

Lab Assessment 1

ID: 1118005

```
vboxuser@ubuntu:~/Desktop$ pwd
/home/vboxuser/Desktop
vboxuser@ubuntu:~/Desktop$ ls -l
total 4
-rw-rw-r-- 1 vboxuser vboxuser    0 Dec  7 03:36 backup.c
drwxrwxr-x 2 vboxuser vboxuser 4096 Dec  7 03:54 lab1
vboxuser@ubuntu:~/Desktop$ mkdir Lab1
vboxuser@ubuntu:~/Desktop$ cd Lab1
vboxuser@ubuntu:~/Desktop/Lab1$ touch Test.c
vboxuser@ubuntu:~/Desktop/Lab1$ cp Test.c backup.c
vboxuser@ubuntu:~/Desktop/Lab1$ mv backup.c ../
vboxuser@ubuntu:~/Desktop/Lab1$ rm Test.c
vboxuser@ubuntu:~/Desktop/Lab1$ rmdir Lab1
rmdir: failed to remove 'Lab1': No such file or directory
vboxuser@ubuntu:~/Desktop/Lab1$ man ls
vboxuser@ubuntu:~/Desktop/Lab1$ ls -a
. ..
vboxuser@ubuntu:~/Desktop/Lab1$ tree
Command 'tree' not found, but can be installed with:
sudo snap install tree # version 2.1.3+pkg-5852, or
sudo apt install tree # version 2.1.1-2ubuntu3.24.04.2
See 'snap info tree' for additional versions.
vboxuser@ubuntu:~/Desktop/Lab1$ find . -name '*.c'
find: unknown predicate '-name*.c'
vboxuser@ubuntu:~/Desktop/Lab1$ cat>sample.txt
learning linux commands
^C
vboxuser@ubuntu:~/Desktop/Lab1$ head -5 sample.txt
learning linux commands
vboxuser@ubuntu:~/Desktop/Lab1$ tail -5 sample.txt
learning linux commands
vboxuser@ubuntu:~/Desktop/Lab1$ date
Sun Dec  7 07:14:30 AM UTC 2025
vboxuser@ubuntu:~/Desktop/Lab1$ whoami
vboxuser

vboxuser@ubuntu:~/Desktop/Lab1$ ps
  PID TTY      TIME CMD
 7225 pts/0    00:00:00 bash
 8346 pts/0    00:00:00 ps
vboxuser@ubuntu:~/Desktop/Lab1$ top

top - 07:14:44 up 20 min,  1 user,  load average: 0.18, 0.23, 0.29
Tasks: 235 total,   1 running, 234 sleeping,   0 stopped,   0 zombie
%Cpu(s):  1.7 us,  5.1 sy,  0.0 ni, 88.1 id,  5.1 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  7941.8 total,   6065.1 free,   1237.2 used,    906.0 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.   6704.6 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
8347	vboxuser	20	0	14536	5604	3404	R	15.4	0.1	0:00.04	top
1247	root	20	0	295788	3864	3332	S	7.7	0.0	0:00.91	VBoxSer+
1	root	20	0	23216	14172	9420	S	0.0	0.2	0:10.08	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.21	kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pool_wo+
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker+
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker+
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker+
7	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker+
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker+
11	root	0	-20	0	0	0	I	0.0	0.0	0:00.15	kworker+
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00	kworker+
13	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker+
14	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tas+
15	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tas+
16	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tas+
17	root	20	0	0	0	0	S	0.0	0.0	0:00.30	ksoftirq+
vboxuser@ubuntu:~/Desktop/Lab1\$ kill<pid>											
bash: syntax error near unexpected token `newline'											
vboxuser@ubuntu:~/Desktop/Lab1\$ uptime											
07:15:07 up 20 min, 1 user, load average: 0.27, 0.25, 0.29											

```
vboxuser@ubuntu:~/Desktop/Lab1$ lscpu
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:         39 bits physical, 48 bits virtual
Byte Order:            Little Endian
CPU(s):                4
On-line CPU(s) list:  0-3
Vendor ID:             GenuineIntel
Model name:            13th Gen Intel(R) Core(TM) i7-13620H
CPU family:            6
Model:                 186
Thread(s) per core:   1
Core(s) per socket:   4
Socket(s):            1
Stepping:              2
BogoMIPS:              5836.79
Flags:                 fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pg
e mca cmov pat pse36 clflush mmx fxsr sse sse2 ht s
yscall nx rdtscp lm constant_tsc rep_good nopl xtop
ology nonstop_tsc cpuid tsc_known_freq pni pclmulqd
q ssse3 fma cx16 pcid sse4_1 sse4_2 movbe popcnt ae
s xsave avx f16c rdrand hypervisor lahf_lm abm 3dno
wprefetch ibrs_enhanced fsgsbbase bmi1 avx2 bmi2 inv
pcid rdseed adx clflushopt sha_ni arat md_clear flu
sh_l1d arch_capabilities

Virtualization features:
Hypervisor vendor:    KVM
Virtualization type:  full
Caches (sum of all):
L1d:                  192 KiB (4 instances)
L1i:                  128 KiB (4 instances)
L2:                   5 MiB (4 instances)
L3:                   96 MiB (4 instances)
```

```
NUMA:  
  NUMA node(s):          1  
  NUMA node0 CPU(s):    0-3  
Vulnerabilities:  
  Gather data sampling:  Not affected  
  Ghostwrite:           Not affected  
  Indirect target selection: Mitigation; Aligned branch/return thunks  
  Itlb multihit:        Not affected  
  L1tf:                 Not affected  
  Mds:                  Not affected  
  Meltdown:             Not affected  
  Mmio stale data:     Not affected  
  Reg file data sampling: Mitigation; Clear Register File  
  Retbleed:              Mitigation; Enhanced IBRS  
  Spec rstack overflow: Not affected  
  Spec store bypass:   Vulnerable  
  Spectre v1:            Mitigation; usercopy/swaps barriers and __user pointer sanitization  
  Spectre v2:            Mitigation; Enhanced / Automatic IBRS; PBRSB-eIBRS  
  Srbds:                Not affected  
  Tsa:                  Not affected  
  Tsx async abort:     Not affected  
  Vmscape:              Not affected  
vboxuser@ubuntu:~/Desktop/Lab1$ uname -a  
Linux ubuntu 6.14.0-36-generic #36~24.04.1-Ubuntu SMP PREEMPT_DYNAMIC Wed Oct 15 15:45:17 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
```

```
vboxuser@ubuntu:~/Desktop/Lab1$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
tmpfs          795M  1.5M  793M  1% /run  
/dev/sda2       26G  7.0G  18G  29% /  
tmpfs          3.9G   0  3.9G  0% /dev/shm  
tmpfs          5.0M  8.0K  5.0M  1% /run/lock  
tmpfs          795M 128K  795M  1% /run/user/1000  
/dev/sr0        6.0G  6.0G   0 100% /media/vboxuser/Ubuntu 24.04.3 LTS amd64  
vboxuser@ubuntu:~/Desktop/Lab1$ du -sh*  
du: invalid option -- '*'  
Try 'du --help' for more information.  
vboxuser@ubuntu:~/Desktop/Lab1$ du -sh *  
4.0K  sample.txt  
vboxuser@ubuntu:~/Desktop/Lab1$ free -m  
              total        used        free      shared  buff/cache   available  
Mem:          7941       1239       6043         34       925       6702  
Swap:            0          0          0
```