

Task1: Install ROS on Ubuntu 16.04.7

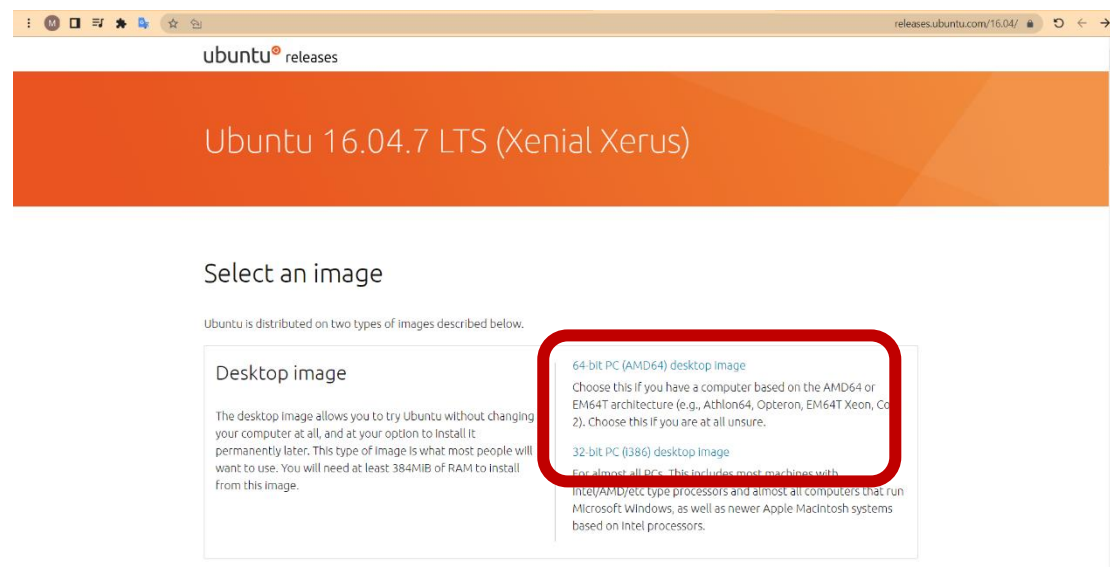
To install ROS melodic need:

- Install ubuntu 16.04.7
- Install VirtualBox.
- Install ROS melodic.

Download ubuntu 16.04.7:

Go to this link to install ubuntu 16.04.7:

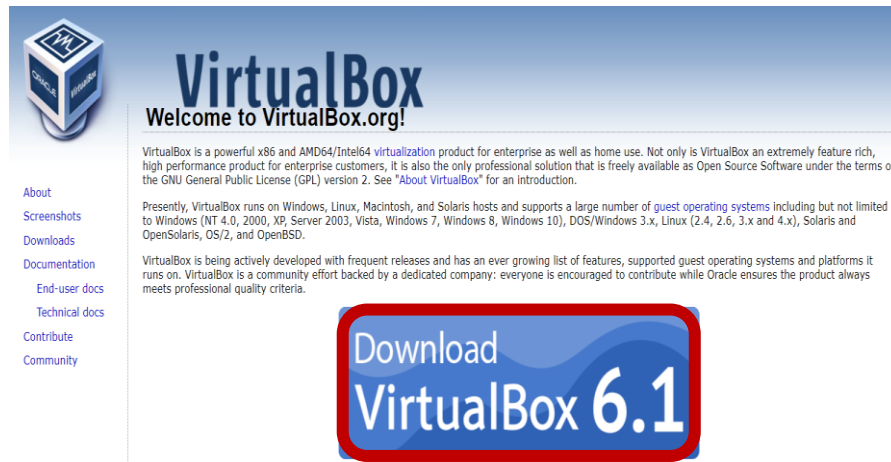
<https://releases.ubuntu.com/16.04/>



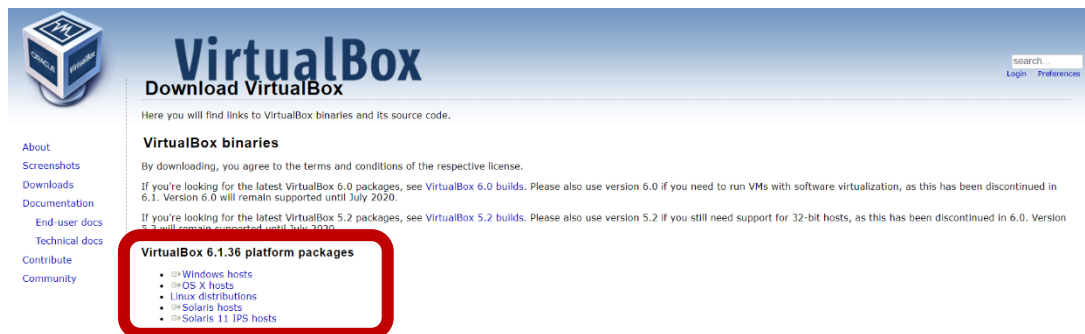
Choice one of these (**for my computer I use 64-bit**)

Install VirtualBox:

Going to this link to install VirtualBox: <https://www.virtualbox.org/>

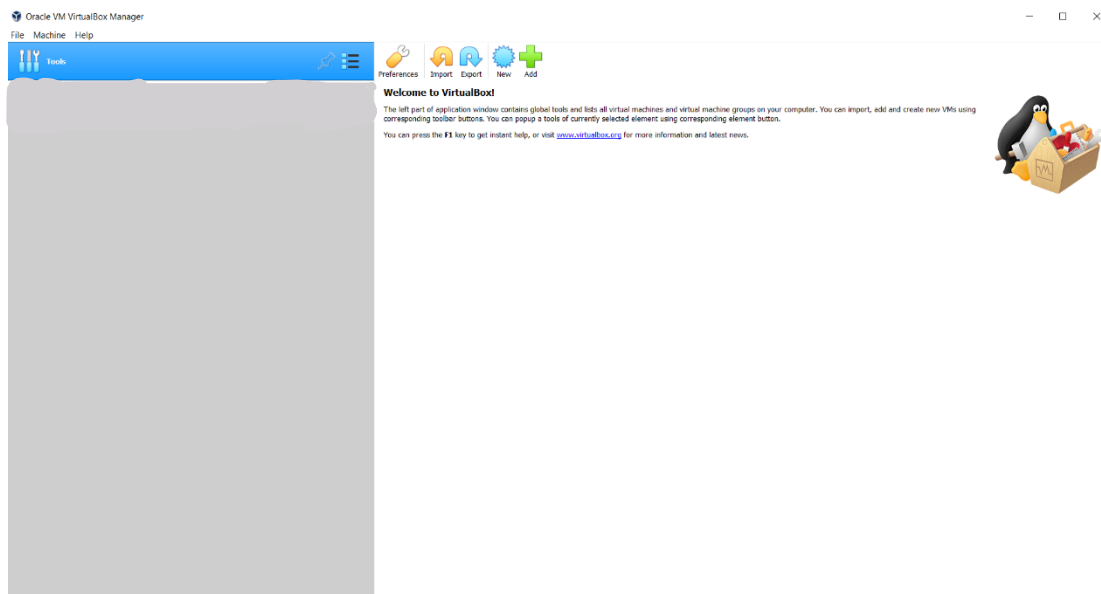


Click on **Download VirtualBox 6.1**

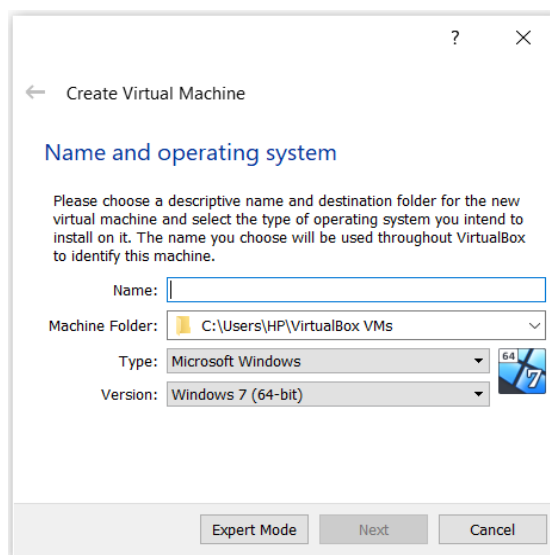


Choice your Operating system (**In my case I use Windows**)

After fixing VirtualBox 6.1 will appear in this windows:



Press new to get these windows:



You can write in Name place: **Ubuntu**

And choose the version that fits your personal device (**In my computer ubuntu (64-bit)**) then press the **next button**.

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Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **1024 MB**.

10872

MB

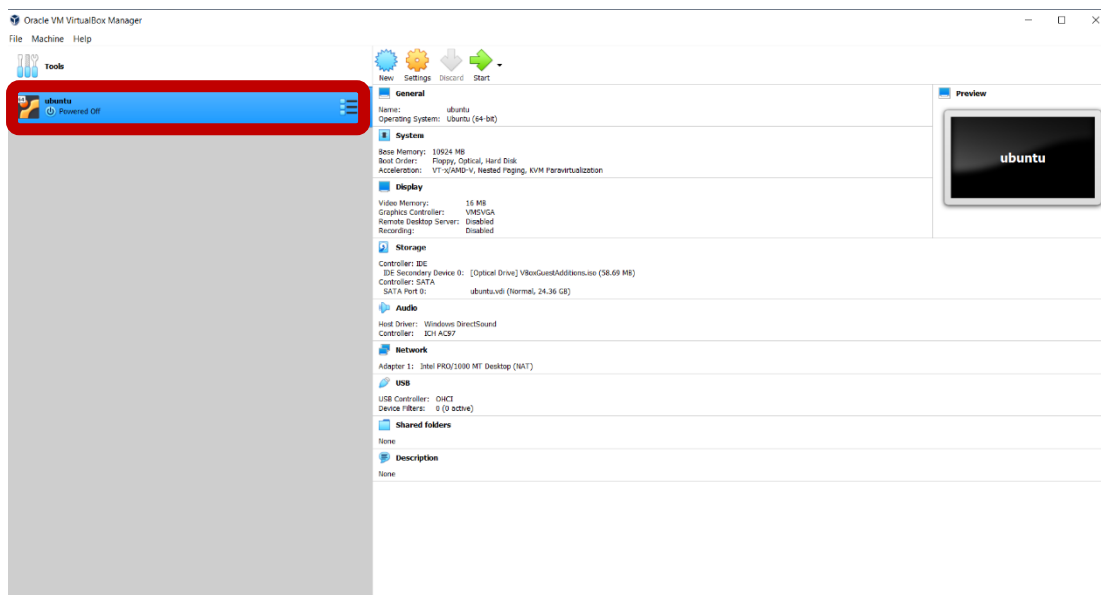
4 MB16384 MB

Next

Cancel

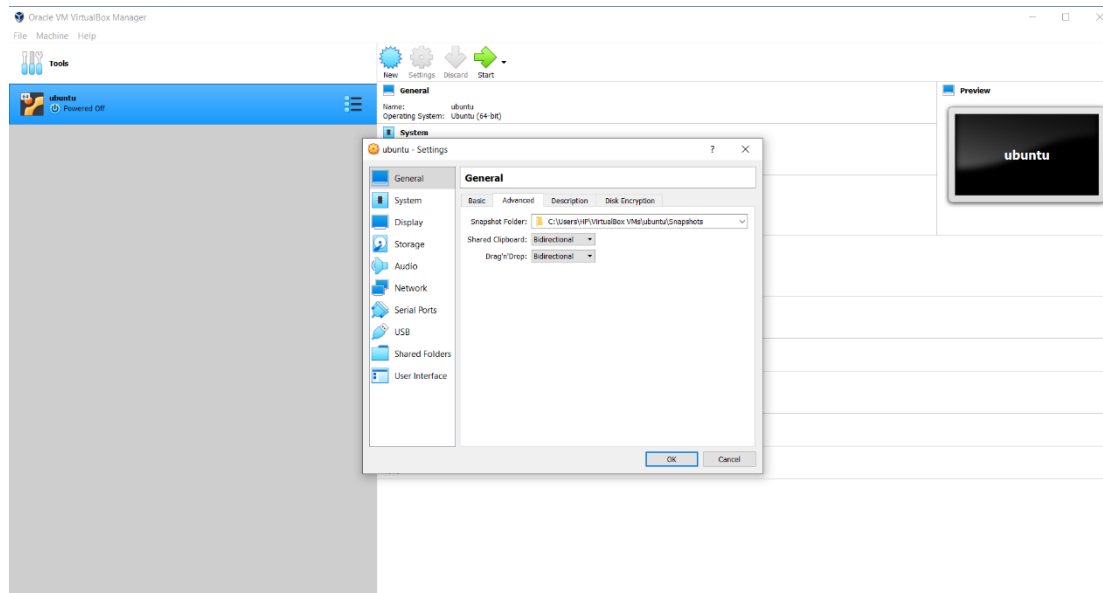
Can select any size on the green line and the best choice from half green line to the end green line.

Select **Next > Create > Next > Next > create**.

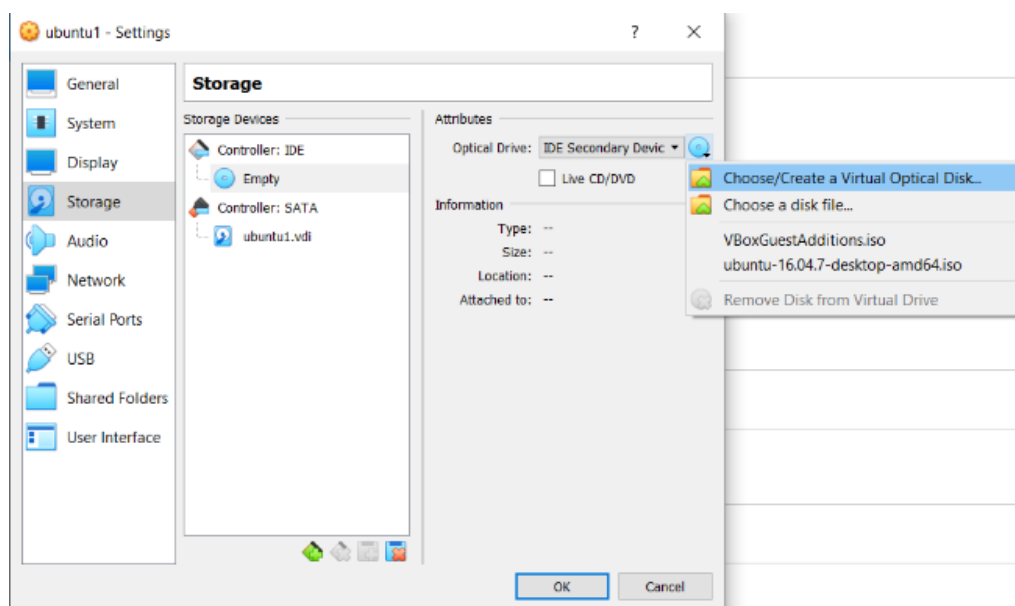


You can see that a new pane has been created at the top left.

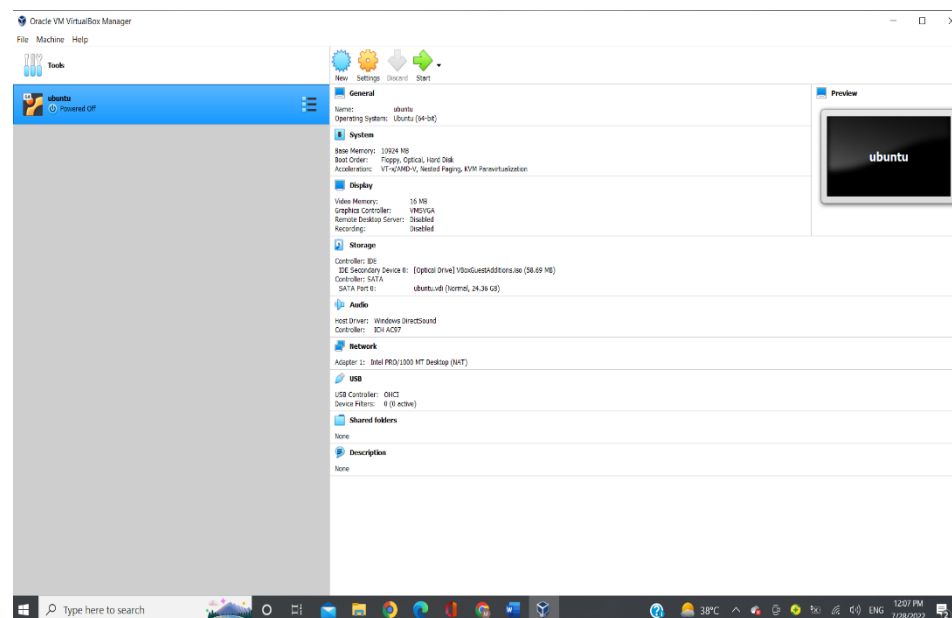
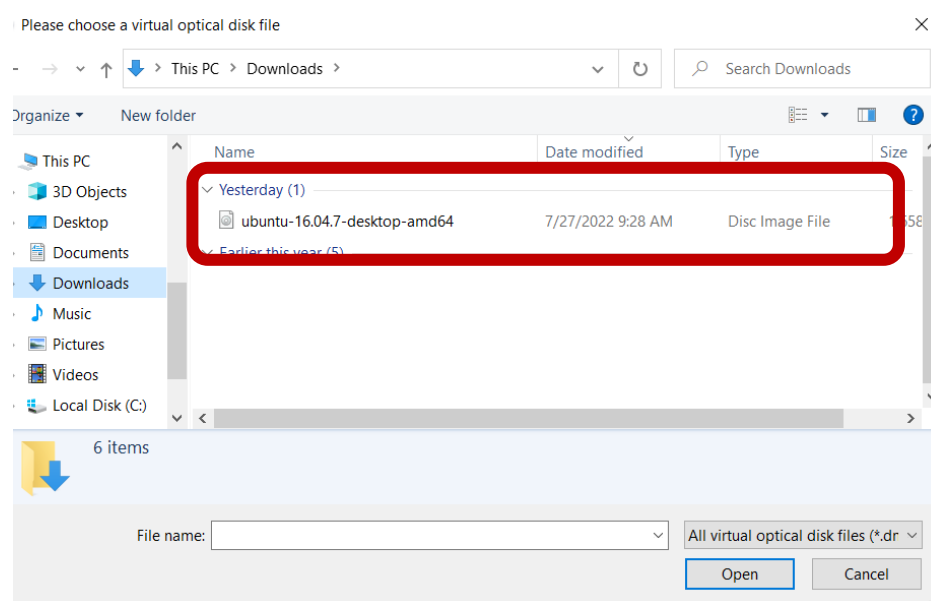
Press **Setting > General > Advance > Bidirectional** on both places. This command is used to copy and baste from windows to ubuntu and vice versa.



Going to **Storage > Empty > CD mark > choose/Create a Virtual Optical Disk..**

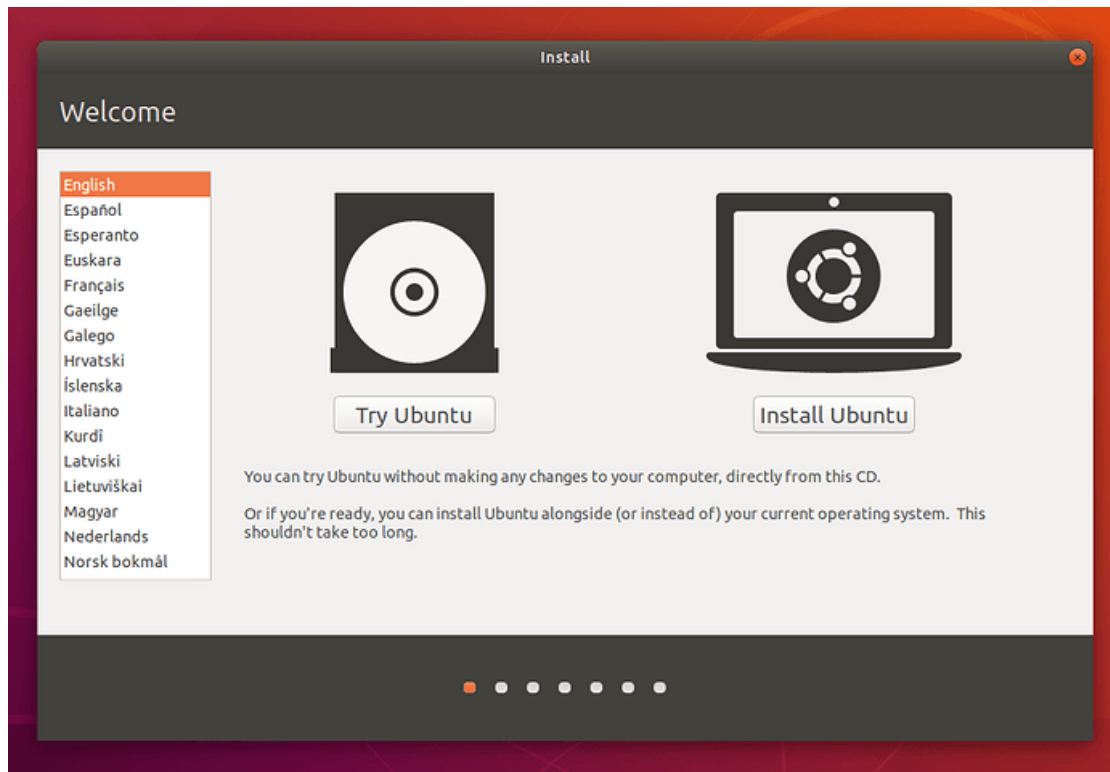


Press **Add** then choose the ubuntu file you download

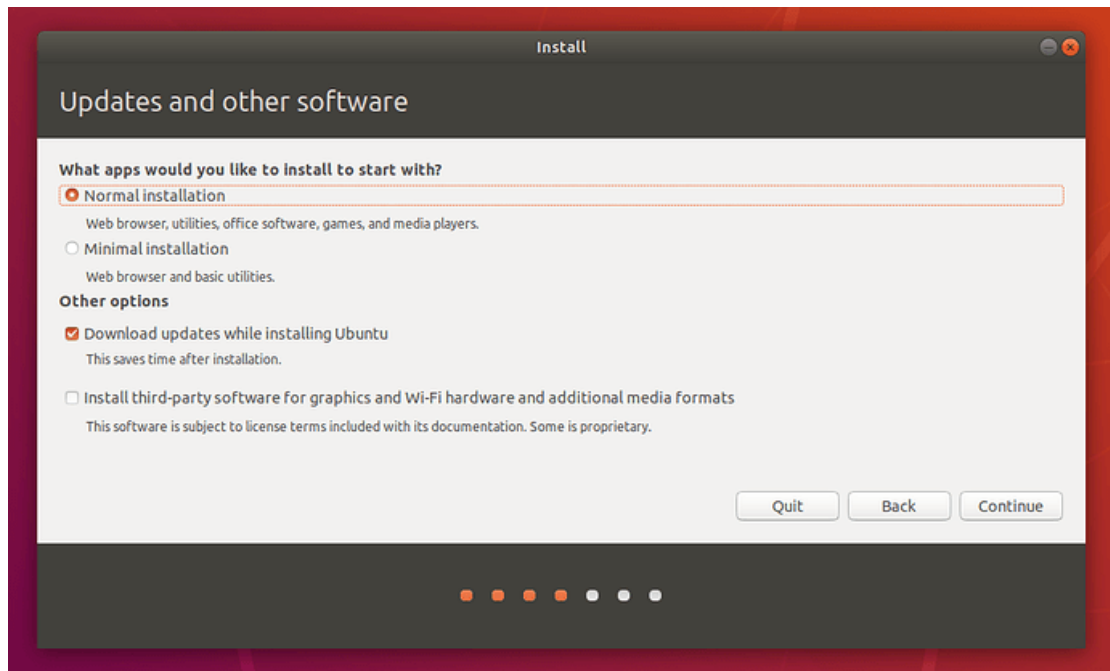


Now press **Start**.

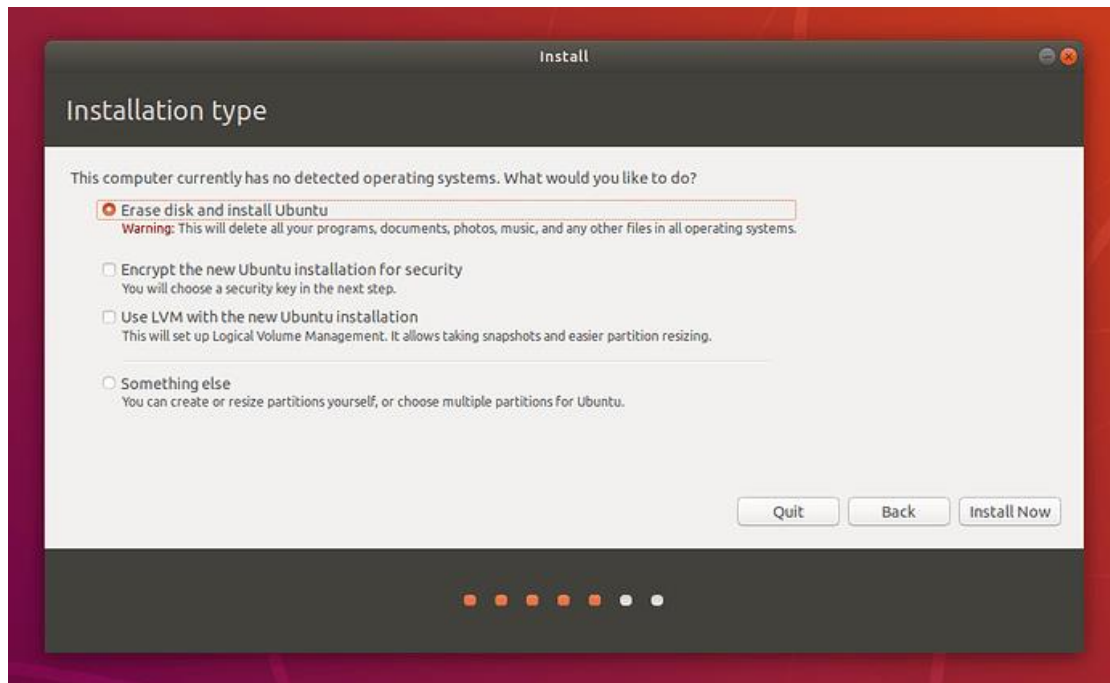
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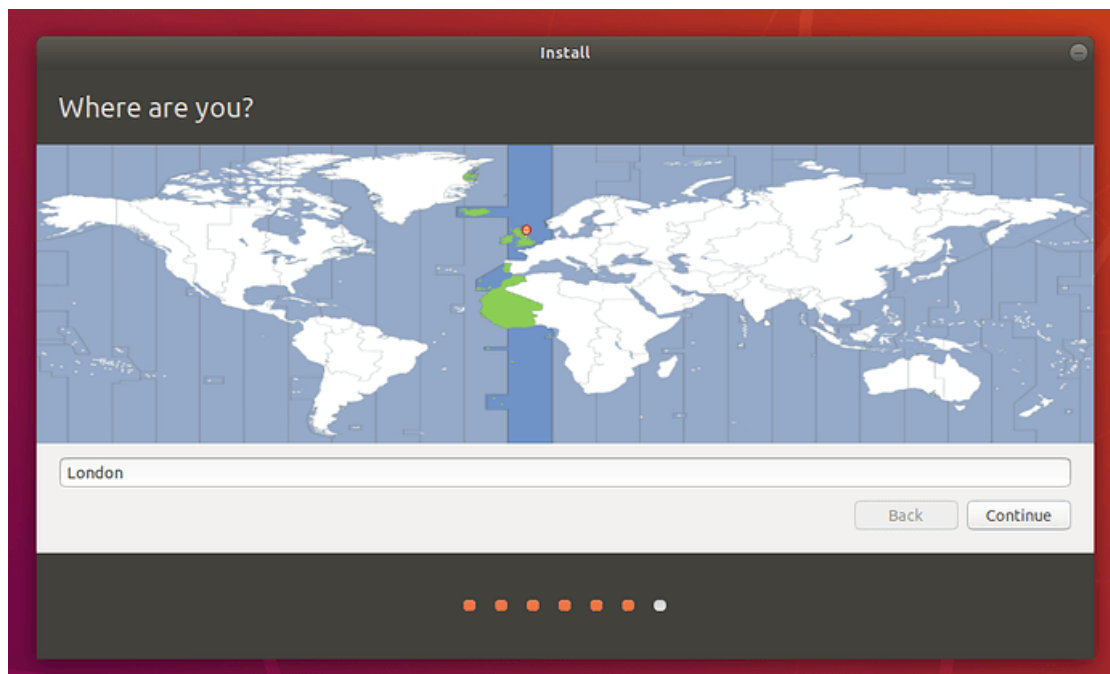
Select the language and press **install Ubuntu**.



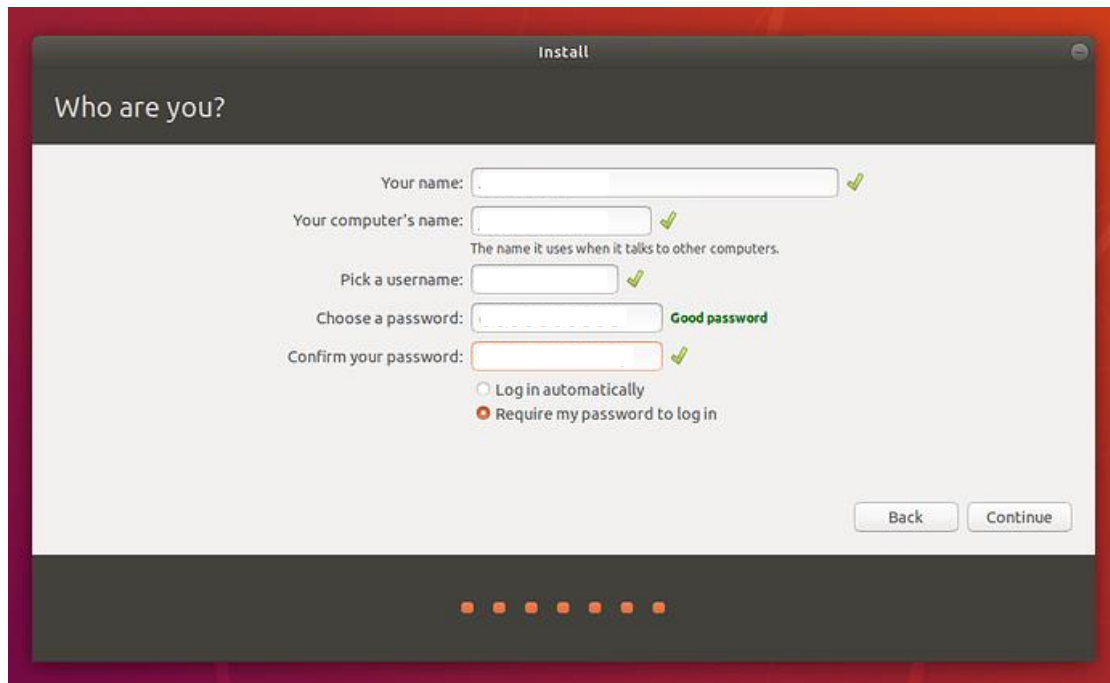
Select **Download updates while installing Ubuntu** then press **Continue**.



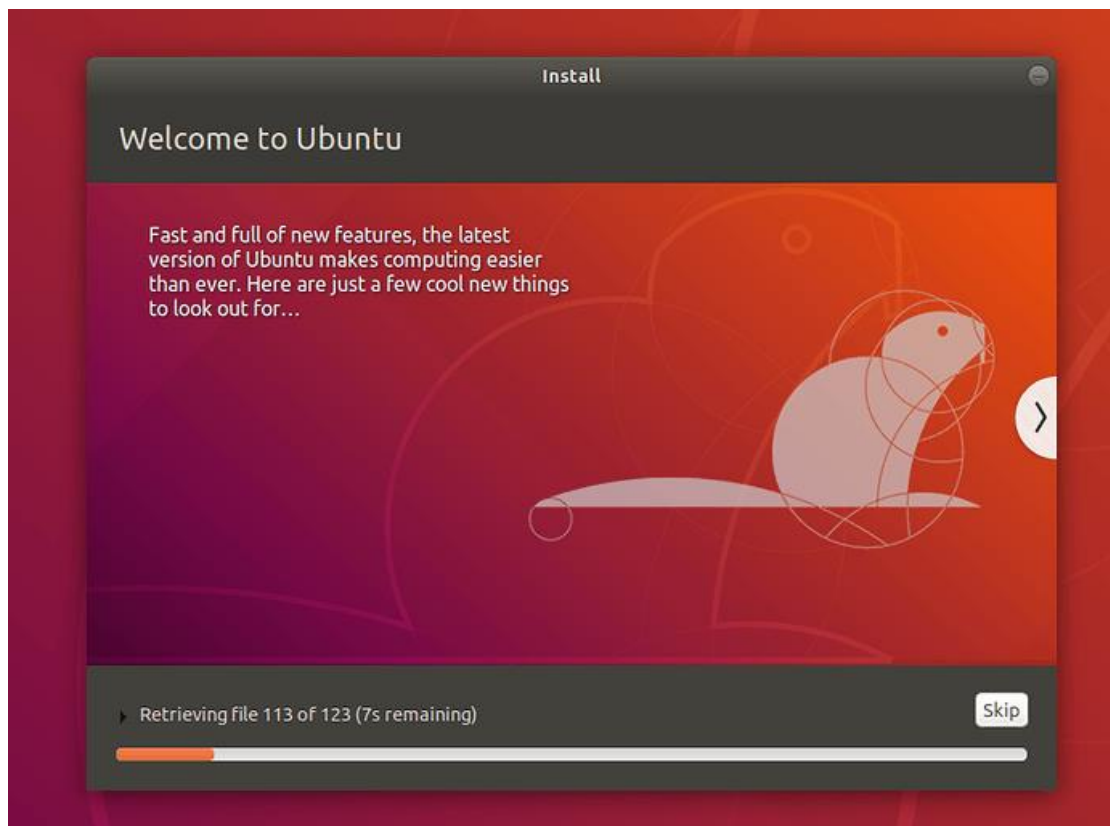
Select the **first option** and press **Install Now** then press **Continue**.



Select your area and press **Continue**.



Complete all information and press **Continue**.

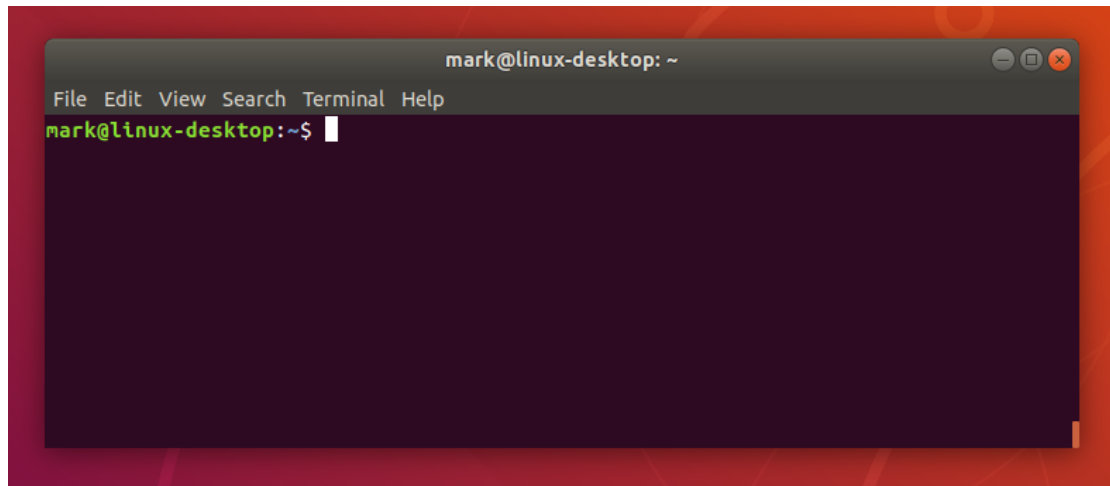


Now, wait until finish it then press **Restart Now**.

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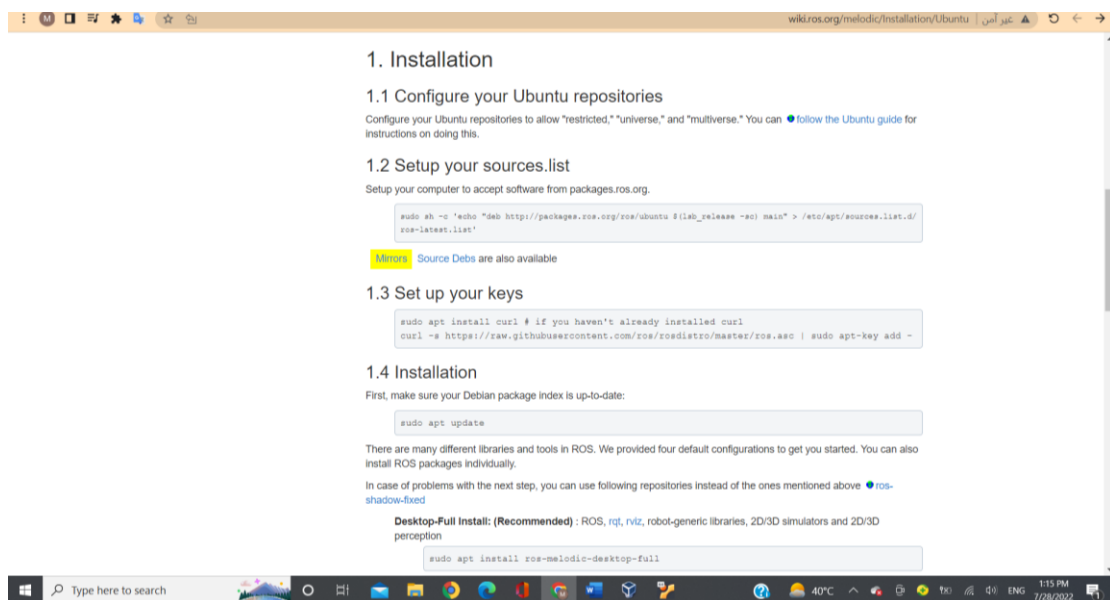
Install ROS melodic:

Open Terminal windows on Ubuntu



From this link:

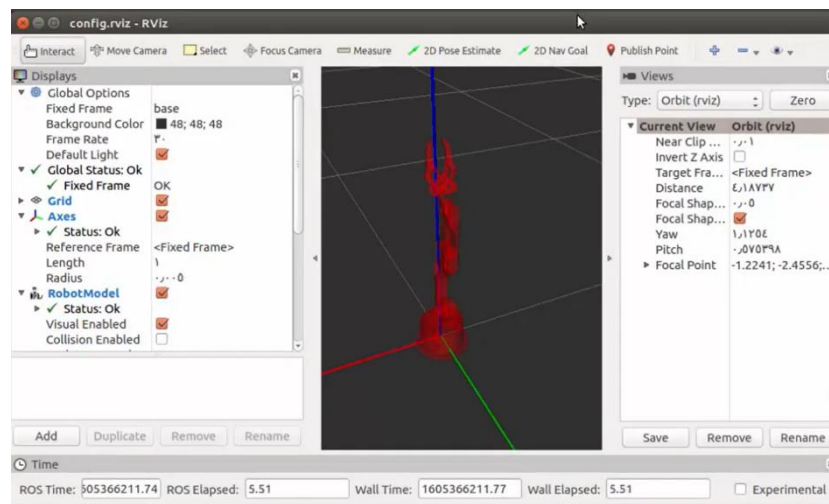
<http://wiki.ros.org/melodic/Installation/Ubuntu>



Now we will copy each command from the window operating system and paste it onto the terminal on ubuntu

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in the end:



This report was written by:

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