

FAQ

???? /dev/sda ? Local Disk ?? SAN Disk

Solution:

```
#> lsscsi
[2:0:0:0]  cd/dvd hp      DVD-ROM DTA0N  WBD0 /dev/sr0
           state=running queue_depth=1 scsi_level=6 type=5 device_blocked=0 timeout=0
[3:0:0:0]  tape  IBM     ULT3580-HH5  D2AD /dev/st0
           state=running queue_depth=32 scsi_level=7 type=1 device_blocked=0 timeout=900
[3:0:1:0]  tape  IBM     ULT3580-HH5  D2AD /dev/st1
           state=running queue_depth=32 scsi_level=7 type=1 device_blocked=0 timeout=900
[3:0:1:1]  mediumx IBM    3573-TL     C.20 -
           state=running queue_depth=32 scsi_level=6 type=8 device_blocked=0 timeout=0
[3:0:2:0]  disk  IBM     1726-4xx  FASTT  0617 /dev/sda      <=====
           state=running queue_depth=32 scsi_level=6 type=0 device_blocked=0 timeout=60
[3:0:2:31] disk  IBM     Universal Xport 0617 -
           state=running queue_depth=32 scsi_level=6 type=0 device_blocked=0 timeout=60
```

“ IBM FASTT ? IBM Storage ???? ”

???? lsscsi ????? yum install lsscsi

???? HBA Card ? port WWN

???: ? systool

```
# Install
yum install sysfsutils
#
systool -c fc_host -v
systool -c fc_transport -v
```

???? /sys/class/fc_host/{host#}/port_name

```
#> cat /sys/class/fc_host/host5/port_name  
0x2100001b32837bcd
```

???? `/proc/scsi/{adapter-type}/{host#}`

```
#> cat /proc/scsi/qla2xxx/2  
  
SCSI Device Information:  
scsi-qla0-adapter-node=5001438004253c81;  
scsi-qla0-adapter-port=5001438004253c80; <---- WWN  
scsi-qla0-target-0=50001fe1500e28fd;  
scsi-qla0-target-1=50001fe1500e28f9;  
scsi-qla0-target-2=500a09829140a66c;
```

mpathX v.s. dm-X

????? multipath??? LUN ?????? /dev/mapper/mpathX??????? pvcreate ? LUN ??? PV ?????
pvdisplay -C ?????????? /dev/dm-X????????????????? mpathX ???? dm-X?

???? `dmsetup`

```
[root@bdb3 ~]# dmsetup ls  
mpath1 (253, 4)  
rootVG-varLV (253, 1)  
rootVG-swapLV (253, 3)  
rootVG-rootLV (253, 0)  
rootVG-worktmpLV (253, 2)
```

“ mpath1 (253,4)?4 ?????? /dev/dm-4

???? `multipath`

```
[root@cdb3-b ~]# multipath -ll  
mpath1 (360a98000383035537824474d3936556a) dm-4 NETAPP,LUN <===== ☐  
[size=700G][features=3 queue_if_no_path pg_init_retries 50][hwhandler=0][rw]  
_ round-robin 0 [prio=4][active]  
_ 1:0:1:0 sdb 8:16 [active][ready]  
_ 2:0:1:0 sdd 8:48 [active][ready]
```

```
\_ round-robin 0 [prio=1][enabled]
\_ 1:0:0:0 sda      8:0  [active][ready]
\_ 2:0:0:0 sdc      8:32 [active][ready]
```

? partition ????

? mpathb ?? partition ??????????????????????

“ WARNING: Re-reading the partition table failed with error 22: Invalid argument.
The kernel still uses the old table. The new table will be used at the next reboot or after you run partprobe(8) or kpartx(8)

?????????????????? partition ????

```
partprobe /dev/mapper/mpathb
```