

- Identify the current USB devices (hint: `lsusb`)

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ lsusb
```

- Count how many CPUs (cores) on your device. (hint: `/proc/cpuinfo`)

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ cat /proc/cpuinfo | grep processor
processor       : 0
processor       : 1
processor       : 2
processor       : 3
```

- Take a snapshot of current disk statistics 5 times with 2 seconds interval. (hint: `iostat`)

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ iostat 2 5
Linux 5.19.0-38-generic (mahmoud-Virtual-Machine)      01 2023, أبريل      _x86_64_      (4 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           3.69    0.57    2.50   39.80    0.00   53.44

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
```

- measure the network activities using (hint: `nicstat`)

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ nicstat 1 5
Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs    %Util    Sat
10:25:34   lo     0.04     0.04     0.42     0.42    103.9   103.9    0.00    0.00
10:25:34  eth0   139.1    1.96    100.2    22.13   1421.3   90.71    0.88    0.00
Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs    %Util    Sat
10:25:35   lo     0.00     0.00     0.00     0.00     0.00     0.00    0.00    0.00
10:25:35  eth0   0.00     0.00     0.00     0.00     0.00     0.00    0.00    0.00
Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs    %Util    Sat
10:25:36   lo     0.00     0.00     0.00     0.00     0.00     0.00    0.00    0.00
10:25:36  eth0   0.00     0.00     0.00     0.00     0.00     0.00    0.00    0.00
Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs    %Util    Sat
10:25:37   lo     0.00     0.00     0.00     0.00     0.00     0.00    0.00    0.00
10:25:37  eth0   0.00     0.00     0.00     0.00     0.00     0.00    0.00    0.00
Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs    %Util    Sat
10:25:38   lo     0.00     0.00     0.00     0.00     0.00     0.00    0.00    0.00
10:25:38  eth0   0.00     0.00     0.00     0.00     0.00     0.00    0.00    0.00
```

- List current PCI devices on your device (hint: `lspci`)

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ lspci
00:00.0 Host bridge: Intel Corporation 440BX/ZX/DX - 82443BX/ZX/DX Host bridge (AGP disabled) (rev 03)
00:07.0 ISA bridge: Intel Corporation 82371AB/EB/MB PIIX4 ISA (rev 01)
00:07.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:07.3 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 02)
00:08.0 VGA compatible controller: Microsoft Corporation Hyper-V virtual VGA
mahmoud@mahmoud-Virtual-Machine:~/Desktop$
```

- List all files which are compressed by ZIP utilities

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ ls | grep ".zip"
iti-0.zip
mahmoud@mahmoud-Virtual-Machine:~/Desktop$
```

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

```
mahmoud@mahmoud-Virtual-Machine:~/Desktop$ cat /var/log/syslog | grep "hex"
```