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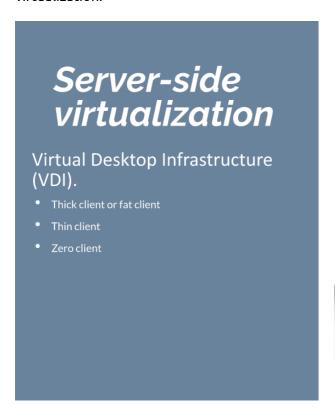
### Week Report 2

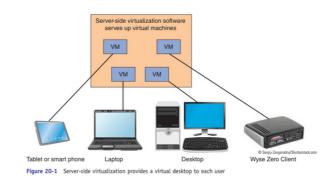
### Summary of Presentations

### The Basics Of Virtualization

Virtualization is a replication of hardware to simulate a virtual machine inside a physical machine.

There are two different types of virtualization which are server-side virtualization and client-side virtualization.







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## Client-side virtualization

- Software installed on a computer to manage virtual machines
- Each VM has its own operating system installed
- For client-side virtualization, the computer needs:
- A hypervisor (Software that allows the management of virtual machines)
- Hardware support
- capable CPU
- Enough RAM
- Enough storage



#### There are many benefits to using Virtualization

- · Allows running of multiple OSs on one machine
- · Allows applications to be tested before installing them onto a host machine
- Reduces the costs of running a network by decreasing the amount of physical hardware you need.

Requirements for Virtualization

# Can my computer virtualize?

For a decent virtualization experience your computer should meet the following minimal specifications:

AMD V or INTEL V compatible processor

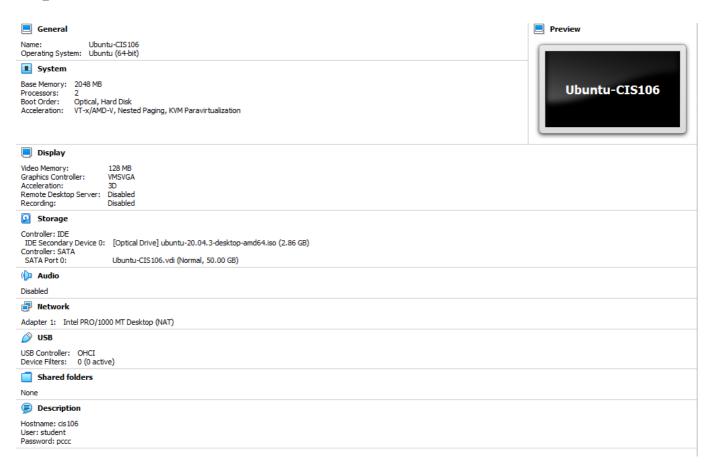
Dual core x64 processor with 1.3 GHz or faster

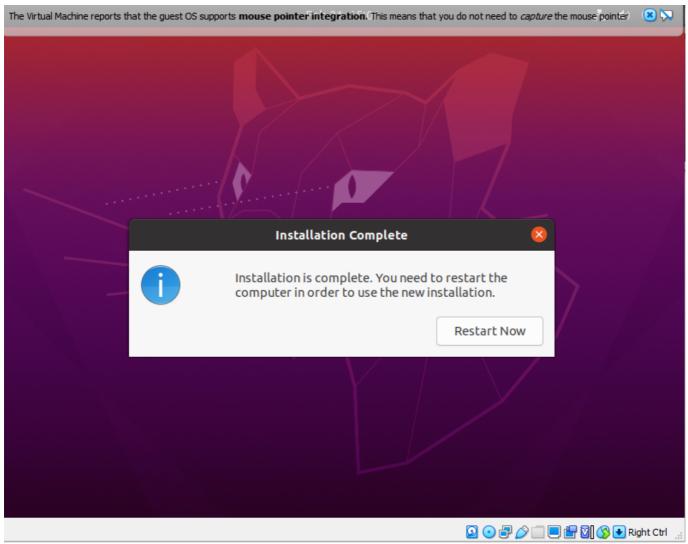
4GB of RAM

Enough free hard drive space for installing guest OSs (see the minimal requirements of the desired Operating System)

### Installing Ubuntu In Virtualbox

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### What Is The Raspberry Pi

Raspberry Pi is a low cost, credit-card that plugs into a computer monitor or TV, it is able to do everything a desktop computer can do with a basic keyboard and mouse.

- Pi Zero W
- Pi 3 A+
- Raspberry Pi 3

Latest Model Raspberry Pi 400

# Raspberry Pi 400

Raspberry Pi 400 has the same components as Raspberry Pi 4 placed inside a keyboard housing. This is a great choice for those who are going to use the Pi as an Everyday computer.





- Wi-Fi Extender
- · Security Camera
- Remote-Controlled 3D Printer
- · Language Translator
- Network Attached Storage (NAS)