

# Week Report 2

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## Basics of Virtualization

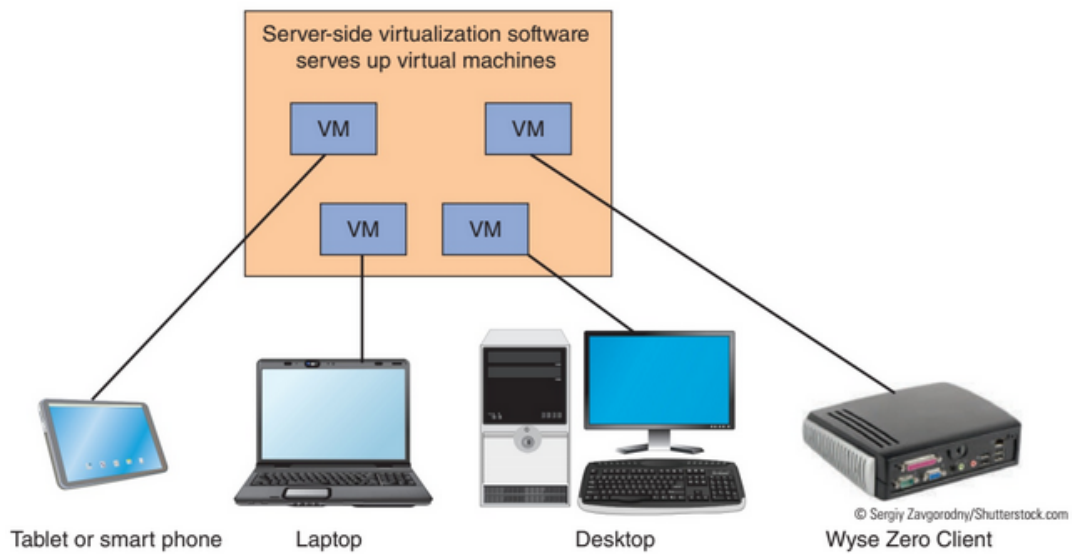
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1. **What is Virtualization** Virtualization is the replication of hardware to stimulate a virtual machine inside a physical machine. An example of virtualization would be the dummy monitor's throughout PCCC that are able to use RAM and preform downloads without having any hardware, accomplished through servers found somewhere on campus.



Furthermore, there are two general types of virtualization server-side virtualization and client-side virtualization; the difference being where the virtualization takes place. In the case of server-side virtualization, we take a server and spread the influx of data in the cloud between three devices

determined by local storage capacity zero client, thin client and thick client.



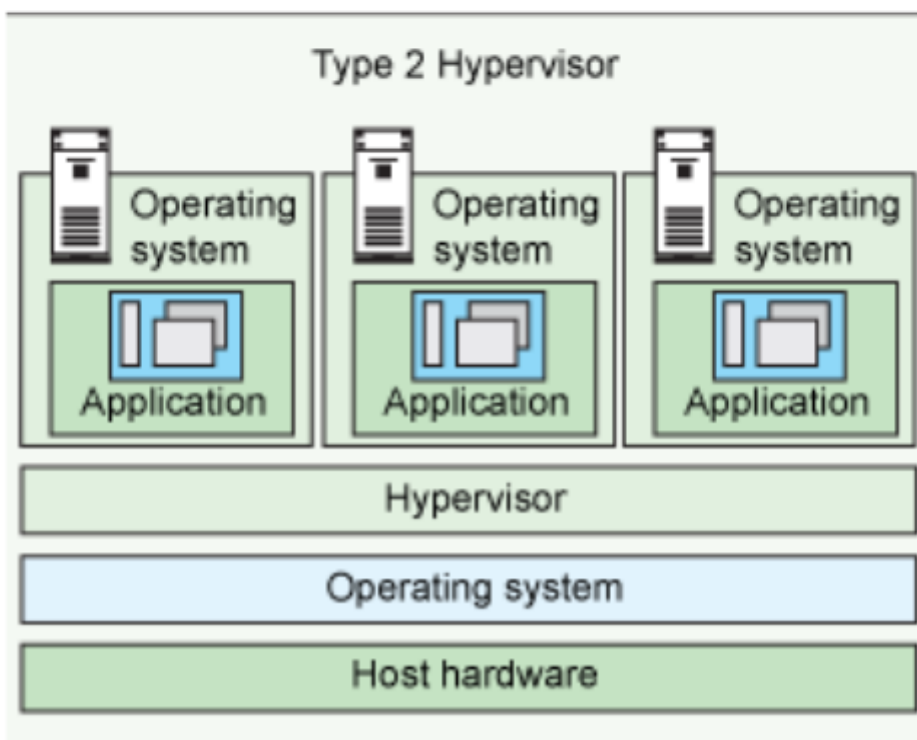
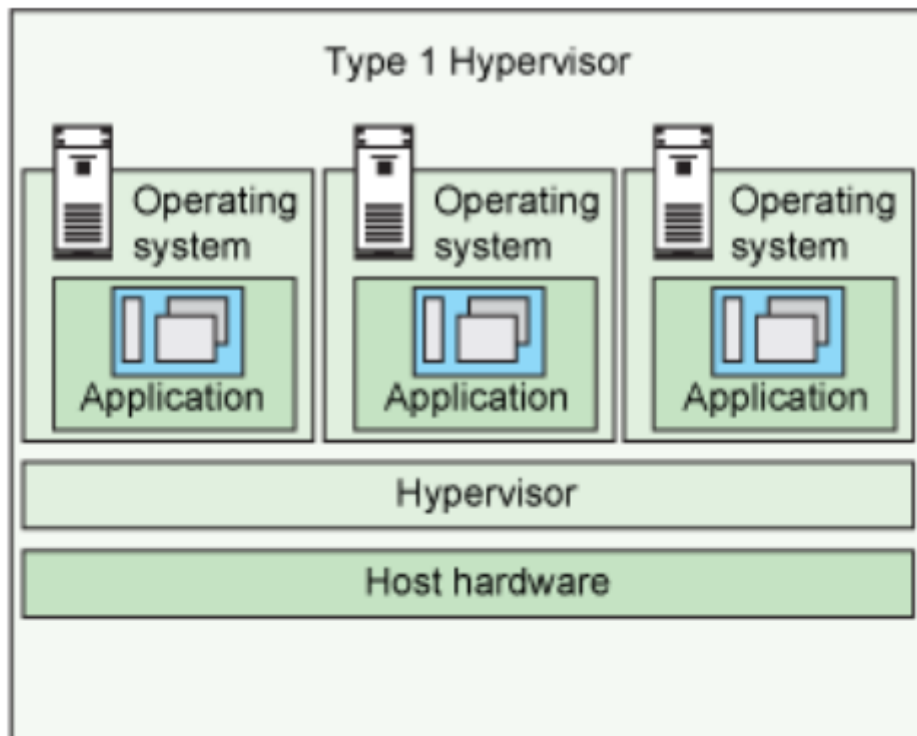
**Figure 20-1** Server-side virtualization provides a virtual desktop to each user



Whereas client-side virtualization takes place on software installed on the computer acting as a host for managing virtualization; an example being our usage of virtualbox.



Oftentimes these two categories are separated to the simplified terms of Type 1 and Type 2.



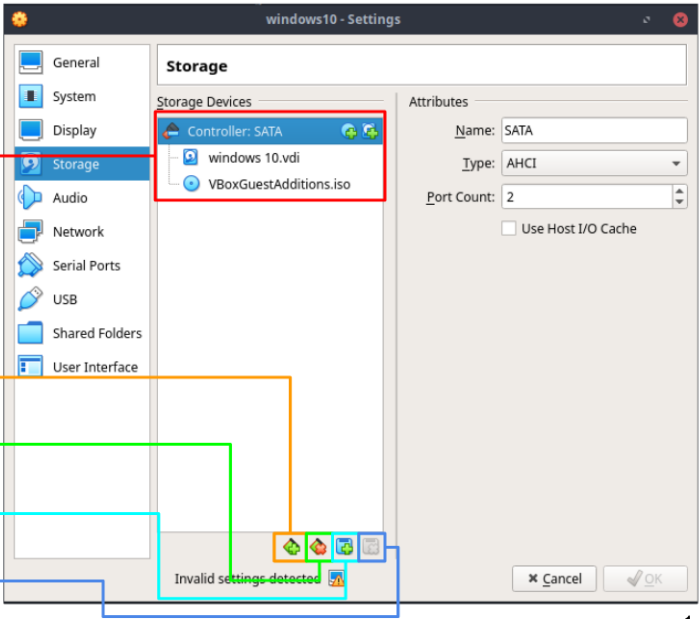
## Installing Ubuntu in Virtualbox

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Depending on the guest OS type, a new VM includes the following storage devices:

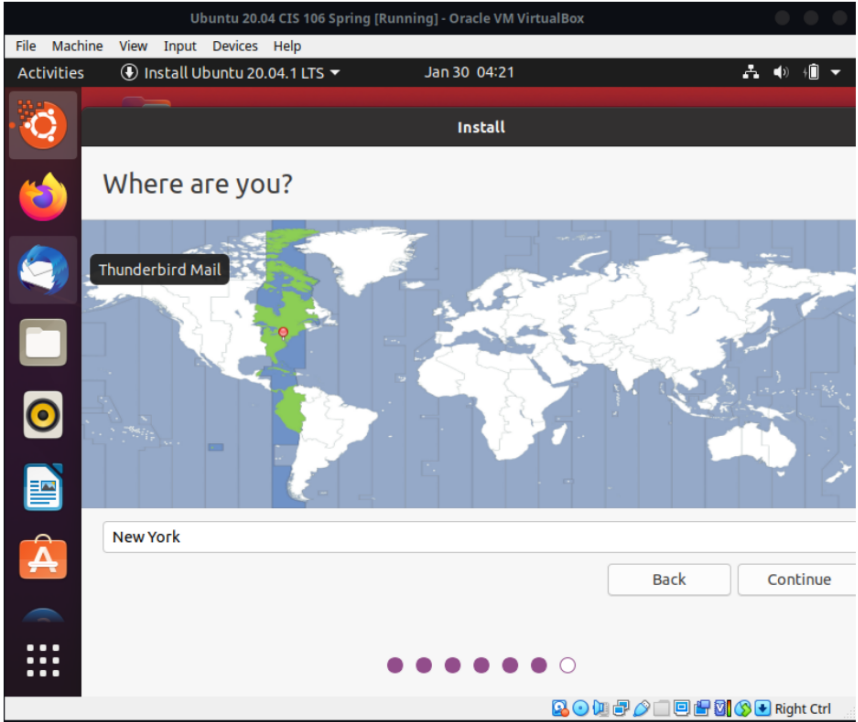
- **IDE controller.** A virtual CD/DVD drive is attached to the secondary master port of the IDE controller.
- **SATA controller.** This is a modern type of storage controller for higher hard disk data throughput, to which the virtual hard disks are attached.

- Add new storage controller
- Remove selected storage controller
- Add new storage attachment
- Remove storage attachment



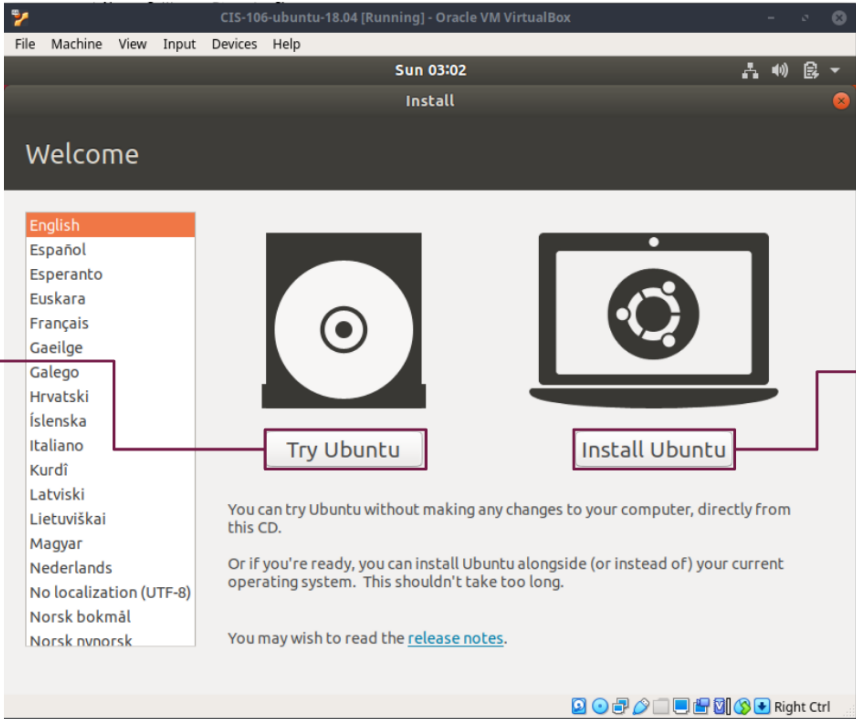
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**Ubiquity's Where are you screen?** Screen allows you to select your location for setting the time zone. By default, ubiquity will select the location based on you computer's locale. However, this can be overwritten by sliding the location selector



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

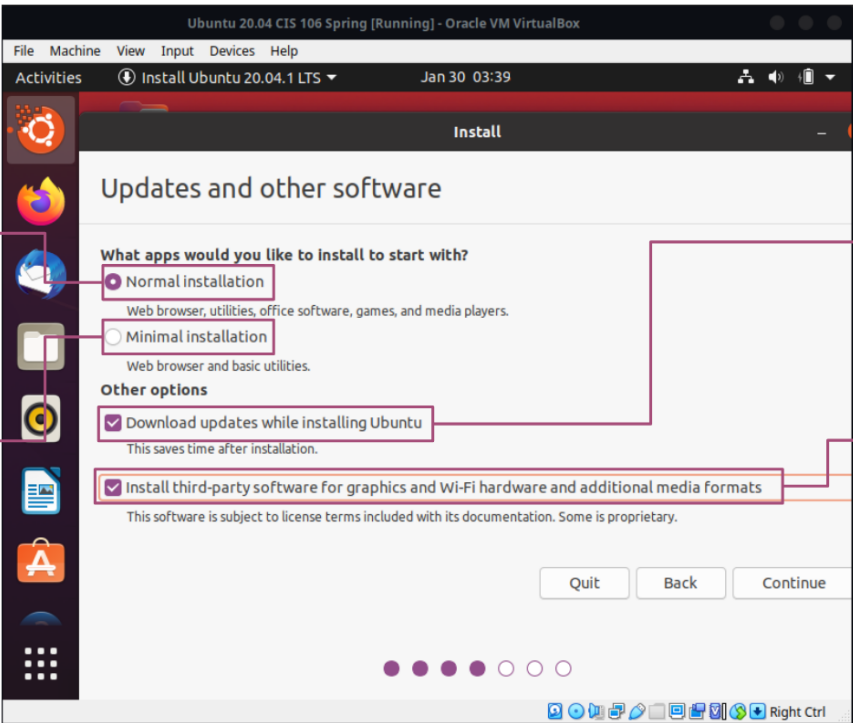


**Install Ubuntu:**  
Starts Ubuntu installer. Ubuntu installer is called *Ubiquity*

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Normal Installation installs all the default applications.

Minimal Installation installs Only basic utilities and a web browser.

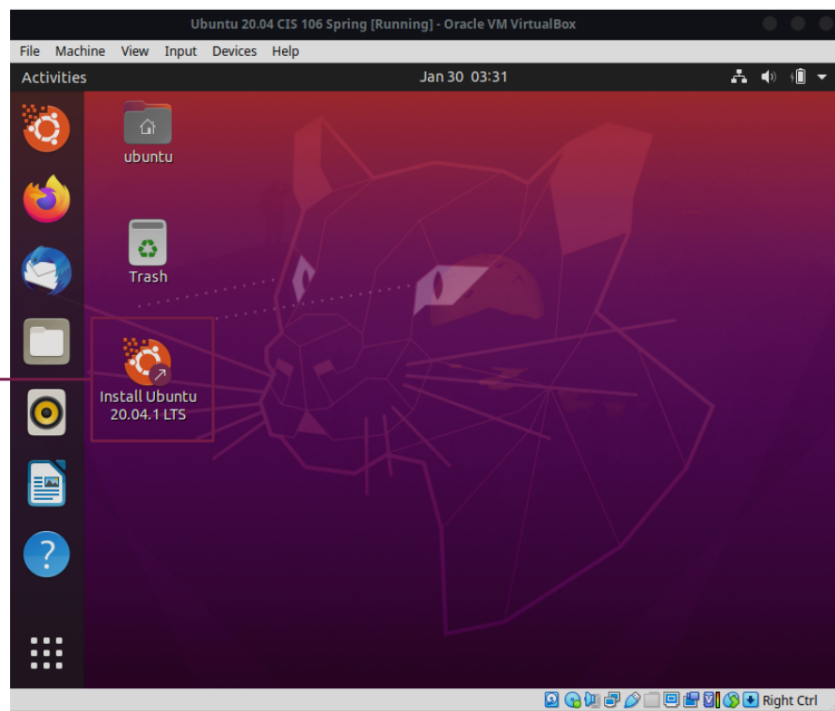


Allows you to install updates during the installation process

Installs third party applications and extra drivers.

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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