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Weekly Report 3

Introduction to Linux Summary

- Question 1: What is an operating system? *Answer:* Provides all fundamental software features of a computer. OS enables you to use the computer's hardware providing you the basic tools that make the computer useful.
- Question 2: Aside from a kernel, what other parts make an operating system? *Answer:* Other components such as device drivers, system libraries, and graphical user interfaces make the operating system.
- Question 3: What is a Linux distribution? *Answer:* A linux Distribution is a operating system that runs the linux kernel.
- Question 4: What is Ubuntu? *Answer:* ubuntu is a linux distribution thats freely available with both community and professional support.
- Question 5: Define the following terms: Open Source, Closed source, free software *Answer:* Open source - software may be distributed for a fee or free. Source code is distributed with the software.
- Question 6: What are the 4 freedoms defined by the free software foundation? *Answer:* Freedom 1: use the software for any purpose freedom 2: examine the source code and modify as you see fit. freedom 3: redistribute the software freedom 4: redistribute your modified software.

The basics of Virtualization

- Question 1: What is virtualization? *Answer:* Virtualization is defined as creating virtual versions of something.
- Question 2: List 3 benefits of virtualization *Answer:* 1.) allows running multiple OS on one machine. 2.) allows applications to be tested before installing them on a host machine. 3.) allows coded for one type of hardware or operating system to work on another thats not designed to work on.
- Question 3: What is a hypervisor? *Answer:* software or hardware in charge or creating, managing, and running virtual machines.
- Question 4: What is virtualbox *Answer:* virtualbox - a powerful virtualization product for enterprise as well as home use.

Exploring Desktop Environments

- Question 1: What is a desktop environment? (Provide 3 examples) *Answer:* desktop environments involve the manipulation of graphical user interface, uses a graphical shell, and changes the OS appearance.

- Question 2: List 4 common elements of desktop environments *Answer:* changes include the following when applying a desktop environment: 1.) launcher 2.) menus 3.) icons 4.) desktop settings
- Question 3: What is Ubuntu's default desktop environments? *Answer:* panels, widgets, and system trays.
- Question 4: What are the official flavors of Ubuntu? *Answer:* edubuntu, kubuntu, lubuntu, etc.

What is a Shell?

- Question 1: What is Bash? *Answer:* program that provides interactive access to the linux system.
- Question 2: How do you access the Linux CLI? *Answer:* search bar < "terminal emulator"
- Question 3: What is a console terminal? *Answer:* console terminal - text input and output environment.
- Question 4: What is a terminal emulator? *Answer:* terminal emulator - program that allows you to access the linux CLI.
- Question 5: Provide 3 examples of Linux commands *Answer:* !! - runs last command date - displays the current time and date cal - displays a calendar of the month

Managing Software

- Question 1: Which command is used for updating ubuntu *Answer:*
- Question 2: Which command is used for installing software. Provide an example. *Answer:* "sudo apt update"
- Question 3: Which command is used for removing software. Provide an example. *Answer:* "sudo apt remove 'package name here'"
- Question 4: Which command is used for searching for software. Provide an example. *Answer:* "sudo apt search 'software name here'"
- Question 5: define package, library, and repository. *Answer:* 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 program or function.

repository - large collection of software available for download.