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Week Report 3

Summary of Presentations

Introduction to Linux

What is an operating system? The software that supports a computer's basic functions, such as scheduling tasks, executing applications, and controlling peripherals. Aside from a kernel, what other parts make an operating system? device drivers, system libraries, and utilities. What is a Linux distribution? An operating system that uses the Linux Kernel What is Ubuntu? The open source operating system on Linux Define the following terms: Open Source, Closed source, free software Open Source - any program whose source code is made available for use or modification as users or other developers see fit Closed Source - intellectual property, esp computer source code, that is not made available to the general public by its creators. Free Software - software that is typically proprietary and is offered at no cost to users. Its legal use is dictated by the license under which a piece of freeware is released. What are the 4 freedoms defined by the free software foundation? to run, copy, distribute, study, change and improve the software.

The basics of Virtualization

What is virtualization? the hardware resources of a single computer to be divided into multiple virtual computers, called virtual machines (VMs). List 3 benefits of virtualization Reduced upfront hardware and continuing operating costs. Minimized or eliminated downtime. Increased IT productivity and responsiveness. What is a hypervisor? a program used to run and manage one or more virtual machines on a computer. 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) Gnome, KDE, XFCE List 4 common elements of desktop environments icons, toolbars, wallpapers, and desktop widgets What is Ubuntu's default desktop environments? Ubuntu's GNOME desktop environment is the default What are the official flavors of Ubuntu? Ubuntu GNOME, Kubuntu, Lubuntu, Ubuntu Budgie, Ubuntu Kylin, Ubuntu MATE, Ubuntu Studio, Xubuntu, Edubuntu, and Mythbuntu

What is a Shell?

What is Bash? to automate software development tasks such as code compilation, debugging source code, change management and software testing. How do you access the Linux CLI? CTRL-Alt-T What is a console terminal? a wrapper program that runs a shell and allows us to enter commands What is a terminal emulator? a computer program that emulates a video terminal within some other display architecture Provide 3 examples of Linux commands pwd, cat, cp

Managing Software

Which command is used for updating ubuntu sudo apt-get update Which command is used for installing software. Provide an example. sudo apt-get install vim installs a package/software to use on Linux Which

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command is used for removing software. Provide an example. sudo apt-get remove vim deletes a package/software on Linux Which command is used for searching for software. Provide an example find /path -type f -iname vim finds the directory that vim is installed on

Definitions

Package - a compressed software archive file containing all the files included with a software application that provides any functionality. **Library -** collections of data and functions written to be reused by other programmers or programs **Repository -** a storage location that contains essential and popular software for different Linux distributions