

Week Report 3

Summary of presentations

Introduction to Linux

What is an operating system? An operating system provides all fundamental software features of a computer.

Aside from a kernel, what other parts make an operating system? Aside from a kernel, Command-Line Shells, Graphical User Interfaces, Utility and Productivity Programs and Libraries are parts that make an operating system.

What is a Linux distribution? Is a complete Linux system package such as Linux Kernel or core unix tools are what is called linux distribution

What is Ubuntu? Ubuntu is a Linux distribution

Define the following terms: Open Source- The software may be distributed for a fee or free. The source code is distributed with the software. Closed source- The software is not distributed with the source code. The user is restricted from modifying the code free software- The software is distributed with the source code. It's distributed for a fee or free.

What are the 4 freedoms defined by the free software foundation? Freedom 0- Use the software freedom. 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? Virtualization is defined as creating virtual versions of something.

List 3 benefits of virtualization

Allows running multiple OSs on one machine without dual booting. Allows application to be tested before installing them on a host machine. It reduces cost

What is a hypervisor? Hypervisor is a software or hardware in charge of creating, managing and running virtual machines.

What is virtualbox VirtualBox is a powerful x86 and AMD64/Intel64 virtualization product for enterprise as well as home use.

Exploring Desktop Environments

What is a desktop environment? (Provide 3 examples)

Desktop environment is graphical user interface (GUI) that runs on top of an operating system (OS), providing users with a more visually intuitive way to interact with the system. Gnome, KDE and XFCE are 3 examples of desktop environment.

List 4 common elements of desktop environments Desktop setting ,Display Manager,File Manager and Icons are common elements of desktop environments.

What is Ubuntu's default desktop environments? Ubuntu's default desktop environment is GNOME 3.

What are the official flavors of Ubuntu? The official flavors of Ubuntu is Xubuntu,Ubuntu Mate.

What is a Shell?

What is Bash? It is a command language interpreter.

How do you access the Linux CLI? There are two ways to access the CLI, the first way is through terminal emulator and second way is through Linux Console.

What is a console terminal? A way for users to enter commands to perform various tasks and receive text-based output from the system.

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 The 3 examples of Linux commands are date,cal,df.

Managing Software

Which command is used for updating ubuntu? sudo apt update is used for updating all packages in the system.

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

sudo apt install command is used for installing software and an example would be sudo apt install Firefox web browser.

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

sudo apt remove is a command for removing software and an example would be sudo apt remove firefox web browser

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

apt search is used for searching for software and an example would be apt search -n firefox 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.