RHEL: GPT/MBR partition tables (using disks larger than 2 TiB)

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Tested on RHEL 6 & 7

Up to now the default type of the partition table of a hard disk is MBR (msdos). This

old method presents some problems like the limitation of having a maximum of four primary

partitions but the main problem is that we can't go beyond the first 2 TiB of the disk.

Nowadays physical disks are growing in size quickly. A way of solving this problem is

To partition a disk using GPT we first have to write a GPT label to it. The way to do # it is the following:

by switching to GPT (GUID Partition Table) partitioning scheme.

parted /dev/<sde> mklabel gpt

Warning: The existing disk label on /dev/sde will be destroyed and all data on this disk will be

lost. Do you want to continue?

Yes/No? Yes

Information: You may need to update /etc/fstab.

```
# If we want to make the disk usable by LVM, first we have to
partition the disk and mark
# the new partitions with the "LVM label" so let's create a new
partition and change
# its name and flags
parted /dev/sde
  GNU Parted 3.1
  Using /dev/sde
   Welcome to GNU Parted! Type 'help' to view a list of commands.
   (parted) mkpart primary 1M 500M
   (parted) name 1 mypart
   (parted) p
   Model: ATA VBOX HARDDISK (scsi)
   Disk /dev/sde: 4295MB
   Sector size (logical/physical): 512B/512B
   Partition Table: gpt
   Disk Flags:
   Number Start
                  End
                          Size
                                File system Name
                                                      Flags
    1
          1049kB 500MB 499MB
                                              mypart
   (parted) set 1 lvm on
   (parted) p
   Model: ATA VBOX HARDDISK (scsi)
   Disk /dev/sde: 4295MB
   Sector size (logical/physical): 512B/512B
   Partition Table: gpt
   Disk Flags:
   Number Start
                  End
                          Size
                                 File system Name
                                                      Flags
    1
           1049kB 500MB
                          499MB
                                              mypart
                                                      lvm
   (parted) q
   Information: You may need to update /etc/fstab.
```

On RHEL 6, '**fdisk**' is not able to manage disk partition table anymore:

myrhel6:/root#> fdisk -l /dev/sde

WARNING: GPT (GUID Partition Table) detected on '/dev/sde'! The util fdisk doesn't support GPT. Use GNU Parted.

[...]

On RHEL 7, we get a message indicating that 'fdisk' support is in experimental phase:

myrhel7:/root#> fdisk -l /dev/sde

WARNING: fdisk GPT support is currently new, and therefore in an experimental phase. Use at your own discretion.

[...]

To switch back to MBR partition table, do the the following:

parted /dev/<sde> mklabel msdos

Warning: The existing disk label on /dev/sde will be destroyed and all data on this disk will be

lost. Do you want to continue?

Yes/No? Yes

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