wr3.md 2023-10-13

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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 and lets you control the computers hardware.

Aside from a kernel, what other parts make an operating system? Other parts of an operating system include the command line shells, graphical user interfaces, libraries, and utility and productivity programs.

What is a Linux distribution? The complete system package for Linux that contains a Linux kernel, core unix tools, supplemental software, startup scripts, and an installer.

What is Ubuntu? A Linux distribution, freely available with both community and professional support.

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

- Open Source: A software that is free or has to be purchased but the source code comes with the software.
- Closed Source: The source code is not given with the software and users are restricted from editing the software.
- Free Software: The software is free but the source code might not come with the software.

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? A way of creating a virtual version of something. Often used to run multiple operating systems on one physical machine at the same time.

List 3 benefits of virtualization

- Allows running multiple operating systems on one machine without dual booting.
- Allows applications to be tested before installing them on the host machine.
- 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 A powerful x86 and AMD64/Intel64 virtualization product for enterprise as well as home use.

wr3.md 2023-10-13

Exploring Desktop Environments

What is a desktop environment? (Provide 3 examples) A desktop environment is an implementation of the desktop metaphor made of a bundle programs running on top of a computer operating system, which shares a common graphical user interface. Examples: GNOME, KDE, and XFCE.

List 4 common elements of desktop environments

- Desktop Settings
- Display Manager
- File manager
- Icons

What is Ubuntu's default desktop environments? GNOME 3

What are the official flavors of Ubuntu?

- GNOME
- KDE
- XFCE
- MATE
- Cinnamon
- LXQT
- Deepin
- Pantheon

What is a Shell

What is Bash? The GNU bash shell is a program that provides interactive access to the Linux system.

How do you access the Linux CLI? You access the Linux CLI by taking the Linux system out of the graphical desktop mode and placing it in text mode. Keyboard Shortcut: Ctrl-Alt-T

What is a console terminal? A direct interface to the Linux system that is text-based.

What is a terminal emulator? A program that allows you to access the Linux CLI.

Provide 3 examples of Linux commands

- apt search "name"
- · sudo apt install
- clear

Managing Software

Which command is used for updating ubuntu sudo apt upadate; sudo apt upgrade

Which command is used for installing software. Provide an example. sudo apt install lollypop

Which command is used for removing software. Provide an example. sudo apt remove dragonplayer

Which command is used for searching for software. Provide an example. apt search "music player"

wr3.md 2023-10-13

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.