System Admin Lab2

• Identify the current USB devices (hint.:lsusb)

```
omarwalid@omarwalid-VirtualBox:~$ 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
• Count how many CPUs (cores) on your device. (hint: /proc/cpuinfo)
omarwalid@omarwalid-VirtualBox:~$ cat /proc/cpuinfo | grep processor | wc -l
2
```

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

```
omarwalid@omarwalid-VirtualBox:~$ iostat 2 5
أبر. Linux 5.19.0-38-generic (omarwalid-VirtualBox) 01 2023
                                                                 _x86_64_
2 CPU)
                  %nice %system %iowait %steal
                                                   %idle
avg-cpu:
          %user
                                                   59.61
Device
                   tps
                          kB_read/s
                                        kB wrtn/s
                                                     kB dscd/s
                                                                  kB read
                                                                              kB
        kB dscd
wrtn
loop11
loop12
```

measure the network activities using (hint: nicstat)

```
omarwalid@omarwalid-VirtualBox:~$ nicstat
     Time
                     rKB/s
                             wKB/s
                                      rPk/s
                                              wPk/s
                                                                              Sat
               Int
                                                       rAvs
                                                                wAvs %Util
                                               1.99
 14:25:34
                lo
                      0.21
                              0.21
                                       1.99
                                                      109.8
                                                               109.8
                                                                      0.00
                                                                             0.00
            enp0s3
                                                                             0.00
14:25:34
                     76.66
                               1.98
                                      58.18
                                              23.36
                                                     1349.2
                                                               86.74
                                                                      0.06
• List current PCI devices on your device (hint: lspci)
omarwalid@omarwalid-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
```

• List all files which are compressed by ZIP utilities

```
omarwalid@omarwalid-VirtualBox:~/Labs/Lab1$ ls | grep ".zip"
iti-0.zip
```

Using grep and regex list all lines containing hex numbers on a /var/log/syslog
 omarwalid@omarwalid-VirtualBox:~/Labs/Lab1\$ grep -e "0x" /var/log/syslog
 Mar 28 12:59:30 omarwalid-VirtualBox NetworkManager[654]: <info> [1680001170.9
 969] manager[0x55cd8c0bd030]: rfkill: Wi-Fi hardware radio set enabled
 Mar 28 12:59:30 omarwalid-VirtualBox NetworkManager[654]: <info> [1680001170.9
 969] manager[0x55cd8c0bd030]: rfkill: WWAN hardware radio set enabled
 Mar 28 12:59:39 omarwalid-VirtualBox kernel: [15.425977] audit: type=1326 audit(1680001179.552:60): auid=1000 uid=1000 gid=1000 ses=2 subj=snap.snapd-desktop-integration.snapd-desktop-integration pid=1641 comm="snapd-desktop-i" exe="/snap/snapd-desktop-integration/49/usr/bin/snapd-desktop-integration" sig=0 arch=c000003e syscall=314 compat=0 ip=0x7fc6ccb9f73d code=0x50000