

比如我有个sdb，要挂到别的设备上

```
[root@centos-160 iscsi]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda          8:0    0   30G  0 disk
├─sda1       8:1    0    1G  0 part /boot
├─sda2       8:2    0   29G  0 part
│   └─centos-root 253:0    0   27G  0 lvm  /
│       └─centos-swap 253:1    0    2G  0 lvm  [SWAP]
sdb          8:16    0   20G  0 disk
sr0         11:0    1 1024M  0 rom
```

用targetcli

```
[root@centos-160 iscsi]# targetcli
targetcli shell version 2.1.53
Copyright 2011-2013 by Datera, Inc and others.
For help on commands, type 'help'.

/> ls
o- / ..... [...]
  o- backstores ..... [Storage Objects: 0]
    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]
```

进到/backstores/block，把这个sdb加进来

```
/> cd /backstores/block
/backstores/block> create d1 /dev/sdb
Created block storage object d1 using /dev/sdb.
/backstores/block> ls
o- block ..... [Storage Objects: 1]
  o- d1 ..... [/dev/sdb (20.0GiB) write-thru deactivated]
    o- alua ..... [ALUA Groups: 1]
      o- default_tg_pt_gp ..... [ALUA state: Active/optimized]
```

然后去iscsi底下，create一个target，自动就行

```
/backstores/block> cd /iscsi
/iscsi> create
Created target iqn.2003-01.org.linux-iscsi.centos-160.x8664:sn.7a457593ef43.
Created TPG 1.
Global pref auto_add_default_portal=true
Created default portal listening on all IPs (0.0.0.0), port 3260.
/iscsi> ls
o- iscsi ..... [Targets: 1]
  o- iqn.2003-01.org.linux-iscsi.centos-160.x8664:sn.7a457593ef43 ..... [TPGs: 1]
    o- tpg1 ..... [no-gen-acls, no-auth]
      o- acls ..... [ACLs: 0]
      o- luns ..... [LUNs: 0]
      o- portals ..... [Portals: 1]
        o- 0.0.0.0:3260 ..... [OK]
```

然后进到target目录底下的luns里把刚才那个磁盘加进来

```
/iscsi> cd /iscsi/iqn.2003-01.org.linux-iscsi.centos-160.x8664:sn.7a457593ef43/tpg1/luns
/iscsi/iqn.20...f43/tpg1/luns> create /backstores/block/d1
Created LUN 0.
/iscsi/iqn.20...f43/tpg1/luns> ls
o- luns ..... [LUNs: 1]
  o- lun0 ..... [block/d1 (/dev/sdb) (default_tg_pt_gp)]
```

接下来要设置访问控制，需要上客户端上面，看一下/etc/iscsi/initiatorname.iscsi里面的name是啥，复制下来

```
localhost:/ # cat /etc/iscsi/initiatorname.iscsi
##
## /etc/iscsi/iscsi.initiatorname
##
## Default iSCSI Initiatorname.
##
## DO NOT EDIT OR REMOVE THIS FILE!
## If you remove this file, the iSCSI daemon will not start.
## If you change the InitiatorName, existing access control lists
## may reject this initiator. The InitiatorName must be unique
## for each iSCSI initiator. Do NOT duplicate iSCSI InitiatorNames.
InitiatorName=iqn.1996-04.de.suse:01:e2ed9f1bf2d9
```

然后回来，创建访问控制

```
/iscsi/iqn.20...f43/tpg1/luns> cd ../acls
/iscsi/iqn.20...f43/tpg1/acls> ls
o- acls ..... [ACLs: 0]
/iscsi/iqn.20...f43/tpg1/acls> create iqn.1996-04.de.suse:01:e2ed9f1bf2d9
Created Node ACL for iqn.1996-04.de.suse:01:e2ed9f1bf2d9
Created mapped LUN 0.
/iscsi/iqn.20...f43/tpg1/acls> ls
o- acls ..... [ACLs: 1]
  o- iqn.1996-04.de.suse:01:e2ed9f1bf2d9 ..... [Mapped LUNs: 1]
    o- mapped_lun0 ..... [lun0 block/d1 (rw)]
/iscsi/iqn.20...f43/tpg1/acls> █
```

整体看看

```
/> ls
o- / ..... [...]
  o- backstores ..... [...]
    o- block ..... [Storage Objects: 1]
      o- d1 ..... [/dev/sdb (20.0GiB) write-thru activated]
        o- alua ..... [ALUA Groups: 1]
          o- default_tg_pt_gp ..... [ALUA state: Active/optimized]
    o- fileio ..... [Storage Objects: 0]
    o- pscsi ..... [Storage Objects: 0]
    o- randisk ..... [Storage Objects: 0]
  o- iscsi ..... [Targets: 1]
    o- iqn.2003-01.org.linux-iscsi.centos-160.x8664:sn.7a457593ef43 ..... [TPGs: 1]
      o- tpg1 ..... [no-gen-acls, no-auth]
        o- acls ..... [ACLs: 1]
          o- iqn.1996-04.de.suse:01:e2ed9f1bf2d9 ..... [Mapped LUNs: 1]
            o- mapped_lun0 ..... [lun0 block/d1 (rw)]
          o- luns ..... [LUNs: 1]
            o- lun0 ..... [block/d1 (/dev/sdb) (default_tg_pt_gp)]
          o- portals ..... [Portals: 1]
            o- 0.0.0.0:3260 ..... [OK]
    o- loopback ..... [Targets: 0]
```

没问题就saveconfig，然后退出重启targetd服务

```
/> saveconfig
Configuration saved to /etc/target/saveconfig.json
/> exit
Global pref auto_save_on_exit=true
Last 10 configs saved in /etc/target/backup/.
Configuration saved to /etc/target/saveconfig.json
[root@centos-160 iscsi]# service targetd restart
Redirecting to /bin/systemctl restart targetd.service
[root@centos-160 iscsi]# █
```

然后在客户端上，扫描发现登录一条龙就可以了

```
localhost:/ # iscsiadm -m discovery -t sendtargets -p 10.130.13.160
10.130.13.160:3260,1 iqn.2003-01.org.linux-iscsi.centos-160.x8664:sn.7a457593ef43
localhost:/ # iscsiadm -m node -T iqn.2003-01.org.linux-iscsi.centos-160.x8664:sn.7a457593ef43 -p 10.130.13.160:3260 -l
Logging in to [iface: default, target: iqn.2003-01.org.linux-iscsi.centos-160.x8664:sn.7a457593ef43, portal: 10.130.13.160,3260]
Login to [iface: default, target: iqn.2003-01.org.linux-iscsi.centos-160.x8664:sn.7a457593ef43, portal: 10.130.13.160,3260] successful.
localhost:/ # lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
sda 8:0 0 30G 0 disk
├─sda1 8:1 0 1G 0 part
├─sda2 8:2 0 27G 0 part /
├─sda3 8:3 0 2G 0 part [SWAP]
sdb 8:16 0 20G 0 disk
sdc 8:32 0 20G 0 disk
sr0 11:0 1 1024M 0 rom
```

iSCSI挂载时，写入fstab的话，开机时如果iSCSI服务端异常，启动会失败，可以使用_netdev参数来防止，nfs同理。

挂载iSCSI写入时，设置vm.dirty_background_ratio可以避免大量脏页写入造成读写波动。

```
1 echo "vm.dirty_background_ratio = 0" >> /etc/sysctl.conf
2 sysctl -p
```