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/<sdc>/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 11415 times.

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