

## #Notes Lecture 02 | Installing Ubuntu ##What is Virtualization?

- Replication of hardware to simulate a virtual machine inside a physical machine.
- Two general types of virtualization:
  - server-side virtualization
  - client-side virtualization
- The difference between the two is where the virtualizing takes place

## ##Server-side virtualization ###Virtual Desktop Infrastructure(VDI)

- Thick client or fat client
- Think client
- Zero client ##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 ##Benefits of Virtualization
- Allows running multiple OSs on one machine
- Allows applications to be tested before installing them on a host machine
- Reduces cost by decreasing the physical hardware that must be purchased for a network
- Offers the chance to experiment with untested programs without infecting host machines with viruses or other malware ##Installing Ubuntu in a virtual machine
- Download the iso file
- Click on new and enter a name for the virtual machine
- Select an OS type
- Select the desired memory size
- Select storage type
- Select file location and size
- Start!