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Week Report 3

Summary of presentations

Introduction to linux

- What is an operating system?

  > An operating system provides all the fundamental software features of a computer.

- Aside from a kernel, what other parts make an operating system?

  > Command-Line Shells, Graphical User Interfaces, Utility/Productivity Programs and Libraries

- What is a Linux distribution?

  > An os that runs on the linux kernel, uses core unix tools, supplemental software, startup scripts and installers

- What is Ubuntu?

  > Ubuntu is a free and popular linux distribution

- Define the following terms:

  > Open Source - development method to use the power of peer review and transparency of the process. Promising better quality, reliability, flexibility and lower cost.

  > Closed source - Only authorized people or organizations can access the source code

  > Free software - Software that does not need to be

- What are the 4 freedoms defined by the free software foundation?

  > use the software for any purpose

  > examine the source code and modify it as you see fit

  > redistribute the software

  > redistribute your modified software

The basics of Virtualization

- What is virtualization?

  > Defined as creating Virtual versions of something; often used to run multiple OS's on one physical machine

- List 3 benefits of virtualization

> allows running multiple OS's on one machine without dual booting

> Allows applications to be tested before installing them on a host machine

> Can be used to keep legacy applications sandboxed and running past their end of life

- What is a hypervisor?

- > Software or hardware in charge of creating, managing and running Virtual Machines.

- What is virtualbox

> Open source software that allows you to easily use virtualization and run virtual machines for commercial and private use

Exploring Desktop Environments

- What is a desktop environment? (Provide 3 examples)

  > Gui

  > DE

  > Gnome

- List 4 common elements of desktop environments

  > File manager

  > Icons

  > Favorites Bar

  > Launcher

- What is Ubuntu's default desktop environments?

> GNOME 3

- What are the official flavors of Ubuntu?

> Debian, Fedora, Red Hat, Enterprise Linux, and Oracle Linux

What is Shell?

- How do you access the Linux CLI?

> Using a terminal emulator or the Linux console

- What is a console terminal?

> A computer that is out of graphical mode and is in terminal mode meaning you only give commands

- What is a terminal emulator?

> Gnome terminal or Tilix, allows you to access the command line the modern way

- Provide 3 examples of Linux commands

> !!

> !blah

> !$

Managing Software

- Which command is used for updating ubuntu

> sudo apt update; sudo apt upgrade -y

- Which command is used for installing software. Provide an example.

> sudo apt install "application name"

- Which command is used for removing software. Provide an example.

> sudo apt remove "application name"

- Which command is used for searching for software. Provide an example.

> sudo apt search "video player"

- 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 available for download