Name: Fiorella Alarcon

Semester: Fall 22 Course: cis106

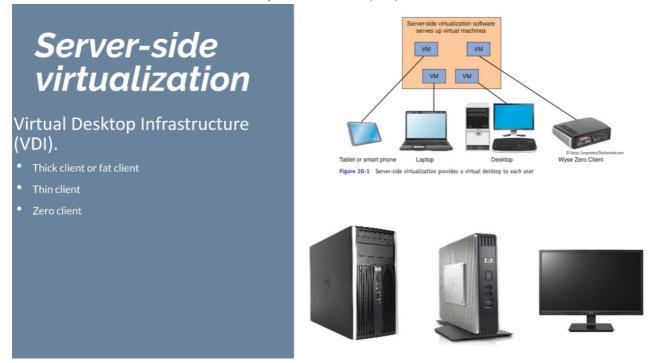
### Week Report 2

### The basics of Virtualization

1. **What is virtualization** Replication of hardware to simulate a virtual machine inside a physical machine

### 2. Types of virtualization

• Server Side Virtualization Virtual Desktop infrastructure(VDI)



• Client-side Virtualization Software installed on a computer to manage virtual machines with its own operating system installed. A hypervisor and certain hardware requirements are needed.

## 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



# Type 1 VS Type 2 Hypervisor

Type 1

Runs on the hardware

Examples are:

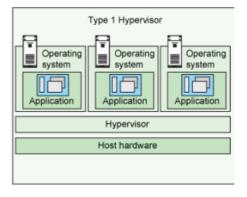
VMware ESX and ESXi Citrix XenServer

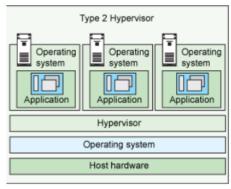
Type 2

Runs on a Host Operating System Examples are:

> VMware Workstation Player/Pro Oracle VirtualBox

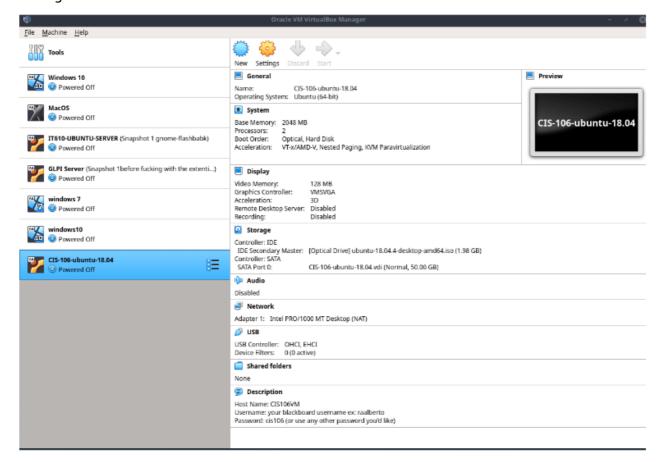
E HTTPS://VAPOUR-APPS.COM/WHAT-IS-HYPERVISOR/ FOR MORE INFORMATION





Installing Ubuntu in Virtualization

Settings



Update

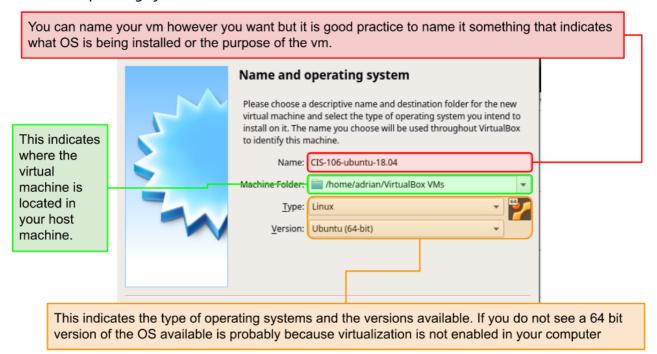
### Update Ubuntu 20.04

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

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



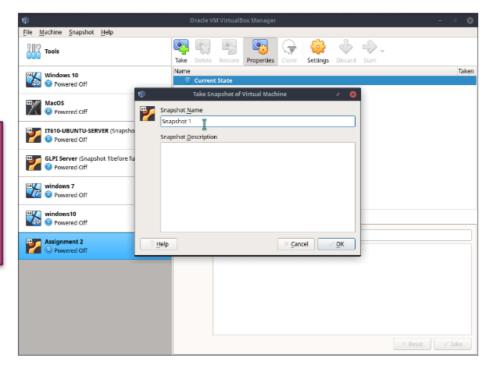
Name and Operating System



Snapshot

### Take a snapshot of a virtual machine

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



### • Live



You can use the live environment as a regular computer. All ubuntu's default applications are available in this environment. However, any changes will not remain as well as any data saved in this environment

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