

Assignment 01

What is the command to determine the kernel version of your OS? Please write the command and its output.

```
ubuntu@primary:~$ uname -v
#63-Ubuntu SMP Thu Nov 24 13:48:31 UTC 2022
```

What is the command to determine the current user logged in? Please write the command and its output.

```
ubuntu@primary:~$ whoami
ubuntu
```

What is the Linux command or commands to list all user accounts on a Linux system? ONLY user account names should be shown!

```
ubuntu@primary:~$ cut -d: -f1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
messagebus
systemd-timesync
syslog
_apt
tss
uidd
tcpdump
sshd
pollinate
landscape
fwupd-refresh
ubuntu
lxd
```

Using your answer from the previous question, what would be the command or commands to show the the list of users as a comma separated list.

i. You may need to use the | (pipe command) to link two commands together.

What is the command or commands that will show you the last 15 lines of the /var/log/kern.log file? Please write the commands and copy the output.

- a. If your system does not have a kern.log, simply print which ever file in your system stores system logs.
- b. Note, WSL2 may not have a kern.log file at all.

```

ubuntu@primary:~$ head -15 /var/log/kern.log
Feb  9 04:43:15 primary kernel: [    0.000000] Booting Linux on physical CPU
0x0000000000 [0x410fd083]
Feb  9 04:43:15 primary kernel: [    0.000000] Linux version 5.15.0-57-generic
(buildd@bos02-arm64-057) (gcc (Ubuntu 11.3.0-1ubuntu1~22.04) 11.3.0, GNU ld (GNU
Binutils for Ubuntu) 2.38) #63-Ubuntu SMP Thu Nov 24 13:48:31 UTC 2022 (Ubuntu
5.15.0-57.63-generic 5.15.74)
Feb  9 04:43:15 primary kernel: [    0.000000] efi: EFI v2.70 by EDK II
Feb  9 04:43:15 primary kernel: [    0.000000] efi: SMBIOS 3.0=0x7f700000
MEMATTR=0x7cf05698 ACPI 2.0=0x7bf70018 MOKvar=0x7ceef000 MEMRESERVE=0x7c371118
Feb  9 04:43:15 primary kernel: [    0.000000] secureboot: Secure boot disabled
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: Early table checksum
verification disabled
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: RSDP 0x000000007BF70018 000024
(v02 BOCHS )
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: XSDT 0x000000007BF7FE98 000064
(v01 BOCHS BXPC 00000001 01000013)
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: FACP 0x000000007BF7FA98 00010C
(v05 BOCHS BXPC 00000001 BXPC 00000001)
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: DSDT 0x000000007BF77518 00141A
(v02 BOCHS BXPC 00000001 BXPC 00000001)
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: APIC 0x000000007BF7FC18 0000A8
(v03 BOCHS BXPC 00000001 BXPC 00000001)
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: PPTT 0x000000007BF7FD18 000060
(v02 BOCHS BXPC 00000001 BXPC 00000001)
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: GTDT 0x000000007BF7D898 000060
(v02 BOCHS BXPC 00000001 BXPC 00000001)
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: MCFG 0x000000007BF7FE18 00003C
(v01 BOCHS BXPC 00000001 BXPC 00000001)
Feb  9 04:43:15 primary kernel: [    0.000000] ACPI: SPCR 0x000000007BF7FF98 000050
(v02 BOCHS BXPC 00000001 BXPC 00000001)

```

What is the command or commands that will show you all the login attempts for your username? Please write the commands and copy the output.

Using the dmesg command, show only the messages relating to warnings and errors. Also ensure the output is using a human readable time format. To verify that only error and warning messages are being show what option of dmesg would you use? Show both commands that were used.

What command would you use to display free disk space? List the command and its output.

What is the command or commands that would list the contents of the /var/log directory in alphanumeric order? List the command and its output.

What is the command or commands that would list all the empty files or folders in your user's home directory?

What is the command or commands used to list the files in /var/log in order of their size? List the command and its output.

What is the command or commands used to list the top 10 file who use the most disk space? What is this command(s) and show its output?

What is the command that will show you the last 15 commands you have typed? List the command and its output.

What is the difference between the commands less and more?