## Week report 2

#### The basics of Virtualization

Virtualization is has two types of hypervisors, there's type 1 where it runs on the hardware. Then there's type 2, where it runs on a host operating system. Type 1 Example: VMware ESX and ESXi Type 2 Example: VMware Workstation Player/Pro

Virtualization also has many benefits.

- 1. You're able to run multiple operating systems on single machine.
- 2. You're able to try out untested programs without giving the host machine a virus or malware.

In order to have a good experience using virtualization your computer must have the following specifications:

- 1. Quad core CPU or Dual core with a base frequency of 2.0GHz
- 2. 6GB or more of RAM
- 3. 60GB or more of Free storage

**What is virtualization** Definition of Virtualization: Is when you install and run multiple operating systems inside a physical machine.

#### Types of virtualization

• Server-side virtualization Definition: Server-side virtualization provides a virtual desktop to each user

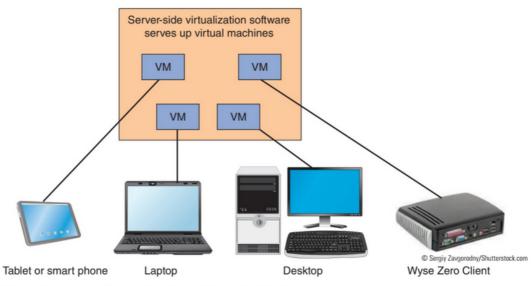


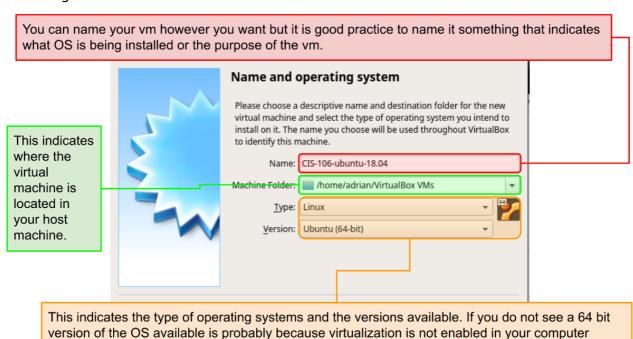
Figure 20-1 Server-side virtualization provides a virtual desktop to each user

• Client-side virtualization Definition: Client-side virtualization is a software that manages virtual machines on your computer.

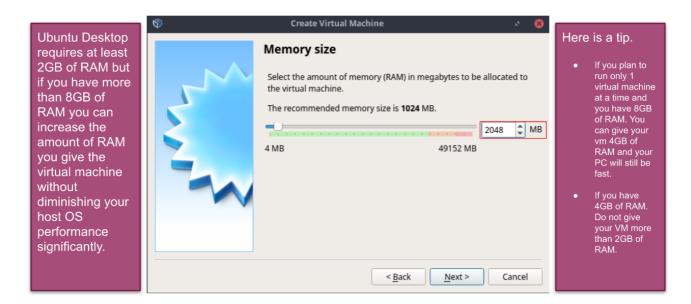


## Installing Ubuntu in Virtualbox

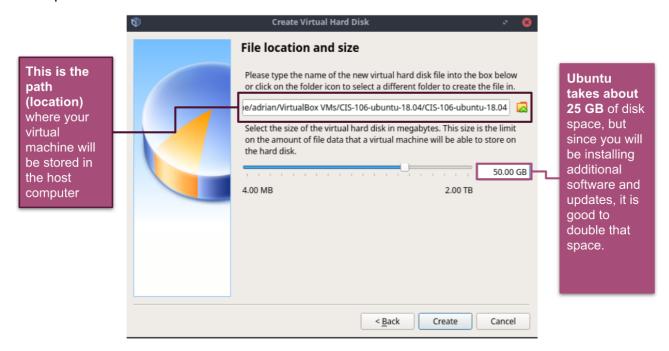
• Confirming virtualization is enabled



#### • Required RAM for Ubuntu



#### • Disk Space



• How to Update Ubuntu

### **Update Ubuntu 20.04**

- Two ways:
  - Using Ubuntu Software Update
  - Using the command line
    - Command:

sudo apt update; sudo apt upgrade -y; sudo apt full-upgrade -y



• Always take a snapshot

# Take a snapshot of a virtual machine

Always take snapshots of your virtual machine turned off to reduce the size of the snapshot.

