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Notes Lab 3

Answers to the following questions:

• What is a graphical user interface (GUI)?:

A graphical user interface is a set of programs that allows a user to interact with the computer system cia icons, windows and various other visual elements.

• What is a desktop environment?:

A desktop environment is an implementation of the desktop metaphor made of a bundle of programs running on top of a computer operating system, which shares a common GUI, sometimes described as a graphical shell.

What is the command line interface (CLI)?:

It is the way how the user interacts with the computer by inputting commands.

• How do I access the command line interface (CLI)?:

There are two ways to access the CLI:

- * Terminal Emulator
- * Linux Console

• What is a virtual console?:

A virtual console is a terminal session that runs in Linux system memory.

• What is a terminal emulator?:

A terminal emulator is a program allows you to access the Linux CLI when using the GUI.

Some terminal emulators are:

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GNOME Terminal (included in Ubuntu), Konsole, Terminology, RXVT-Unicode, TILIX, Kitty
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· What is bash?:

The GNU bash shell is a program that provides interactive access to the Linux system. It runs as a regular program and is started whenever a user logs in.

Other shells:

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Tcsh shell, Csh shell, Ksh shell, Zsh shell, Fish shell
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• What is the shell prompt?:

A shell prompt is a command line represented by username@machinename.

Example:

Terminal: username@machinename: ~\$ bash --version

Definition, usage, and examples of the following commands:

- clear: Clears the terminal window/screen.
- echo: Prints/displays text to the screen.
- date: Displays current date and time (can be used for other tasks as well. See man page)
- free: Displays the amount of RAM/Memory used and free.
- uname: Shows basic information about your system such as: kernel, OS, architecture, etc...
- history:Display a history of every command you run so far.
- man: Shows/displays the manual page for a given command.
- tldr: Similar to cheat but it is available via APT and keeps a local cache.
- cheat: A collection of cheat sheets.
- **hostname**: Shows the system's hostname (computer name).
- df:DIsplays the amount of disk space available/used on entire file systems/partitions.
- du: Displays the amount of space used by specific files or directories.
- figlet: Displays text in large ASCII letters.