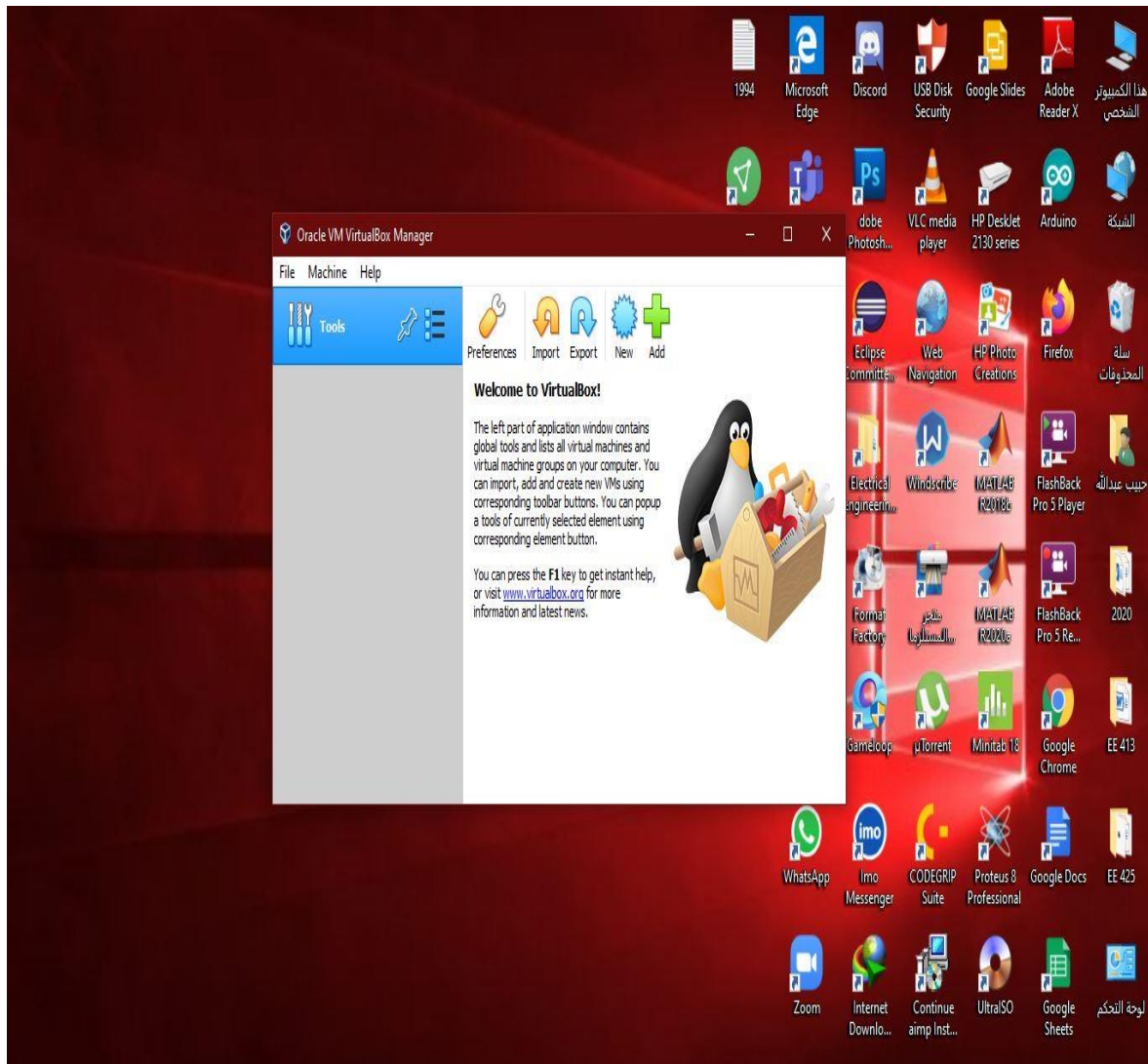


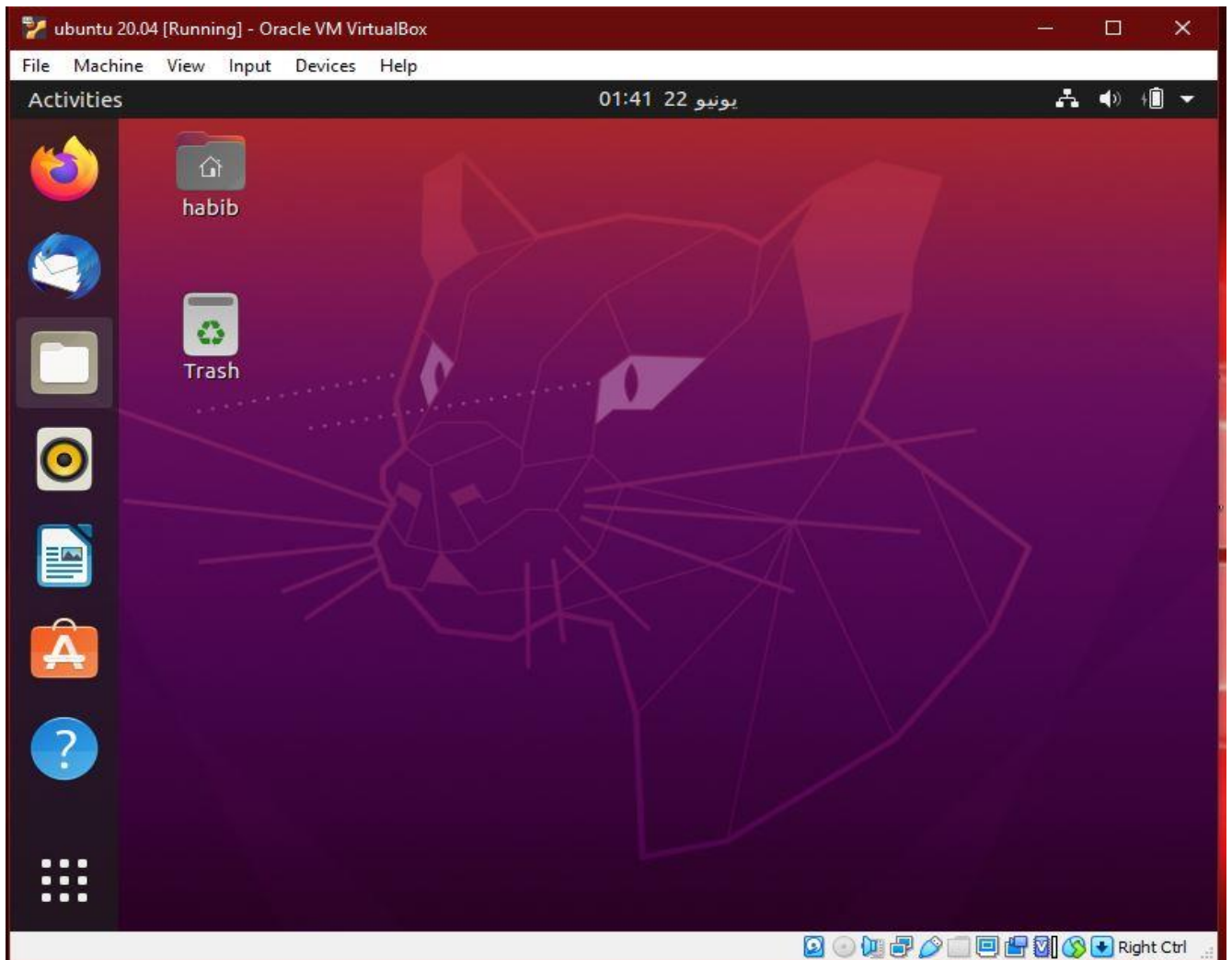
Task#1

Install virtual box, Ubuntu, and Ros

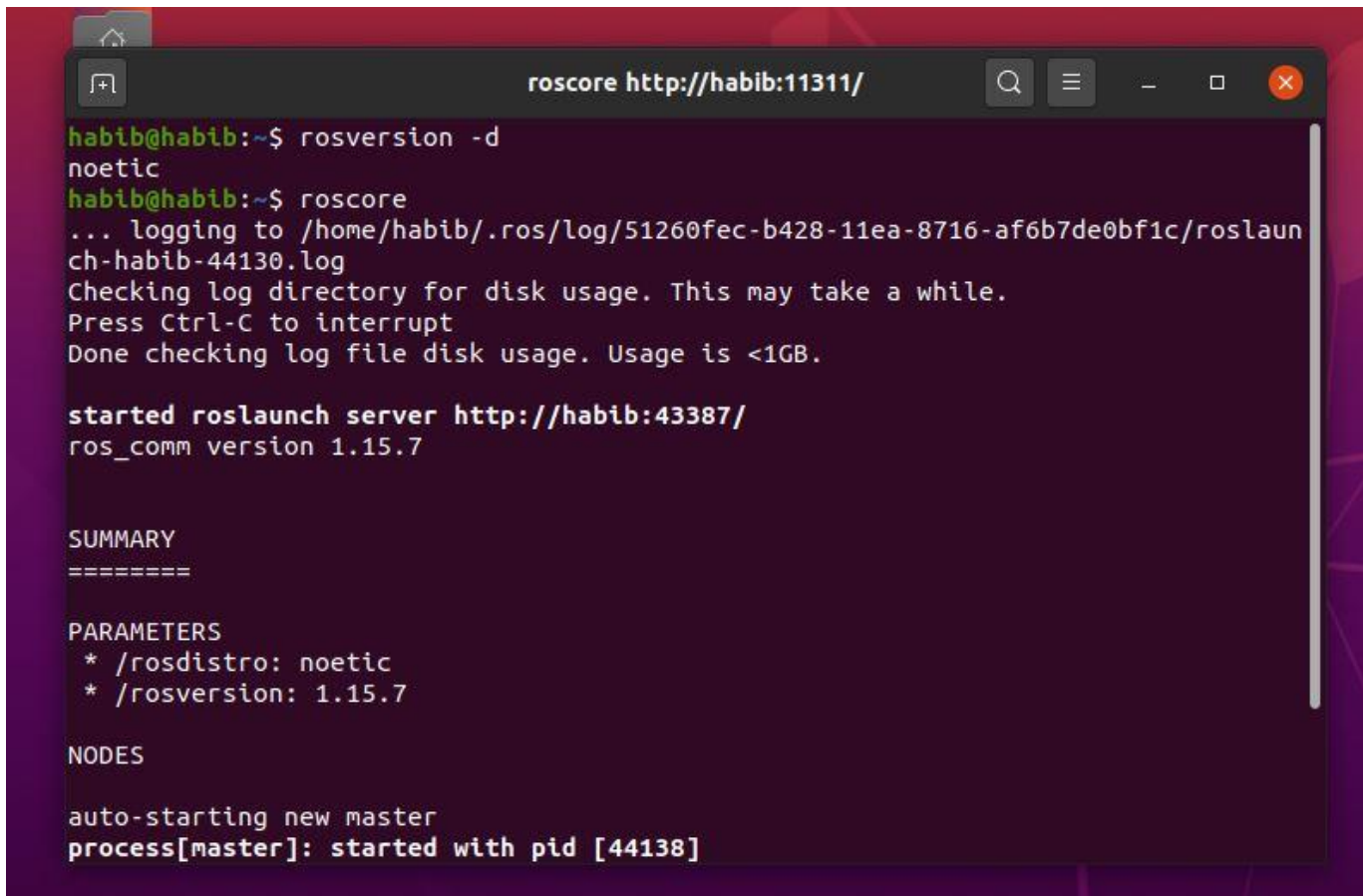
1. Virtual box



2. Ubuntu:



3. Ros:

A terminal window titled 'roscore http://habib:11311/' is shown. The terminal has a dark background with light-colored text. The user 'habib' is at the prompt 'habib@habib:~\$'. They run 'rosversion -d' which outputs 'noetic'. Then they run 'roscore' which outputs several lines of information: logging to a specific directory, checking log directory for disk usage (usage is <1GB), starting a roslaunch server at 'http://habib:43387/' with 'ros_comm version 1.15.7'. Below this, a 'SUMMARY' section is followed by 'PARAMETERS' listing '/rostdistro: noetic' and '/rosversion: 1.15.7'. Then a 'NODES' section follows with the text 'auto-starting new master' and 'process[master]: started with pid [44138]'.

```
habib@habib:~$ rosversion -d
noetic
habib@habib:~$ roscore
... logging to /home/habib/.ros/log/51260fec-b428-11ea-8716-af6b7de0bf1c/roslaun
ch-habib-44130.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://habib:43387/
ros_comm version 1.15.7

SUMMARY
=====

PARAMETERS
* /rostdistro: noetic
* /rosversion: 1.15.7

NODES

auto-starting new master
process[master]: started with pid [44138]
```