

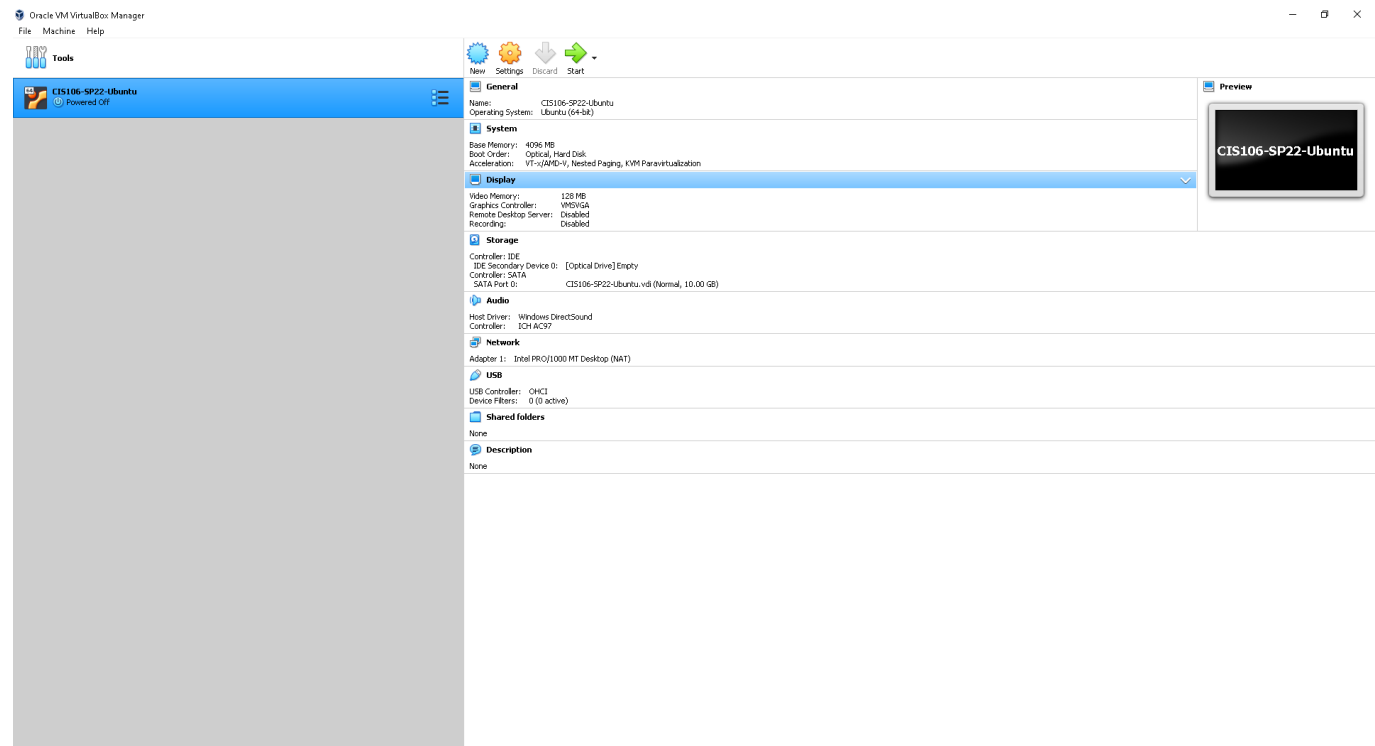
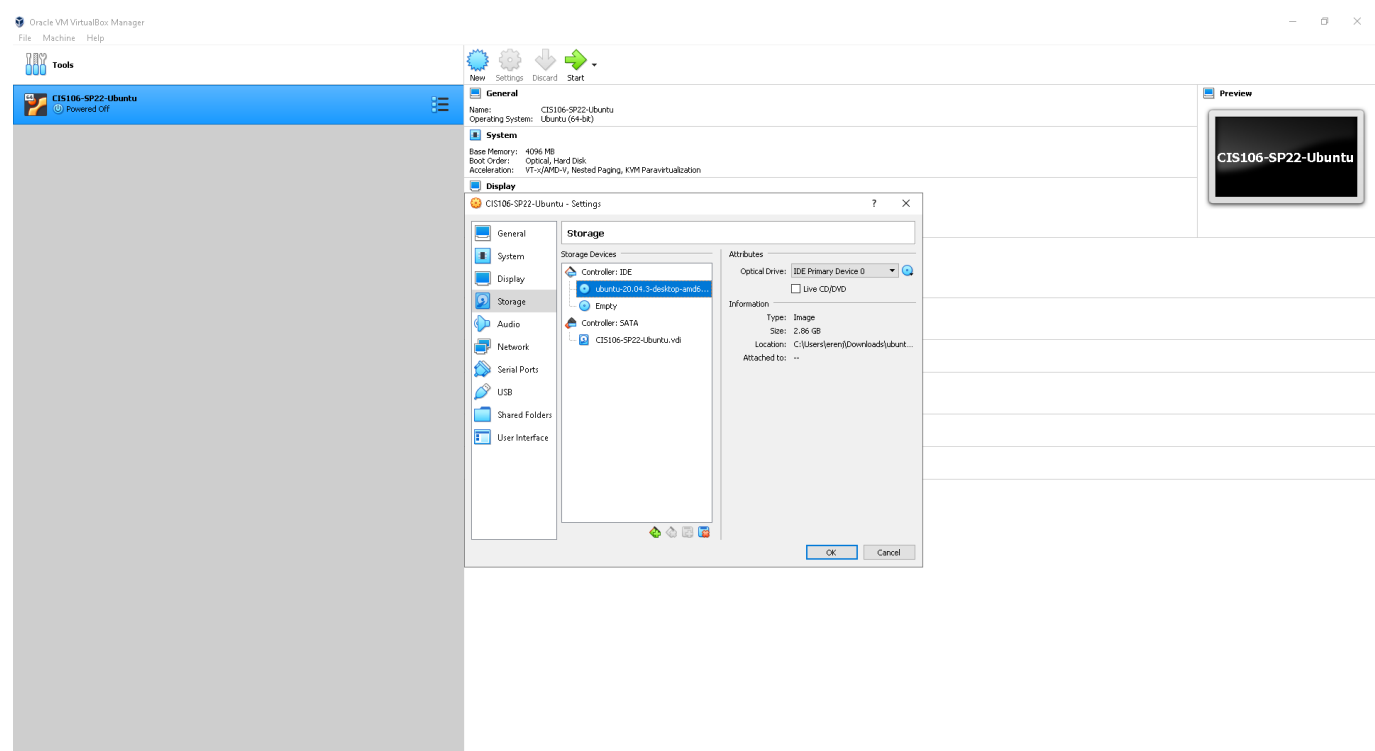
Week Report 2

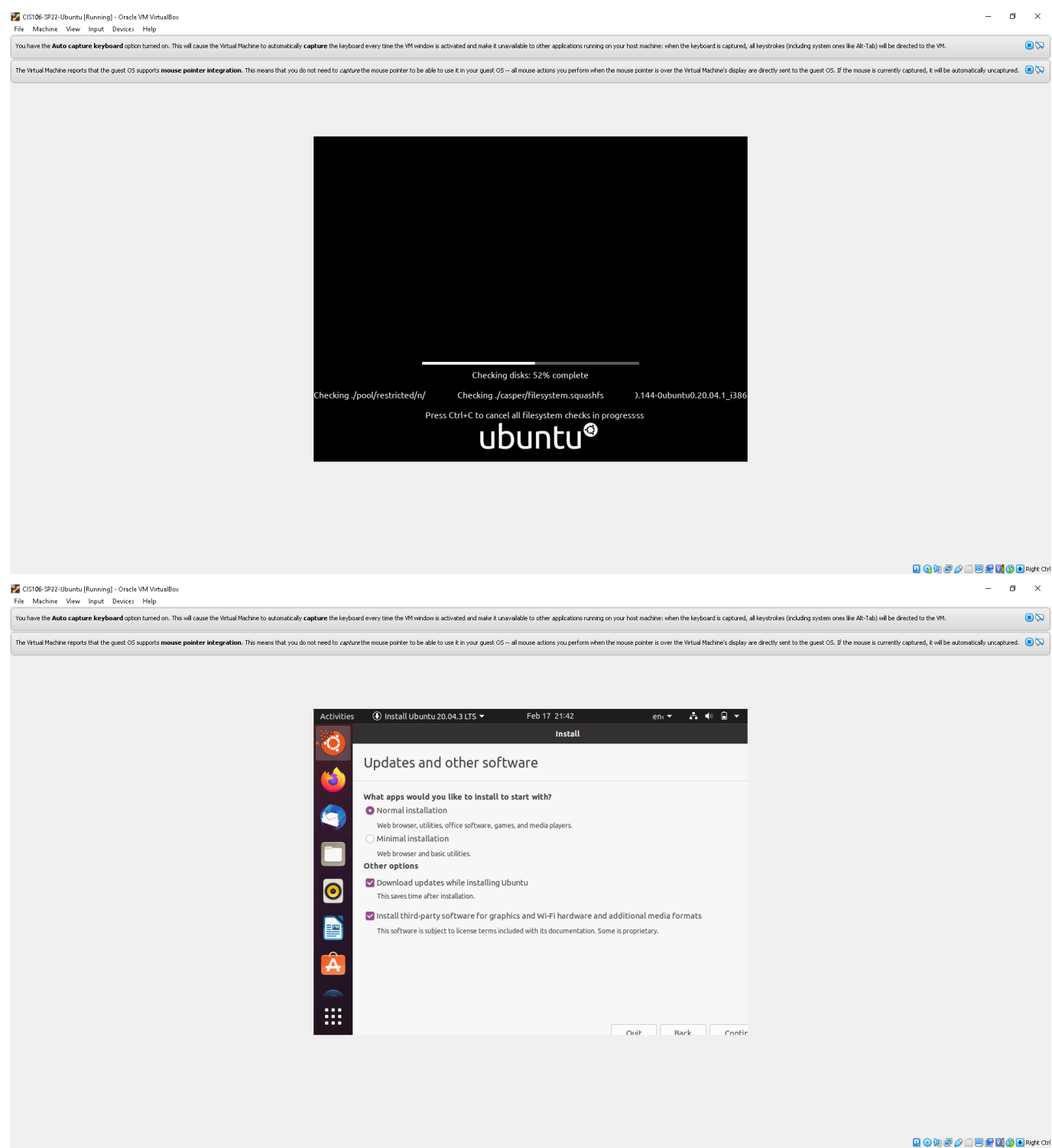
I've learned alot during this week such as a raspberry pi I didn't even know those devices existed I may consider of me buying one because it just amazes how a little device can do allot such as home security or programming.

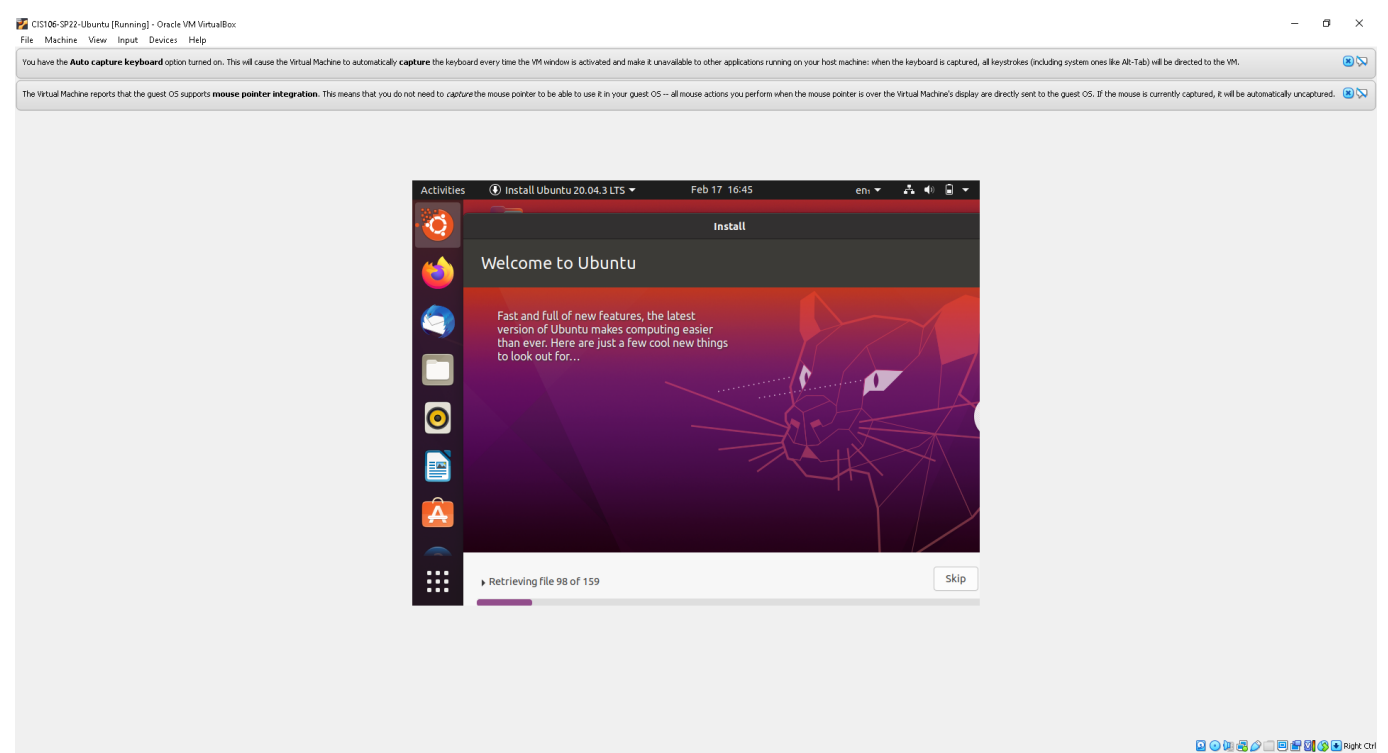
Summary of Presentations

- An desktop that can simulate a virtual machine which leads to being an entirely different computer an software that can be run on a desktop.
- Hypervisor Type 1 Will replace your computer completely and it will be faster compared to Hypervisor Type 2 which is a software installed on the host operating system.
- One thing that I found important about virtualization is that you can test the software to see if that's what you want to replace your OS with that will run faster then windows 10.

Installing Ubuntu In Virtualbox







What is the raspberry pi

An raspberry pi is a small computer card like a mother board but the size as a phone and the raspberry pi haves no screen.

A bulleted list of different models

- Raspberry PI 4
- Raspberry PI 3
- Raspberry PI Model B
- Raspberry PI Zero W
- Raspberry PI 3 A+
- Raspberry PI 400

Specs of the latest Raspberry PI model

Raspberry PI 4

Specifications

Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
2GB, 4GB or 8GB LPDDR4-3200 SDRAM (depending on model)
2.4 GHz and 5.0 GHz IEEE 802.11ac wireless, Bluetooth 5.0, BLE
Gigabit Ethernet
2 USB 3.0 ports; 2 USB 2.0 ports.
Raspberry Pi standard 40 pin GPIO header (fully backwards compatible with previous boards)
2 x micro-HDMI ports (up to 4kp60 supported)
2-lane MIPI DSI display port
2-lane MIPI CSI camera port
4-pole stereo audio and composite video port
H.265 (4kp60 decode), H264 (1080p60 decode, 1080p30 encode)
OpenGL ES 3.1, Vulkan 1.0
Micro-SD card slot for loading operating system and data storage
5V DC via USB-C connector (minimum 3A*)
5V DC via GPIO header (minimum 3A*)
Power over Ethernet (PoE) enabled (requires separate PoE HAT)
Operating temperature: 0 – 50 degrees C ambient

* A good quality 2.5A power supply can be used if downstream USB peripherals consume less than 500mA in total.

List of 5 Projects you can do with the raspberry PI

- You can make your own security system.
- Make your own Film stop motion.
- Make your own Raspberry PI Computer.
- Home Automation System.
- Make a Social Media Bot.