# iscsi 网络磁盘

## 环境调整

```
[root@server0 ~]# firewall-cmd --set-default-zone=trusted
success
```

```
[ root@desktop0 ~]  # firewall- cmd -- set- default- zone=trusted
success
```

#### 服务端创建新的分区

```
[root@server0 ~]# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
vda 253:0 0 10G 0 disk
Lvda1 253:1 0 10G 0 part /
vdb 253:16 0 10G 0 disk
[root@server0 ~]# fdisk /dev/vdb
欢迎使用 fdisk (util-linux 2.23.2)。
```

```
Last 扇区,+扇区 or +size{K,M,G} (2048-20971519,默认为 20971519):+3G
分区 1 已设置为 Linux 类型,大小设为 3 GiB
命令(输入 m 获取帮助):w
The partition table has been altered!
```

```
[root@server0 ~]# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
vda 253:0 0 10G 0 disk
└vda1 253:1 0 10G 0 part /
vdb 253:16 0 10G 0 disk
└vdb1 253:17 0 3G 0 part
```

#### 搭建 iscsi 网络磁盘 (服务端)

安装 targetcli 包,并运行

```
[root@server0 ~]# yum repolist
已加载插件:langpacks
```

创建后端存储

```
/> backstores/block create nsd /dev/vdb1
/> ls
o- fileio [Storage Objects: 0]
o- pscsi [Storage Objects: 0]
o- ramdisk [Storage Objects: 0]
- iscsi [Targets: 0]
 o- loopback .
                                                    [Targets: 0]
创建磁盘组的名字 ign
/> iscsi/ create iqn. 2017-12.com.example:server0
/> ls
o- backstores [...]
| o- block [Storage Objects: 1]
| o- nsd . . . . . [/dev/vdb1 (3.0GiB) write-thru deactivated]
  o- fileio [Storage Objects: 0]
o- pscsi [Storage Objects: 0]
  o- ramdisk ..... [Storage Objects: 0]
   iscsi [Targets: 1]
o- iqn. 2017- 12. com. example: server0 [TPGs: 1]
o- tpg1 [no- gen- acls, no- auth]
      o- acls [ACLs: 0]
o- luns [LUNs: 0]
o- portals [Portals: 0]
 o- loopback .....
                                                    [Targets: 0]
关联磁盘组的名字 ign 与后端存储
/> iscsi/iqn.2017-12.com.example:server0/tpg1/luns create /backstores/bl
ock/nsd
Created LUN O.
/> ls

      o- backstores
      [...]

      | o- block
      [Storage Objects: 1]

      | | o- nsd
      [/dev/vdb1 (3.0GiB) write-thru activated]

 o- acls [ACLs: 0]
o- luns [LUNs: 1]
o- lun0 [block/nsd (/dev/vdb1)]
      o- portals [Portals: 0]
                                                    [Targets: 0]
    loopback
```

设置访问控制,客户端声称的名字

## 启用端口 3260 与 IP 监听

#### 重启 target 服务

```
[root@server0 ~]# systemctl restart target
[root@server0 ~]# systemctl enable target.service
ln -s '/usr/lib/systemd/system/target.service' '/etc/systemd/system/mult
i-user.target.wants/target.service'
```

## 客户端

## 安装客户端程序软件包

```
[ root@desktop0 ~]# yum - y install iscsi-initiator-utils.i686
已加载插件:langpacks
```

修改配置文件,指明客户端声称的名字(服务端运行 targetcli,然后 ls 查看,复制 acls 下的名字)

```
[root@desktop0 ~] # vim /etc/iscsi/initiatorname.iscsi

InitiatorName=iqn.2017-12.com.example:desktop0

o- acls [ACLs: 1]
| o- iqn.2017-12.com.example:desktop0 [Mapped LUNs: 1]
```

#vim 命令补充: 在命令模式下输入大写的 C, 作用是删除该光标后的内容并且进入输入模式

发现服务端共享磁盘(打开一个终端,man iscsiadm,命令模式下大写的 G 进入到最后,从 example 复制第一条命令,修改 ip 地址)

```
[root@desktop0 ~]# iscsiadm --mode discoverydb --type sendtargets --port
al 172.25.0.11 --discover
172.25.0.11:3260,1 <u>i</u>qn.2017-12.com.example:server0
```

```
EXAMPLES

Discover targets at a given IP address:

iscsiadm -- mode discoverydb -- type sendtargets -- portal 192.168.1.10 -- discover
```

### 重启客户端服务

```
root@desktop0 ~]# lsblk
      MAJ: MIN RM SIZE RO TYPE MOUNTPOINT
NAME
vda
      253:0 0 10G 0 disk
└vda1 253: 1
              0 10G 0 part /
      253:16 0 10G 0 disk
[root@desktop0 ~]# systemctl restart iscsi
Warning: Unit file of iscsi.service changed on disk, 'systemctl daemon-r
eload' recommended.
[root@desktop0 ~]# systemctl daemon-reload
[root@desktop0 ~]# systemctl restart iscsi
[root@desktop0 ~]# lsblk
      MAJ: MIN RM SIZE RO TYPE MOUNTPOINT
NAME
sda
        8: 0
              0 3G 0 disk
              0 10G 0 disk
vda
      253: 0
└vda1 253:1
              0 10G 0 part /
vdb 253:16 0 10G 0 disk
```