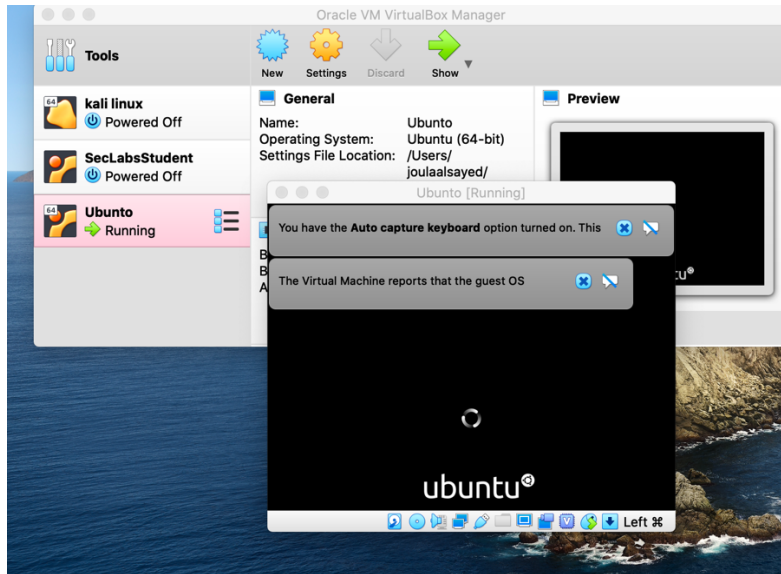
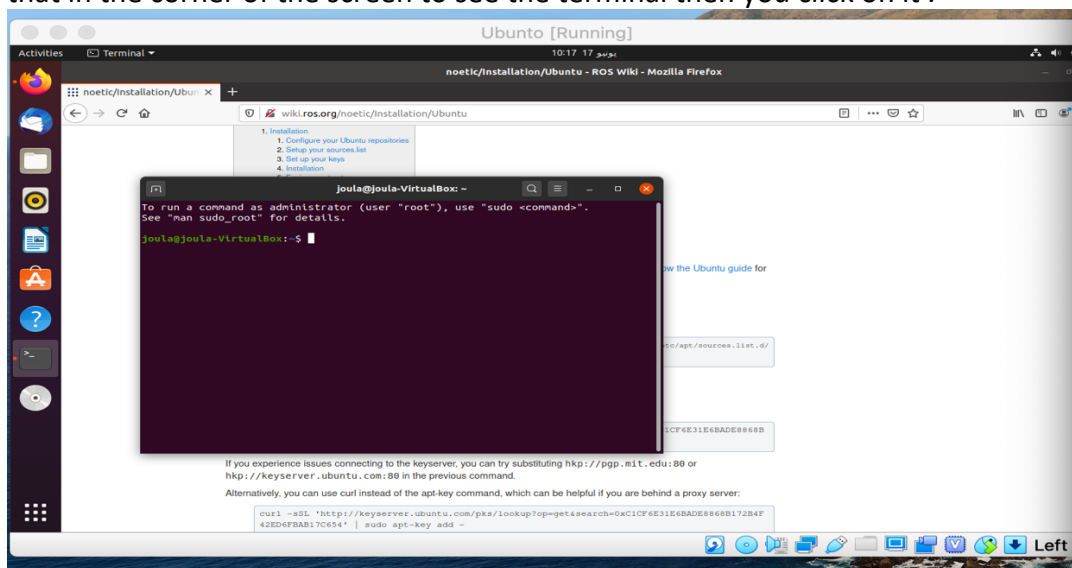


Steps to upload ROS :

1-First I uploaded ubuntu in the Virtualbox



2- open the firefox inside the ubuntu ,then search for ROS installation then you click on the dots that in the corner of the screen to see the terminal then you click on it .

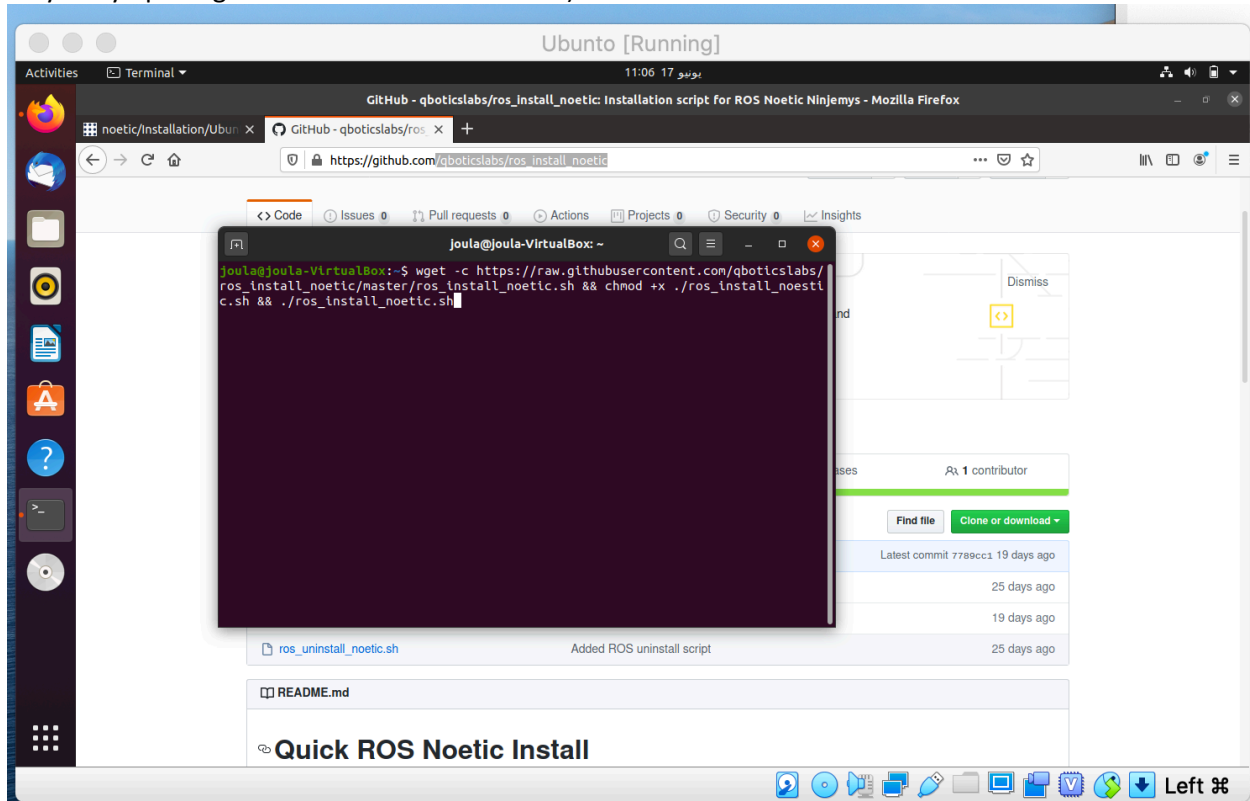


3- write in the terminal

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

(I don't know if it makes any differences, but I opened the link

"github.com/qboticslabs/ros_install_noetic" because the first time didn't work with me so I thought maybe by opening the link it will make it easier)

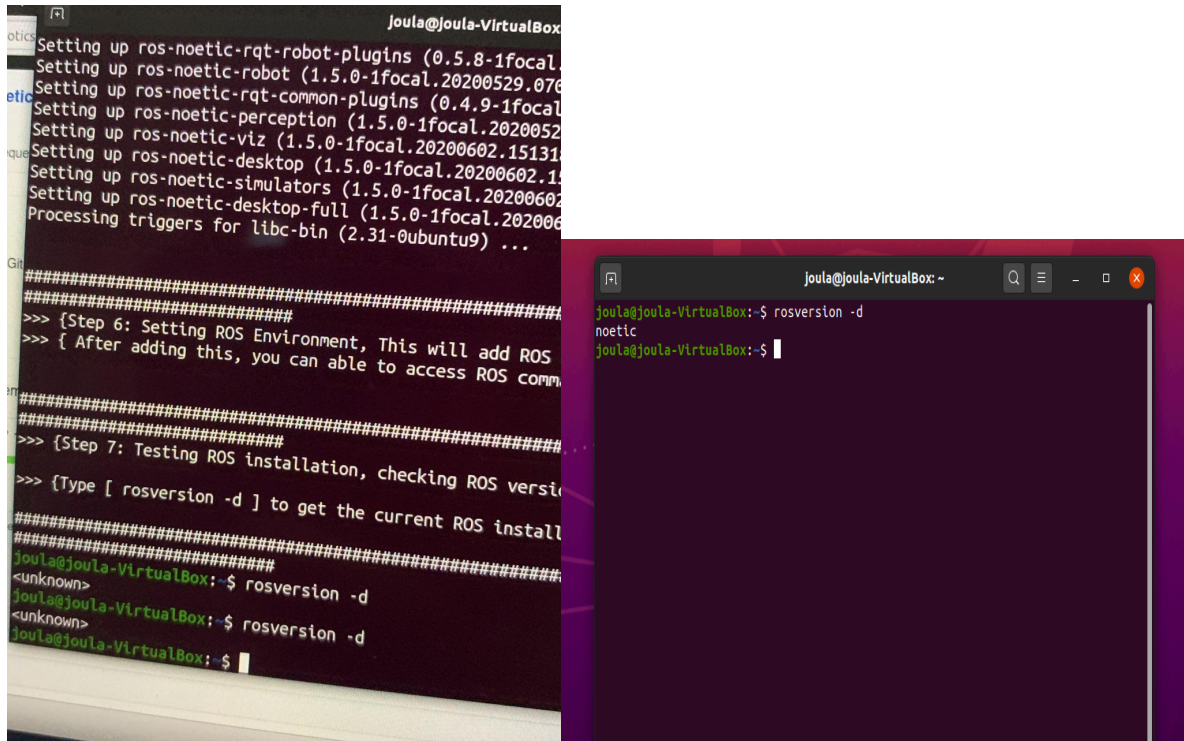


4- after a few minutes of downloading this message will show write 1

```
[2. Desktop Install: Everything in ROS-Base plus tools like rqt and rviz  
[3. ROS-Base: (Bare Bones) ROS packaging, build, and communication libra  
s. No GUI tools.]  
Enter your install (Default is 1):1
```

5- when it finish installation write : `rosversion -d`

(if it show you the same message in the first picture i got its ok you just need to close the terminal then re-open it and type again `rosversion -d`)



The image contains two terminal screenshots. The left screenshot shows the final steps of ROS Noetic installation on a system named 'joula'. It lists the installation of various packages like `ros-noetic-rqt-robot-plugins`, `ros-noetic-robot`, `ros-noetic-rqt-common-plugins`, `ros-noetic-perception`, `ros-noetic-viz`, `ros-noetic-desktop`, `ros-noetic-simulators`, and `ros-noetic-desktop-full`. It then shows instructions for Step 6 (Setting ROS Environment) and Step 7 (Testing ROS Installation). The user runs `rosversion -d` three times, each time receiving the output `<unknown>`. The right screenshot shows a terminal window titled 'joula@joula-VirtualBox: ~' where the user runs `rosversion -d` and receives the output `noetic`.

```
joula@joula-VirtualBox:~$ rosversion -d
noetic
joula@joula-VirtualBox:~$
```

References that helped me

<https://www.youtube.com/watch?v=lgrpSi2Xueg&t=3s>

<https://www.youtube.com/watch?v=w4ekgzYG0bM>

<https://www.youtube.com/watch?v=aJcc-xC6krE>