# Week Report 2

### **Summary of Presentations**

The basics of virtualization

- What is virtualization
  - Replication on hardware to simulate virtual machines inside a physical machine
- Types of virtualization
  - client-side virtualization server-side virtualization

The big difference between this two is where the virtualization takes place. That's it!

# Server-side virtualization

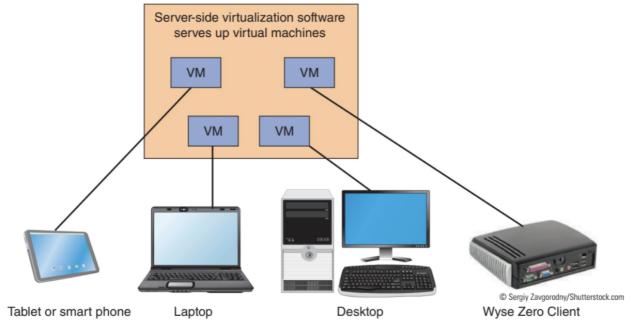


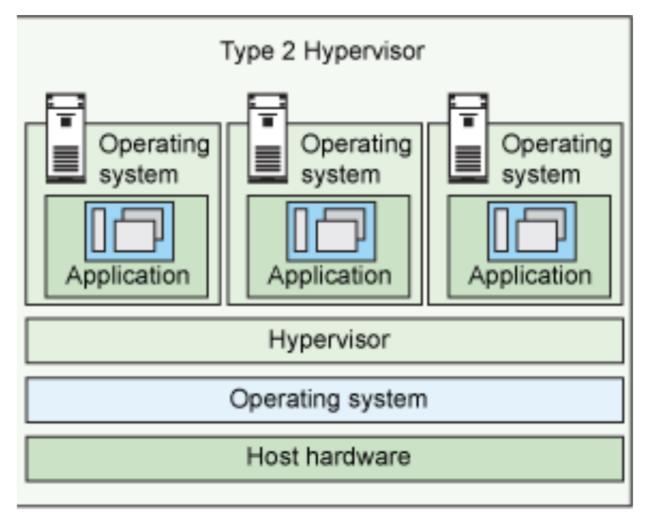
Figure 20-1 Server-side virtualization provides a virtual desktop to each user

• For example: Our school uses this server-side platform using (VMware ESXi) with (VDI) virtual desktop infrastructure. And provides "Thin clients" and "Zero clients" for students in the classrooms.

# Client-side virtualization

Software installed on a computer to manage virtual machines

- 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



• For this course we will be using Type 2 Hypervisor.

Which is software that runs on a Host Operating System. Ex:

VMware Workstation Player/Pro Oracle VirtualBox

• For the course We will use: Oracle VirtualBox

### Some of the benefits of virtualization are:

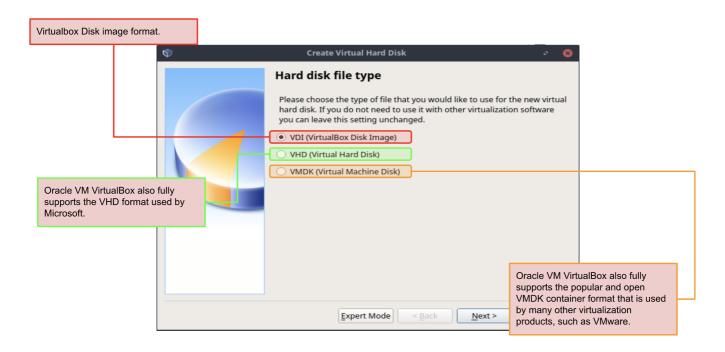
- Allows multiple OS.
- Allows applications to be tested before installing them on a host machine.
- Reduces the costs by decreasing the physical hardware that must be purchased for a network.

• Offers the chance to experiment with untested programs without infecting machines with malicious software or viruses.

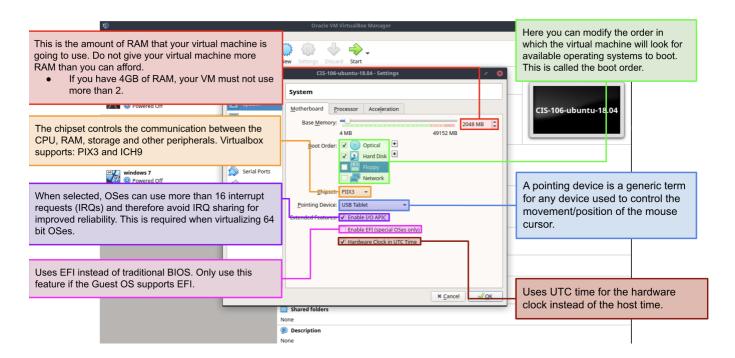
Installing Ubuntu in Virtualbox

# How to install Ubuntu Distro in VirtualBox

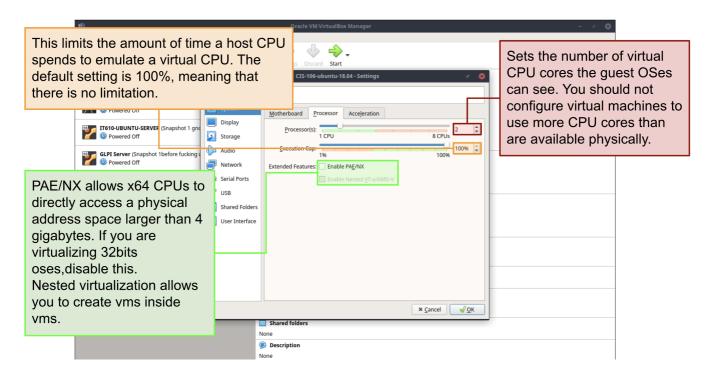
Selecting the VDI (iso image needed)



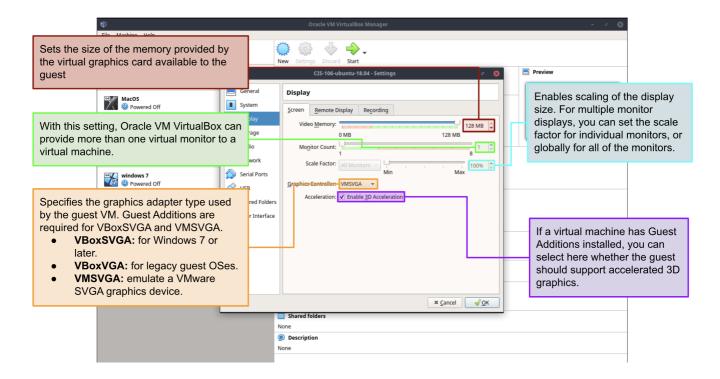
#### Setting System Motherboard



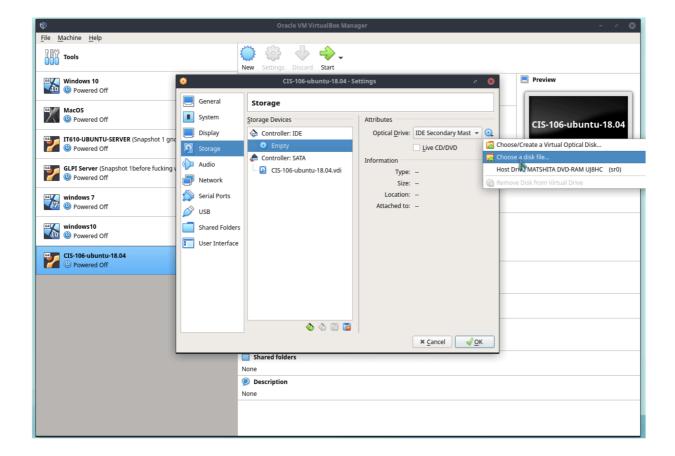
Setting up CPU



### Setting up Display



Setting up Storage



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