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Week Report 3

Summary of presentations:

Introduction of Linux

- **What is an operating system?** An operating system provides all fundamental software features of computer. OS enables you to use the computer's hardware providing you to the basic tools that make computer useful.

- **Aside from a kernel, what other parts make an operating system?** Process management, I/O Device management, File management, Network Management, Main memory management.

- **What is a Linux distribution?** Linux distribution is a complete Linux system package.

- **What is Ubuntu?** Ubuntu is a Linux distribution, freely available with both community and professional support.

- **Define the following terms: Open Source, Closed source, free software** Open Source: any program hose source code is made available for use or modification as users or other developers see fit.
closed Source:is a software whose author owns all rights to use, modify and copy it. Free Software: software that respects users freedom and community. it means that the users have the freedom to run, copy, distribute, study, change and improve the software.

- **What are the 4 freedoms defined by the free software foundation?** using, studying, sharing and modifying.

The basic of Virtualization

- **What is virtualization?** A virtualization is creating virtual versions of somthing.

- **List 3 benefits of virtualization**

    - Allows running multiple OSs on one machine without dual booting.
    - Reduces costs.
    - Allows application to be tested before installing them on a host machine.

- **What is a hypervisor?** Soft ware or Hardware in charge of creating, managing, and running virtual machines.

- **What is virtualbox?** Is a powerful x86 and AMD64/Intel64 virtualization product for enterprise as well as home use.

Exploring Desktop Environment

- **What is a desktop environment? (Provide 3 examples)** A desktop environment is an implementation of the desktop metaphor made of bundle of programs running on top of a computer

OS. For example

- Gxnome
- Cinnamon
- Openbox

- **List 4 common elements of desktop environments**

  - icons
  - toolbars
  - folders and wallpapers
  - 4Desktop widgets.

- **What is Ubuntu's default desktop environments?** The default desktop in Ubuntu is GNOME 3.

- **What are the official flavors of Ubuntu?** Ubuntu GNOME, Kubuntu, Lubuntu, Ubuntu Budgie, Ubunt Mate, Xbuntu, Edubuntu and Mythbuntu.

What is Shell

- **What is Bash?** The GNU bash shell is a program that provids interactive access to the Linux system.

- **How do you access the Linux CLI?** There are two ways to access the CLI * Terminal Emulator * Linux Console

- **What is a console terminal?** A command-line interface is a means of interacting with a computer program where the user issues commands to the program in the form of successive lines of text.

- **What is a terminal emulator?** A terminal emulator is a program that allows you to access the Linux CLI.

- **Provide 3 examples of Linux commands**

  - sudo apt install
  - sudo apt remove
  - sudo apt upgrade

Managing software

- **Which command is used for updating ubuntu** sudo apt update firefox

- **Which command is used for installing software. Provide an example.** sudo apt install firefox

- **Which command is used for removing software. Provide an example.** sudo apt remove firfox

- **Which command is used for searching for software. Provide an example.** apt-cache showpkg firefox

- **Definition of the following terms:**

- 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 availabe for download.