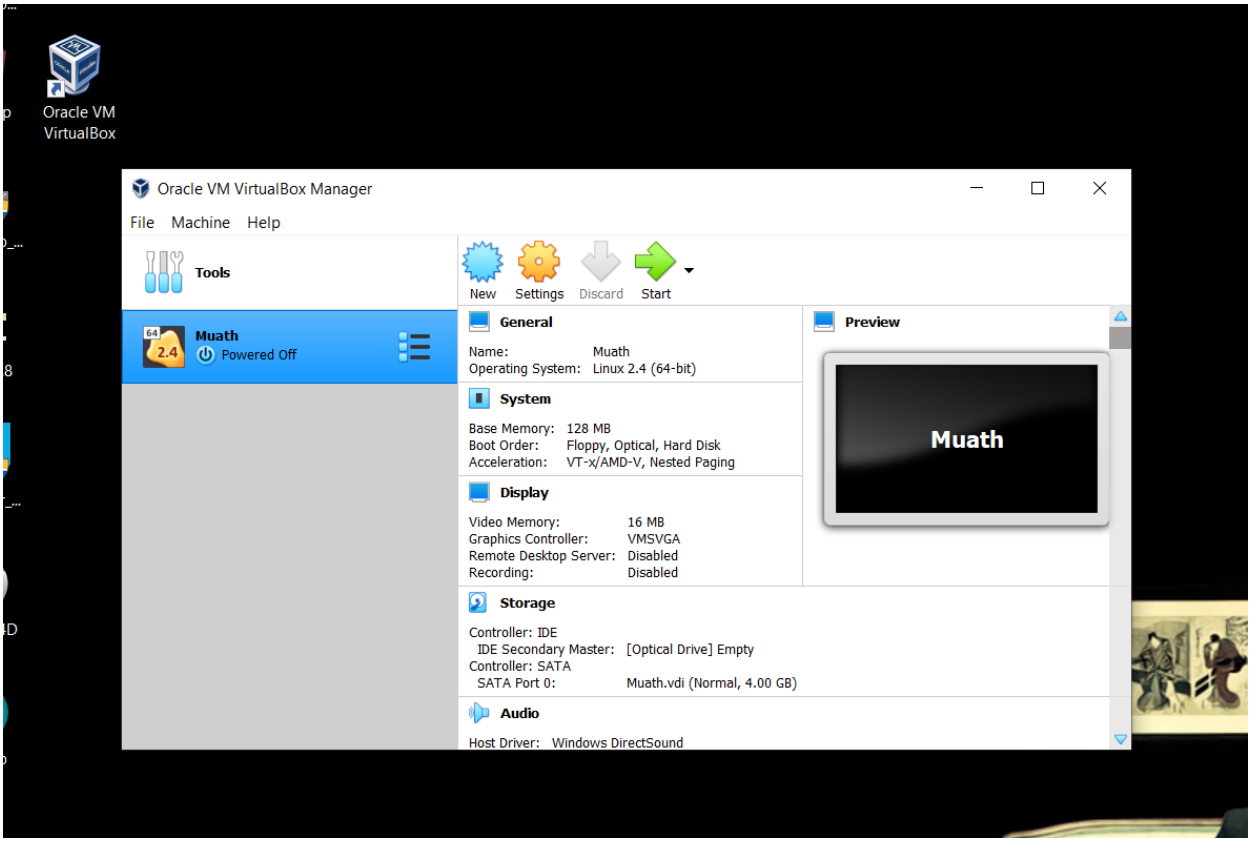
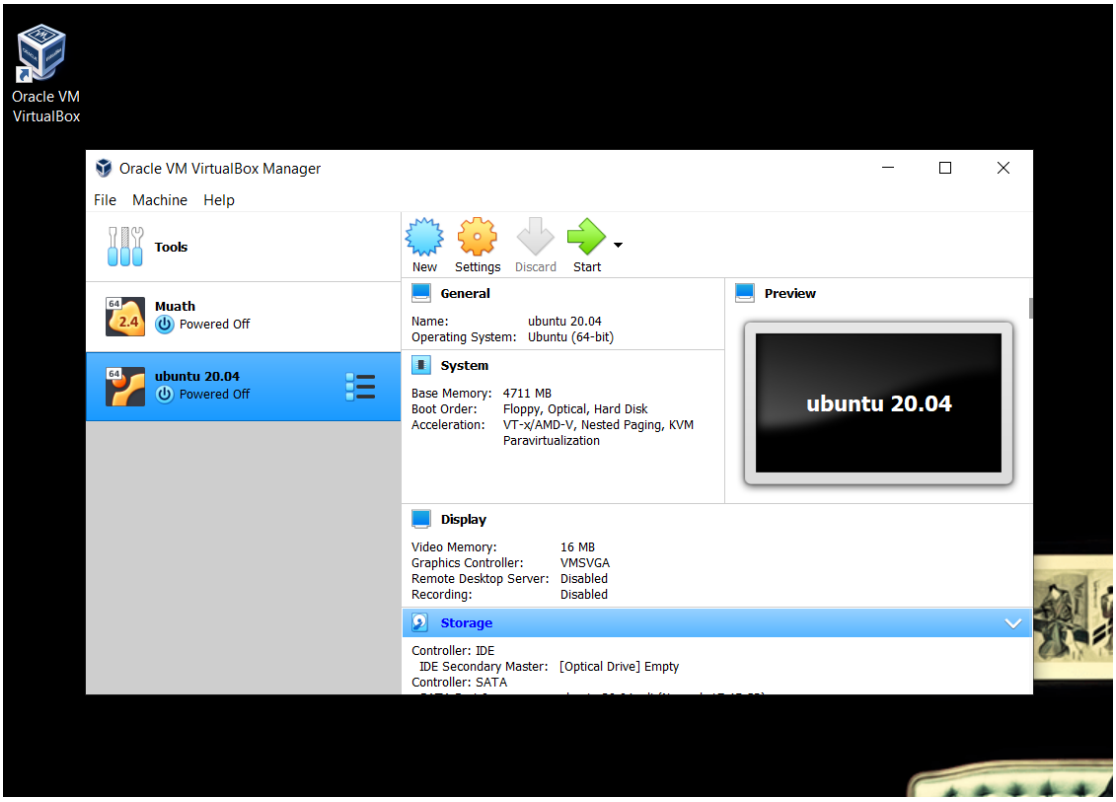
In this report, I am going to explain the steps that I followed in order to install **ROS** in my computer.

First, **ROS** can only install in **Linux** based **Ubuntu** operating system and run it on top of Windows, so I downloaded **VirtualBox** to be able to install **ROS**. I downloaded **VirtualBox** from this website. **https://www.virtualbox.org/wiki/Downloads**



After installation **VirtualBox**, I downloaded **Ubuntu 20.04** from the following website; **https://ubuntu.com/download/desktop** and after that I created a new virtual machine which for **Ubuntu 20.04** by clicking the new icon to download it. After that, you will choose the name, type (which is **Linux**), and the version (which is 64-bit). Also, you will choose the RAM and size of the **VirtualBox** hard disk. After finishing, now after clicking start for the **Ubuntu** I choose the hard disk, erase the disk, install **Ubuntu.** What's next is very simple; it is about to choose the time zone, keyboard layout and make a username and password. After all of this, now **Ubuntu** is available and ready to use.


Oracle VM
VirtualBox
Oracle VM VirtualBox Manager
File Machine Help
Tools
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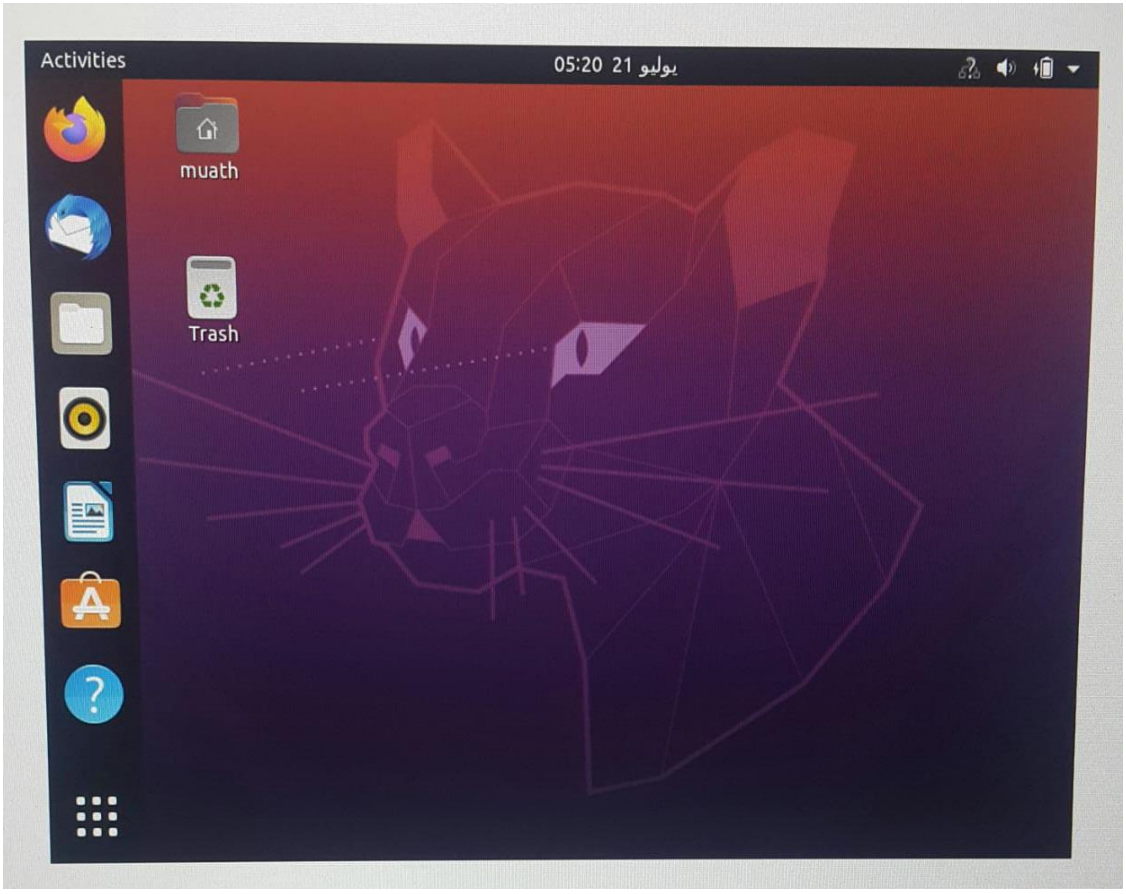
Powered Off
ubuntu 20.04
Powered Off
New Settings Discard Start
General
Name: ubuntu 20.04
Operating System: Ubuntu (64-bit)
System
Base Memory: 4711 MB
Boot Order: Floppy, Optical, Hard Disk
Acceleration: VT-x/AMD-V, Nested Paging, KVM
Paravirtualization
Preview
ubuntu 20.04
Display
Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Storage
Controller: IDE
IDE Secondary Master: [Optical Drive] Empty
Controller: SATA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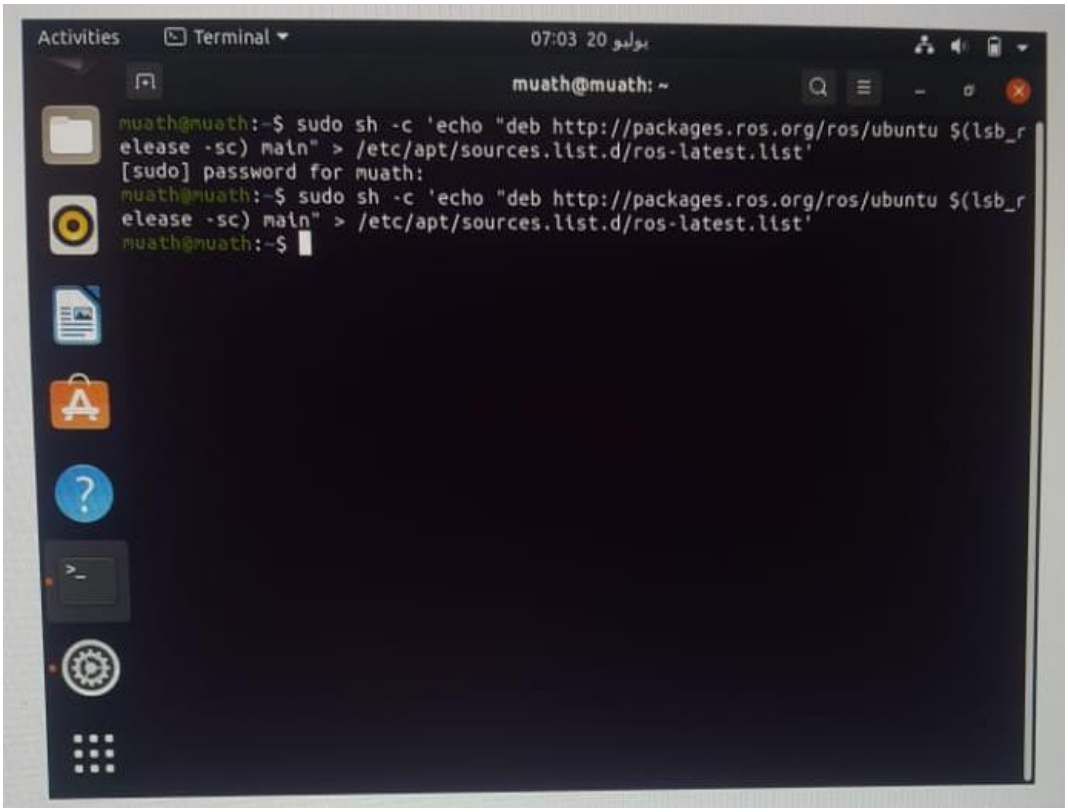
After installing **Ubuntu** now, it is time to install **ROS**.

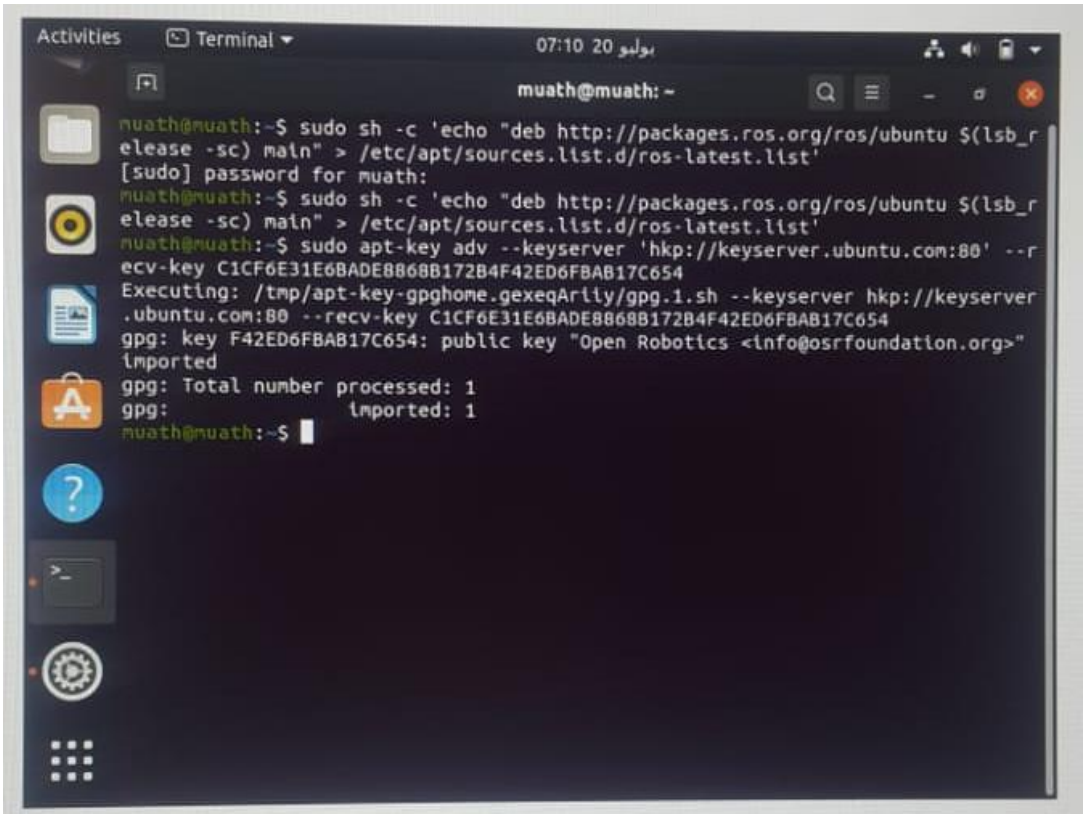
First, I went to the following website, http://wiki.ros.org/ROS/Installation

In this website, I chose the suitable version according to m Linux distribution and version. I already install **Ubuntu** 20.04 version, so I chose **ROS Noetic Ninjemys** and complete the process of setup and install **ROS**.

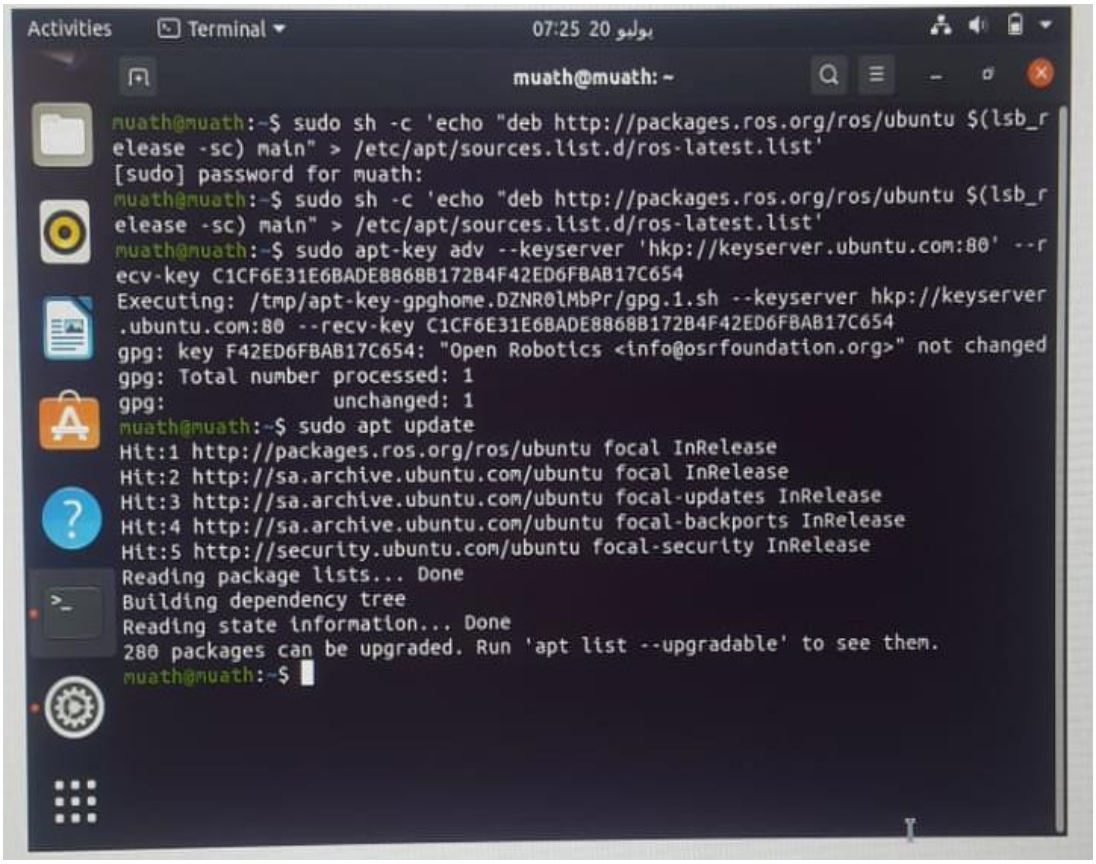
Here, I added the source list to the system.



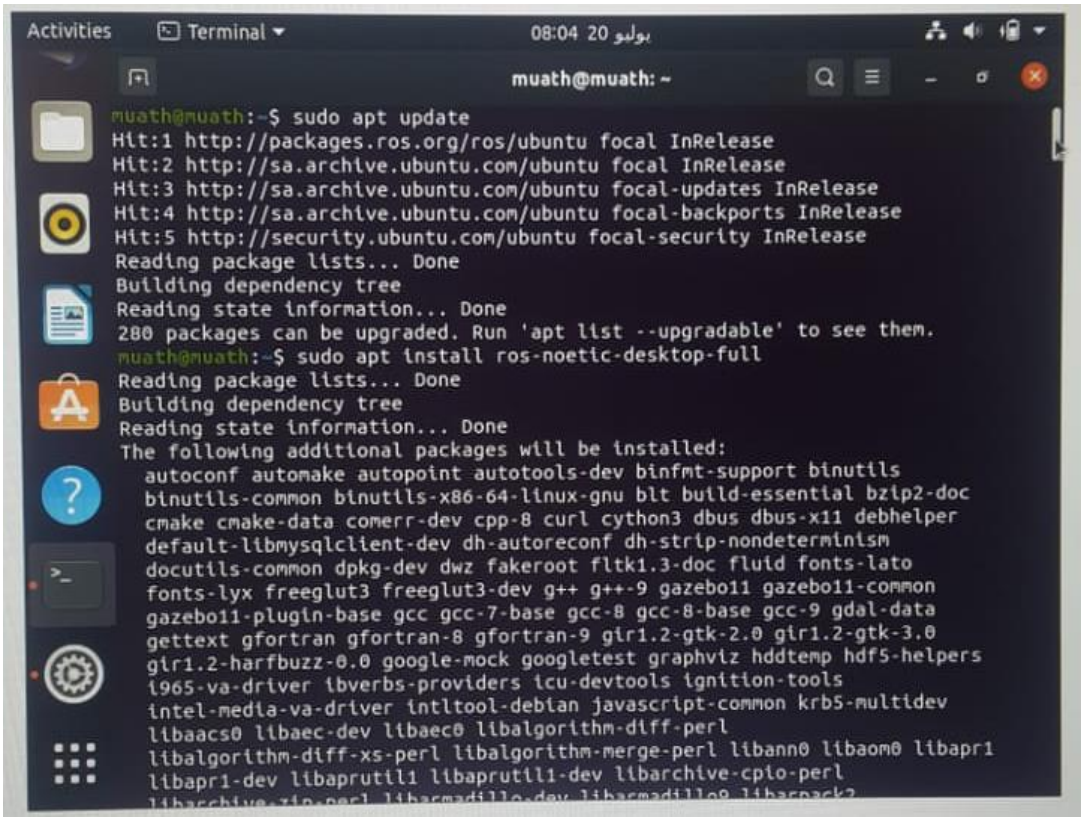
Here, I added the key of the ROS's server to the system.



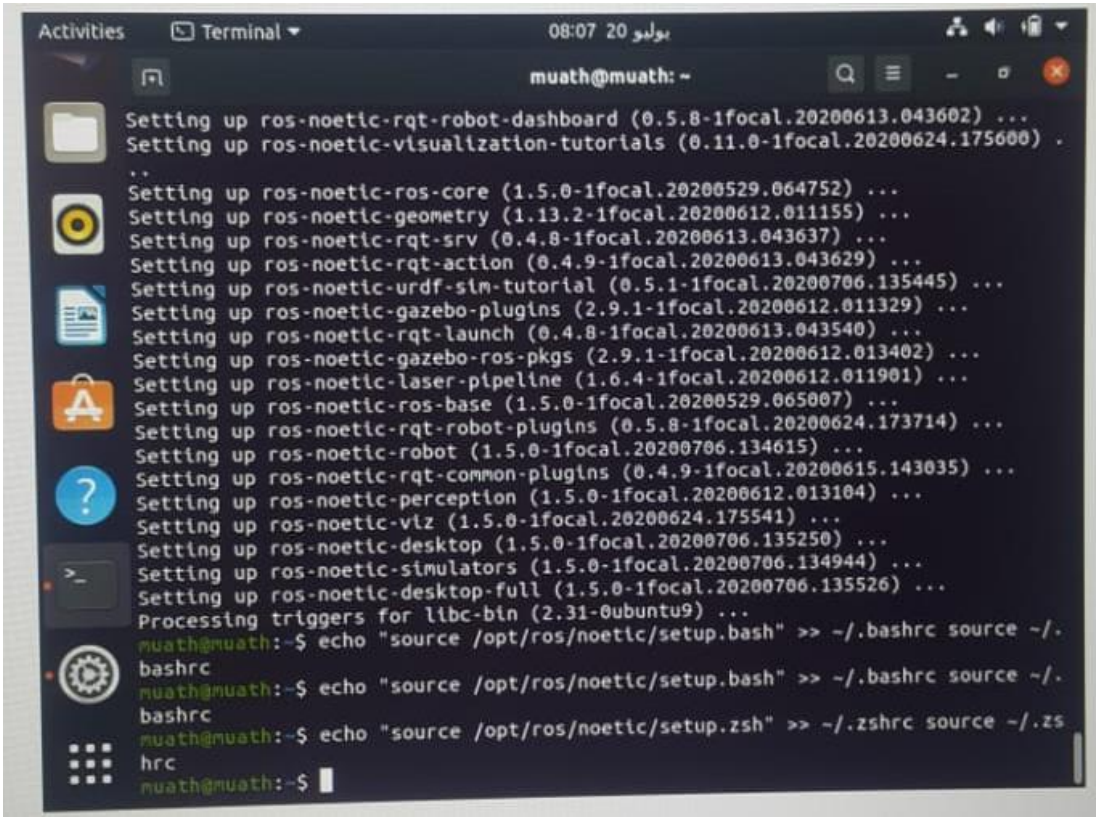
Also, I check if the system is up to date.



The next step is to Install the full desktop package.



To setup the working environments, I did the following commands.



Now **ROS** is available in my computer.