

Centos/RHEL6 安装教程

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centos6网卡 配置网卡 名称 设置

Centos网卡 eth0 eth1 网卡 名称 设置 网卡 名称 设置 网卡 名称 设置 网卡 名称 设置

```
$> 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 安装 iscsi 服务端

安装

1. 安装软件

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

2. 检查配置并启动服务

```
$ 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 配置

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

```
#iqn.test.storage 是 iqn 的格式，格式为：iqn.##:##:##:##:##:##:##:##
```

2. target 配置查看

```
$ 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. 创建 target 的逻辑单元

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

4. 检查配置

```
$ 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 创建 成功

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

6. target 创建 失败

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

7. 查看 账户 信息

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

8. 查看 账户 绑定 信息

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

9. 查看 账户 绑定 成功

```
$ 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 的配置文件(配置文件 的 备份)

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

11. 查看 的 内容

```
$ cat /etc/tgt/targets.conf

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

12. target 的 启动

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

配置 的 启动

1. 安装 的 包

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

2. 启动 的 服务

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

3. target 的 配置 的 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 的 范围 的 范围
```

4. iscsid 的 启动

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

5. target 的 启动

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

6. target 的 启动

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

7. 查看 的 内容

```
$ 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

`dd if=/dev/sdb of=/dev/sdb1 bs=1M`, `/dev/sdb1` `dd if=/dev/sdb of=/dev/sdb1 bs=1M`.

8. `dd if=/dev/sdb of=/dev/sdb1 bs=1M`

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

`dd if=/dev/sdb of=/dev/sdb1 bs=1M`

1. `iscsi` `node` `node`

```
$ 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. `iscsi` `node` `node`

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

3. `target` `node` `node`

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