## **Disk partition**

```
hitendra@hitendra-VM:-$ sudo fdisk -l
Disk /dev/loop0: 4 KlB, 4096 bytes, 8 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk /dev/loop1: 61.96 MiB, 64970752 bytes, 126896 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

```
Disk /dev/sda: 32 GiB, 34359738368 bytes, 67108864 sectors
Disk model: VMware Virtual 5
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/0 size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: 287A1A7E-B102-4231-99A9-000440F2E64B

Device Start End Sectors Size Type
/dev/sda1 2048 4095 2048 IM BIOS boot
/dev/sda2 4096 1054719 1050624 513M EFI System
/dev/sda3 1054720 67106815 66052096 31.5G Linux filesystem
```

```
hitendra@hitendra-VM:-$ sudo fdisk /dev/sda

Welcome to fdisk (util-linux 2.37.2).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

This disk is currently in use - repartitioning is probably a bad idea.
It's recommended to unount all file systems, and swapoff all swap
partitions on this disk.
```

```
Disk /dev/sda: 32 GiB, 34359738368 bytes, 67108864 sectors

Disk model: VMware Virtual S

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: gpt

Disk identifier: 287A1A7E-8102-4231-99A9-000440F2E648

Device Start End Sectors Size Type

/dev/sda1 2048 4095 2048 1M BIOS boot
/dev/sda2 4096 1054719 1850624 513M EFI System
/dev/sda3 1054720 67106815 66052096 31.5G Linux filesystem
/dev/sda4 67106816 67108830 2015 1007.5K Linux filesystem
```

```
Save & Exit

w write table to disk and exit
q quit without saving changes

Create a new label
g create a new empty GPT partition table
G create a new empty SGI (IRIX) partition table
o create a new empty SGI (IRIX) partition table
s create a new empty SUN partition table

Command (m for help): n

Partition number (4-128, default 4): 4

First sector (34-67108830, default 67106816):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (67106816-67108830, default 67108830): '+1G'
Last sector, +/-sectors or +/-size{K,M,G,T,P} (67106816-67108830, default 67108830):

Created a new partition 4 of type 'Linux filesystem' and of size 1007.5 KiB.

Command (m for help): w

The partition table has been altered.

Syncing disks.
```

```
Obsk /dev/sda: 32 GLB, 34359738368 bytes, 67108864 sectors
Disk model: VMware Virtual 5
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: 287AiA7E-B102-4231-99A9-080440F2E648

Device Start End Sectors Size Type
/dev/sda1 2048 4095 2048 1M BIOS boot
/dev/sda2 4096 1054719 1050624 513M EFI System
/dev/sda3 1054726 67108816 66052096 31.56 Linux filesystem
/dev/sda4 67108816 67108830 2015 1007.5K Linux filesystem
/dev/sda4 6706816 67108830 2015 1007.5K Linux filesystem
/dev/sda3 2048 4095 2048 1M BIOS boot
/dev/sda4 67108816 67108830 2015 1007.5K Linux filesystem
/dev/sda5 2018.3 301878888 bytes, 67108864 sectors
Disk model: VMware Virtual 5
Units: sectors of 1 * 512 e 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Disk Identifier: 287AiA7E-B102-4231-99A9-000440F2E64B

Device Start End Sectors Size Type
/dev/sda1 2048 4095 2048 1M BIOS boot
/dev/sda2 4096 1054719 1050624 513M EFI System
/dev/sda2 4096 1054719 1050624 513M EFI System
```

### **Process management**

To check running processes



To check running processes including processes running in background

#### To kill a running process

```
hitendra 4058 3907 0 16:40 ?
hitendra 4078 3907 1 16:40 ?
hitendra 4114 1633 0 16:40 ?
hitendra 4150 3907 0 16:40 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 1 -tsForBrowser -prefsLen 26410 -
hitendra 4154 3907 1 16:40 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 2 -isForBrowser -prefsLen 31789 -
root 4359 2 0 16:40 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 2 -isForBrowser -prefsLen 31789 -
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 3 -isForBrowser -prefsLen 28823 -
hitendra 4550 3907 0 16:40 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 4 -tsForBrowser -prefsLen 28823 -
hitendra 4558 3907 0 16:41 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 4 -tsForBrowser -prefsLen 28823 -
hitendra 4558 3907 0 16:41 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 28823 -
root 4690 2 0 16:43 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 28823 -
root 4690 2 0 16:43 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 28823 -
root 4690 2 0 16:43 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 28823 -
root 4690 2 0 16:43 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 28823 -
root 4690 2 0 16:43 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 28823 -
oot 4690 2 0 16:43 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 28823 -
oot 4690 2 0 16:43 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 28823 -
oot 4690 2 0 16:43 ?
oo:00:00 /snap/firefox/2559/usr/lib/firefox/firefox -contentproc -childID 5 -isForBrowser -prefsLen 2823 -
```

# AWK commands

```
httendra@httendra-VM:-/HttendraS awk '{print}' employee.txt

Hitendra Mhatre 26 trainee
Rayan Khan 28 Sentor_Engineer
Rashmi Patil 32 Manager

httendra@httendra-VM:-/HttendraS awk '{ print $1,$3}' employee.txt

Hitendra 26
Rayan 28
Rashmi 32

httendra@httendra-VM:-/HttendraS awk '{ if ($2=="Khan") print}' employee.txt

Rayan Khan 28 Sentor_Engineer

hitendra@httendra-VM:-/HitendraS awk '{ sum += $3} END { print sum }' employee.txt

86

httendra@httendra-VM:-/HitendraS awk '{ sum += $3} END { print sum/NR }' employee.txt

28.6667

httendra@httendra-VM:-/HitendraS awk ' END { print NR }' employee.txt

3

httendra@httendra-VM:-/HitendraS awk ' { if (length > max) {max=length; longest=$0}}END { print longest}' employee.txt

Rayan Khan 28 Sentor_Engineer

httendra@httendra-VM:-/HitendraS awk ' { if (length > max) {max=length; longest=$0}}END { print longest}' employee.txt
```

## Tar commands

```
hitendra@hitendra-VM:-/HitendraS cd ..
hitendra@hitendra-VM:-S tar -cvf Hitendra.tar Hitendra
Hitendra/
Hitendra/Linux.txt
Hitendra/Sfile.txt
Hitendra/employee.txt
Hitendra/employee.txt
Hitendra/employee.txt
Hitendra/employee.txt
Hitendra/employee.txt
Hitendra/Hitendra-VM:-S tar -xvf Hitendra.tar
Hitendra/
Hitendra/Linux.txt
Hitendra/Linux.txt
Hitendra/employee.txt
Hitendra/employee.txt
Hitendra/employee.txt
Hitendra/employee.txt
hitendra@hitendra-VM:-S tar -jcvf HItendra.tar.bz2 Hitendra.tar
Hitendra@hitendra-VM:-S
hitendra@hitendra-VM:-S
```