

Week 3 Report

Exploring Desktop Environments

- Different Desktop Environments
 - GNOME
 - KDE
 - XFCE
 - MATE
 - BUDGIE
 - LXDE
- GUI - Graphical User Interface which allows the user to interact with the computer system via icons, windows, and other visual elements.
- DE - 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.
- Common elements of a desktop environment
 - Desktop Settings
 - Display Manager
 - File Manager
 - Icons
 - Favorites Bar
 - Launcher
 - Menus
 - Panels
 - System Tray
 - Widgets
 - Windows Manager

The Bash Shell

- What is a shell?
 - A shell is a program that provides access to the Linux system.
 - Some different shells are:
 - Tcsh Shell
 - Csh Shell
 - Ksh Shell
 - Zsh Shell
 - Fish Shell
- Bash Shortcuts:

- Ctrl + A = go to the start of the command line
 - Ctrl + E = go to the end of the command line
 - Ctrl + K = delete from 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
- Bash Commands:
 - date - displays current time and date
 - cal - displays a calendar of the current month
 - df - displays the current amount of free space on our disk drives
 - free - displays the amount of free memory
 - uname - displays information about your system

Managing Software

- Command for updating ubuntu: `sudo apt update`; `sudo apt upgrade -y`
- Command for installing software: `sudo apt install "package name"`
- Command for removing software: `sudo apt remove "package name"`
- Command for searching for software: `apt search`
- 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

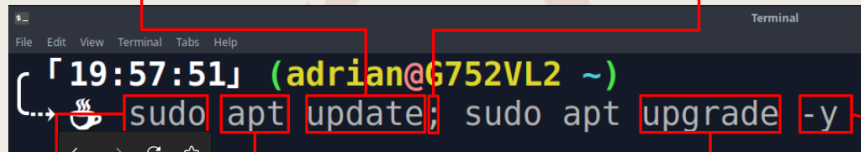
I Go it! Apt is cool ... but how do I use it?

- To update any Debian distro:

Update is used to download package information from all configured sources.

By terminating every command with a ; you can run multiple commands in a single line.

Managing software and updates requires root privileges. Sudo allows you to run any command as the root user.



```
19:57:51 (adrian@G752VL2 ~)
sudo apt update; sudo apt upgrade -y
```

Apt is the program that we are using to manage software and updates.

upgrade is used to install available upgrades of all packages currently installed on the system from the sources configured via sources.list

The -y option passes a yes answer to any question. Without this option apt will ask you if you want to install the upgrade. Using -y is optional and you should use it only if you are 100% sure about the upgrade.

