

# Week Report 3

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## Summary of presentations

### Introduction to Linux

#### **What is an operating system?**

- provides all fundamentals software features of a computer

#### **Aside from a kernel, what other parts make an operating system?**

- command line shells, graphical user interfaces, utility and productivity programs and libraries

#### **What is a Linux distribution?**

- any operating system that runs the linux kernel

#### **What is Ubuntu?**

- is a Linux distribution

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

- open source - the software may be distributed for a fee or free. The source is not 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. The software can be free of charge or obtained by a fee.

#### **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?**

- is defined as creating virtual versions of something

#### **List 3 benefits of virtualization**

- allows running multiple OSs on one machine without dual booting
- allows applications to be tested before installing them on a 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, running virtual machines
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### **What is virtualbox**

- is a powerful x86 and AMD/Intel64 virtualization product for enterprise as well as home use

## Exploring Desktop Environments

### **What is a desktop environment? (Provide 3 examples)**

- GUI: A graphical user interface is a set of programs that allows a user to interact with the computer system
- DE: a desktop environment is an implementation of the desktop metaphor made of a bundle of programs running on top a computer operating system

### **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?**

- Canonical offers an official flavor of Ubuntu with the Mate DE called Ubuntu Mate

## What is a Shell?

### **What is Bash?**

- a command-line interface shell program

### **How do you access the Linux CLI?**

- terminal Emulator
- Linux Console

### **What is a console terminal?**

- takes the linux system out of graphical desktop mode and place it in text mode

### **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**

- Ctrl + A: go to the start of the command line
- Ctrl + E: go to the end of the command line

- Ctrl + K: delete from cursor to the end of the command line

## Managing Software

### **Which command is used for updating ubuntu**

- sudo apt update; sudo apt upgrade -y

### **Which command is used for installing software. Provide an example.**

- sudo apt install

### **Which command is used for removing software. Provide an example.**

- sudo apt remove

### **Which command is used for searching for software. Provide an example.**

- sudo apt search

### **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