

# Assignment-3

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- Q: Distinguish between man and whatis commands? Justify with proper example.

A: The 'man' command displays a complete manual page for a command, including usage, options, and examples. The 'whatis' command shows only a one-line summary. For example: 'man ls' gives detailed documentation, while 'whatis ls' shows a short description.

- Q: Use the tee command to save the output of ls -l into a file while also displaying it.

A: Command: `ls -l | tee output.txt`. This command lists files in detail, saves the output into output.txt, and displays it on screen at the same time.

- Q: Explain with an example how the tee command can be used in logging.

A: The tee command can log outputs while still showing them. For example: `'ping -c 5 google.com | tee pinglog.txt'` will display ping results on screen and save them into pinglog.txt for future reference.

- Q: List the steps involved in installing Ubuntu 25.04 LTS on Oracle VirtualBox.

A: Steps: 1) Download Ubuntu ISO. 2) Install Oracle VirtualBox. 3) Create a new VM, assign memory and disk size. 4) Attach ISO as virtual CD. 5) Start VM and follow Ubuntu installer. 6) Complete installation and reboot.

- Q: During Ubuntu OS installation, you face a Kernel Panic Error. How would you troubleshoot it?

A: Possible fixes: Check ISO integrity (use checksum), allocate sufficient RAM, disable secure boot, enable virtualization in BIOS, or try a different VirtualBox version.

- Q: Write the command to display the system's hostname? How to change hostname using sysctl command?

A: To display hostname: `hostname`. To change using sysctl: `sudo sysctl kernel.hostname=newname`

- Q: Which command is used to show the calendar of the year 1984 with August month?

A: Command: cal 8 1984

- Q: Write a command to display system uptime and logged-in users together.

A: Command: w. It shows system uptime and current logged-in users.

- Q: Use the find command to list all ".c" files in /home/user.

A: Command: find /home/user -name "\*.c"

- Q: How do you change file permissions to allow only the owner to read and write?

A: Command: chmod 600 filename. This gives read and write permission only to the owner.

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