

# Lab 2

## 1. Identify the current USB devices

```
hager@ubuntu22: ~  
hager@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  
hager@ubuntu22:~$
```

2. Count how many CPUs (cores) on your device.
3. statistics 5 times with 2 seconds interval.

```
hager@ubuntu22:~$ nproc  
1  
hager@ubuntu22:~$ iostat -d 2 5  
Linux 5.15.0-60-generic (ubuntu22)      04/01/2023      _x86_64_      (1 CPU)  
Device      tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn  
rtn    kB_dscd  
loop0      0.03      0.03      0.00      0.00      17  
0  
loop1      0.09      0.67      0.00      0.00      362  
0  
loop10     0.08      0.64      0.00      0.00      349  
0  
loop11     0.09      0.67      0.00      0.00      362  
0  
loop12     0.08      0.64      0.00      0.00      348  
0  
loop13     1.24     43.54      0.00      0.00     23659  
0  
loop14     0.04      0.10      0.00      0.00      54
```

## 4. measure the network activities

```
hager@ubuntu22:~$ nicstat -z -t -n -t enp0s3  
USAGE: nicstat [-hvnsxpztualMU] [-i int[,int...]]  
      [-S int:mbps[,int:mbps...]] [interval [count]]  
  
-h          # help  
-v          # show version (1.95)  
-i interface # track interface only  
-n          # show non-local interfaces only (exclude lo0)  
-s          # summary output  
-x          # extended output  
-p          # parseable output  
-z          # skip zero value lines  
-t          # show TCP statistics  
-u          # show UDP statistics  
-a          # equivalent to "-x -u -t"  
-l          # list interface(s)  
-M          # output in Mbits/sec  
-U          # separate %rUtil and %wUtil  
-S int:mbps[fd|hd] # tell nicstat the interface  
                  # speed (Mbits/sec) and duplex
```

## 5. List current PCI devices on your device

```
hager@ubuntu22:~$ lspci
00:00.0 Host bridge: Intel Corporation 440FX - 82441FX PMC [Natoma] (rev 02)
00:01.0 ISA bridge: Intel Corporation 82371SB 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)
hager@ubuntu22:~$
```

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## 6. List all files which are compressed by ZIP utilities

```
hager@ubuntu22:~$ sudo find / -name '*.zip'
/home/hager/Downloads/javascript-labs-lab9.zip
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
/usr/share/libreoffice/share/config/images_breeze_dark.zip
/usr/share/libreoffice/share/config/images_breeze.zip
/usr/share/libreoffice/share/config/images_breeze_dark_svg.zip
/usr/share/libreoffice/share/config/images_breeze_svg.zip
/usr/share/libreoffice/share/config/images_yaru_svg.zip
/usr/share/libreoffice/share/config/images_elementary_svg.zip
/usr/share/libreoffice/share/config/images_colibre.zip
/usr/share/libreoffice/share/config/images_elementary.zip
/usr/share/libreoffice/share/config/images_yaru_mate.zip
/usr/share/libreoffice/share/config/images_yaru.zip
/usr/share/libreoffice/share/config/images_yaru_mate_svg.zip
/usr/share/libreoffice/share/config/images_helpimg.zip
/usr/lib/libreoffice/share/config/images_breeze_dark.zip
/usr/lib/libreoffice/share/config/images_breeze.zip
/usr/lib/libreoffice/share/config/images_breeze_dark_svg.zip
/usr/lib/libreoffice/share/config/images_breeze_svg.zip
```

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

```
hager@ubuntu22:~$ sudo grep -e "0x" /var/log/syslog
Apr  1 14:08:35 ubuntu22 kernel: [ 61.501740] audit: type=1326 audit(1680350915.396:52): auid=1000 uid=1000 gid=1000 ses=3 subj=snap.snapd-desktop-integration.snapd-desktop-integration pid=2057 comm="snapd-desktop-i" exe="/snap/snapd-desktop-integration/57/usr/bin/snapd-desktop-integration" sig=0 arch=c000003e syscall=314 compat=0 ip=0x7f1450165a3d code=0x50000
hager@ubuntu22:~$
```