

Identify the current USB devices

Count how many CPUs (cores) on your device

```
mariam@ubuntu22:~$ lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 002: ID 80ee:0021 VirtualBox USB Tablet
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
mariam@ubuntu22:~$ nproc
1
```

Take a snapshot of current disk statistics 5 times with 2 seconds interval

```
mariam@ubuntu22:~$ iostat -d 2 5
Linux 5.19.0-32-generic (ubuntu22)      04/01/2023      _x86_64_      (1 CPU)

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
loop0              0.02         0.03         0.00         0.00         17          0          0
loop1              0.07         0.57         0.00         0.00        350          0          0
loop10             0.07         0.56         0.00         0.00        348          0          0
loop11             0.03         0.09         0.00         0.00         53          0          0
loop12             1.12        38.96         0.00         0.00       24030          0          0
loop13             0.05         0.34         0.00         0.00        209          0          0
loop14             0.02         0.02         0.00         0.00         14          0          0
loop2              0.60         7.44         0.00         0.00       4588          0          0
loop3              0.10         1.76         0.00         0.00       1083          0          0
loop4              0.11         1.83         0.00         0.00       1129          0          0
loop5              0.09         1.74         0.00         0.00       1071          0          0
loop6              1.80        19.61         0.00         0.00      12096          0          0
loop7              0.96        10.15         0.00         0.00       6260          0          0
loop8              0.07         0.57         0.00         0.00        349          0          0
loop9              0.08         0.59         0.00         0.00        362          0          0
sda                86.16       1480.05       400.73         0.00     912809      247149          0
sr0                0.07         0.25         0.00         0.00        152          0          0

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
loop0              0.00         0.00         0.00         0.00          0          0          0
loop1              0.00         0.00         0.00         0.00          0          0          0
loop10             0.00         0.00         0.00         0.00          0          0          0
loop11             0.00         0.00         0.00         0.00          0          0          0
loop12             0.00         0.00         0.00         0.00          0          0          0
loop13             0.00         0.00         0.00         0.00          0          0          0
loop14             0.00         0.00         0.00         0.00          0          0          0
loop2              0.00         0.00         0.00         0.00          0          0          0
loop3              0.00         0.00         0.00         0.00          0          0          0
loop4              0.00         0.00         0.00         0.00          0          0          0
loop5              0.00         0.00         0.00         0.00          0          0          0
```

measure the network activities using

```
mariam@ubuntu22:~$ nicstat -z -t -n -i enp0s3
14:10:32  InKB  OutKB  InSeg  OutSeg  Reset  AttF %ReTX  InConn  OutCon  Drops
TCP       0.00   0.00   38.08   31.00   0.01   0.00 0.000   0.00   0.04   0.00
mariam@ubuntu22:~$
```

List current PCI devices on your device

```
marlam@ubuntu22:~$ lspci
00:00.0 Host bridge: Intel Corporation 440FX - 82441FX PMC [Natoma] (rev 02)
00:01.0 ISA bridge: Intel Corporation 823715B PIIX3 ISA [Natoma/Triton II]
00:01.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:02.0 VGA compatible controller: VMware SVGA II Adapter
00:03.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controller (rev 02)
00:04.0 System peripheral: InnoTek Systemberatung GmbH VirtualBox Guest Service
00:05.0 Multimedia audio controller: Intel Corporation 82801AA AC'97 Audio Controller (rev 01)
00:06.0 USB controller: Apple Inc. KeyLargo/Intrepid USB
00:07.0 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:0b.0 USB controller: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [AHCI mode] (rev 02)
marlam@ubuntu22:~$
```

List all files which are compressed by ZIP utilities

```
marlam@ubuntu22:~$ sudo find / -name '*.zip'
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
/home/mariam/Downloads/javascript-labs-lab9.zip
/usr/share/libreoffice/share/config/images_yaru_mate.zip
/usr/share/libreoffice/share/config/images_elementary.zip
/usr/share/libreoffice/share/config/images_breeze_dark_svg.zip
/usr/share/libreoffice/share/config/images_breeze.zip
/usr/share/libreoffice/share/config/images_yaru_svg.zip
/usr/share/libreoffice/share/config/images_yaru_mate_svg.zip
/usr/share/libreoffice/share/config/images_helping.zip
/usr/share/libreoffice/share/config/images_yaru.zip
/usr/share/libreoffice/share/config/images_breeze_dark.zip
/usr/share/libreoffice/share/config/images_breeze_svg.zip
/usr/share/libreoffice/share/config/images_colibre.zip
/usr/share/libreoffice/share/config/images_elementary_svg.zip
/usr/lib/libreoffice/share/config/images_yaru_mate.zip
/usr/lib/libreoffice/share/config/images_elementary.zip
/usr/lib/libreoffice/share/config/images_breeze_dark_svg.zip
/usr/lib/libreoffice/share/config/images_breeze.zip
/usr/lib/libreoffice/share/config/images_yaru_svg.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/round-white.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/elementary.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/simple.zip
/usr/lib/libreoffice/share/config/wizard/web/buttons/sukapura.zip
/usr/lib/libreoffice/share/config/images_yaru_mate_svg.zip
/usr/lib/libreoffice/share/config/images_helping.zip
/usr/lib/libreoffice/share/config/images_yaru.zip
/usr/lib/libreoffice/share/config/images_breeze_dark.zip
/usr/lib/libreoffice/share/config/images_breeze_svg.zip
/usr/lib/libreoffice/share/config/images_colibre.zip
/usr/lib/libreoffice/share/config/images_elementary_svg.zip
```

Using grep and regex list all lines containing hex numbers on a /var/log/syslog

```
marlam@ubuntu22:~$ sudo grep "[0-9A-Z]" /var/log/syslog
Apr 11 13:54:16 ubuntu22 kernel: [ 33.653859] audit: type=1326 audit(1680350056.027:51): auid=1000 uid=1000 gid=1000 ses=4 subj=snap.snapd-desktop-integration
.snapd-desktop-integration pid=2204 comm="snapd-desktop-i" exe="/snap/snapd-desktop-integration/49/usr/bin/snapd-desktop-integration" sig=0 arch=c000003e syscal
l=314 compat=0 ip=0x7f120f33573d code=0x500000
marlam@ubuntu22:~$
```