How to install Ros on VB Virtualbox manager in Windows 10

In the beginning we need to download a virtual machine like VB Virtualbox manager after that we download Ubuntu 20.04 LTS and then we install the ROS system on it.

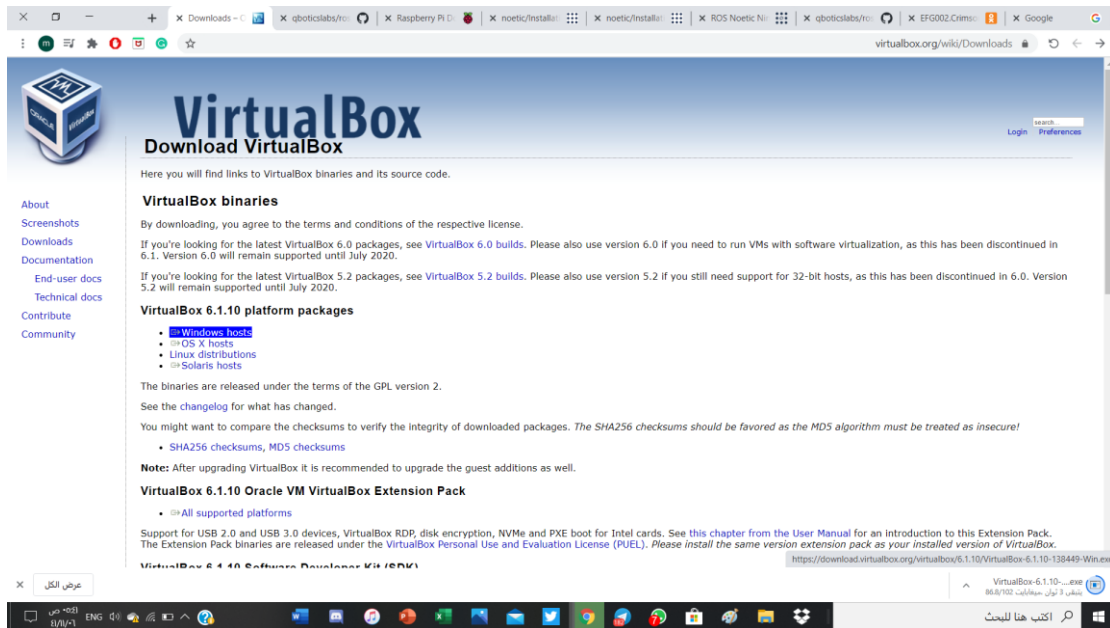Firstly: we must download VB Virtualbox manager through this link below as shown in figure (1)

https://www.virtualbox.org/wiki/Downloads

Figure 1

We have to use Windows hosts to download as shown in figure (2)
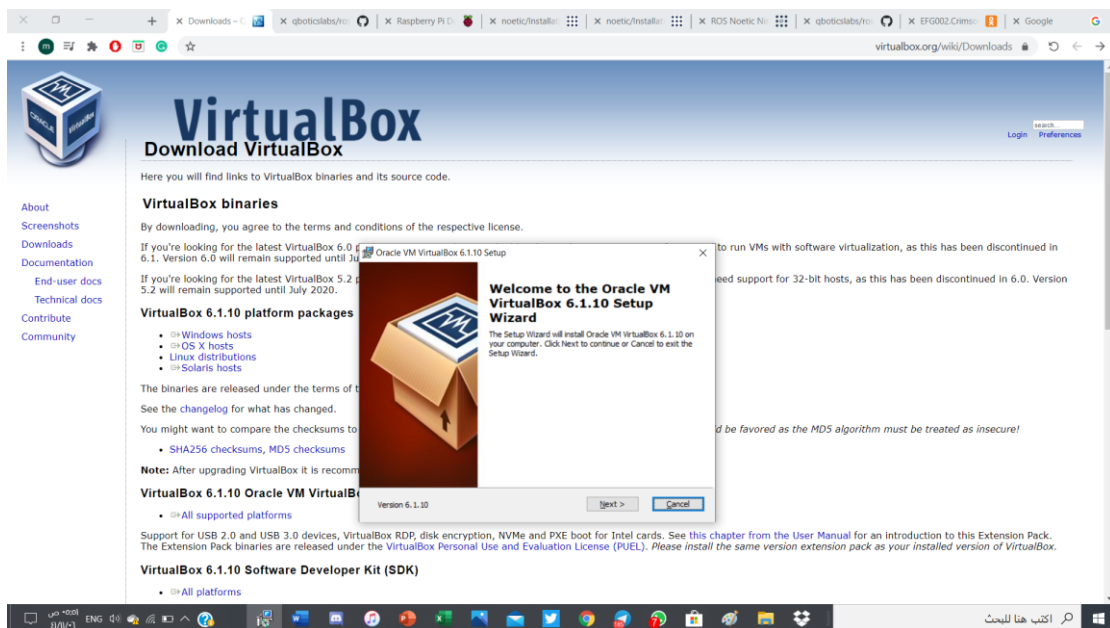

Figure 2

The figures below show the steps to download VB Virtualbox.

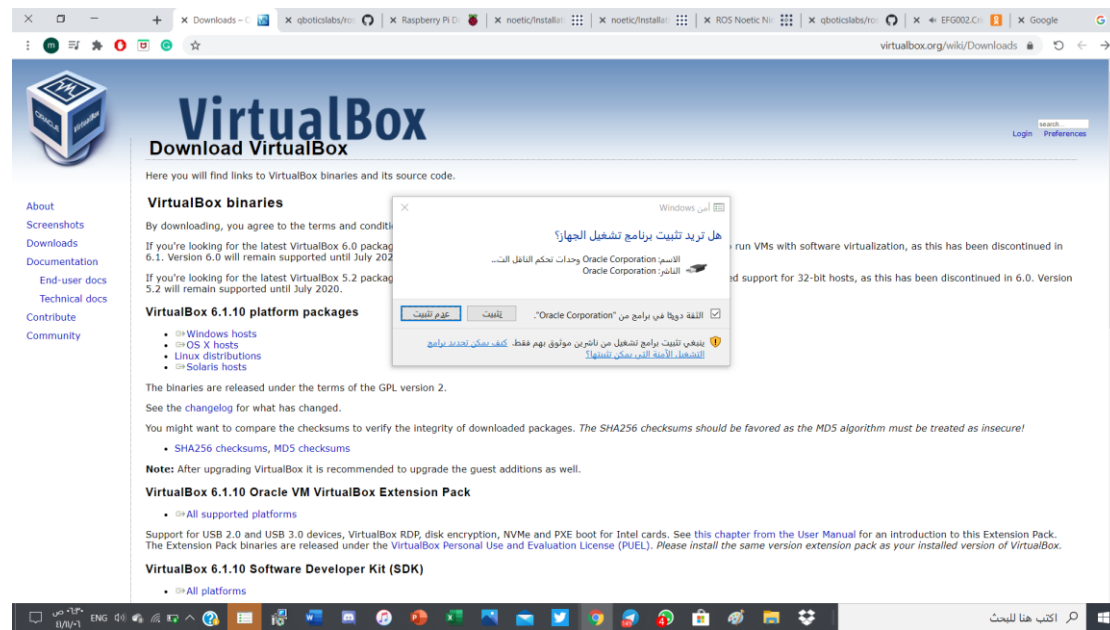

Figure 3

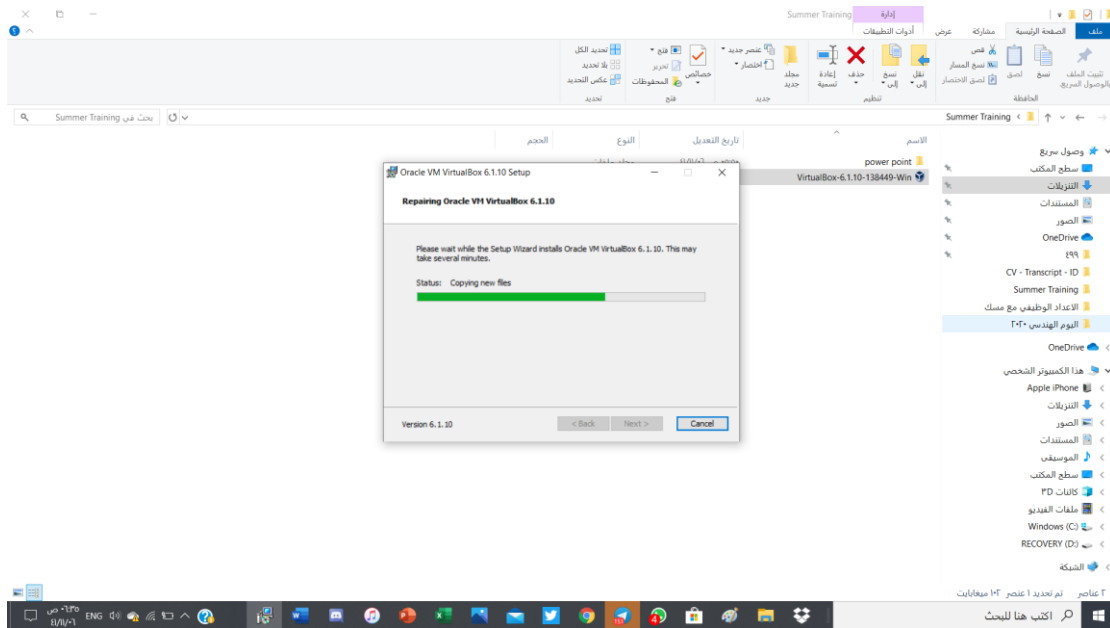*Figure 4*

Figure 5

Figure 6

After we finish download VB Virtualbox we have to download Ubuntu 20.04 LTS via this link below

https://ubuntu.com/download/desktop
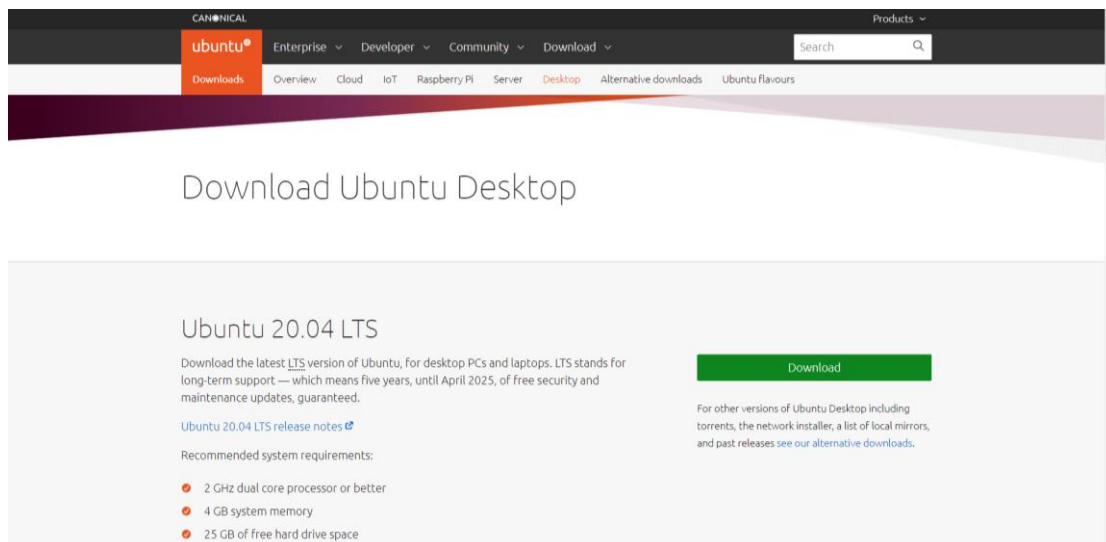
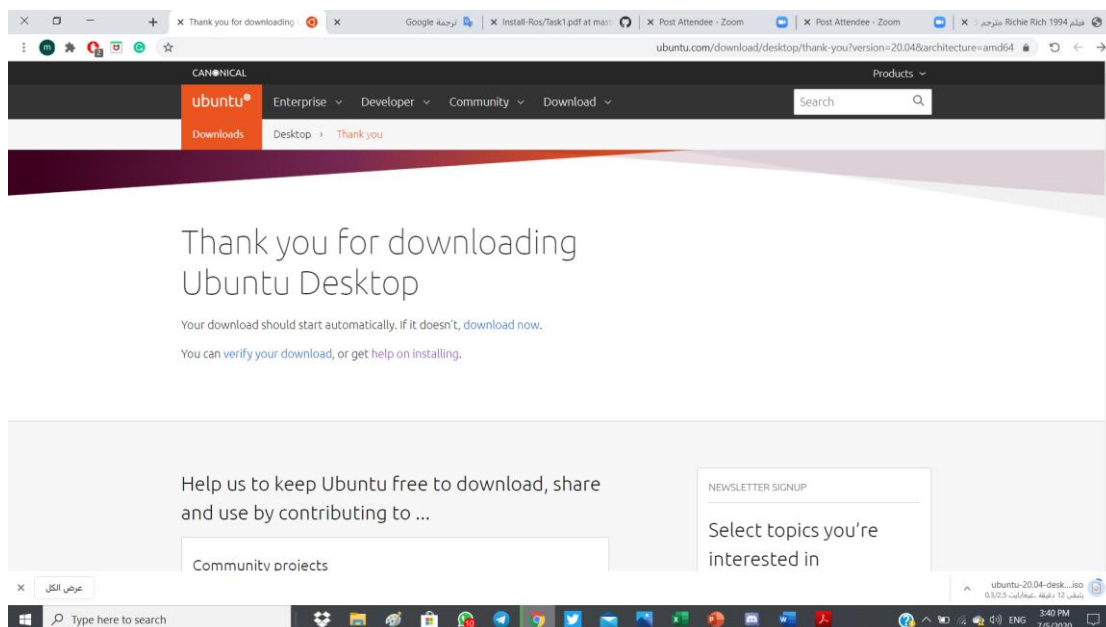The steps shown in figure below

Figure 7

Figure 8

After the downloads finish, the first step is to open the VB Virtualbox manager and press **NEW**. It looks like the page below, type the name of the operating system, its location, the type of Linux identification, and the version.
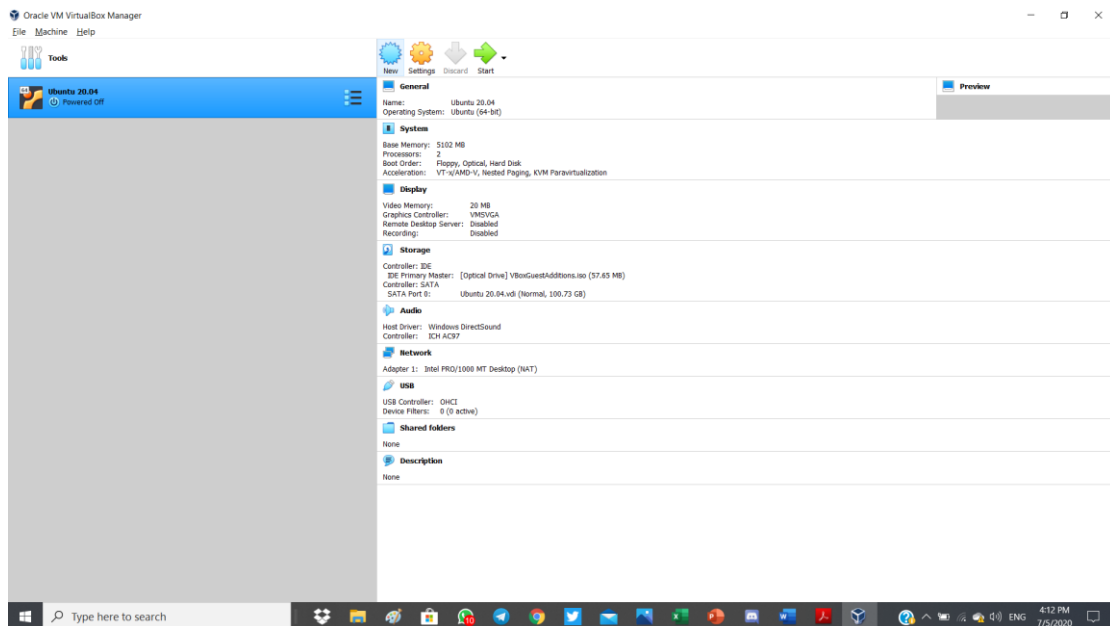
Figure 9

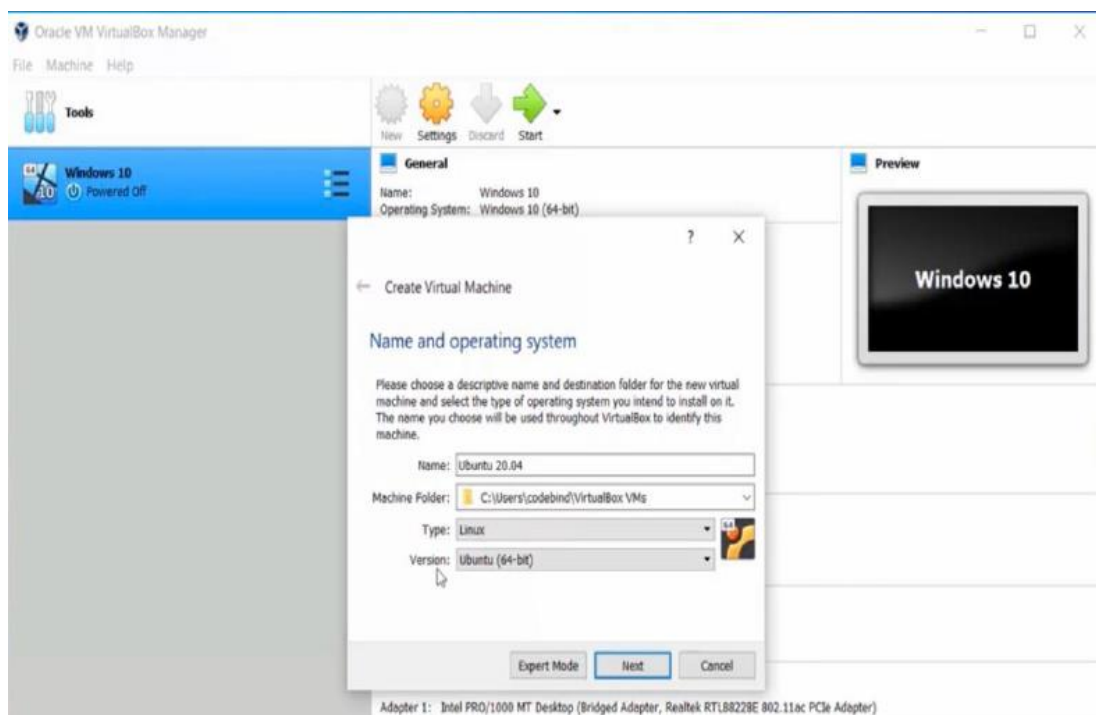Then we shoes Ubuntu 32 bit or 64 bit as shown in figure below.

Figure 10
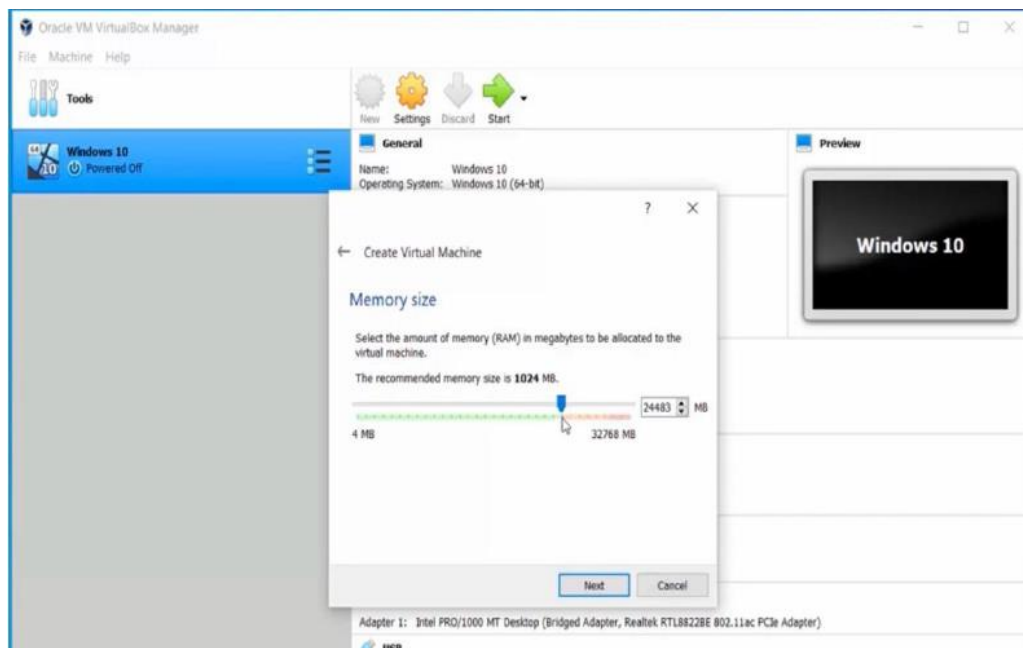
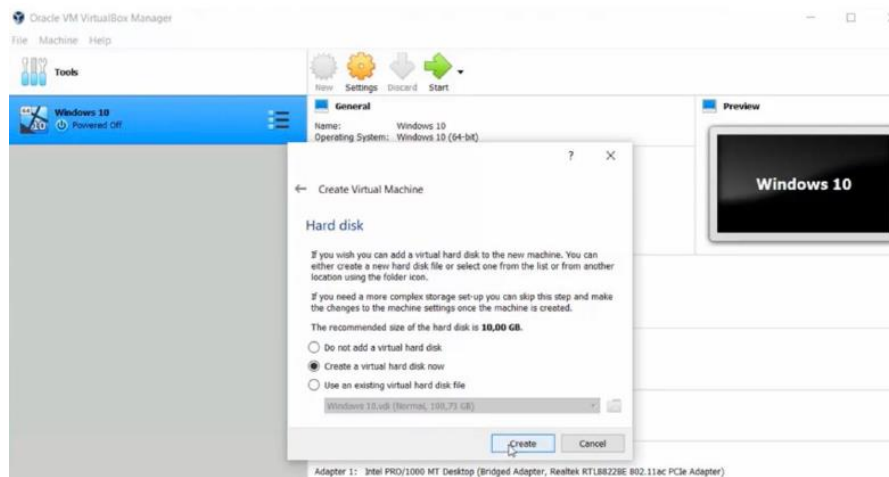The following steps shows in following pictures

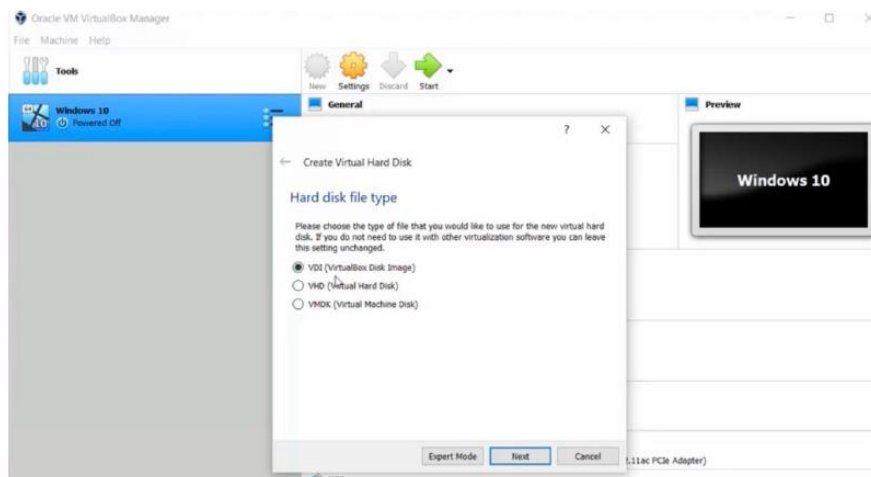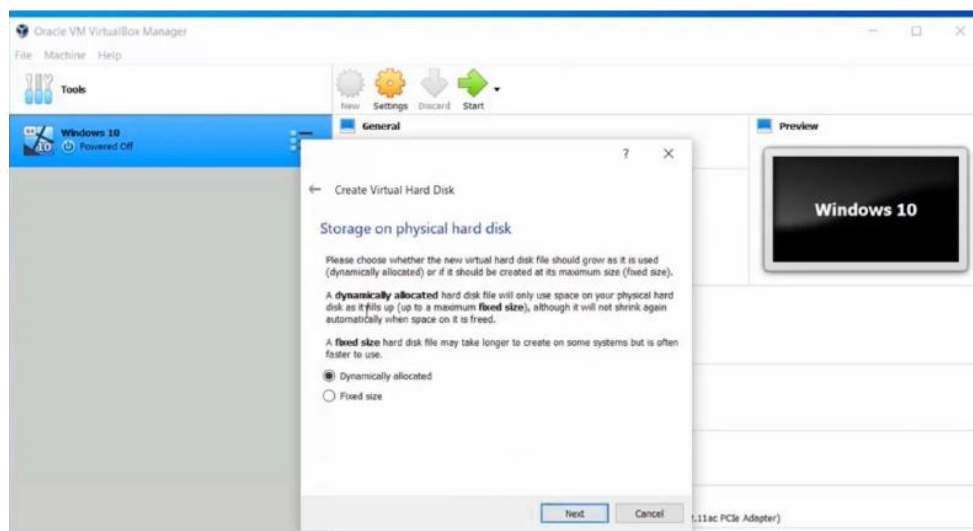*Figure 11*

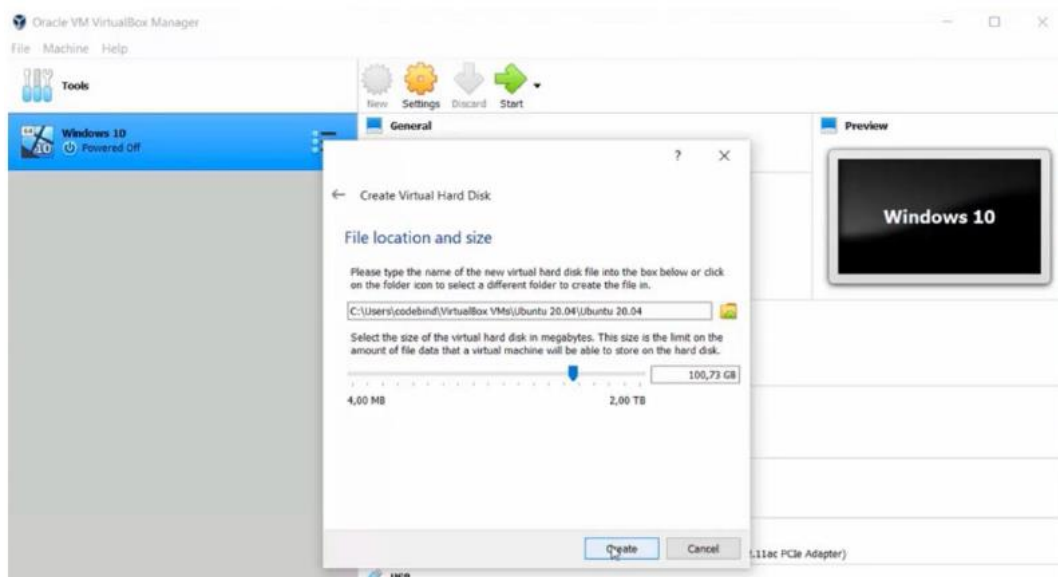*Figure 12*

Figure 13

Figure 14

Figure 15

When we finish we click on settings and follow the steps as pictures to upload Ubuntu 20.04
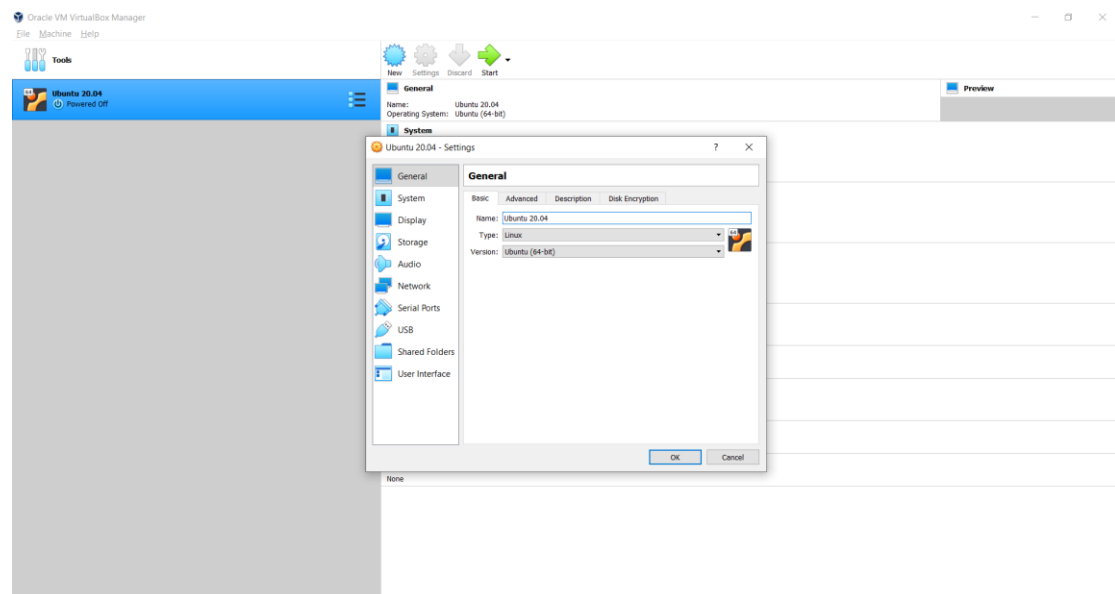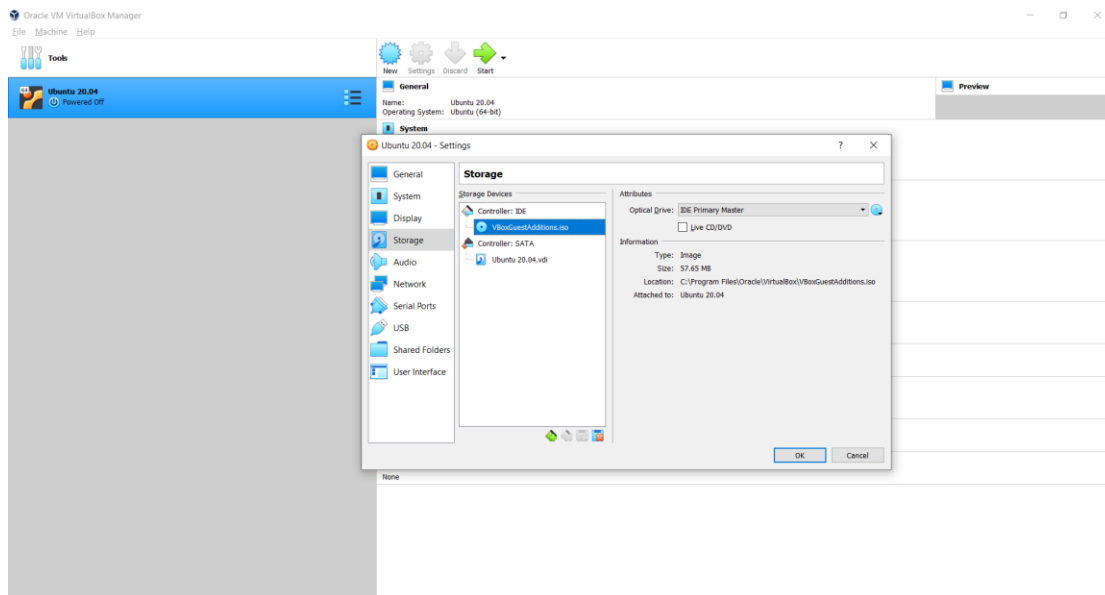LTS file in figures below.

Figure 16

Figure 17

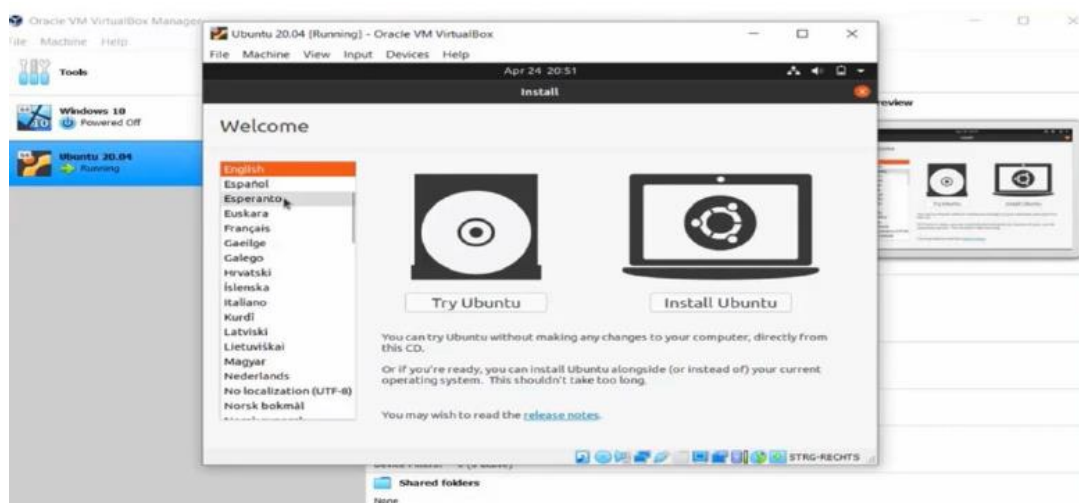After we finish from setting we click on start and follow the steps in the pictures below.
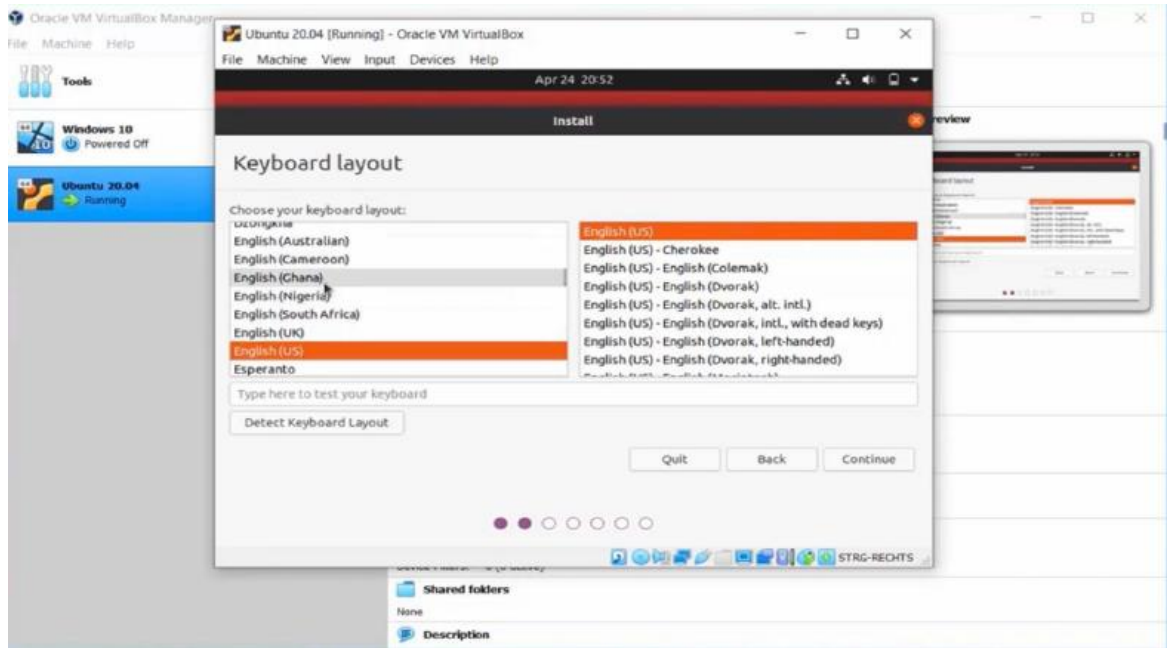

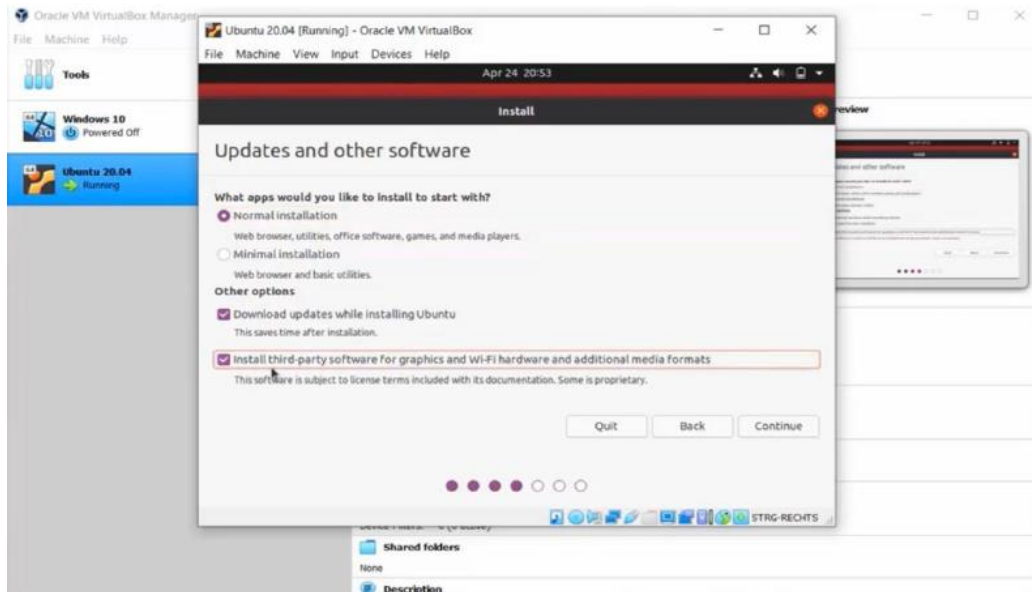*Figure 18*

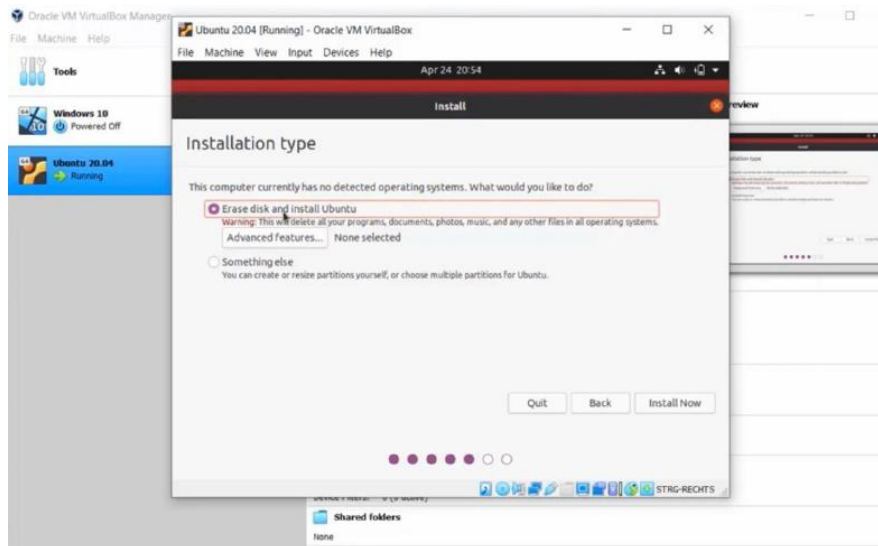*Figure 19*

Figure 20

Figure 21

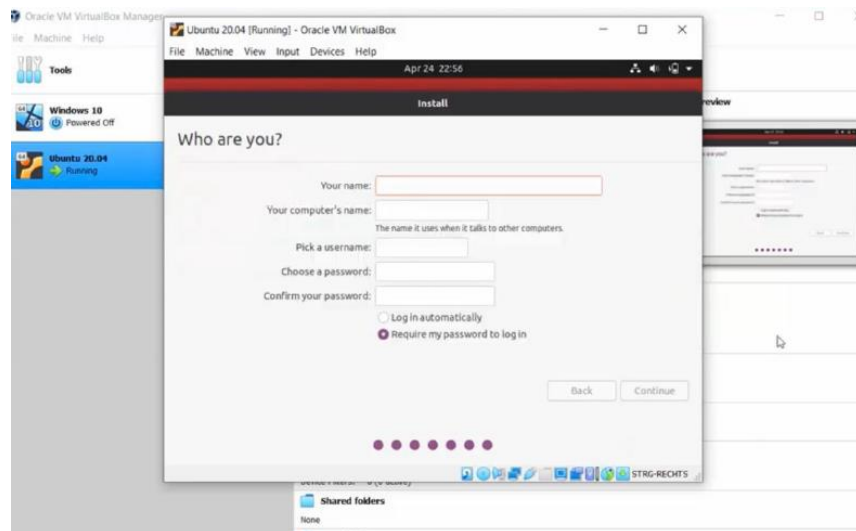In the picture below we can set the username and password.

Figure 22

Here you press Restart to install Ubuntu and after that the system is ready
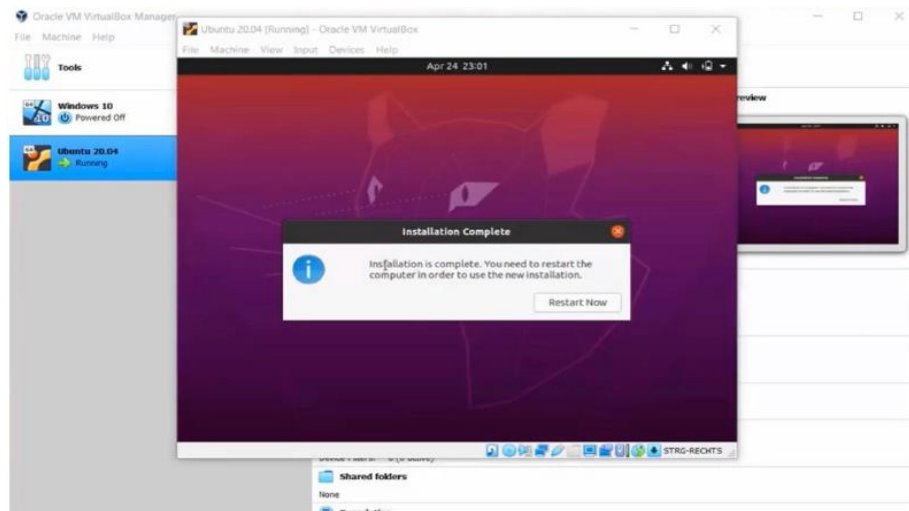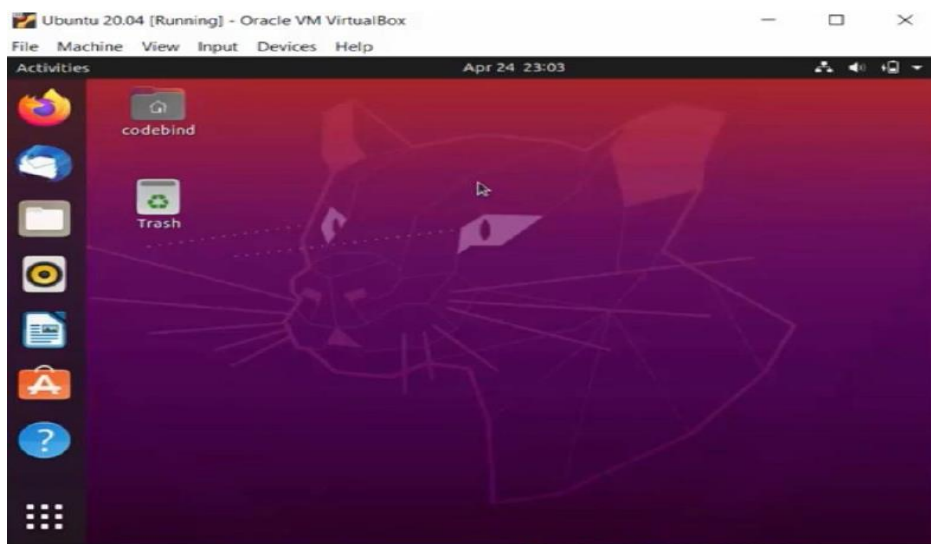
Figure 23

Figure 24

The ROS system will remains installed and it must be the latest version which is noetic compatible with the latest version of Ubuntu

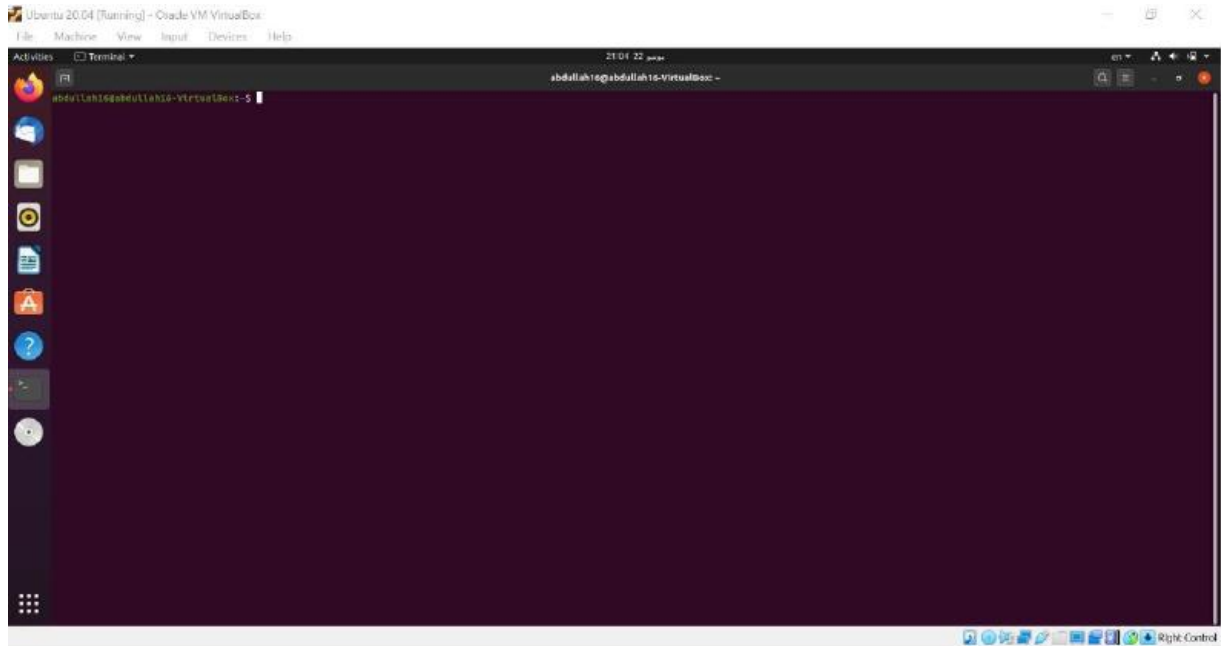First we open terminal by click: **Ctrl + alt + T**

Figure 25

Then write the following code and then we press enter. It asks you to enter the password we enter in the begging because it does not appear and then we press enter.

```
wget -c
https://raw.githubusercontent.com/qboticslabs/ros_install_noetic/master/ros
_install_noetic.sh && chmod +x ./ros_install_noetic.sh &&
./ros_install_noetic.sh
```
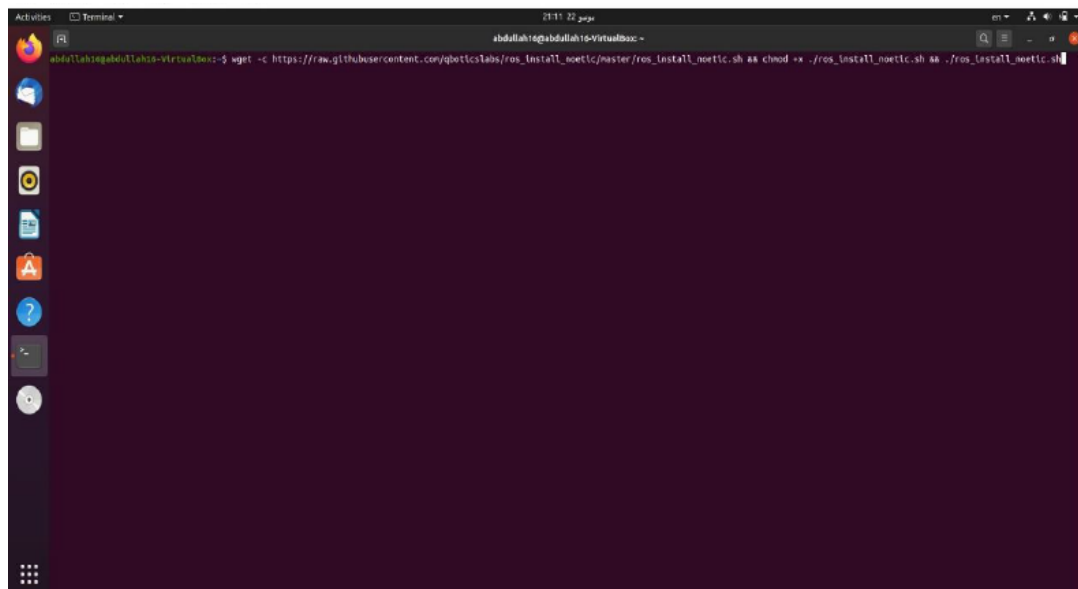

Figure 26

We have to wait for few minutes until it reaches this image and asks you to click enter, then press enter and wait until the **desktop_full** installation is complete with all the feature.

Thanks for your attention

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