

RHEL: Handling SCSI disks

Article Number: 63 | Rating: Unrated | Last Updated: Sun, May 27, 2018 8:41 PM

```
# Tested on RHEL 5, 6 & 7
```

```
# Check devices currently known to the SCSI subsystem
```

```
# -----
```

```
cat /proc/scsi/scsi
```

```
Attached devices:
```

```
Host: scsi0 Channel: 00 Id: 00 Lun: 00
```

```
Vendor: VMware Model: Virtual disk Rev: 1.0
```

```
Type: Direct-Access
```

```
ANSI SCSI revision: 02
```

```
Host: scsi0 Channel: 00 Id: 01 Lun: 00
```

```
Vendor: VMware Model: Virtual disk Rev: 1.0
```

```
Type: Direct-Access
```

```
ANSI SCSI revision: 02
```

```
# NOTE: 'lsscsi' command can be used to display disks attached to  
server
```

```
# Identify a disk using 'scsi_id' command
```

```
# -----
```

```
# 'scsi_id' queries a SCSI device via the SCSI INQUIRY vital product  
data (VPD)
```

```
# page 0x80 or 0x83 and uses the resulting data to generate a value  
that is
```

unique across all SCSI devices that properly support page 0x80 or page 0x83.

It may be useful, for instance, to identify a disk shared by two nodes:

```
hostA:/#> scsi_id --page=0x83 --whitelisted --device=/dev/sdd  
36000c290d59b294f402f949a10afd541
```

```
hostB:/#> scsi_id --page=0x83 --whitelisted --device=/dev/sde  
36000c290d59b294f402f949a10afd541
```

Depending on RHEL version, parameters and command location may vary slightly.

More information about command usage:

<https://sites.google.com/site/syscookbook/rhel/rhel-scsi-identifier-show>

Add a SCSI disk to the system

On this server we have: Host=0 (**scsi0**), Channel=0, Id=[0|1] and Lun=0 For a new disk

we have to use, then, path **0.0.2.0 - SCSI(0:2)**.

Once new disk has been attached/added to server, run following command to discover it:

```
echo "0 2 0" > /sys/class/scsi_host/host0/scan
```

NOTE: We may know that **host0** is the one to be used taking a look to the contents

of /proc/scsi/scsi file. In this case all disks are attached to scsi0 (host0)

Alternatively we can run following commands in order to run a complete rescan:

```
for i in /sys/class/scsi_host/host*/scan; do echo "- - -" > $i; done
```

Check

```
cat /proc/scsi/scsi
```

Attached devices:

Host: scsi0 Channel: 00 Id: 00 Lun: 00

Vendor: VMware Model: Virtual disk Rev: 1.0

Type: Direct-Access ANSI SCSI revision: 02

Host: scsi0 Channel: 00 Id: 01 Lun: 00

Vendor: VMware Model: Virtual disk Rev: 1.0

Type: Direct-Access ANSI SCSI revision: 02

Host: scsi0 Channel: 00 Id: 02 Lun:

00 <--

Vendor: VMware Model: Virtual disk Rev: 1.0

Type: Direct-Access ANSI SCSI revision: 02

```
lvmdiskscan
```

/dev/ramdisk [16.00 MB]

/dev/root [8.00 GB]

```
/dev/ram      [      16.00 MB]
/dev/sda1     [     258.83 MB]
/dev/dm-1     [      64.00 MB]
/dev/ram2     [      16.00 MB]
/dev/sda2     [     258.86 MB]
/dev/dm-2     [       2.00 GB]
/dev/ram3     [      16.00 MB]
/dev/sda3     [     41.49 GB] LVM physical volume
/dev/dm-3     [       2.00 GB]
/dev/sdb      [     45.00 GB] LVM physical volume
[...]
/dev/sdc      [     20.00 GB] <--
4 disks
37 partitions
1 LVM physical volume whole disk
1 LVM physical volume
```

fdisk -l

```
[...]
```

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

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

```
# Remove a SCSI disk from the system
```

```
# -----  
-----
```

```
# To remove a disk from server, once it has been removed from VG,  
etc, run following command:
```

```
echo 1 > /sys/block/<sd>/device/delete
```

Check

cat /proc/scsi/scsi

Attached devices:

Host: scsi0 Channel: 00 Id: 00 Lun: 00

Vendor: VMware Model: Virtual disk Rev: 1.0

Type: Direct-Access

ANSI SCSI revision: 02

Host: scsi0 Channel: 00 Id: 01 Lun: 00

Vendor: VMware Model: Virtual disk Rev: 1.0

Type: Direct-Access

ANSI SCSI revision: 02

Posted - Sun, May 27, 2018 8:41 PM. This article has been viewed 12573 times.

Online URL: <http://kb.ictbanking.net/article.php?id=63>