

Lab Assessment 1

ID: 1118005

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vboxuser@ubuntu: ~/Desktop/Lab1
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	ksoftir+

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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

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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 fsgsbase bmi1 avx2 bmi2 inv
                        pcid rdseed adx clflushopt sha_ni arat md_clear flu
                        sh_lld 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)

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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/swapgs barriers and __user pointer sanitization
  Spectre v2:            Mitigation; Enhanced / Automatic IBRS; PBRSE-eIBRS
                          SW sequence; BHI SW loop, KVM SW loop
  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 2 x
86_64 x86_64 x86_64 GNU/Linux

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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

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