

# Ubuntu SW Setup

Last updated 2/24/19

# Ubuntu SW Setup

- Pre-setup
  - Visit IT **in person** and ask to have:  
virtualization enabled in the UEFI/BIOS

# Ubuntu SW Setup

- Check your computer
  - Settings → About
    - Amount of RAM installed
    - If < 8MB – contact instructor
  - File Explorer – right click on c: → properties
    - Check Free Space
    - If < 40MB – contact instructor

# Ubuntu SW Setup

- System virtual machines
  - Provide full virtualization
    - Full functionality required to execute an entire operating system
  - A hypervisor is used to share and manage hardware
    - Isolated environments (including hardware) that exist on the same physical machine.
- Operating System – Ubuntu
- Hypervisor - VirtualBox

# Ubuntu SW Setup

- VirtualBox
  - Free, OpenSource Hypervisor from Oracle
  - [www.virtualbox.org](https://www.virtualbox.org)
    - Download VirtualBox 6.0



# Ubuntu SW Setup

- VirtualBox
  - Select Windows hosts



**VirtualBox**

## Download VirtualBox

Here you will find links to VirtualBox binaries and its source code.

### VirtualBox binaries

By downloading, you agree to the terms and conditions of the resp.

If you're looking for the latest VirtualBox 5.2 packages, see [VirtualBox 5.2](#) need support for 32-bit hosts, as this has been discontinued in 6.0.

### VirtualBox 6.0.4 platform packages

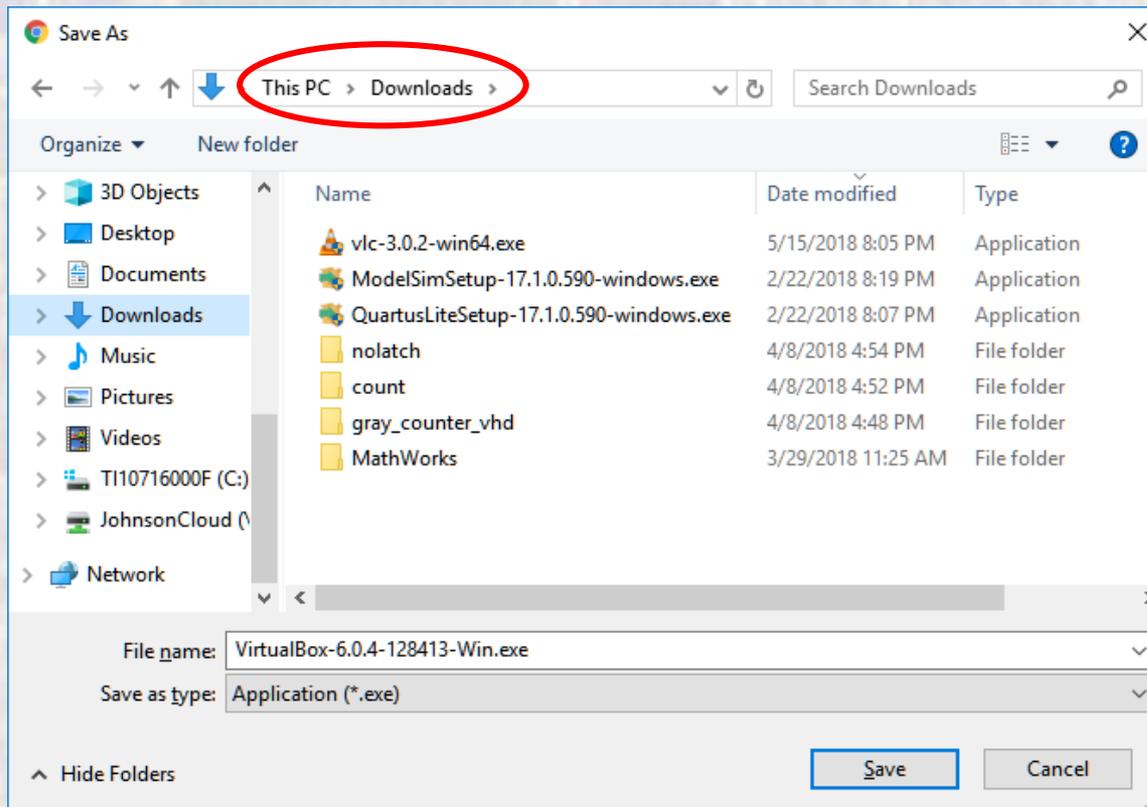
- [Windows hosts](#)
- [OS X hosts](#)
- [Linux distributions](#)
- [Solaris hosts](#)

The binaries are released under the terms of the GPL version 2.

See the [changes](#) for what has changed.

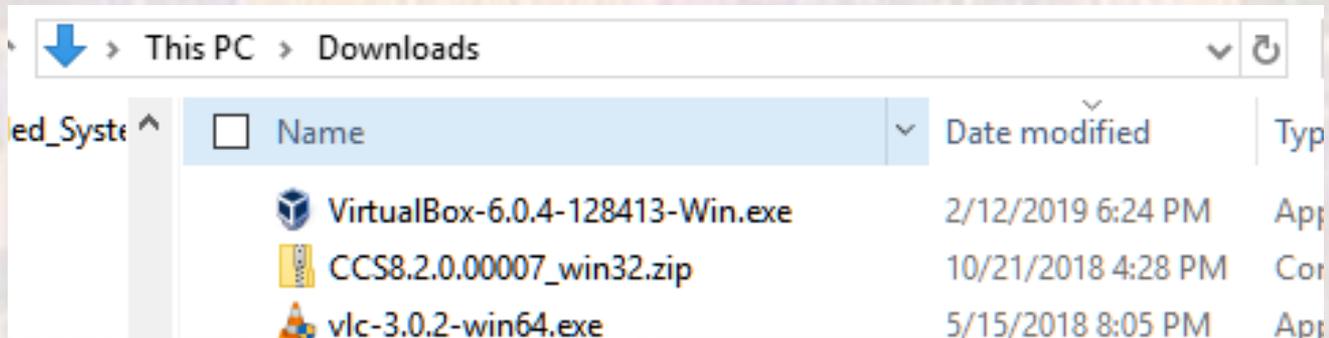
# Ubuntu SW Setup

- VirtualBox
- Save the file in Downloads



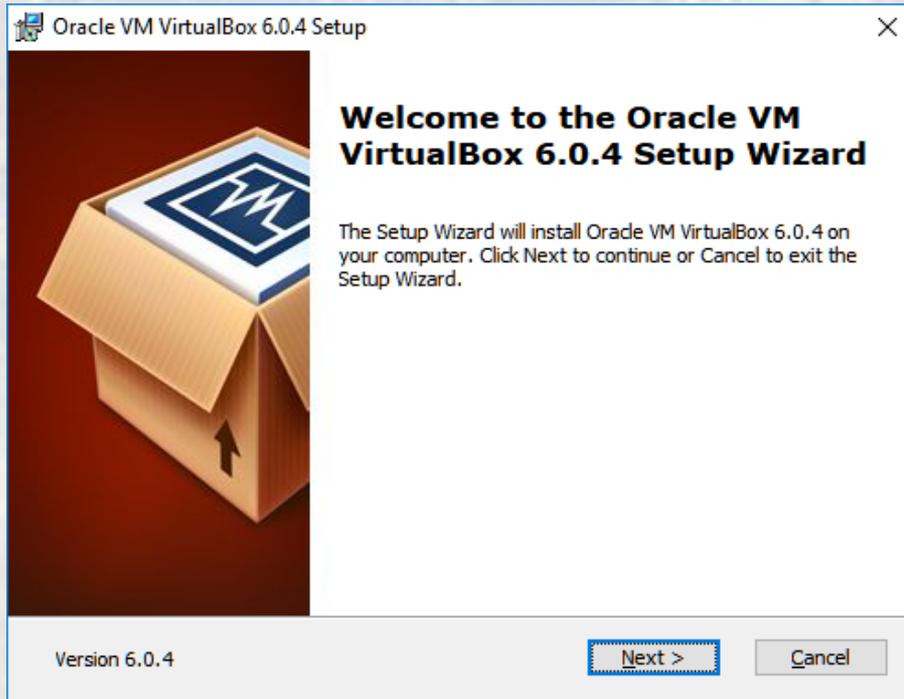
# Ubuntu SW Setup

- VirtualBox
  - Traverse to your downloads folder
  - Select the VirtualBox...executable

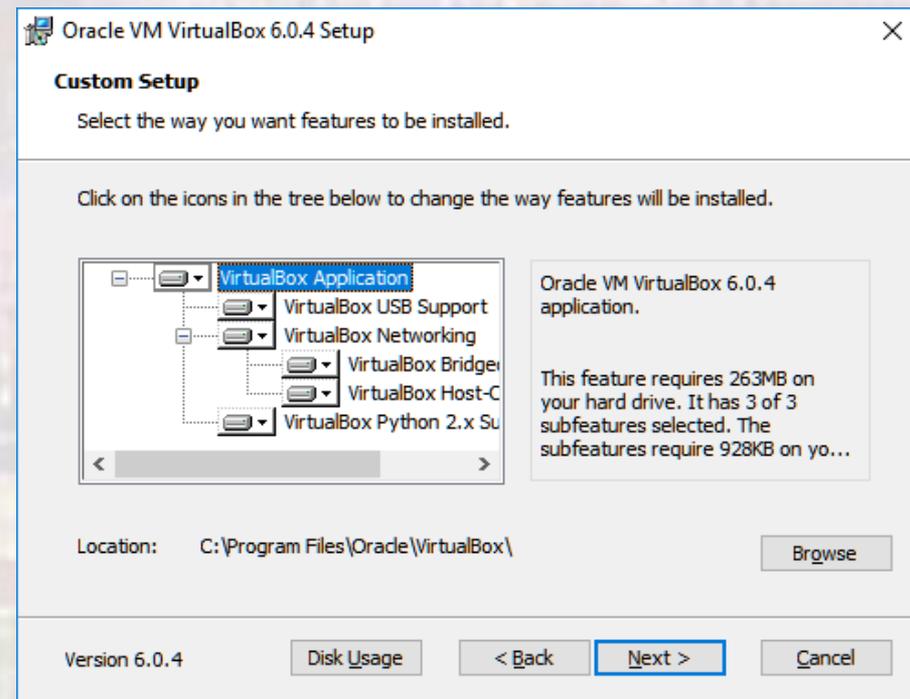


# Ubuntu SW Setup

- VirtualBox



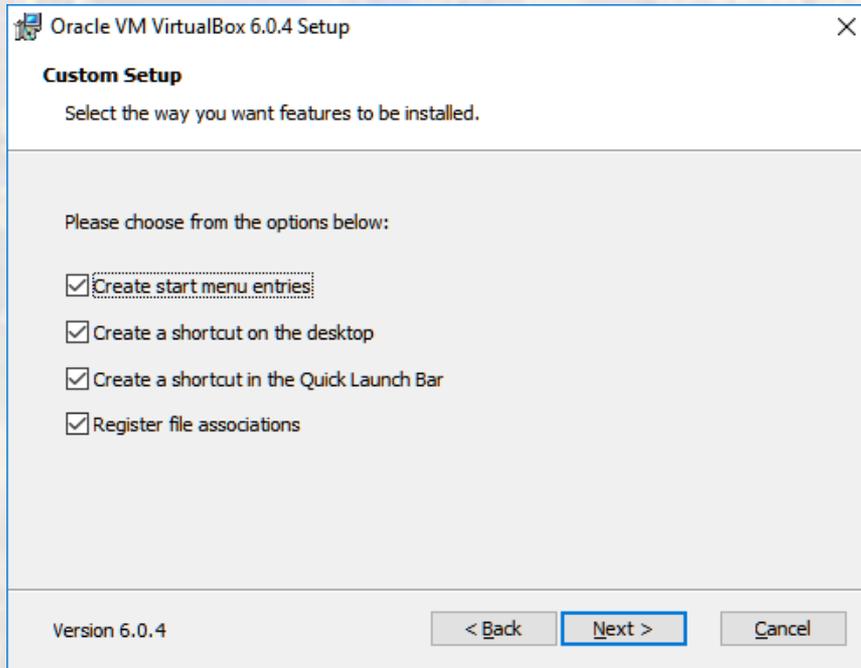
Select Next



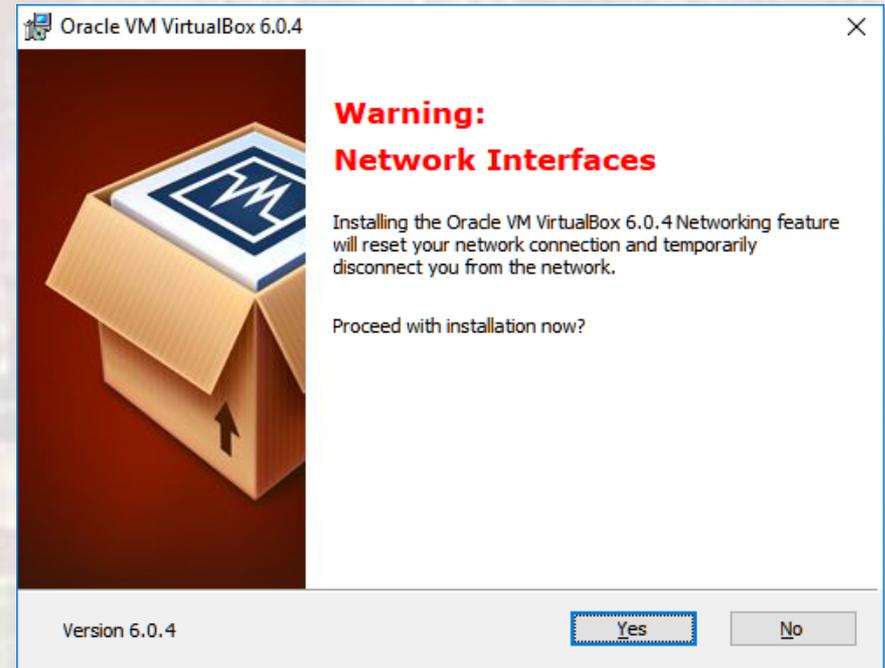
Leave the defaults  
Select Next

# Ubuntu SW Setup

- VirtualBox



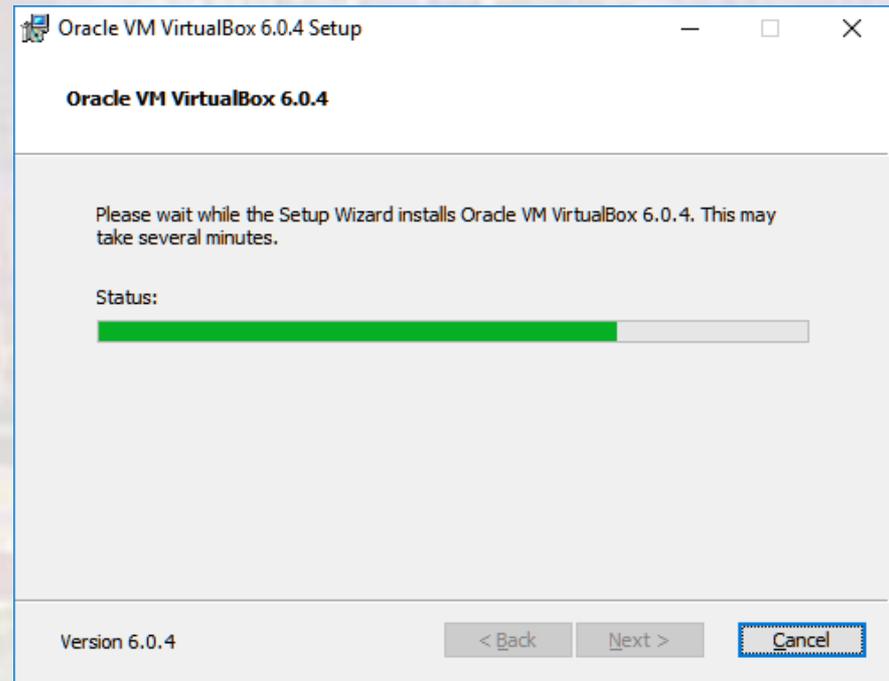
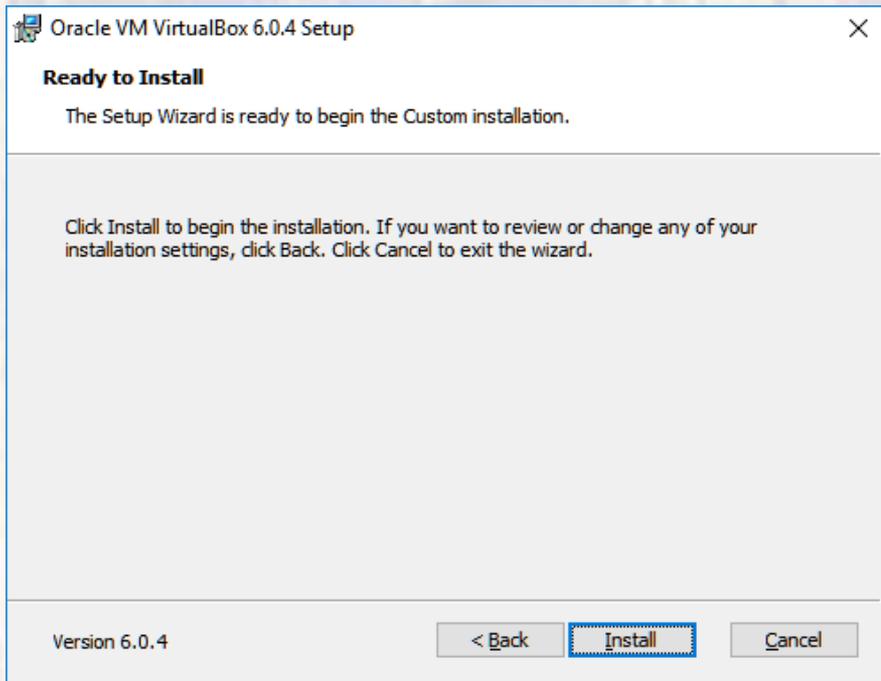
Select Next



Select Yes

# Ubuntu SW Setup

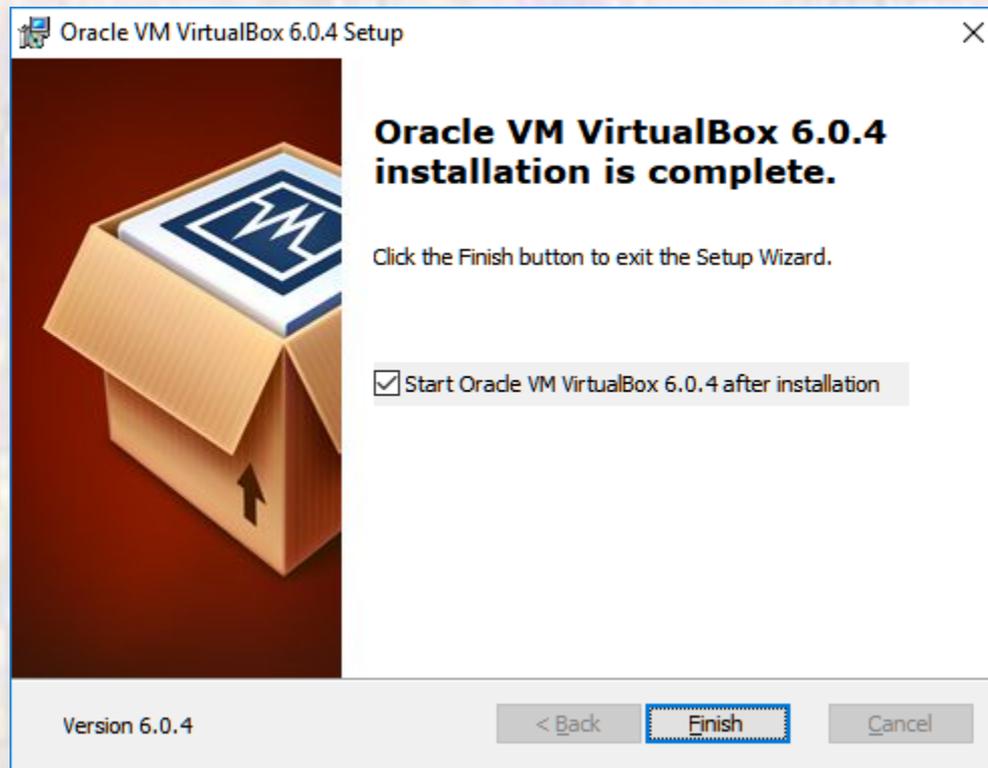
- VirtualBox



Select Install

# Ubuntu SW Setup

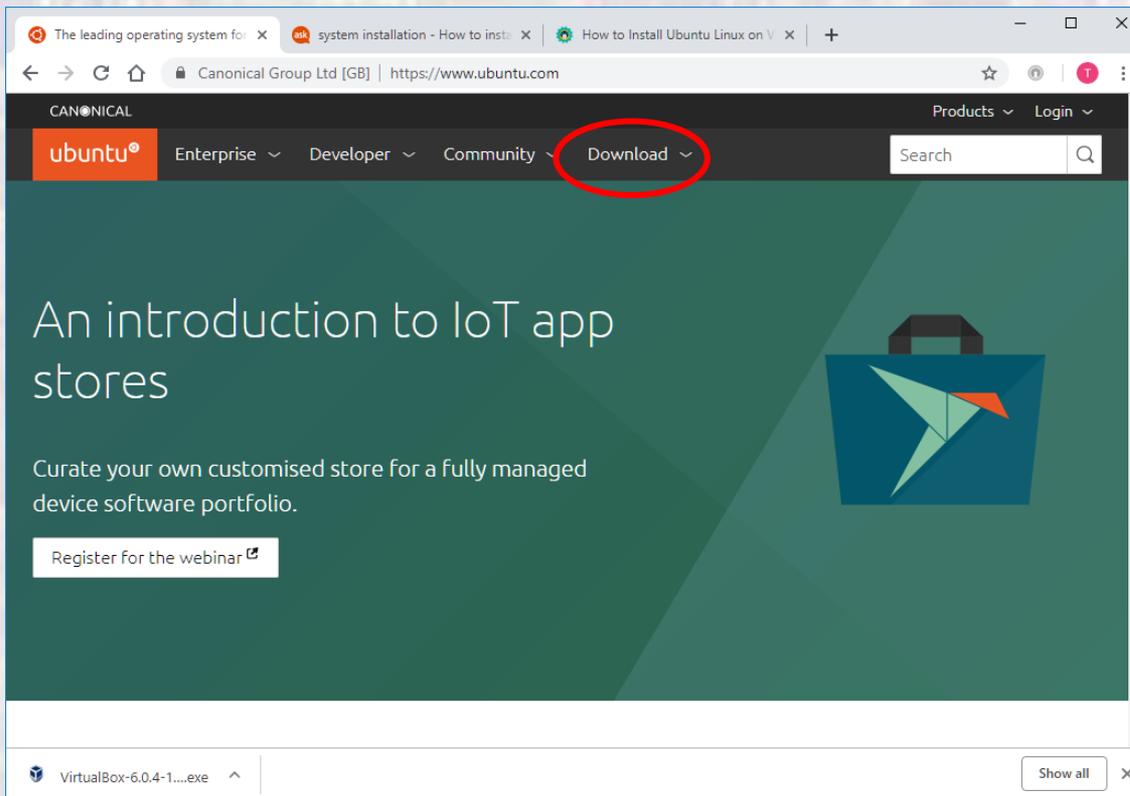
- VirtualBox



Finish

# Ubuntu SW Setup

- Linux
  - [www.ubuntu.com](http://www.ubuntu.com)
  - Download



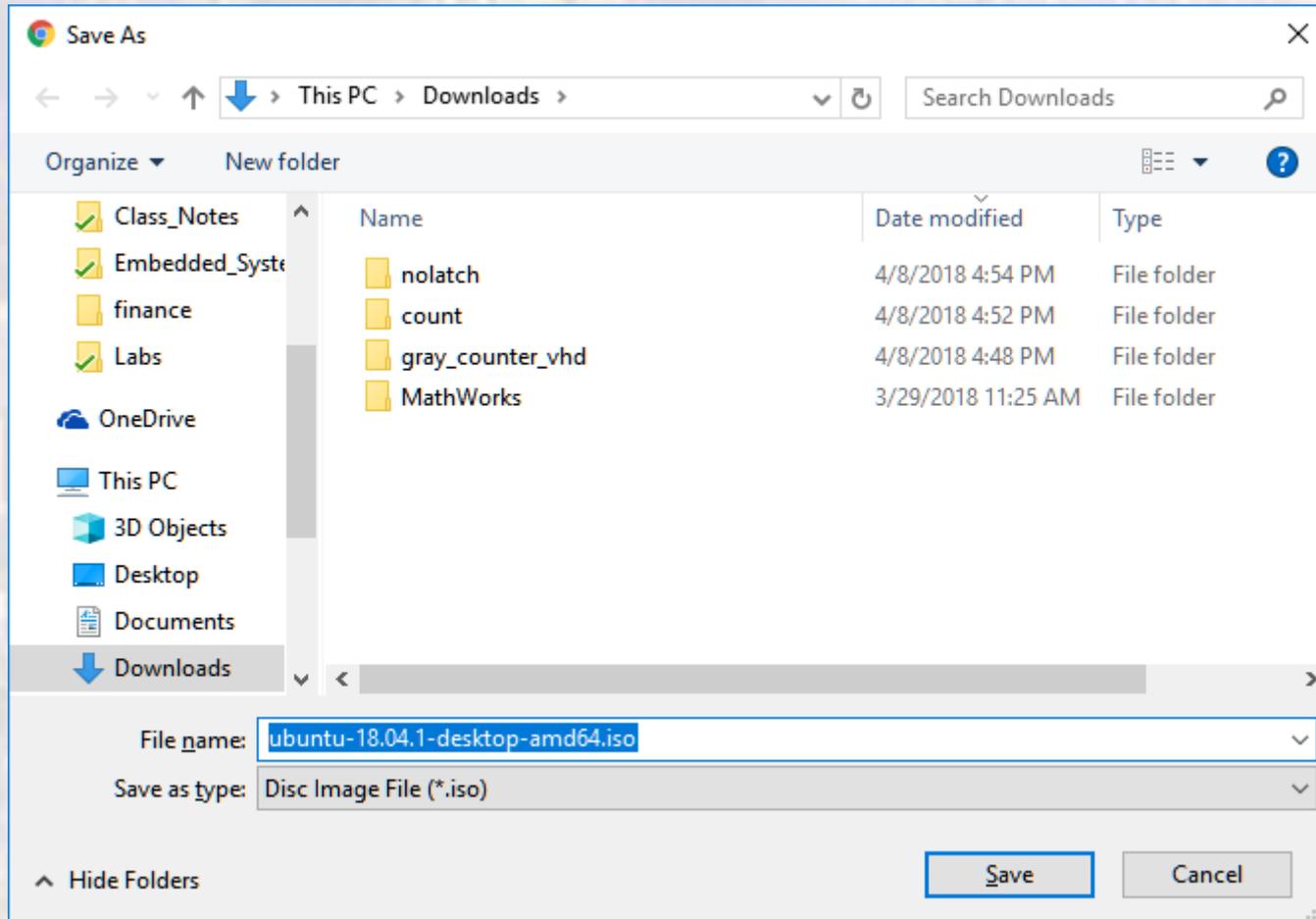
# Ubuntu SW Setup

- Linux
  - Ubuntu Desktop

The screenshot shows the Ubuntu website's download page. The browser's address bar displays 'Canonical Group Ltd [GB] | https://www.ubuntu.com/#download'. The navigation menu includes 'ubuntu', 'Enterprise', 'Developer', 'Community', 'Download', and 'Search'. The main content area is divided into four columns: 'Ubuntu Desktop', 'Ubuntu Server', 'Ubuntu for IoT', and 'Ubuntu Cloud'. Under 'Ubuntu Desktop', there are two buttons: a green '18.04 LTS' button (circled in red) and a white '18.10' button. Below these buttons is a link that says 'Use the traditional installer'.

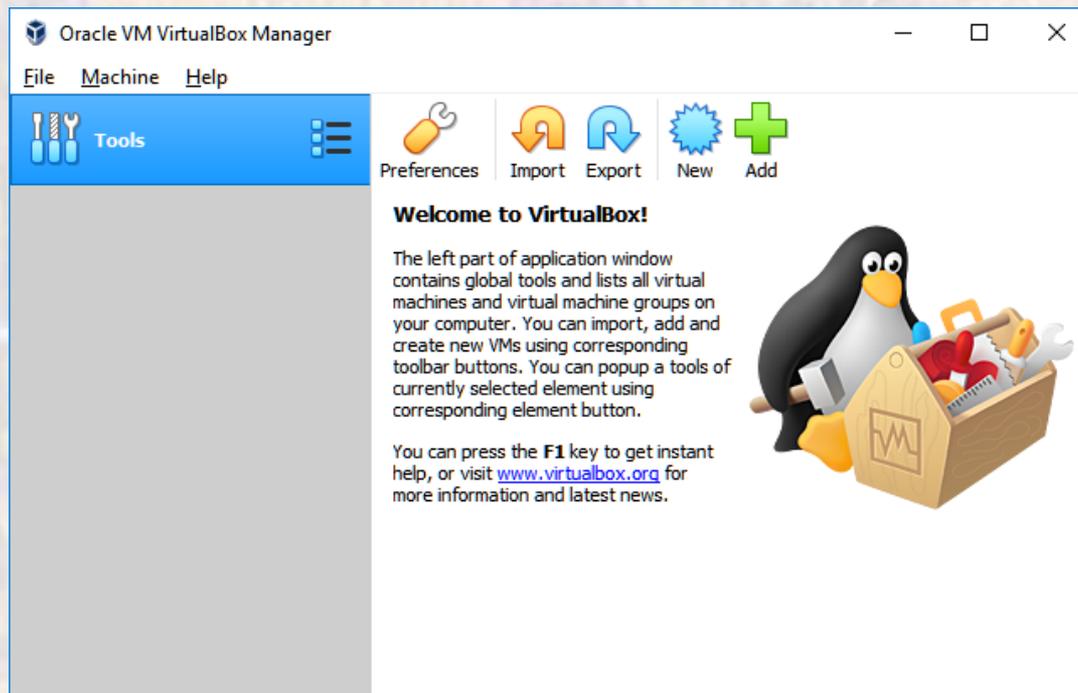
# Ubuntu SW Setup

- Linux
  - Save the iso file in the downloads folder



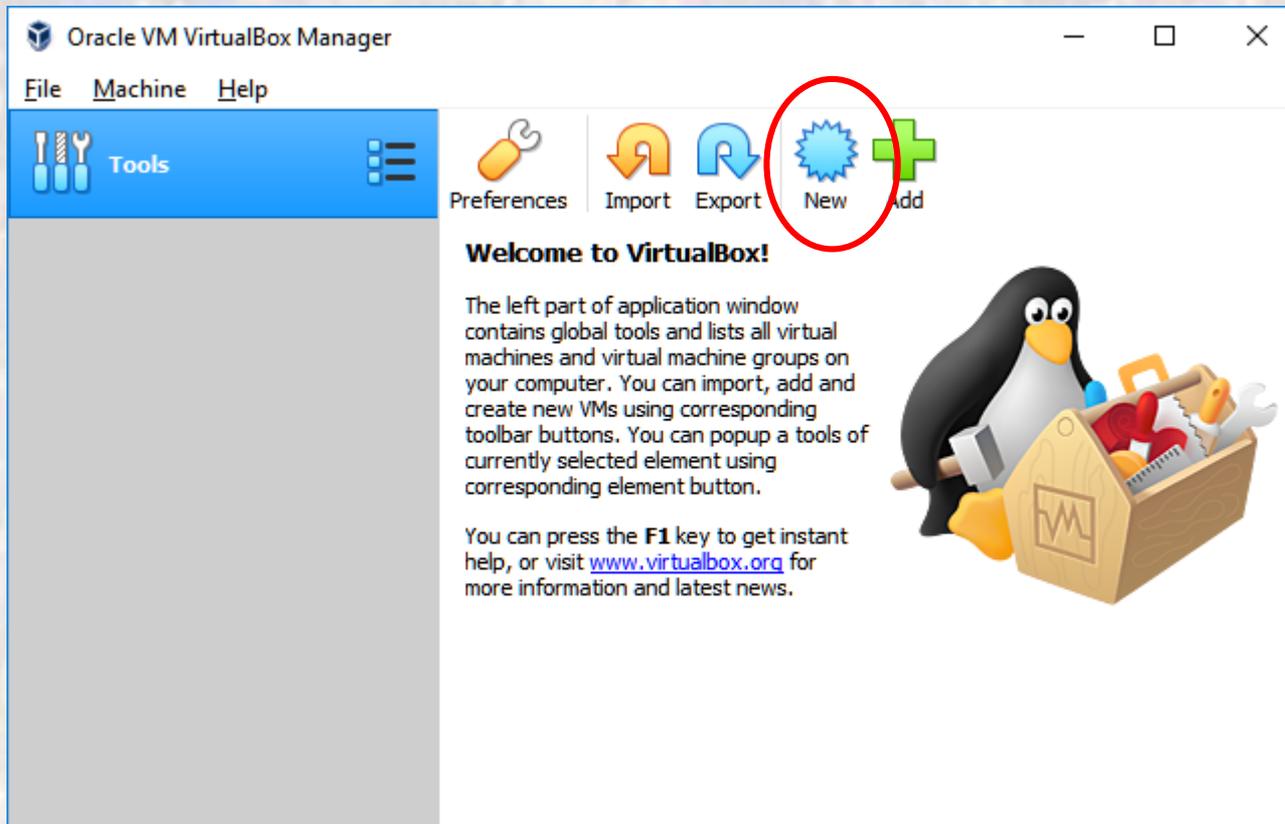
# Ubuntu SW Setup

- VirtualBox
  - Open Oracle VM VirtualBox
    - Should be on your desktop



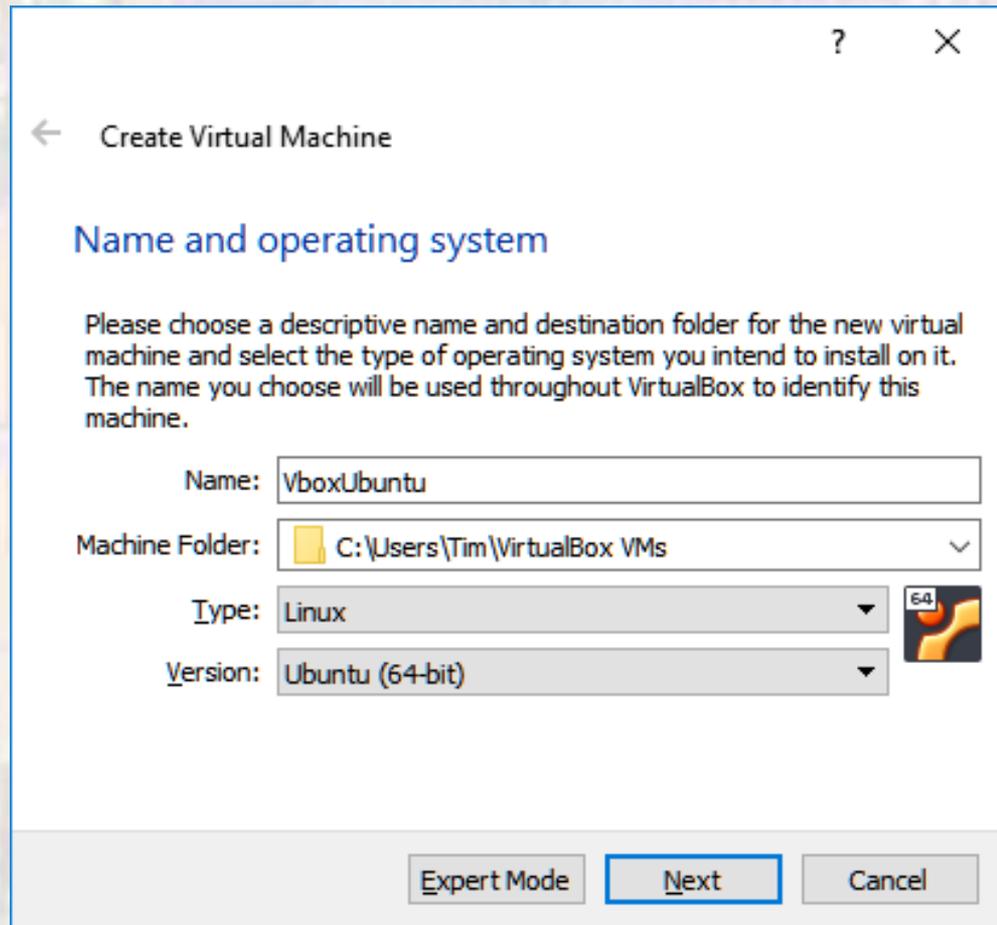
# Ubuntu SW Setup

- VirtualBox
  - Select New



# Ubuntu SW Setup

- VirtualBox
  - Provide a name
  - Default location
  - Linux
  - Ubuntu(64bit)



← Create Virtual Machine

### Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

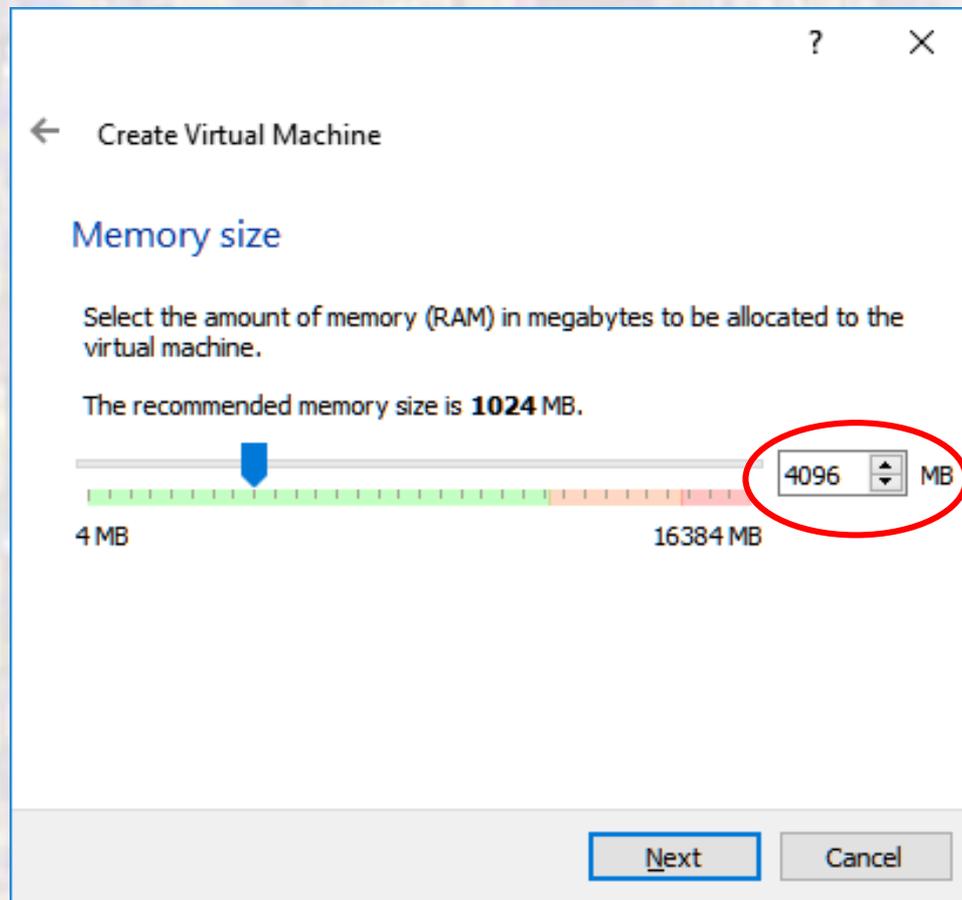
Machine Folder:

Type:  

Version:

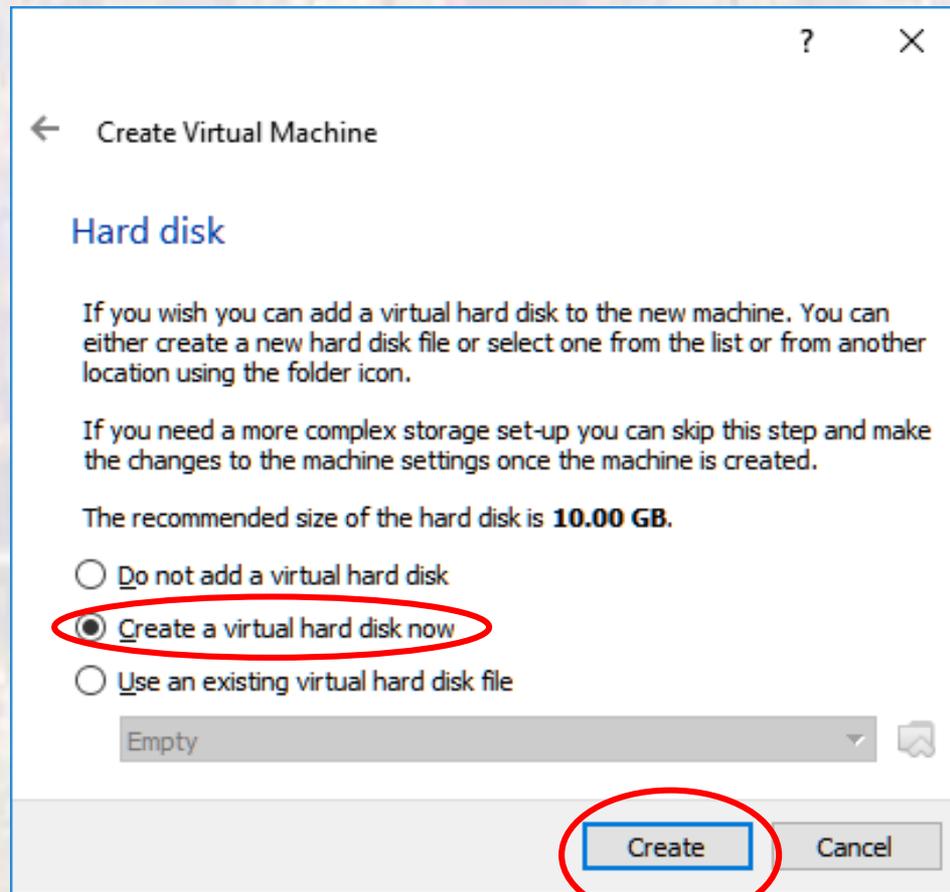
# Ubuntu SW Setup

- VirtualBox
  - Select 4GB (4096 MB)



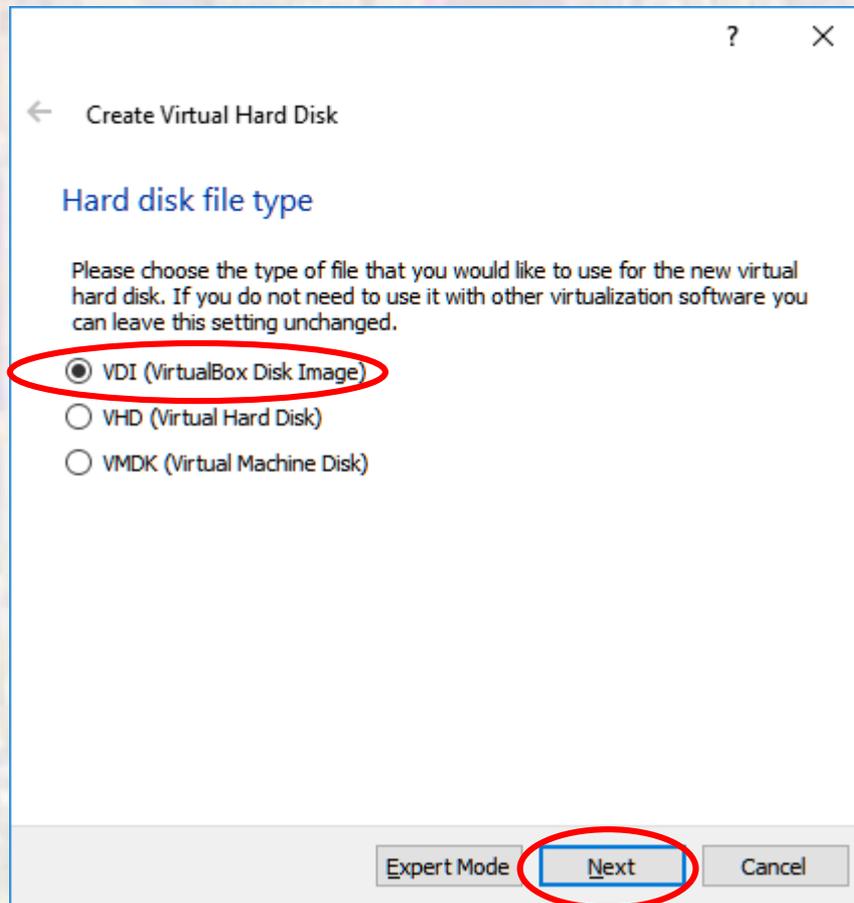
# Ubuntu SW Setup

- VirtualBox
  - Select - Create a virtual hard disk now
  - Create



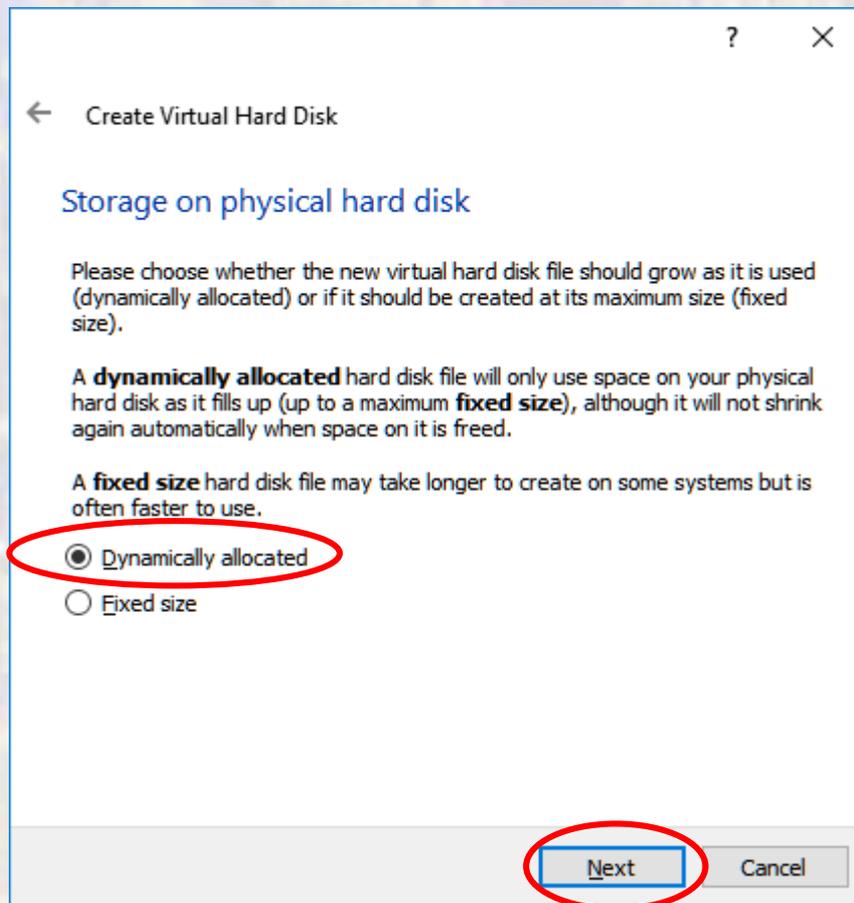
# Ubuntu SW Setup

- VirtualBox
  - Select - VDI
  - Next



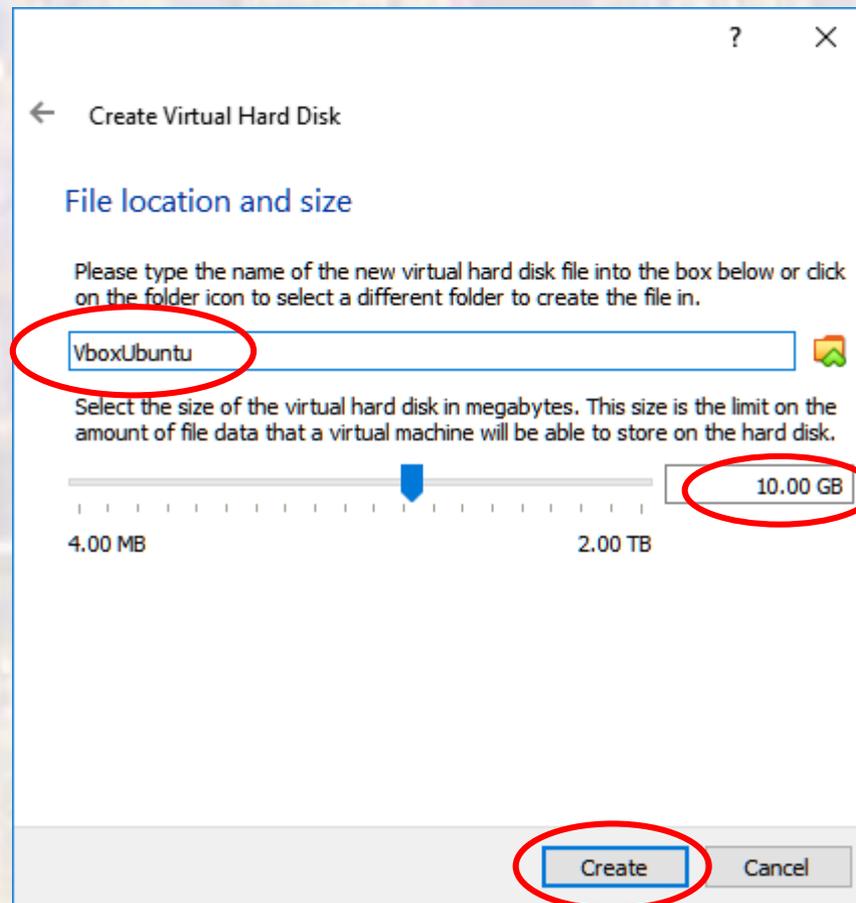
# Ubuntu SW Setup

- VirtualBox
  - Select – Dynamically allocated
  - Next



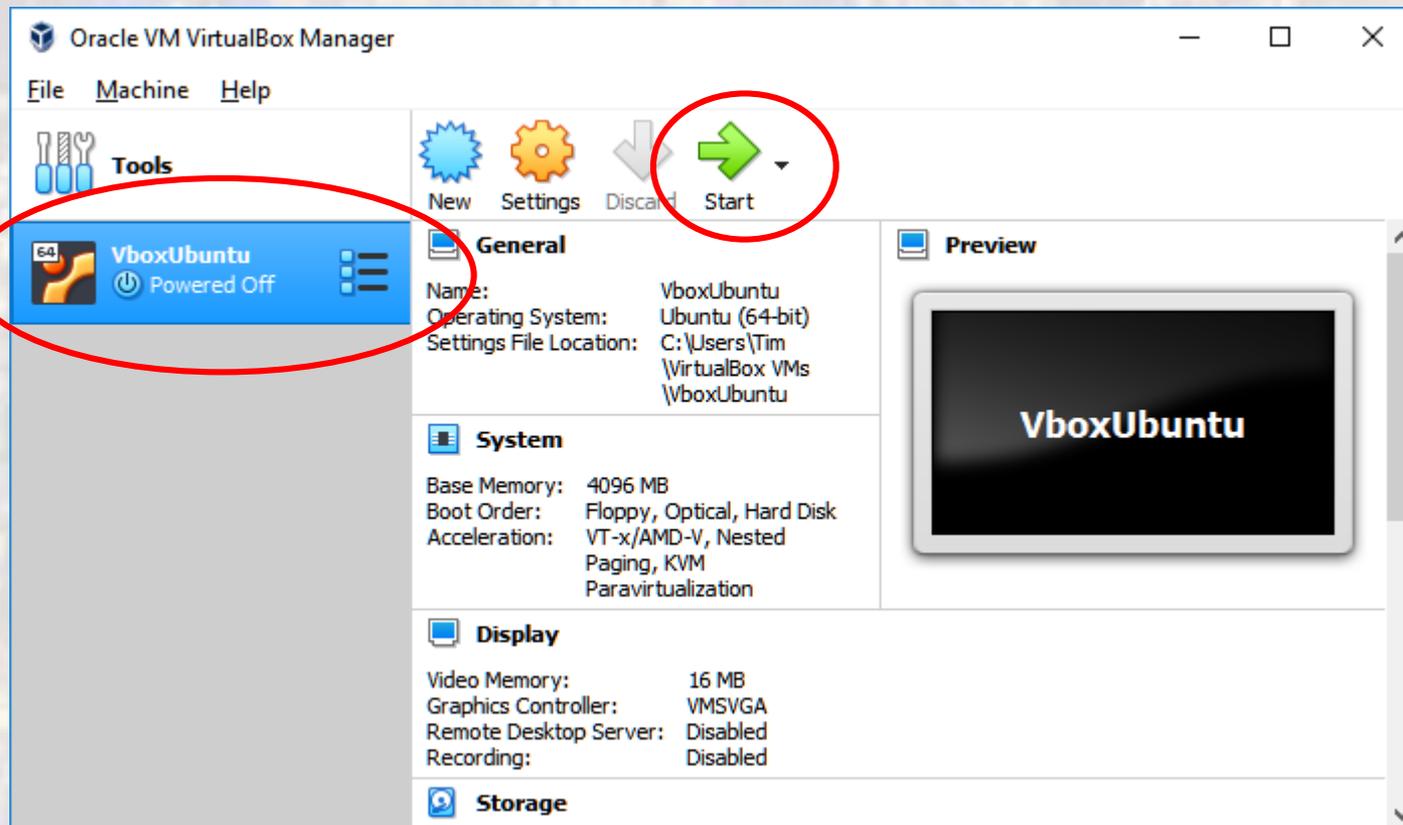
# Ubuntu SW Setup

- VirtualBox
  - Leave the defaults
  - Create



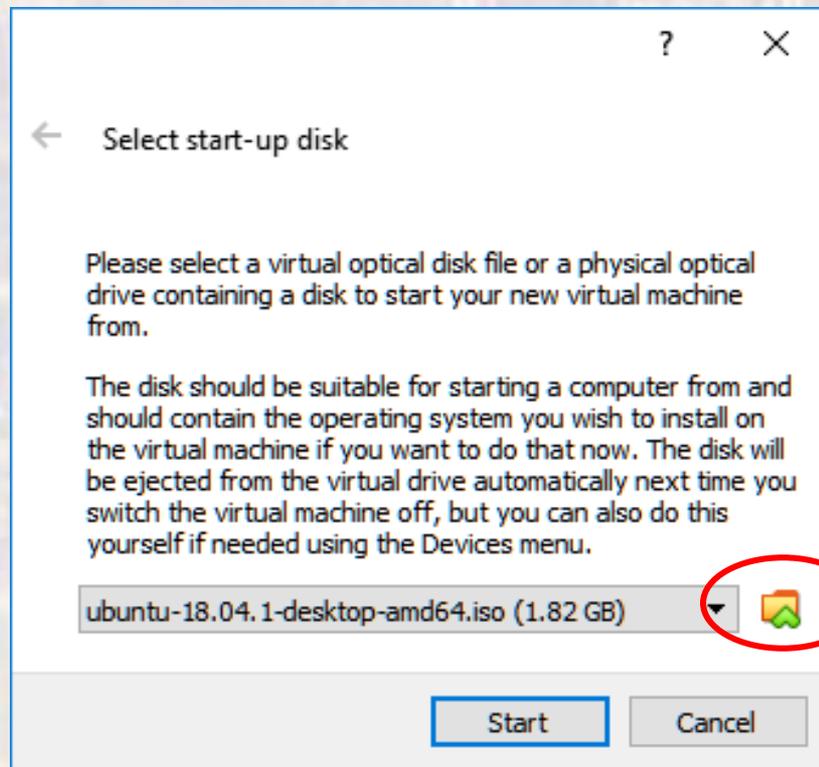
# Ubuntu SW Setup

- VirtualBox
  - Your Virtual machine is now visible – single click it
  - Select Start



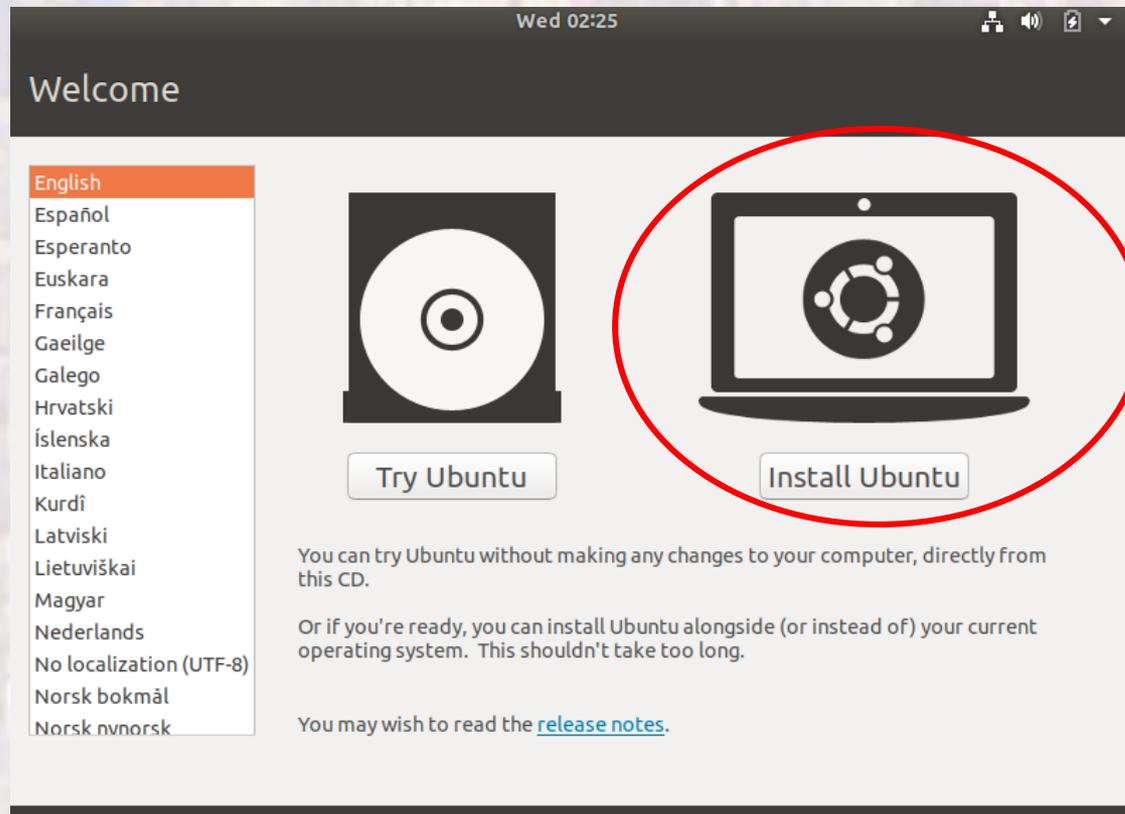
# Ubuntu SW Setup

- VirtualBox
  - Navigate to the downloads folder
  - Select the iso file you downloaded earlier
  - Select Start



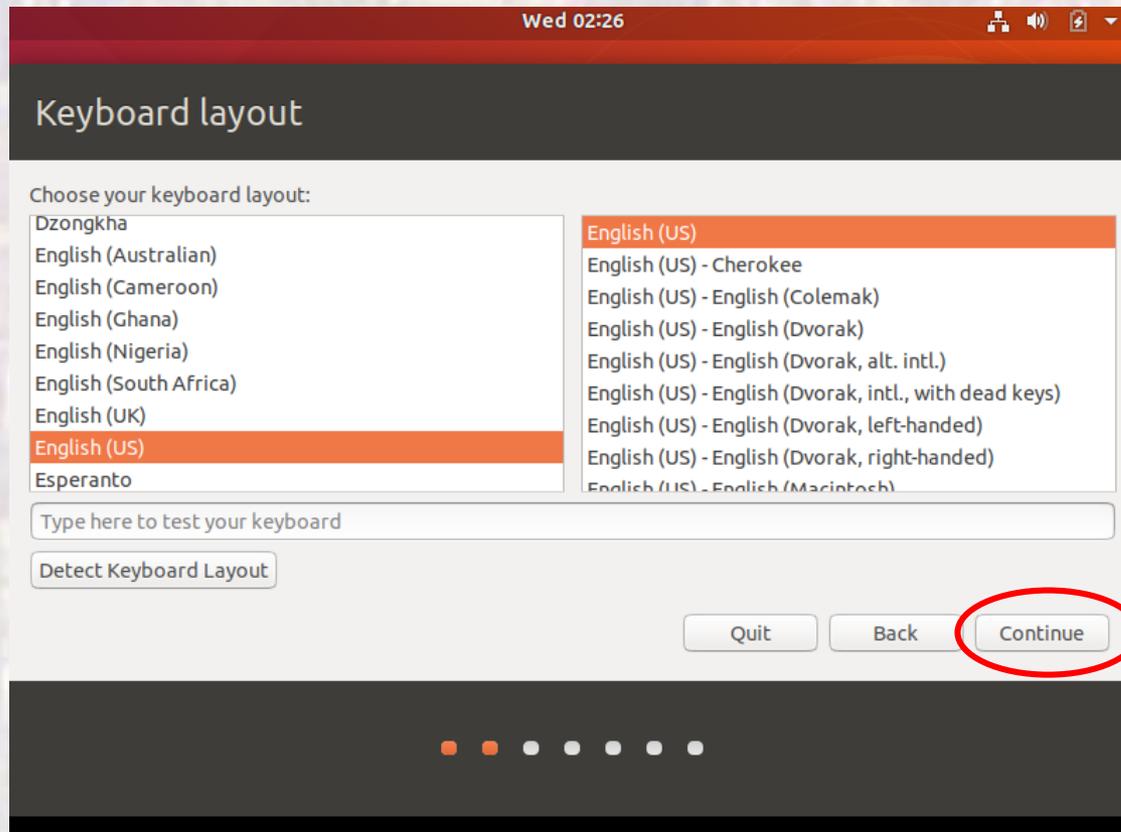
# Ubuntu SW Setup

- VirtualBox
  - Select Install Ubuntu



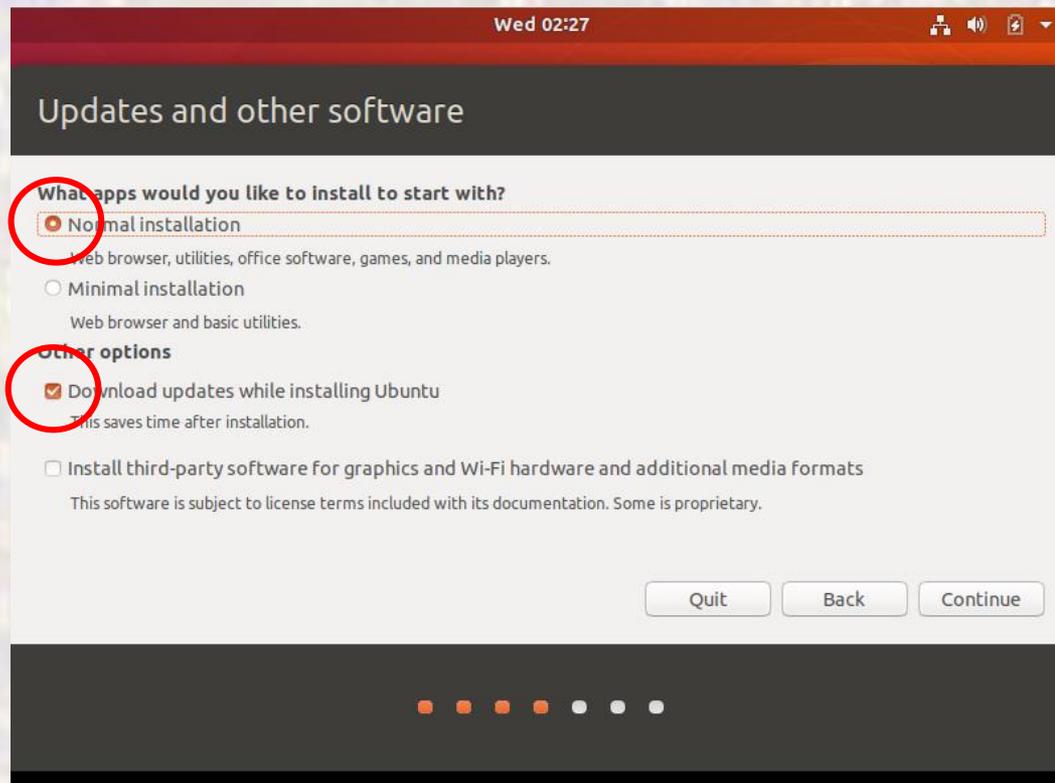
# Ubuntu SW Setup

- VirtualBox
  - English
  - Continue



# Ubuntu SW Setup

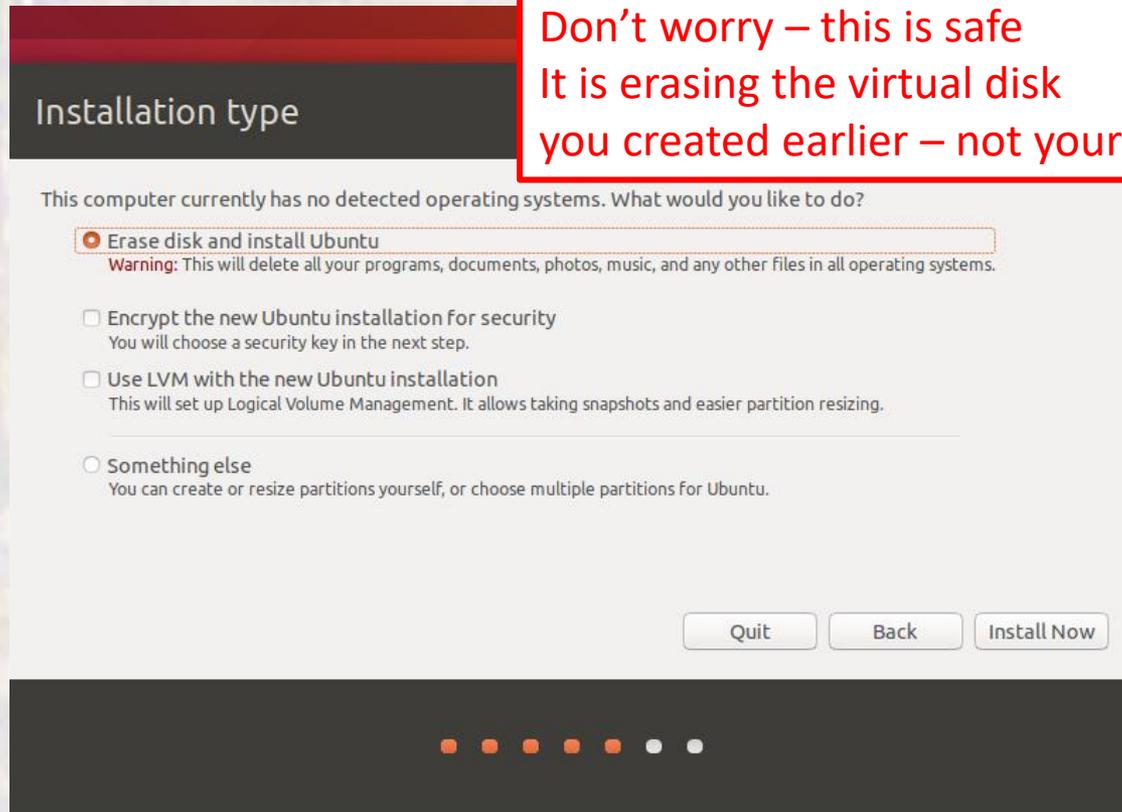
- VirtualBox
  - Normal Installation
  - Download updates
  - Continue



# Ubuntu SW Setup

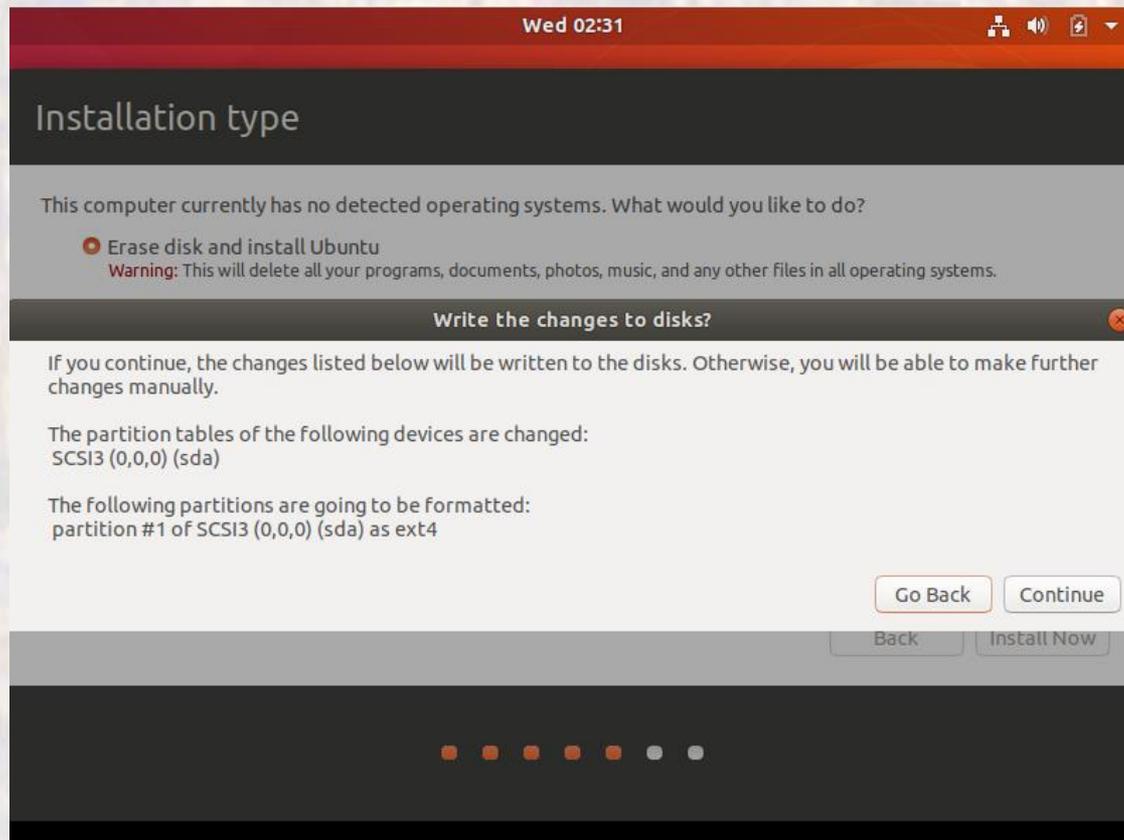
- VirtualBox
  - Erase disk and install Ubuntu
  - Install Now

This is VERY SCARY  
Don't worry – this is safe  
It is erasing the virtual disk  
you created earlier – not your Windows disk(s)



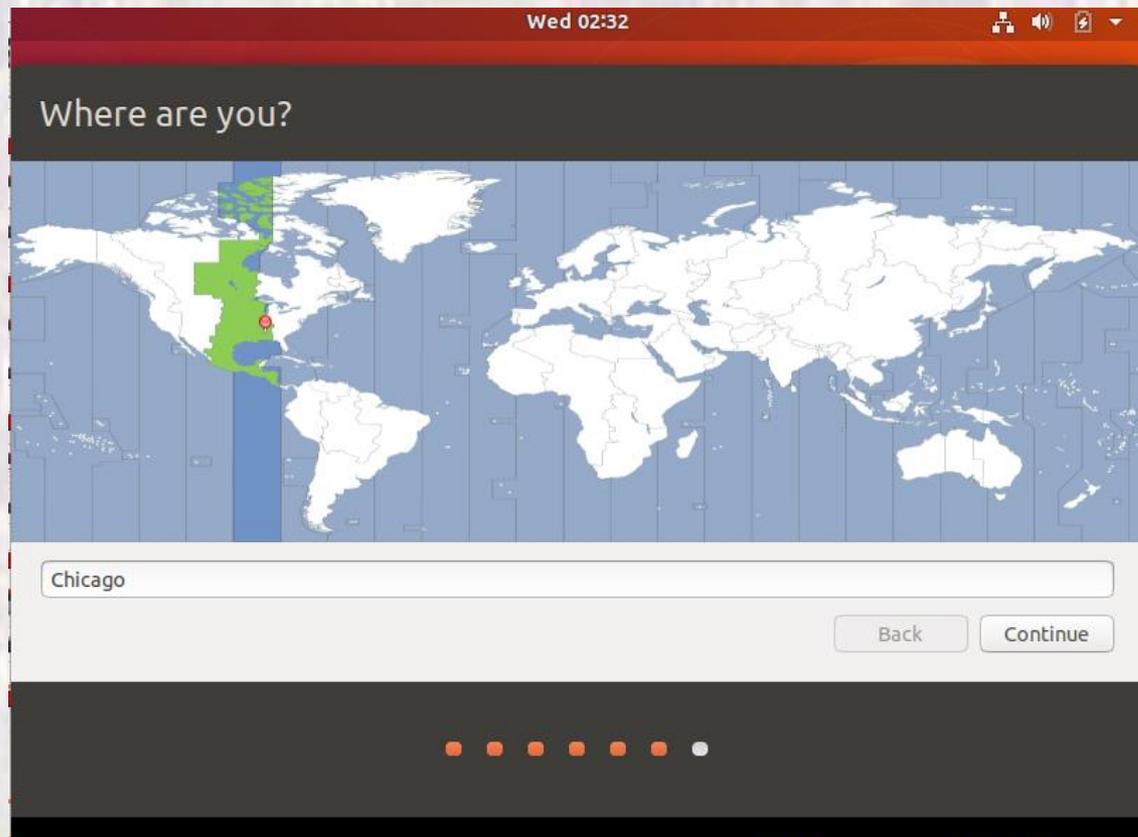
# Ubuntu SW Setup

- VirtualBox
- Continue



# Ubuntu SW Setup

- VirtualBox
  - Select your time zone
  - Continue



# Ubuntu SW Setup

- VirtualBox
  - Choose a name
  - Set the password
  - Continue

Tue 20:35

## Who are you?

Your name:  ✓

Your computer's name:  ✓  
The name it uses when it talks to other computers.

Pick a username:  ✓

Choose a password:  **Strong password**

Confirm your password:  ✓

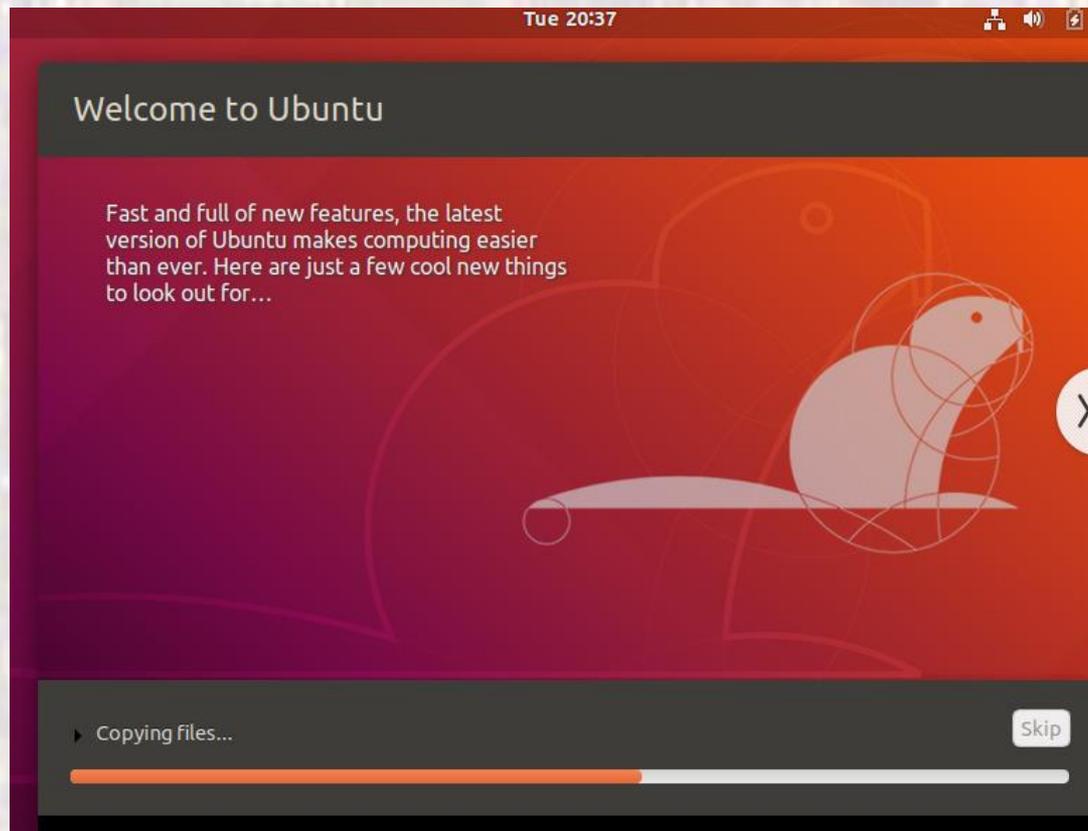
Log in automatically  
 Require my password to log in

● ● ● ● ● ● ● ●

This is the name and password you will use to login to Ubuntu

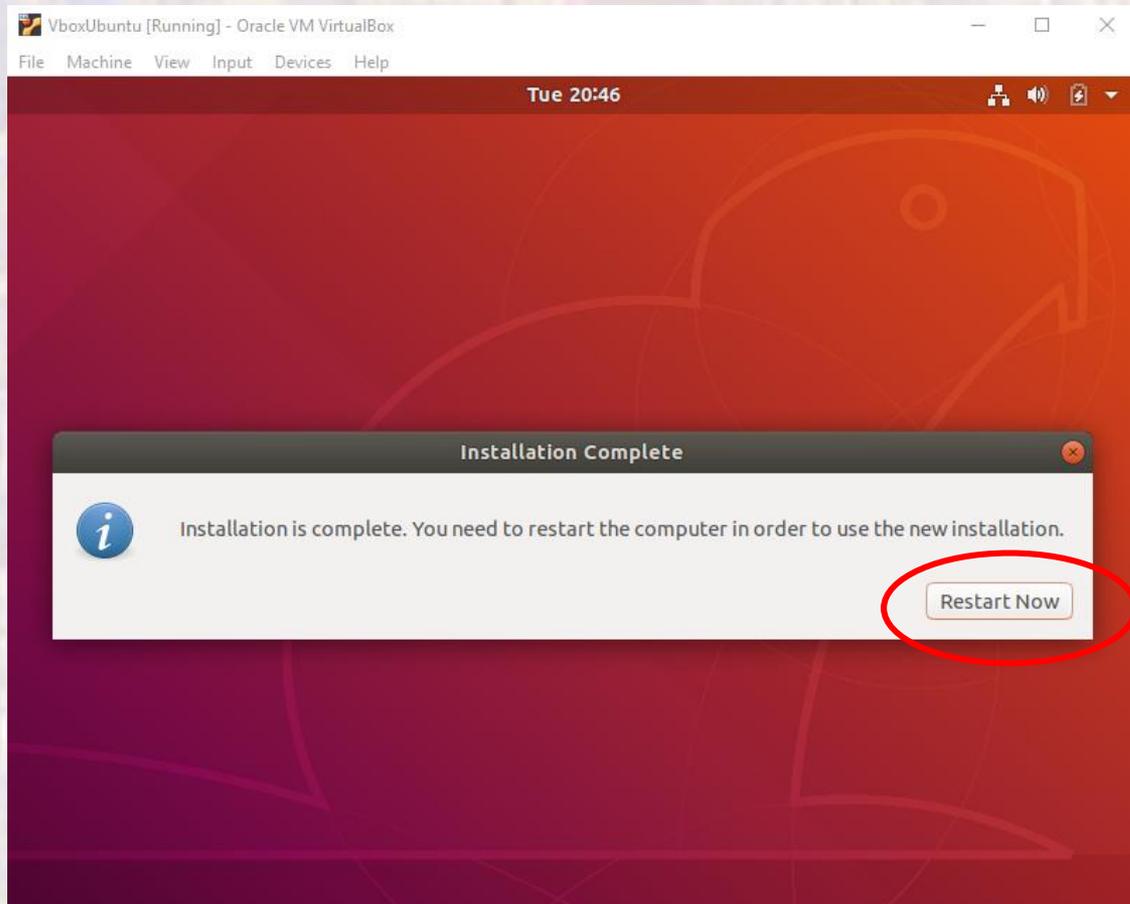
# Ubuntu SW Setup

- VirtualBox



# Ubuntu SW Setup

- VirtualBox
  - Restart – restarts the VM, not your computer

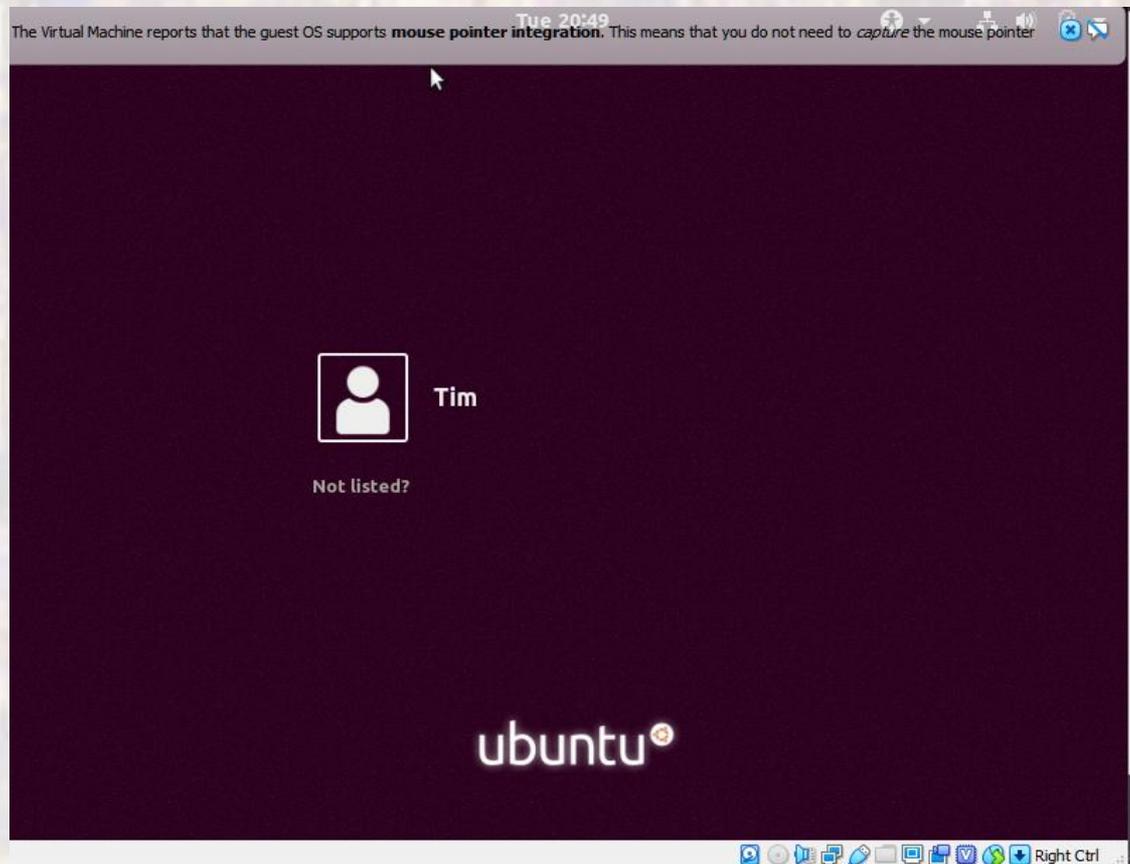


# Ubuntu SW Setup

- VirtualBox
  - Delete the iso file in downloads when prompted

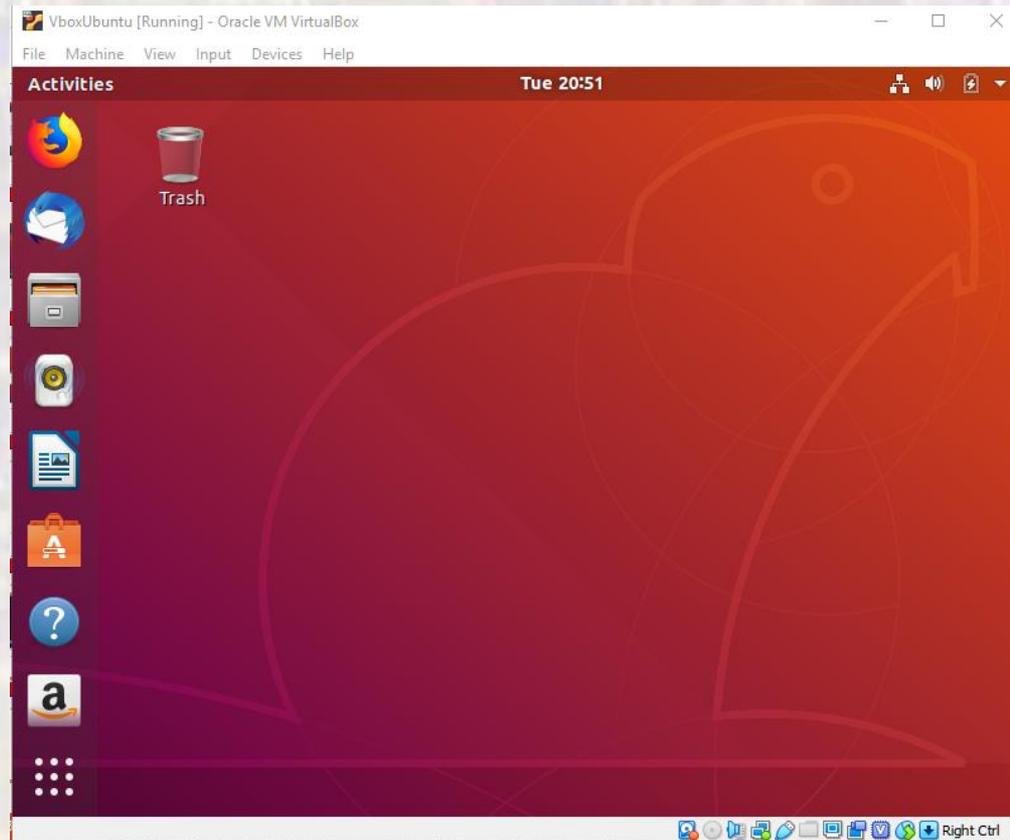
# Ubuntu SW Setup

- VirtualBox
  - Select your name and enter your password



# Ubuntu SW Setup

- VirtualBox
  - Cycle through the start windows
  - Install updates if prompted



# Ubuntu SW Setup

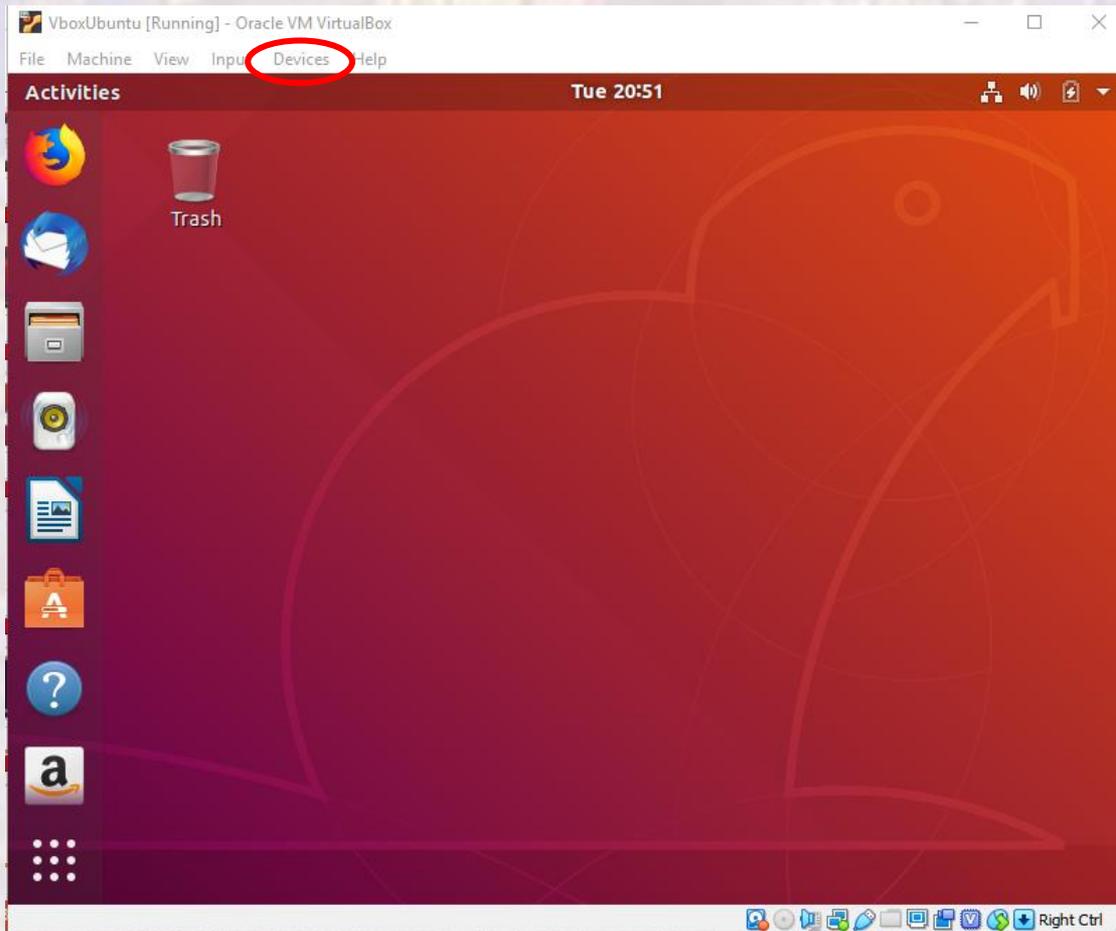
- VirtualBox
  - Exit
  - Restart

# Ubuntu SW Setup

- VirtualBox
  - In Ubuntu open a new terminal (ctrl+alt+t)
  - Type the following – (note uname is the user name you gave yourself)  
(You will be asked to login)  
sudo apt-get install linux-headers-\$(uname -r)  
sudo apt-get install build-essential  
sudo apt-get install dkms
- Reboot

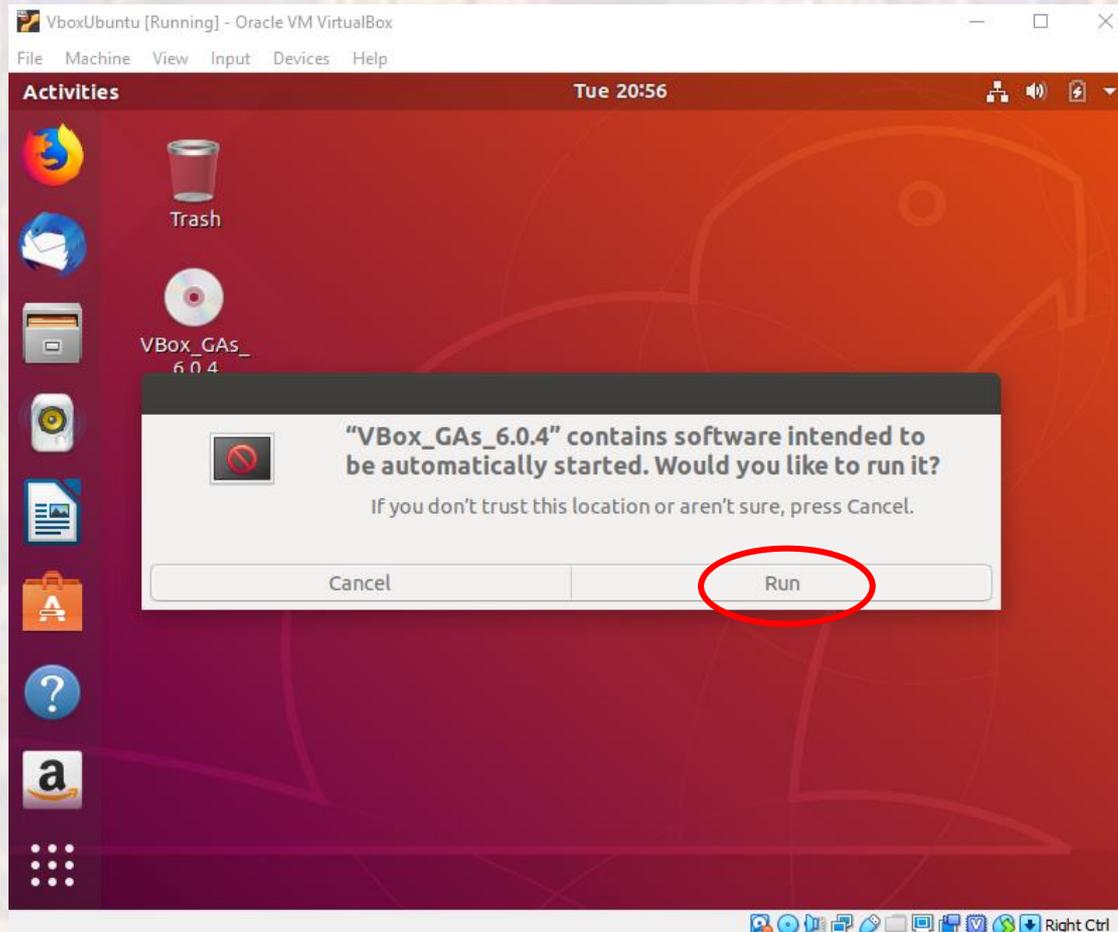
# Ubuntu SW Setup

- VirtualBox
  - Select Devices → Insert Guest Additions CD Image



# Ubuntu SW Setup

- VirtualBox
- Run



# Ubuntu SW Setup

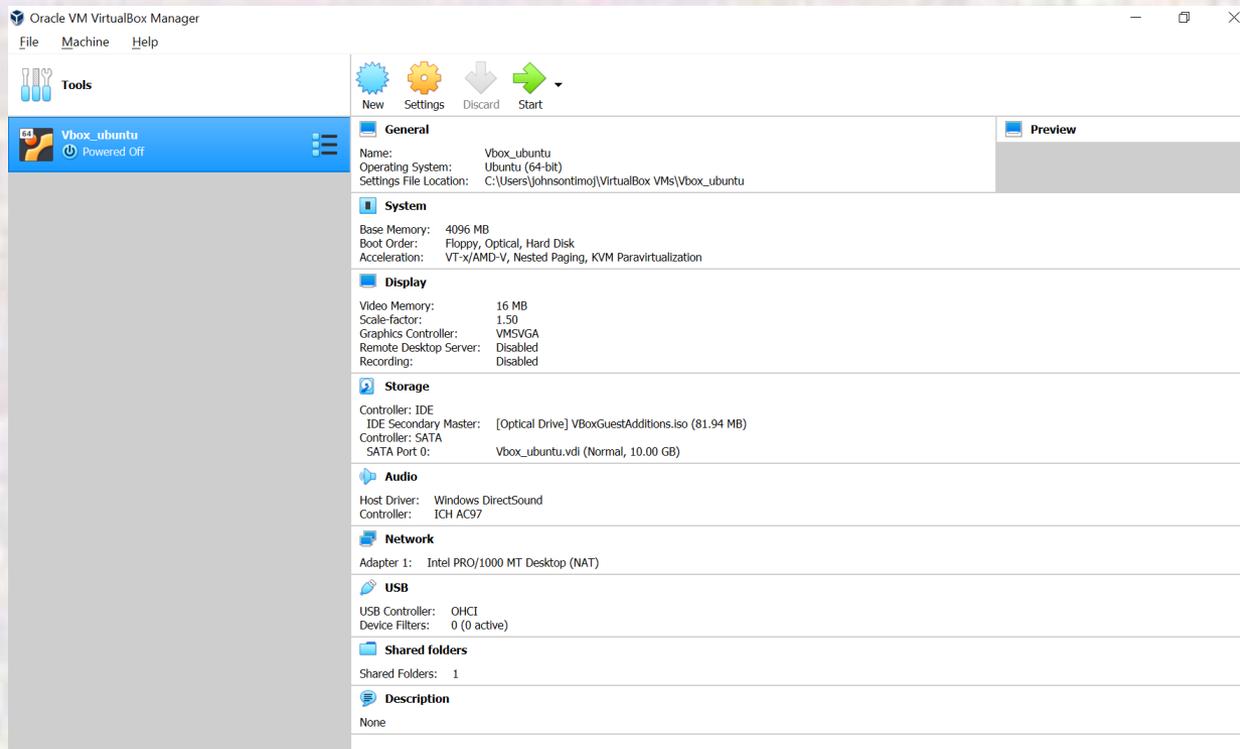
- VirtualBox
  - Authenticate using your password

# Ubuntu SW Setup

- VirtualBox
  - You now have a fully functioning Ubuntu virtual machine
  - Exit out of Ubuntu
  - Exit out of VirtualBox

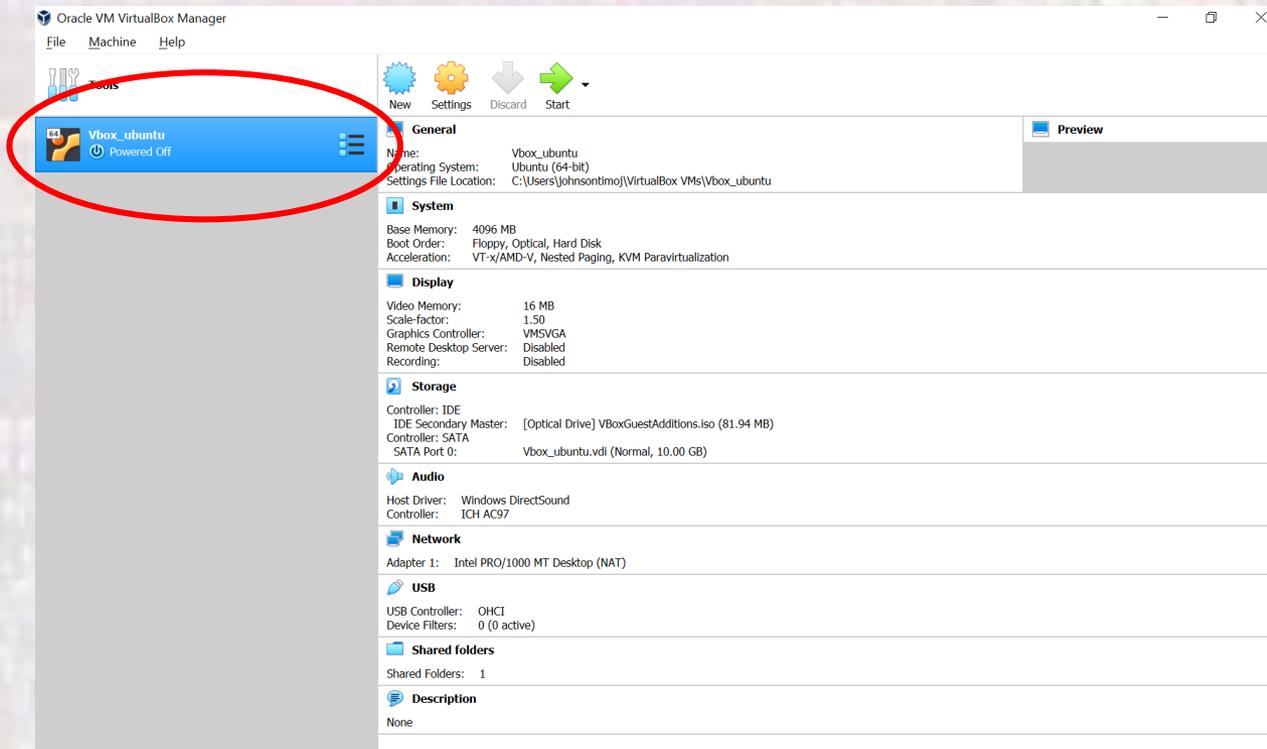
# Ubuntu SW Setup

- Starting Ubuntu
  - To start the machine first start Oracle VM VirtualBox



# Ubuntu SW Setup

- Starting Ubuntu
  - Double click on your machine



# Ubuntu SW Setup

- Starting Ubuntu
  - Login

