

# Week Report 2

## The basics of virtualization

### 1. What is virtualization Definition of virtualization

- Server side virtualization - Is a Virtual Desktop Infrastructure (VDI). Such as Thick client or fat client, Thin client, and Zero client
- Client side virtualization - Software installed on a computer to manage virtual machines.

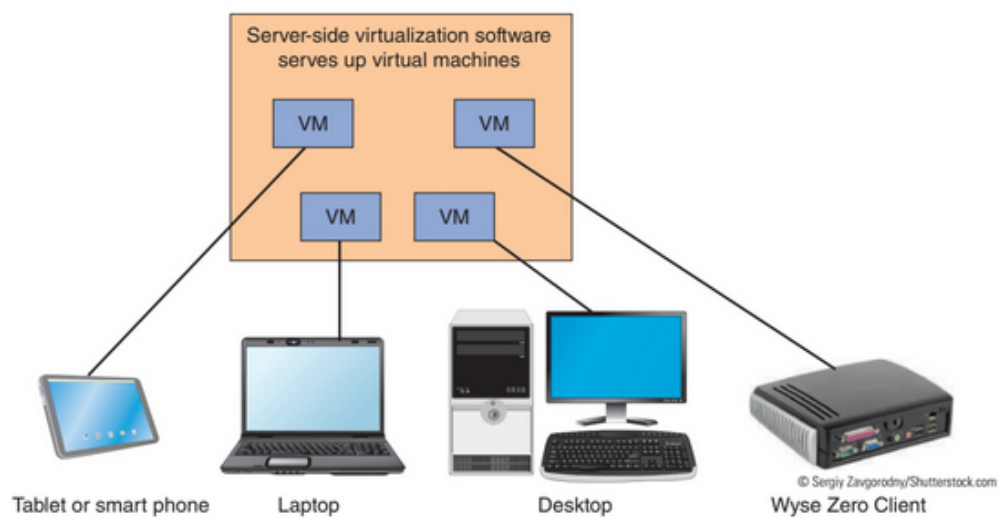


Figure 20-1 Server-side virtualization provides a virtual desktop to each user



### 2. Types of virtualization

- 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

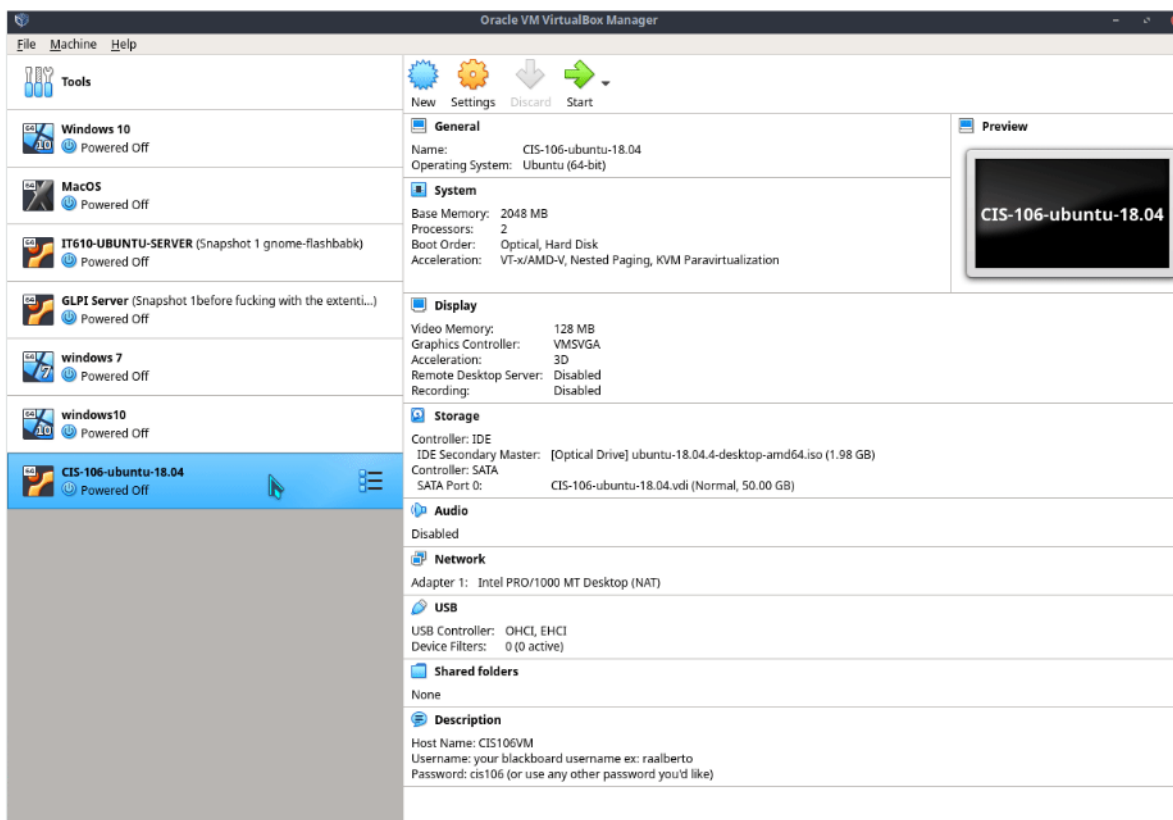
# Client-side virtualization

- 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



## Installing Ubuntu in Virtualbox

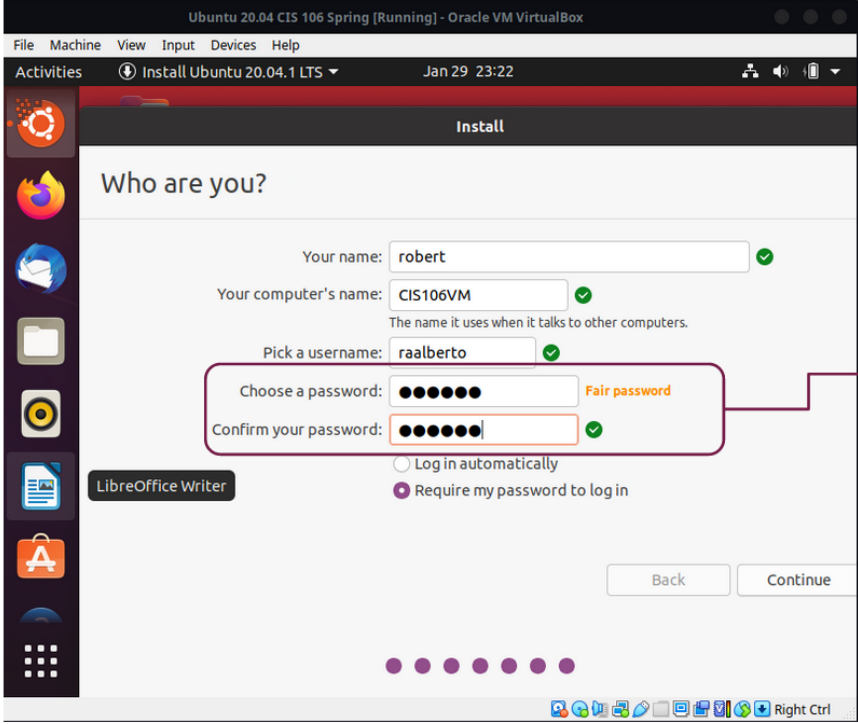
- Virtual machine start up



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- Inputting account information

**Ubiquity's Who are you?**  
Screen allows you to enter your computer's information. Refer to slide 10 where you wrote down your username and password. To view this information you can click on machine > Settings > Details.



Notice that Ubiquity notifies you of the strength of your password.

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- Installing Ubuntu

**Try Ubuntu:**  
Starts Ubuntu live environment. You can launch the installer from the live environment.

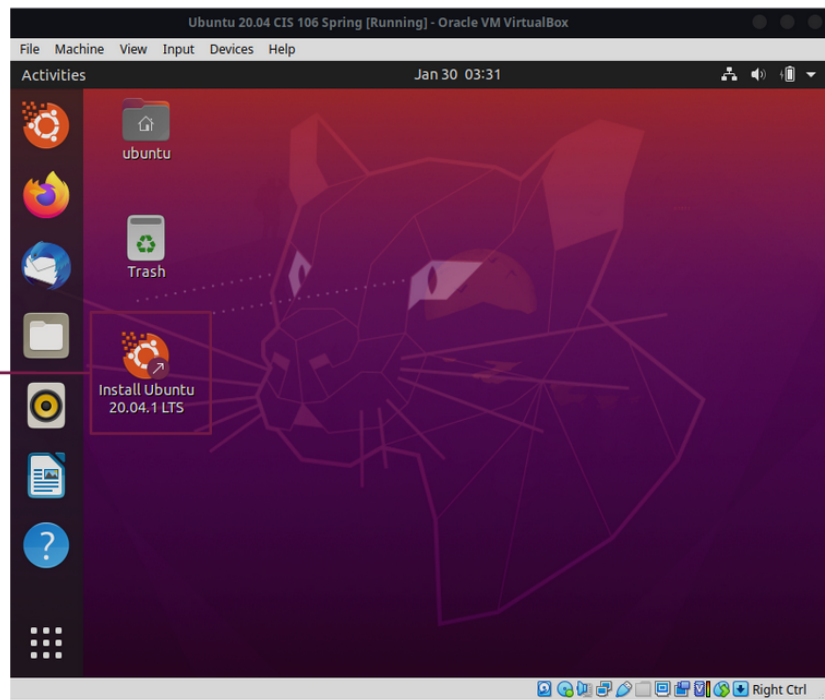


**Install Ubuntu:**  
Starts Ubuntu installer. Ubuntu installer is called *Ubiquity*

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- Ubuntu live session

To start Ubiquity, double click on the “Install Ubuntu 18.04.4 LTS” icon. This will launch the installation wizard.



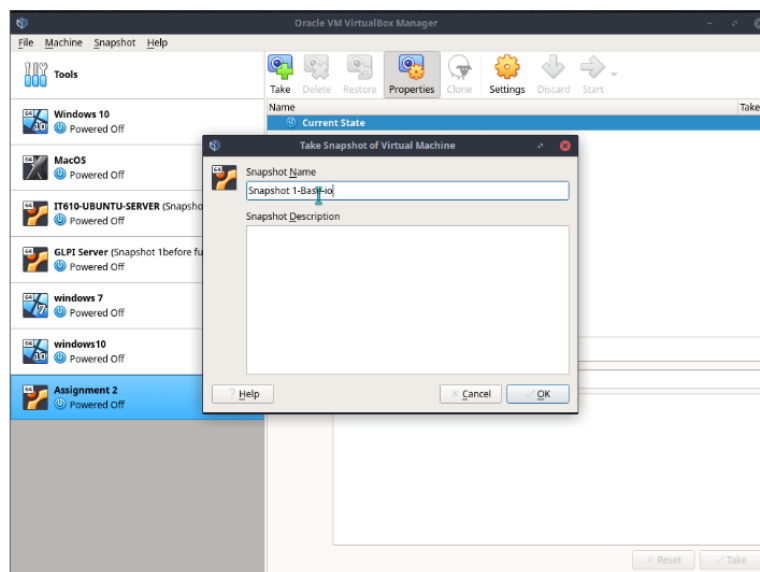
You can use the live environment as a regular computer. All ubuntu's default applications are available in this environment. However, any changes will not remain as well as any data saved in this environment

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- Creating Snapshots

## Take a snapshot of a virtual machine

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

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