

POSTLAB ASSIGNMENT NO. 1

Steps Required to Run Ubuntu Linux On Windows 10

1. Download Oracle VirtualBox

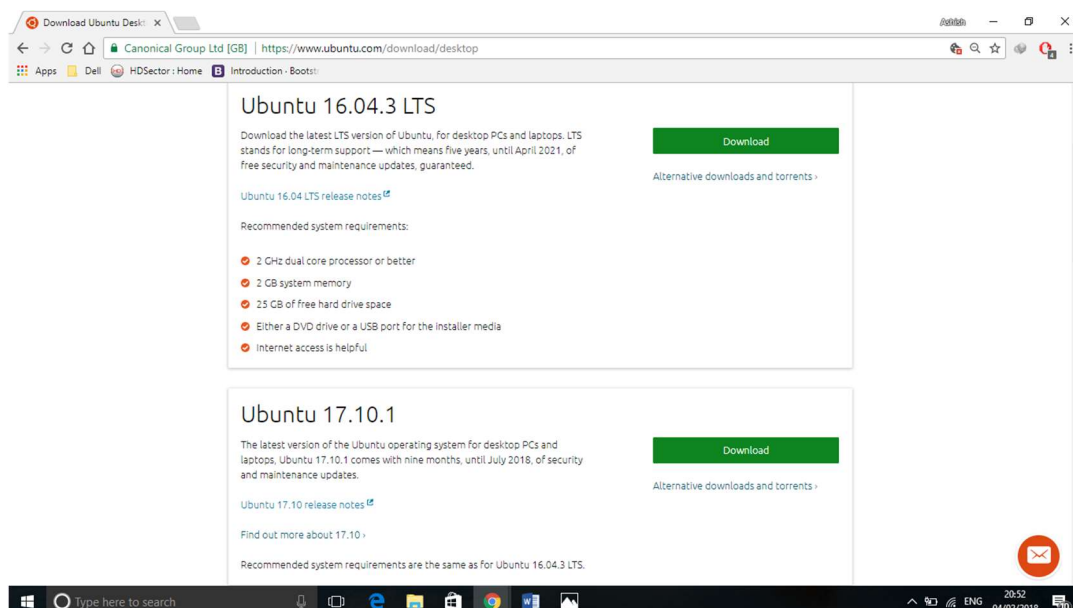
To download VirtualBox visit www.virtualbox.org and click on the large download button in the middle of the screen.



2. Download Ubuntu

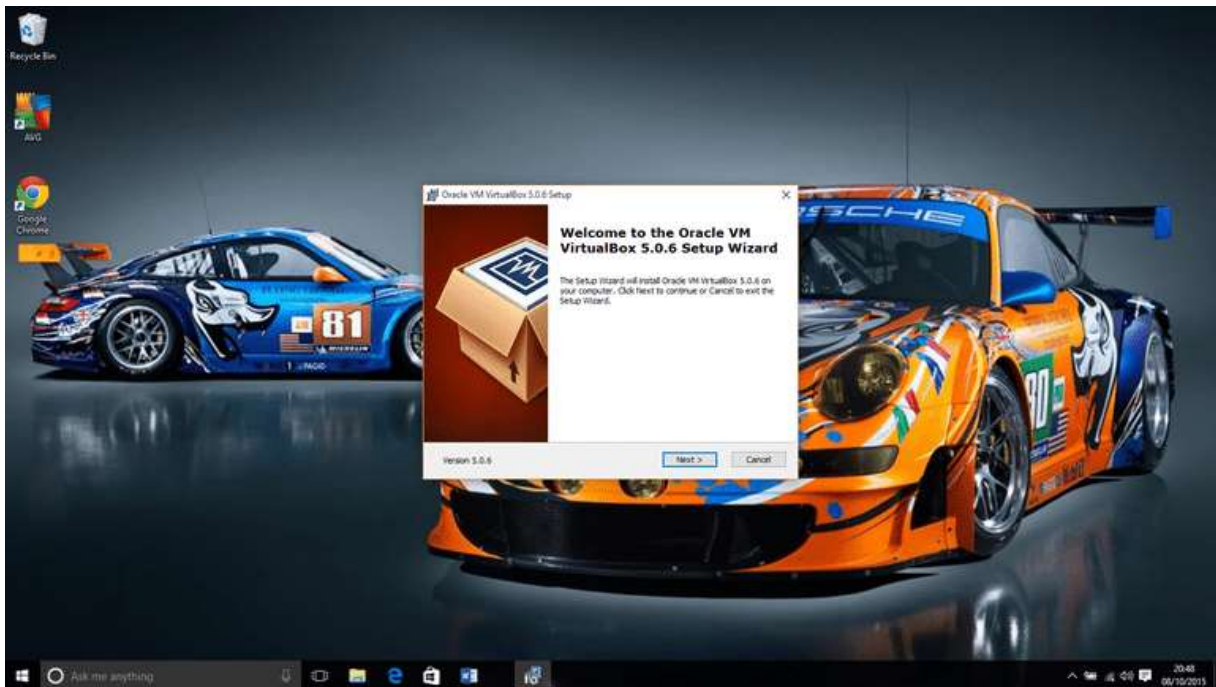
To download Ubuntu visit www.ubuntu.com/download/desktop. There are two versions of Ubuntu available:

- Ubuntu 16.04.3 LTS
- Ubuntu 17.10.1



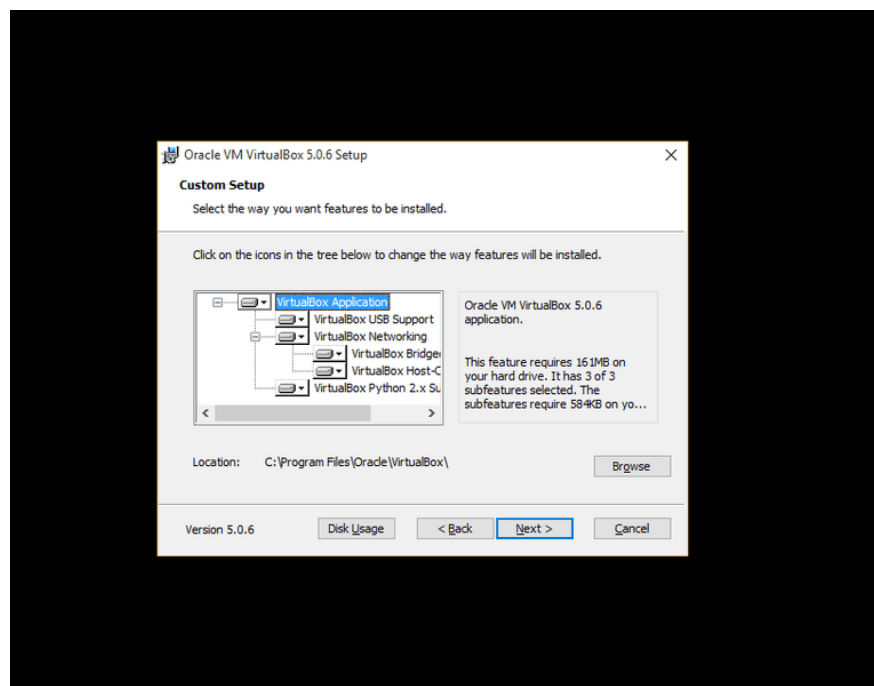
3. How to Install VirtualBox

Press the start button and search for “Downloads”. Click on the link to the “Downloads” file folder. When the downloads folder opens click on the VirtualBox application file you downloaded earlier on. The VirtualBox setup wizard will begin. Click on “Next” to start the installation.



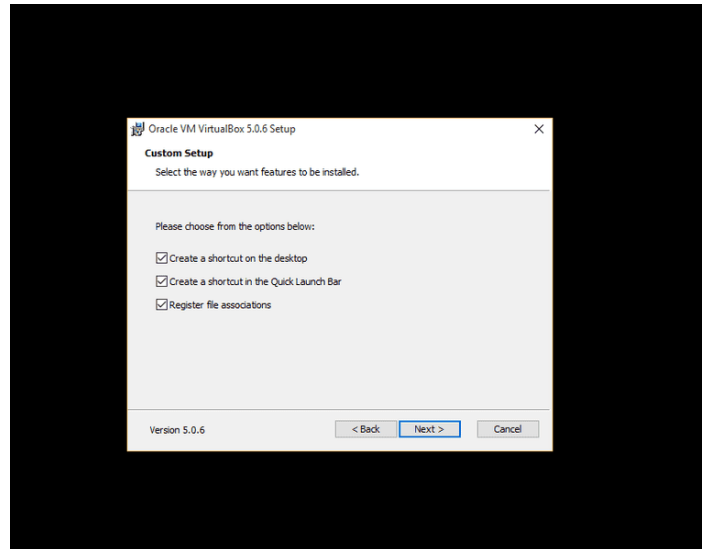
4. Where to Install VirtualBox

The next screen lets you choose the VirtualBox installation options. There is absolutely no reason not to choose the defaults unless you want to choose a different installation location in which case click on “Browse” and navigate to where you want to install VirtualBox. Click “Next” to continue.



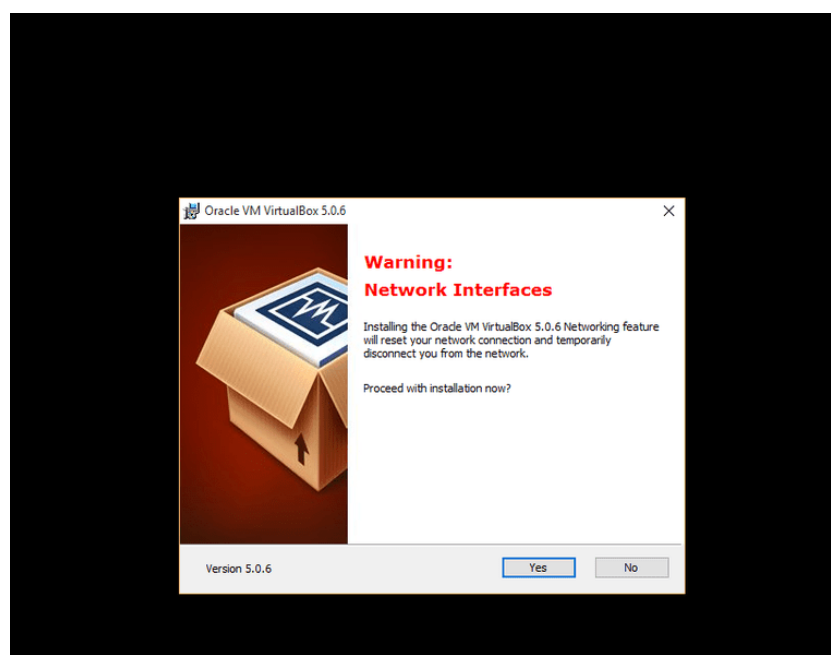
5. Create VirtualBox Desktop Icons

You now have the option to create shortcuts, either on the desktop and/or the quick launch bar and whether to register file associations such as VDI files to Virtualbox. It is up to you whether you want to create shortcuts. Windows 10 is really easy to navigate with the powerful search button so you might decide not to bother creating either of the shortcuts. Click “Next” to continue.



6. VirtualBox Warns About Resetting Your Network Connection

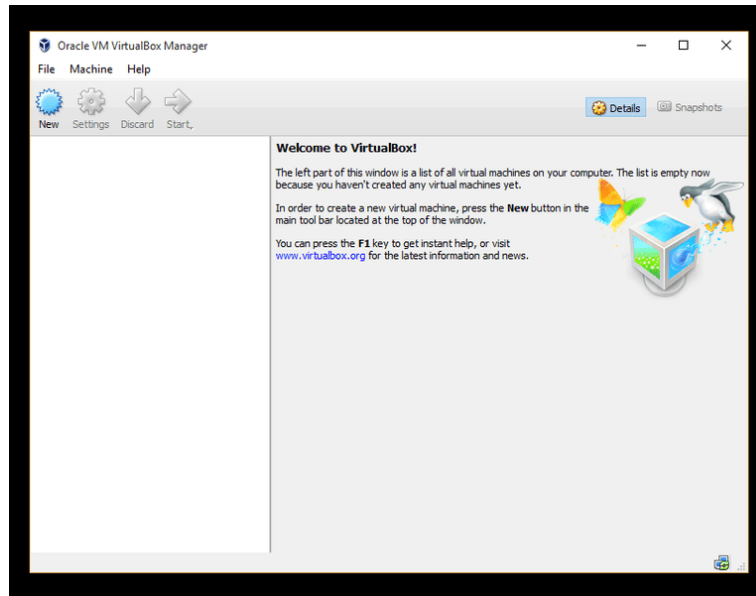
A warning will appear stating that your network connection will temporarily be reset. If this is a problem to you right now then click “No” and come back to the guide at a later stage otherwise click “Yes”.



7. Create an Ubuntu Virtual Machine

You can start VirtualBox simply by leaving the “Start Oracle VM VirtualBox after installation” checked and clicking “Finish” or for future reference click the start button and search for VirtualBox.

Click on the “New” icon on the taskbar.

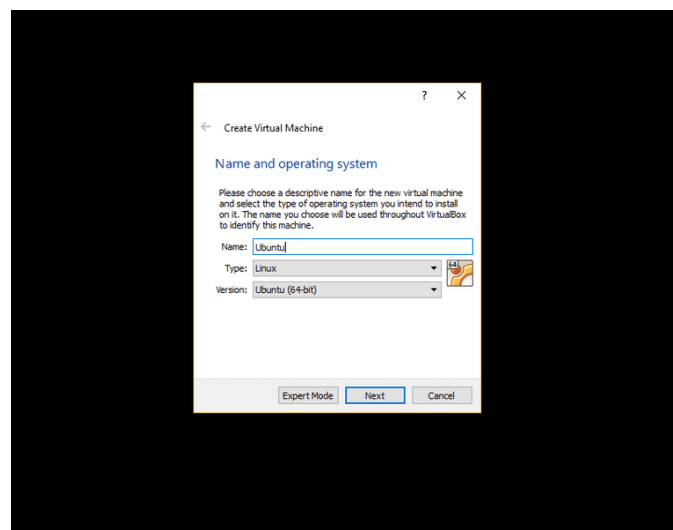


8. Choose the Type of Virtual Machine

Give your machine a name. Personally, I think it is a good idea to go for the Linux distribution name (i.e. Ubuntu) and the version number (14.04, 15.04, 15.10 etc).

Select “Linux” as the type and “Ubuntu” as the version. Make sure you choose the correct version based on whether you have a 32-bit or 64-bit machine.

Click “Next” to continue.

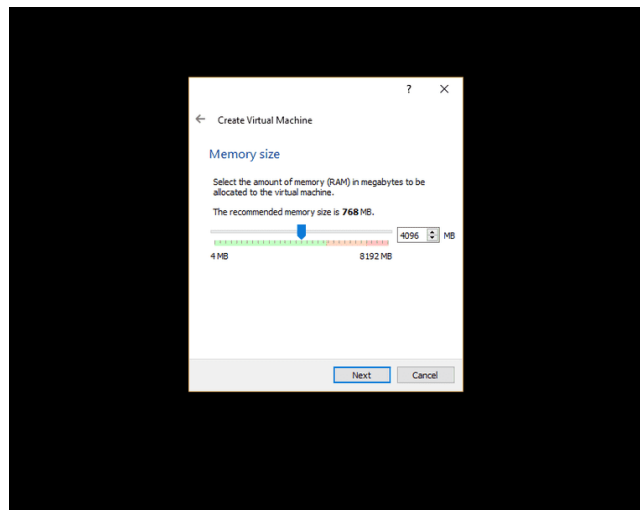


9. How Much Memory Do You Give Your Virtual Machine

You now have to choose how much of your computer's memory you will assign to the virtual machine.

You cannot assign all of your computer's memory to the virtual machine as you need to leave enough for Windows to continue running as well as any other programs that you have running within Windows.

The minimum you should consider assigning to Ubuntu is 2 gigabytes which is 2048 MB.

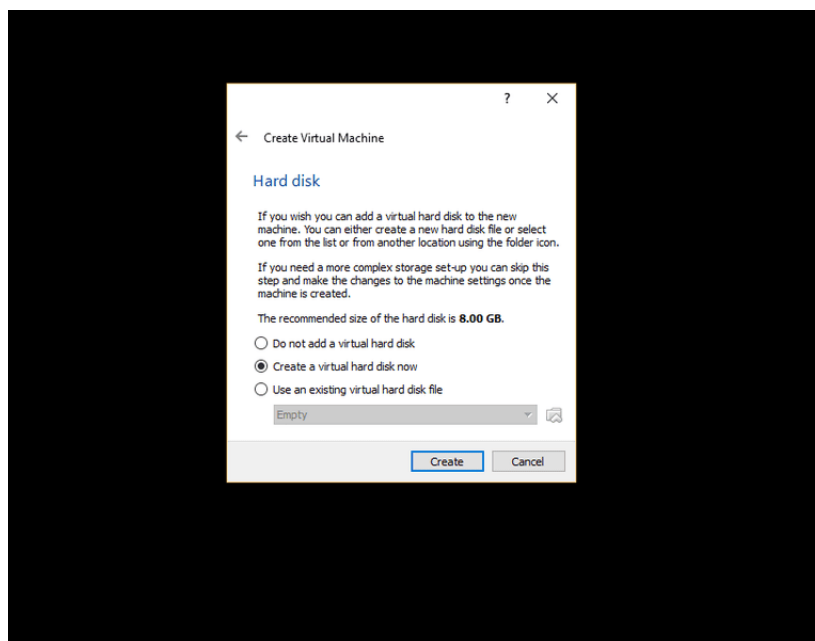


10. Create A Virtual Hard Drive

After assigning memory to the virtual machine you now have to set aside some hard drive space. Select the "Create a virtual hard disk now" option and click "Create".

There are a number of different hard drive types that you can choose from. Choose "VDI" and click "Next".

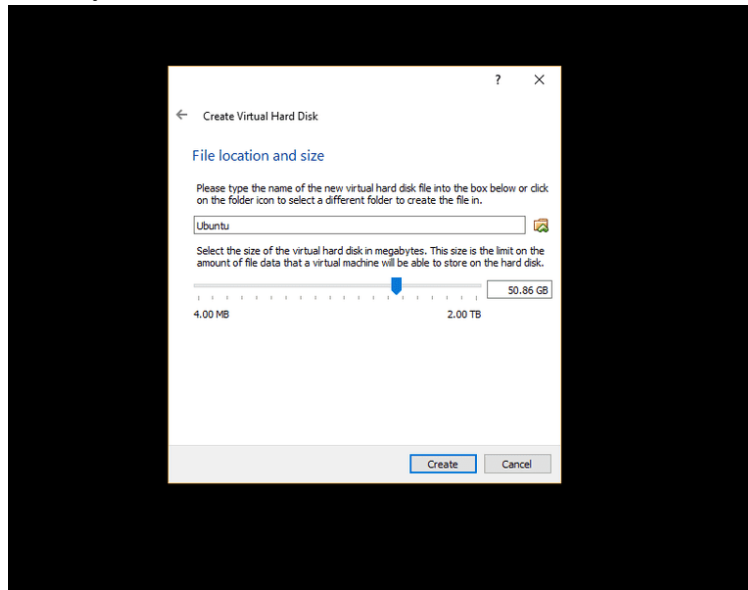
Choose the option you prefer and click "Next".



11. Set the Size of Your Virtual Hard Drive

Finally, you are at the stage of setting how much space you wish to give to Ubuntu. The minimum is about 10 gigabytes but the more you can spare the better. You don't have to go overboard though. If you are just installing Ubuntu in a virtual machine to test it out go for a smaller amount.

When you are ready click "Create" to continue.



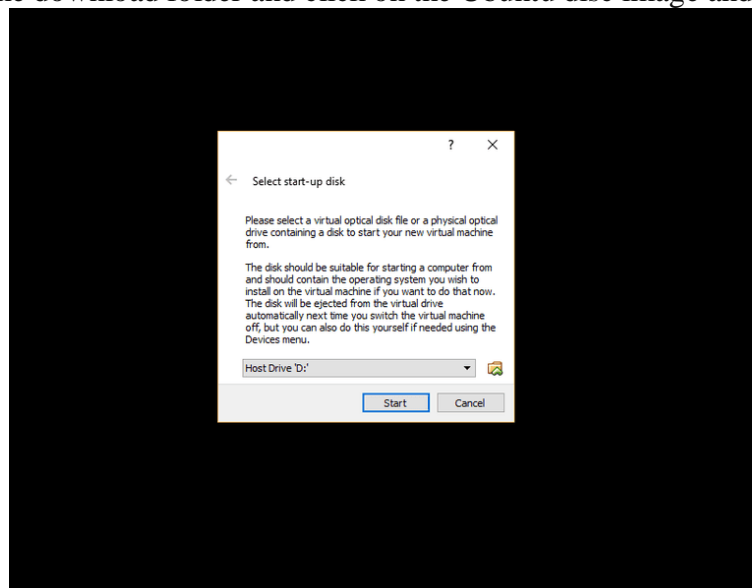
12. Install Ubuntu On Your Virtual Machine

The virtual machine has now been created but it is like a computer that doesn't have an operating system installed yet.

The first thing to do is to boot into Ubuntu. Click the start icon on the toolbar.

This is the point where you need to choose the Ubuntu ISO file you downloaded earlier. Click on the folder icon next to the "Host Drive" dropdown.

Navigate to the download folder and click on the Ubuntu disc image and then on "Open".

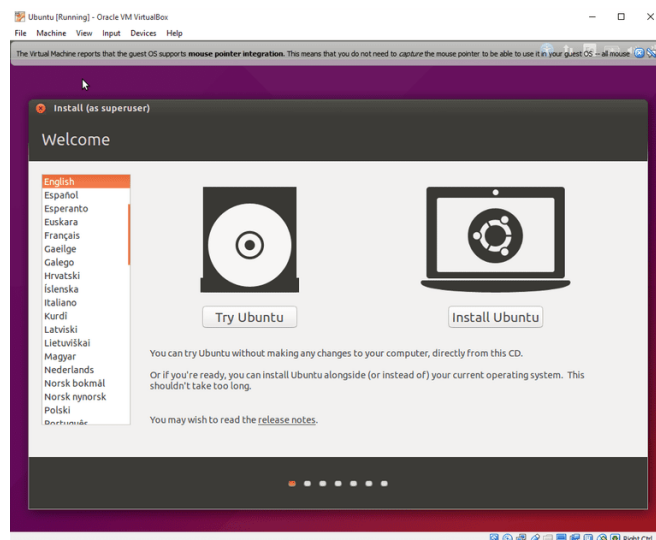


13. Start the Ubuntu Installer

Click on the “Start” button.

Ubuntu should load into the little window and you will have the option to try Ubuntu or install Ubuntu.

Click on the “Install Ubuntu” option.

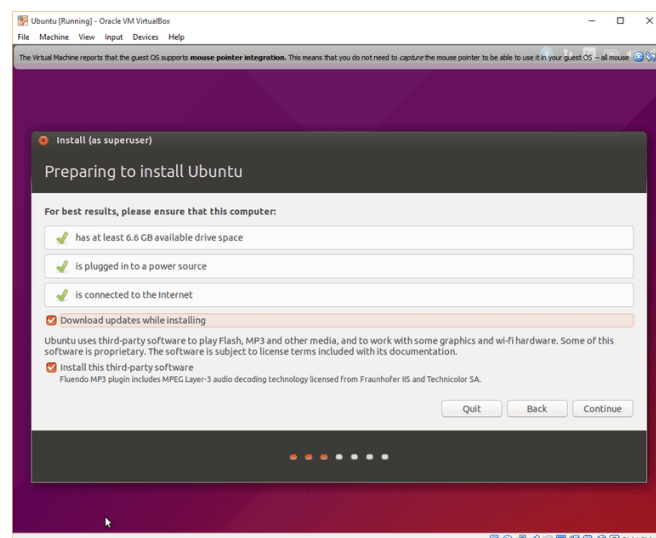


14. Check Your Virtual Machine Meets the Pre-requisites

A list of pre-requisites will be displayed. Basically, you need to make sure your machine has enough power (i.e. plug it in if you are using a laptop), has over 6.6 gigabytes of disk space and is connected to the internet.

You also have the option of downloading updates whilst installing and to [install third party software](#).

If you have a good internet connection check the download updates option otherwise untick it and leave the updates to install at a later point post installation.



I recommend checking the install third party software option as it will allow you to play MP3 audio and watch Flash videos.
Click “Continue”.

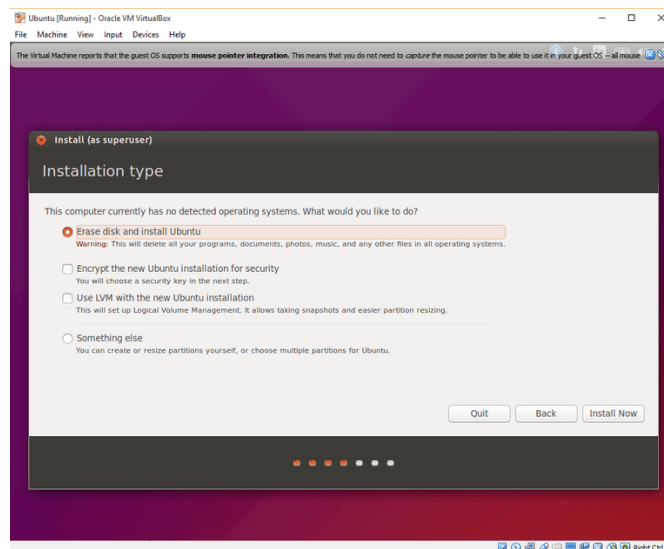
15. Choose the Installation Type

The next step lets you decide how to install Ubuntu. As you are using a virtual machine select the “Erase disk and install Ubuntu” option.

Do not worry. This will not erase your physical hard drive. It will just install Ubuntu in the virtual hard drive created earlier on.

Click “Install Now”.

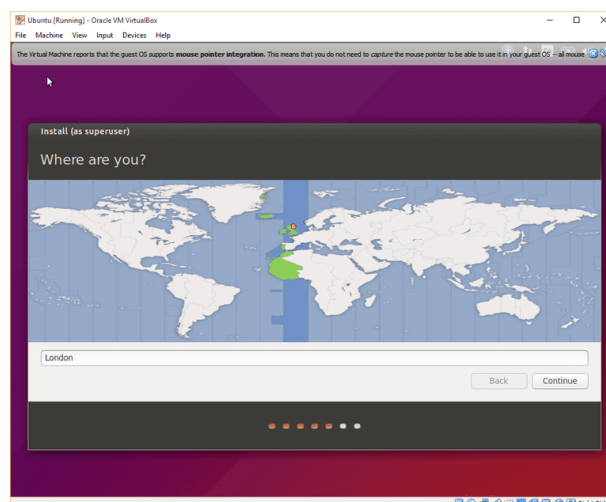
A message will appear showing you the changes that will be made to your disk. Again, this is only your virtual hard drive and so it is safe to click “Continue”.



16. Choose Your Location

You will now be required to choose where you live. You can either select the place on the map or type it into the box available.

Click “Continue”.



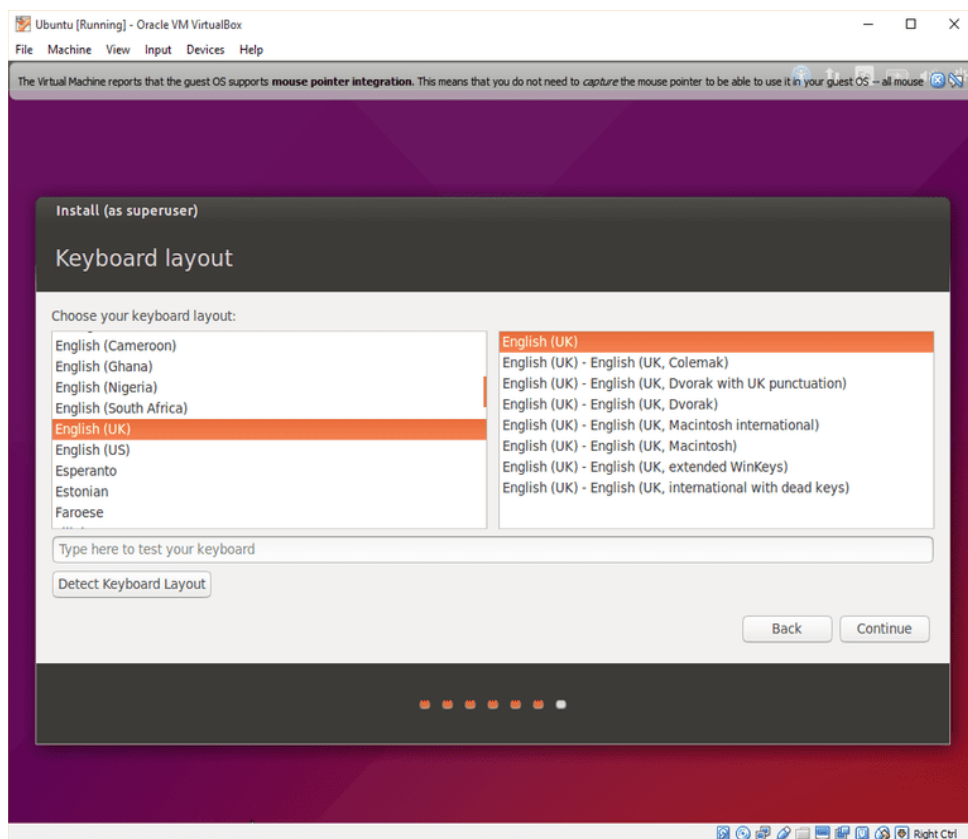
17. Choose Your Keyboard Layout

The penultimate step is to choose your keyboard layout.

You may find that the correct layout has already been chosen but it isn't try clicking on the "Detect Keyboard Layout" option.

If that doesn't work, click on the language for your keyboard in the left panel and then choose the physical layout in the right pane.

Click "Continue".



18. Create A User

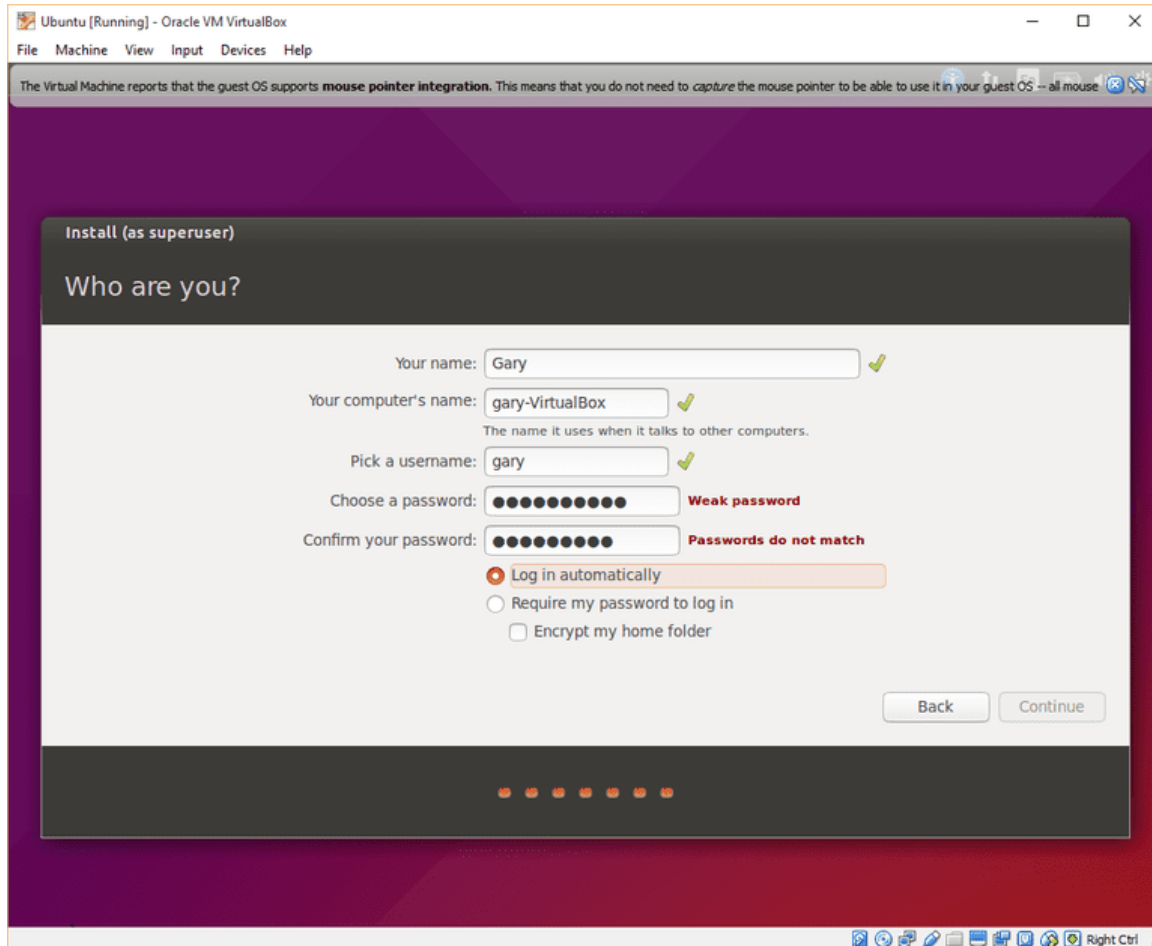
The final step is to create a user.

Enter your name in to the box provided and give your virtual machine a name. Now choose a username and enter a password to associate with that user. (repeat the password as required).

The other options are to log in automatically or require a password to log in. You can also choose to encrypt your home folder.

As it is a virtual machine you may as well go for the "Log in automatically" option but I usually recommend always selecting the "Require my password to log in".

Click "Continue".



Ubuntu will now be installed.

When the installation has finished click the File menu and choose close.

You have the option to save the machine state, send the shutdown signal or power off the machine. Choose power off the machine and click OK.



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