --mode session --tid 1 --sid 1
```