

Admin2

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

```
sara@sara-VirtualBox:~$ lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 017: ID 80ee:0021 VirtualBox USB Tablet
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
sara@sara-VirtualBox:~$
```

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

```
sara@sara-VirtualBox:~$ cat /proc/cpuinfo | grep processor
processor       : 0
sara@sara-VirtualBox:~$ cat /proc/cpuinfo | grep processor | wc -l
1
```

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

```
Processing triggers for dmcc (2.1.0-2) ...
sara@sara-VirtualBox:~$ iostat 2 5
Linux 5.15.0-58-generic (sara-VirtualBox)      02 2023 أبر  _x86_64_ (
1 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           5.40    2.19    2.36    0.72    0.00   89.34

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn
dm-0              0.01         0.08         0.40         3.18      6517      2796
loop0             0.00         0.00         0.00         0.00         21
loop1             0.02         0.14         0.00         0.00      10947
loop10            0.00         0.01         0.00         0.00         437
loop11            0.01         0.05         0.00         0.00         3815
loop12            0.13         2.88         0.00         0.00     233193
loop13            0.08         4.20         0.00         0.00     340614
loop14            0.00         0.05         0.00         0.00         3819
loop15            0.00         0.06         0.00         0.00         4784
```

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

```
sara@sara-VirtualBox:~$ netstat 1 5
  Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs %Util    Sat
15:55:00    lo     0.07     0.07     0.10     0.10    707.9    707.9  0.00     0.00
15:55:00  enp0s3    32.94     0.62    23.42    10.18   1440.5    62.39  0.03     0.00
  Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs %Util    Sat
15:55:01    lo     0.00     0.00     0.00     0.00     0.00     0.00  0.00     0.00
15:55:01  enp0s3   757.1    11.12   533.2    189.7   1454.0    60.00  0.62     0.00
  Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs %Util    Sat
15:55:02    lo     0.00     0.00     0.00     0.00     0.00     0.00  0.00     0.00
15:55:02  enp0s3   255.7     4.69    180.1    80.04   1454.0    60.00  0.21     0.00
  Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs %Util    Sat
15:55:03    lo     0.00     0.00     0.00     0.00     0.00     0.00  0.00     0.00
15:55:03  enp0s3   624.5    11.24   439.8    191.9   1454.0    60.00  0.51     0.00
  Time      Int    rKB/s    wKB/s    rPk/s    wPk/s    rAvs    wAvs %Util    Sat
15:55:04    lo     0.00     0.00     0.00     0.00     0.00     0.00  0.00     0.00
15:55:04  enp0s3   712.9    12.95   502.1    221.0   1454.0    60.00  0.58     0.00
sara@sara-VirtualBox:~$
```

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

```
sara@sara-VirtualBox:~$ 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 Control
ler (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 Cont
roller (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) U
SB2 EHCI Controller
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Con
troller [AHCI mode] (rev 02)
sara@sara-VirtualBox:~$
```

- List all files which are compressed by ZIP utilities

`ls | grep ".zip"`

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

```
sara@sara-VirtualBox:~$ grep -e "0x" /var/log/syslog
Apr  2 15:56:19 sara-VirtualBox kernel: [9186415753.761780] audit: type=1326 au
dit(1680443779.115:285): auid=1000 uid=1000 gid=1000 ses=2 subj=snap.snapd-desk
top-integration.snapd-desktop-integration pid=256992 comm="snapd-desktop-i" exe
="/snap/snapd-desktop-integration/57/usr/bin/snapd-desktop-integration" sig=0 a
rch=c000003e syscall=314 compat=0 ip=0x7efdfc91a3d code=0x50000
sara@sara-VirtualBox:~$
```