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Semester: Fall 22 Course: cis106

Week Report 3

a. Exploring Desktop Environments

- Different desktop environments
 - GNOME
 - KDE
 - BUDGIE
 - PANTHEON
 - Fluxbox
- **GUI**: (graphical user interface) a set of programs that allows a user to interact with the computer system by using icons, windows, and other visual elements.
- **DE**: (Desktop environment) an implementation of the desktop metaphor made of a bundle of programs running on top of a computer operating system. Shares a common GUI called graphical shell.
- Elements of a Desktop Environment:
 - Desktop Settings
 - Display Manager
 - File Manager
 - Icons
 - Favorites Bar
 - Launcher
 - Menus
 - Panels
 - System tray
 - Widgets
 - Window Manager

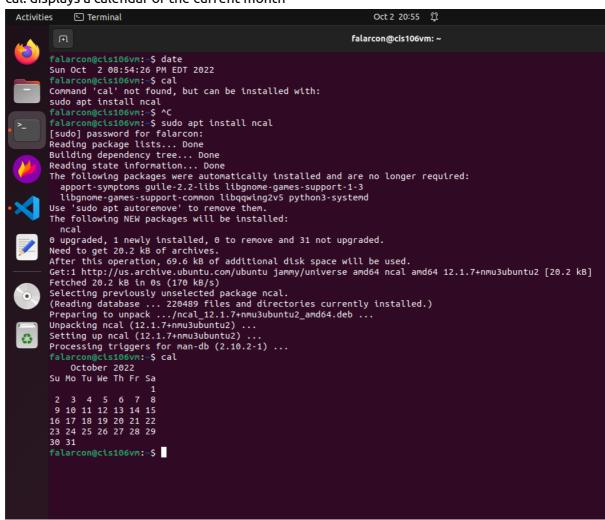
b. The bash Shell

- What is a shell?
 - a program that provides interactive access to the linux system. Runs as a regular program and starts whenever a user logs into a terminal.
- Different shells:
 - Tcsh Shell

- Csh Shell
- Ksh Shell
- Zsh Shell
- Fish Shell

· Bash shortcuts

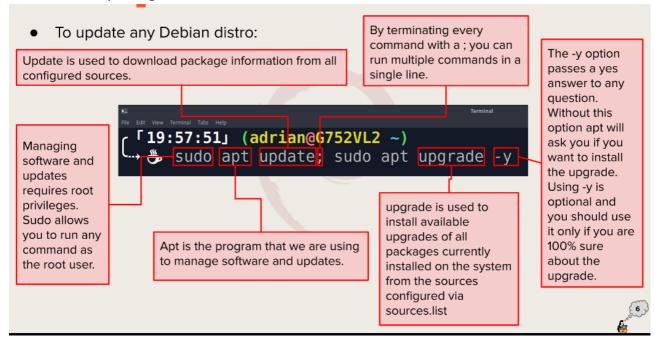
- Ctrl + A (go to start of the command line)
- Ctrl + E (go to end of the command line)
- Ctrl + K (delete the cursor to the end of the command line)
- Ctrl + U (delete from cursor to the start of the command line)
- Ctrl + W (delete from cursor to the start of word)
- Basic commands and their usage:
 - o date: displays the current data and time
 - cal: displays a calendar of the current month



- o df: displays the current amount of free spae on our disk drives
- free: displays the amount of free memory
- uname:displays information about your system
- o clear: clears the screen

c. Managing Software

· Command for updating ubuntu



Command for installing software



· Command for removing software

Remove several programs in a single command sudo apt remove firefox flameshot caffeine -y

• Command for searching for software

How to search for software with Apt

Search for all programs that matches the text in quotes

apt search "web browser"

Search for information about a given package including dependencies.

apt-cache search firefox

Search a package name only.

apt search -n firefox

- Apt works using the list of repositories in the /etc/apt/sources.list
- You can add more repositories (or remove them) using the command sudo apt edit-sources
- **Edit-sources** opens the **sources.list** file using your default text editor. If more than one CLI text editor is available, edit-sources allows you to choose.



• Definitions

• Package: archives that contain binaries of software, configuration files, and information about dependencies.

- Library: reusable code that can be used by more than one function or program.
- Repository: a large collection of software available for download.