notes2.md 2025-09-19

Notes 2

What is an Operating System?

An operating system provides all fundamentals software features of a computer

What is a kernel?

A software component that's responsible for managing low-level feature of the comptuer

Which other parts aside from the kernel identify an OS?

system libraries, utilities, user interface, file system, device drivers, process and memory management, and security features.

What is linux and linux distribution?

Linux is an open-source operating system kernel that manages hardware and system resources, serving as the core of many operating systems. A Linux distribution (or distro) is a complete operating system built around the Linux kernel, combined with system tools, libraries, a user interface, and applications—examples include Ubuntu, Fedora, and Debian.

List at least 4 linux characteristics:

Open source software, free of charge, Unix tools, and server applications

What is Debian?

Is an all-volunteer organization dedicated to developing free software and promoting it

List and define the different types of licensing agreements

- Open source-The software may be distributed for a fee or free
- · Closed source- the software is not distributed with the source code
- freeware- The software is free but the soucre code is not available
- Shareware-software is free on trial basis
- · Free software- software is distributed with source code

What is Free Software? Define the 4 freedoms.

Free Software refers to software that grants users the four freedoms: to run, study, modify, and share the program, allowing full control over its use and distribution.

What is virtualization?

creating virtual versions of something