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Week Report 3

Summary of Presentations

Introduction to Linux

What is an operating system?

A program in charge of providing fundamental software features of a computer.

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

Command-line shells, graphical user interfaces, utility and productivity programs, and libraries.

What is a Linux distribution?

Any operating system that runs the Linux kernel.

What is Ubuntu?

Ubuntu is one of the Linux distributions available.

Define the following terms: Open Source, Closed source, free software

- Open source: software that can either have a price or be free of charge. Source code is included.
- Closed source: Source code is not shared. Can either be freeware (free of charge) or shareware (trial-based).
- Free software: software and source code are provided free of charge.

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

- Freedom 0: use the software for any purpose
- Freedom 1: examine the source code and modify it as you see fit
- Freedom 2: redistribute the software
- Freedom 3: redistribute your modified software

The Basics of Virtualization

What is virtualization?

The act of creating virtual versions of something.

List 3 benefits of virtualization

- 1. Allows running multiple OSs on one machine without the need of dual booting.
- 2. Allows applications to be tested before installing them on a host machine.
- 3. Reduces costs by decreasing the physical hardware that must be purchased for a network

What is a hypervisor?

Software (or hardware) in charge of creating, managing, and running virtual machines.

What is virtualbox

Software that allows for proper virtualization for enterprise and home use.

Exploring Desktop Environments

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What is a desktop environment? (Provide 3 examples)

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. Examples include: GNOME, KDE, and XFCE

List 4 common elements of desktop environments

- 1. Desktop Settings
- 2. Display Manager
- 3. File Manager
- 4. Icons

What is Ubuntu's default desktop environments?

Ubuntu's default DE is GNOME 3

What are the official flavors of Ubuntu?

Edubuntu, Kubuntu, Lubuntu, Ubuntu Budgie, Ubuntu Cinnamon, Ubuntu Kylin, Ubuntu MATE, Ubuntu Studio, Ubuntu Unity, and Xubuntu.

What is a Shell?

What is Bash?

A program that provides interactive access to the Linux system.

How do you access the Linux CLI?

- 1. Terminal Emulator
- 2. Linux Console

What is a console terminal?

A terminal session that runs in the Linux system memory.

What is a terminal emulator?

A program that allows you to access the Linux CLI.

Provide 3 examples of Linux commands

- 1. date: current time and date
- 2. cal: calendar of current month
- 3. df: amount of free space on disk drives
- 4. free: amount of free memory

Managing Software

Which command is used for updating ubuntu

sudo apt update -y

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

sudo apt install screenfetch

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

sudo apt remove screenfetch

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

apt search "web browser"

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.