System Admin II: Lab 2

• Identify the current USB devices

```
maysara@Linux-Ubuntu:~$ 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
maysara@Linux-Ubuntu:~$
```

Count how many CPUs (cores) on your device

```
maysara@Linux-Ubuntu:~$ cat /proc/cpuinfo | grep processor |wc -l
1
maysara@Linux-Ubuntu:~$
```

• Take a snapshot of current disk statistics 5 times with 2s intervals

```
| Equation | Section | Se
```

Measure the network activities

```
maysara@Linux-Ubuntu:~$ nicstat
             Int
                   rKB/s
                                   rPk/s
                                           wPk/s
   Time
                           wKB/s
                                                    rAvs
                                                            wAvs %Util
                                                                          Sat
16:41:20
              lo
                    0.36
                            0.36
                                   4.19
                                            4.19
                                                   87.06
                                                           87.06 0.00
                                                                         0.00
          enp0s3
                                            6.09
16:41:20
                    3.10
                            0.86
                                    4.70
                                                   676.2
                                                           144.5 0.00
                                                                         0.00
maysara@Linux-Ubuntu:~$
```

• List current PCI devices on your device

```
maysara@Linux-Ubuntu:~$ 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 Controll
00:04.0 System peripheral: InnoTek Systemberatung GmbH VirtualBox Guest Service
00:05.0 Multimedia audio controller: Intel Corporation 82801AA AC'97 Audio Contr
oller (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) US
B2 EHCI Controller
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Cont
roller [AHCI mode] (rev 02)
maysara@Linux-Ubuntu:~$
```

• List all files which are compressed by zip utilities

```
maysara@Linux-Ubuntu:~$ ls *.zip
ls: cannot access '*.zip': No such file or directory
maysara@Linux-Ubuntu:~$ touch file.zip
maysara@Linux-Ubuntu:~$ ls *.zip
file.zip
maysara@Linux-Ubuntu:~$
```

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

```
maysara@Linux-Ubuntu:~$ grep -e "0x" /var/log/syslog
grep: /var/log/syslog: Permission denied
maysara@Linux-Ubuntu:~$ sudo grep -e "0x" /var/log/syslog
[sudo] password for maysara:
Apr 9 23:55:02 Linux-Ubuntu kernel: [ 27.707896] audit: type=1326 audit(1681077302.399:51): auid=1000 uid=100
0 gid=1000 ses=3 subj=snap.snapd-desktop-integration.snapd-desktop-integration pid=1676 comm="snapd-desktop-i" e
xe="/snap/snapd-desktop-integration/49/usr/bin/snapd-desktop-integration" sig=0 arch=c0000003e syscall=314 compat
=0 ip=0x7fa3a3e3c73d code=0x50000
Apr 9 23:55:05 Linux-Ubuntu kernel: [ 30.364104] audit: type=1326 audit(1681077305.055:52): auid=1000 uid=100
0 gid=1000 ses=3 subj=snap.snap-store.snap-store pid=1904 comm="snap-store" exe="/snap/snap/snap-store/638/usr/bin/snap-store" sig=0 arch=c000003e syscall=314 compat=0 ip=0x7ff498f8b73d code=0x50000
```