CS8711 –CLOUD COMPUTING LABORATORY

18-12-20 ①

CS8711 - Cloud Computing Laboratory

Semester Practical Exam

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Class : CSE - C
Date : 18-12-2020
Session : FN
Subject code : CS8711
Subject name : Cloud Computing Laboratory.

Aim :

To install a Virtual Machine (Ubuntu), install jdk for java and run a sample Java program.

Procedure:

1) Create a new virtual machine by clicking on the New button in virtual box. Set the type as Linux and version as Ubuntu 64-bit.
2) Allocate 1GB of RAM
3) Create a virtual hard disk of type VDI (Virtual Disk Image)
4) Dynamically allocate storage and set the hard disk size to 10GB.
5) Once the vm has been created, in settings, set shared clipboard and drag n drop to bidirectional.

6) Let the network adapter be NAT.

7) Click on the virtual machine and select the downloaded Ubuntu 16.04 (64-bit) ISO image as the start-up disk.

8) In the next window, select the language as English and click on Install Ubuntu.

9) Select to download the updates while installing Ubuntu and select the installation type as 'Erase disk and install ubuntu'

10) In the next window, confirm if the changes can be written to the disk.

11) Confirm the location displayed.

12) Select the required keyboard layout

13) In the next window, enter the name, computer's name, username and password and proceed with the installation.

14) Once the installation is completed, restart the machine.

15) Check the ip address using the command ifconfig.

16) Install the jdk using the command, 'sudo apt install default-jdk'.

17) Install the jre using the command, 'sudo apt install default-jre'.

18) Check the version using the commands 'java -version' and 'javac -version' (for compiler)

19) A sample Java program to display a Hello World message is written using gedit.

20) The program is compiled using the command 'javac Hello.java'

21) The program is executed using the command 'java Hello' and the output is displayed.

Result:

Thus,

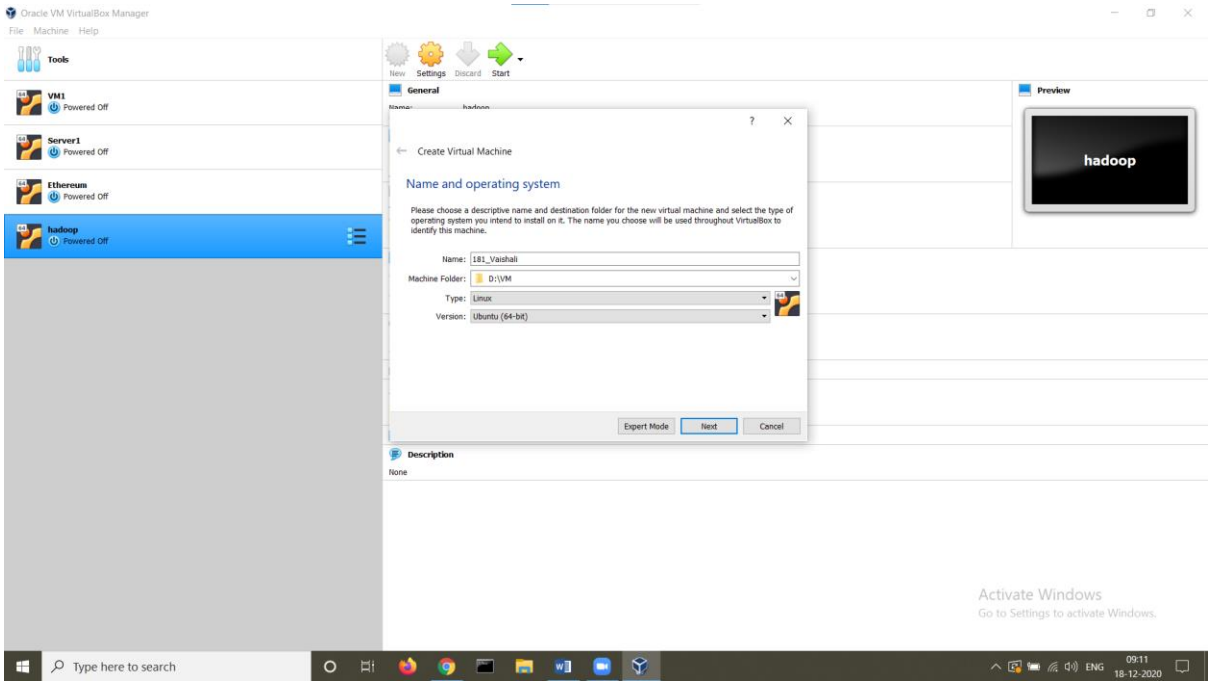
(i) A virtual machine running Ubuntu Desktop 16.04 OS has been installed using Virtual Box

(ii) The JDK has been installed

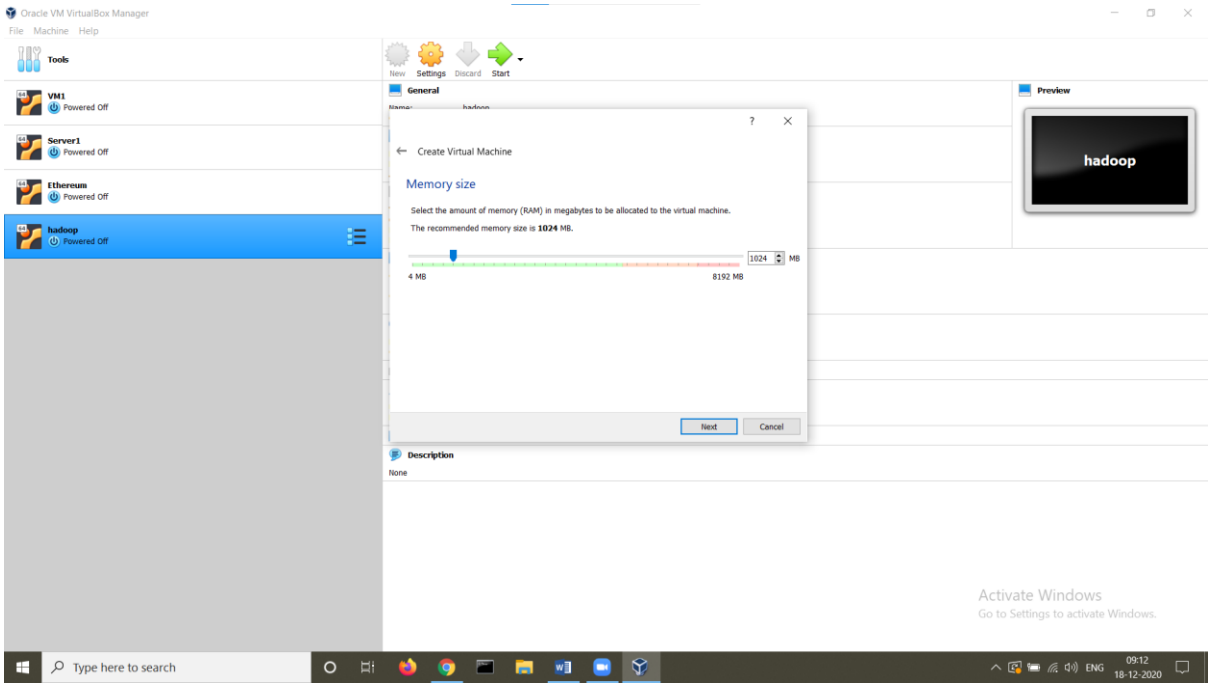
iii) A sample Java program has been compiled and executed successfully in the virtual machine.

OUTPUT SCREENSHOTS:

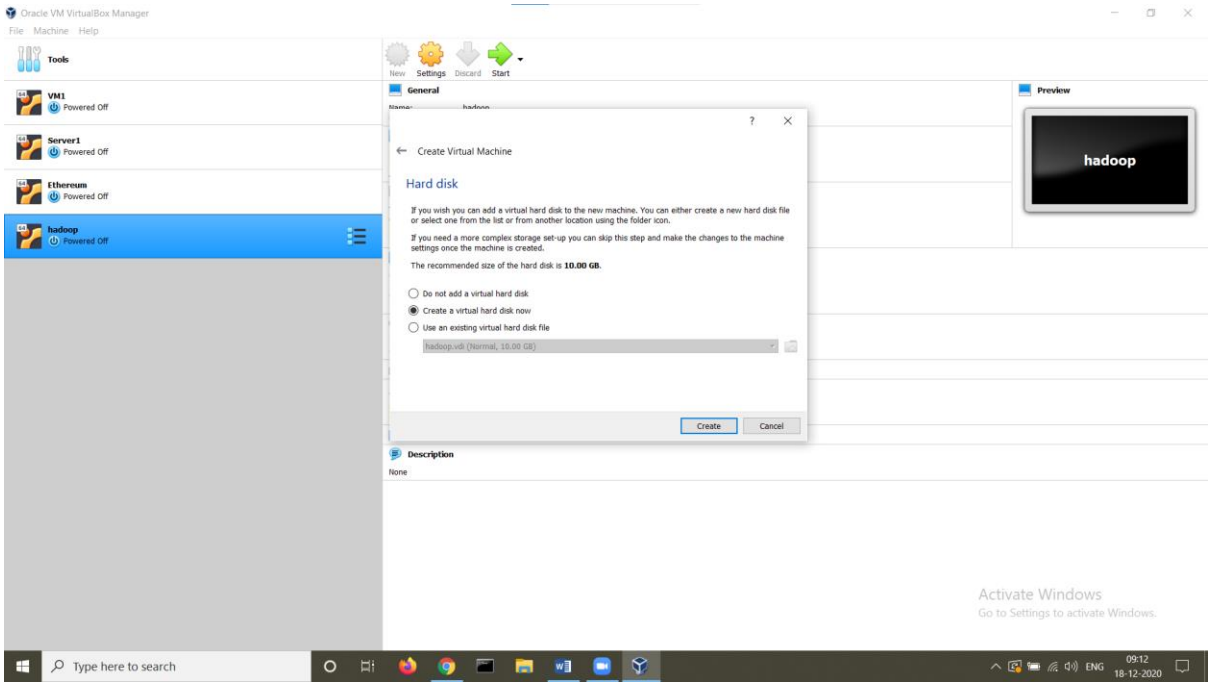
STEP 1: Create a new virtual machine (Ubuntu desktop 16.04)



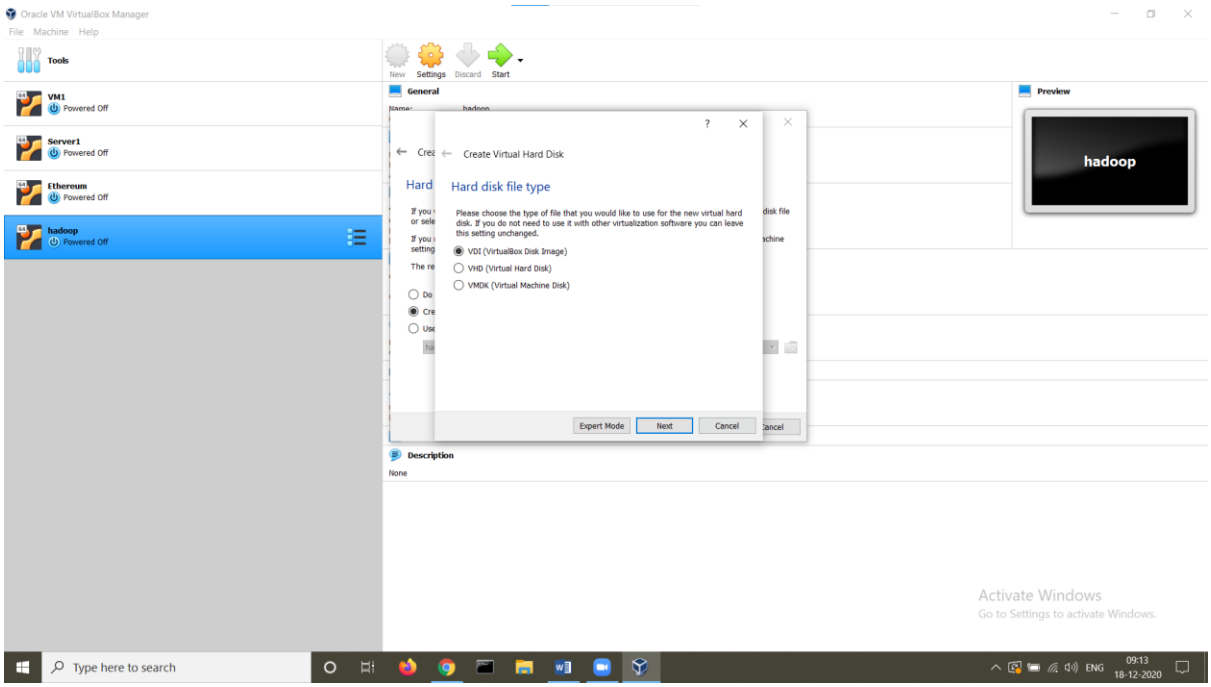
STEP 2: Allocate 1GB of RAM



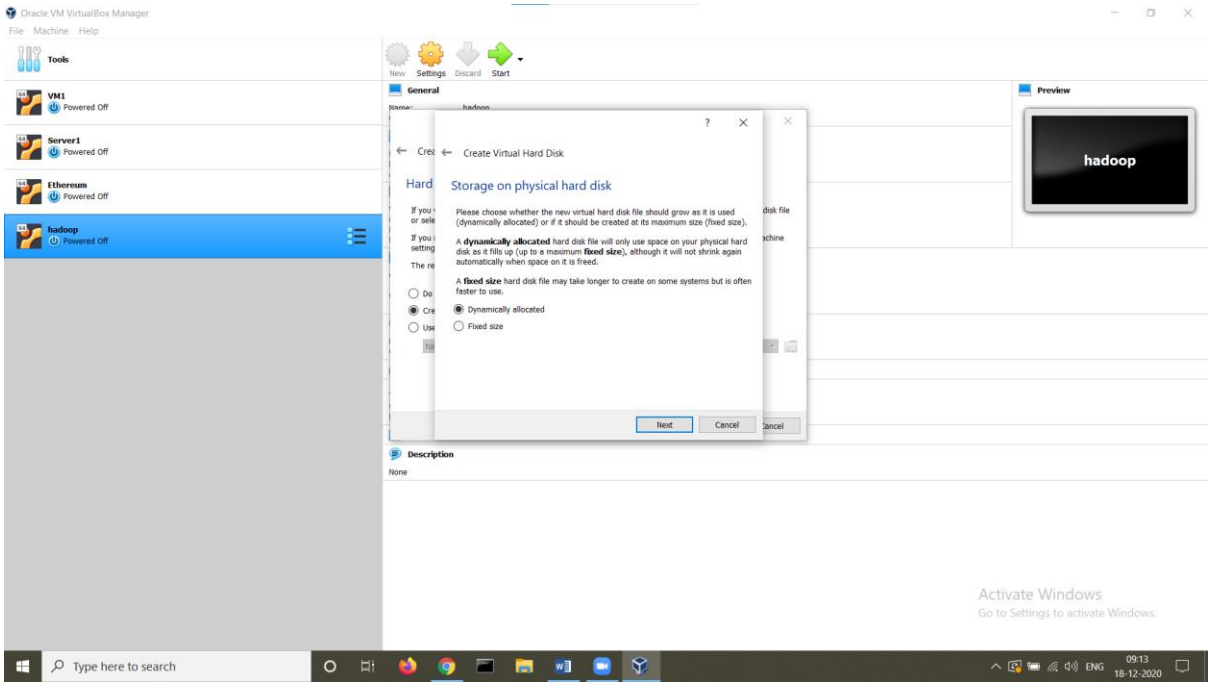
STEP 3: Create a virtual hard disk



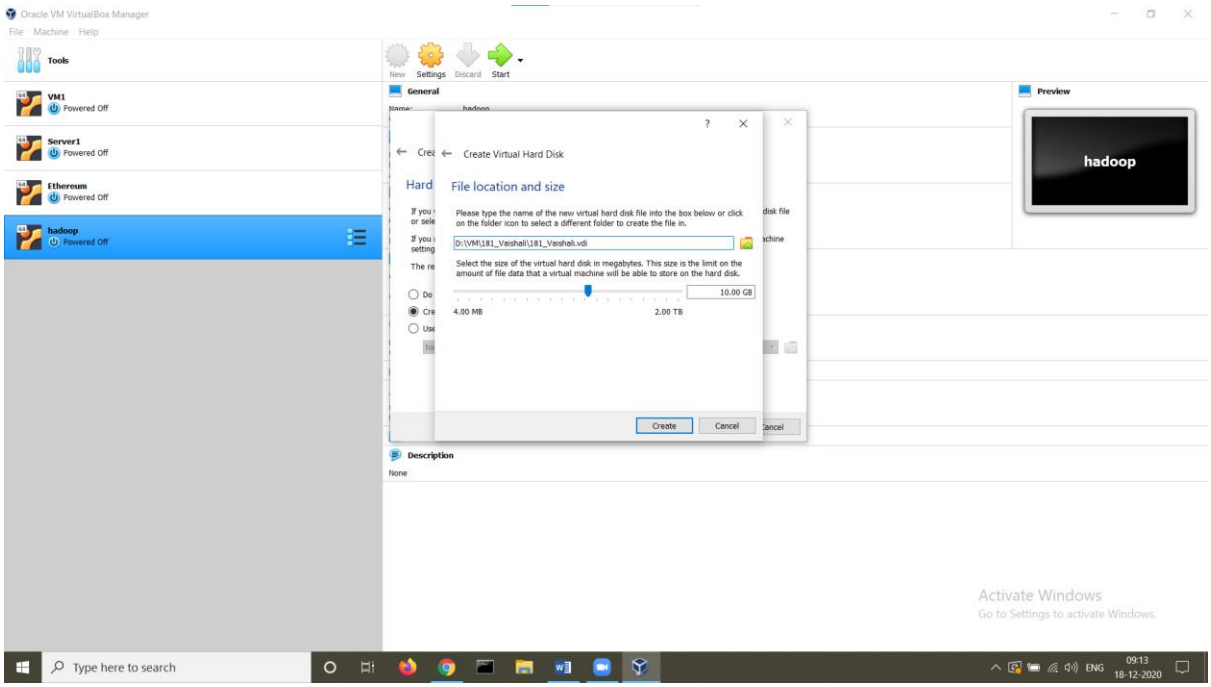
STEP 4: Set hard disk type



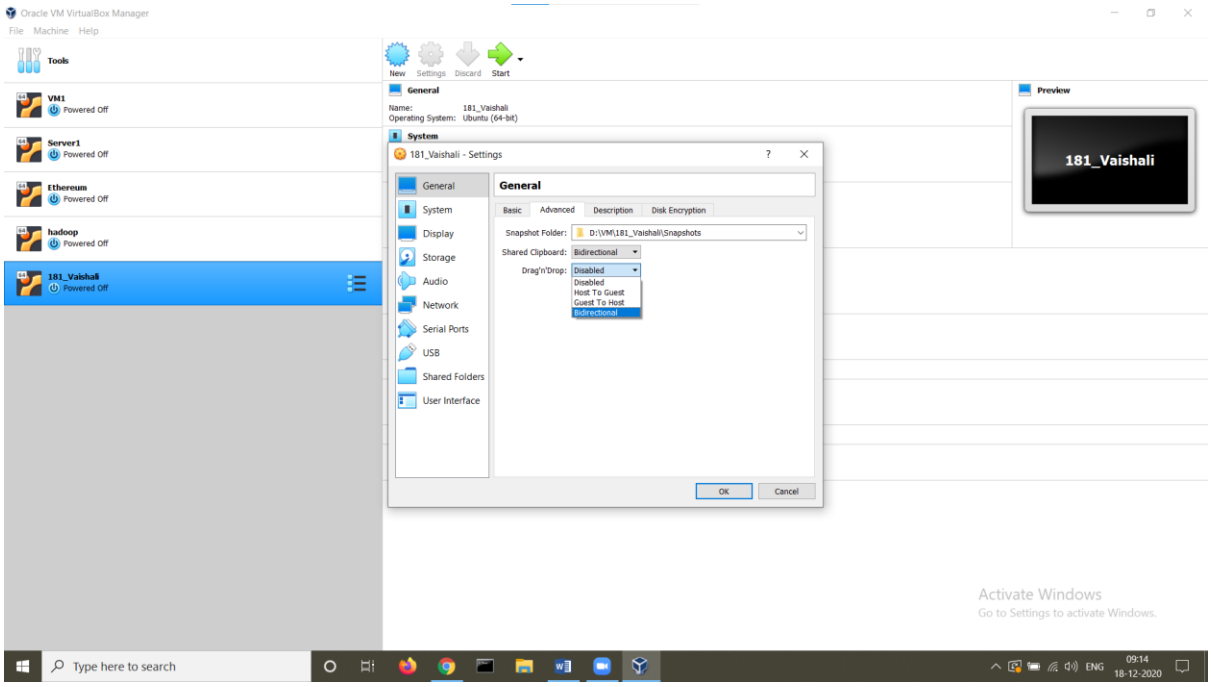
STEP 5: Dynamically allocate storage



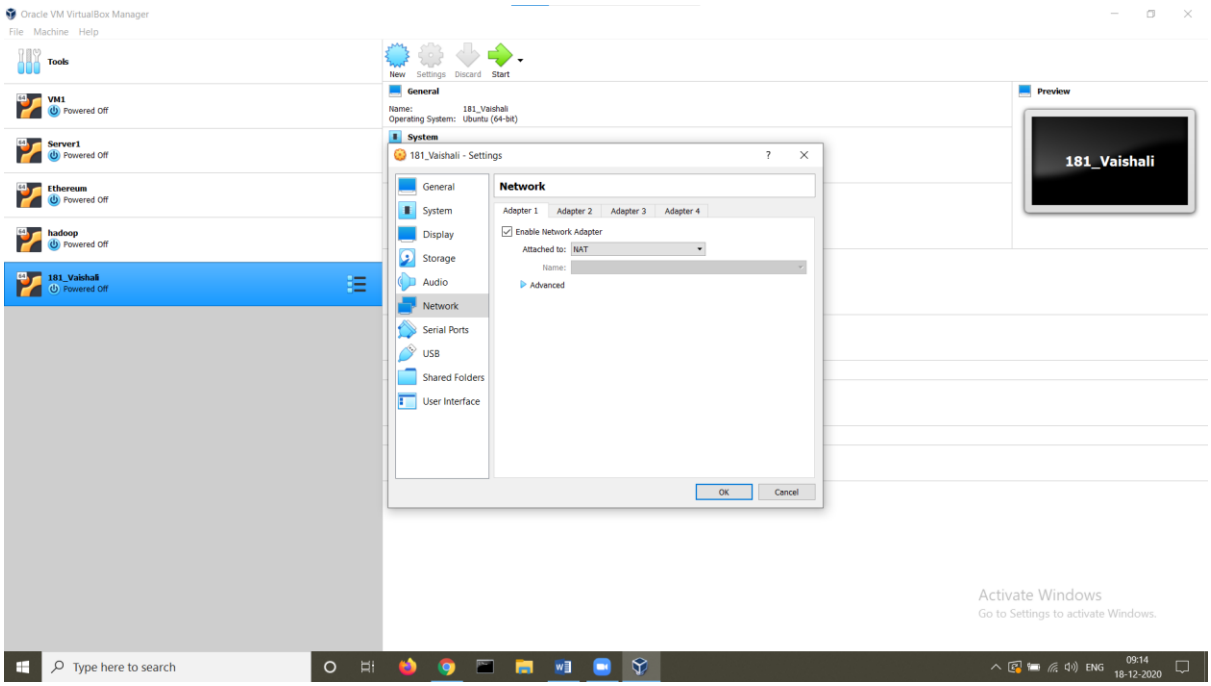
STEP 6: Set the hard disk size to 10 GB



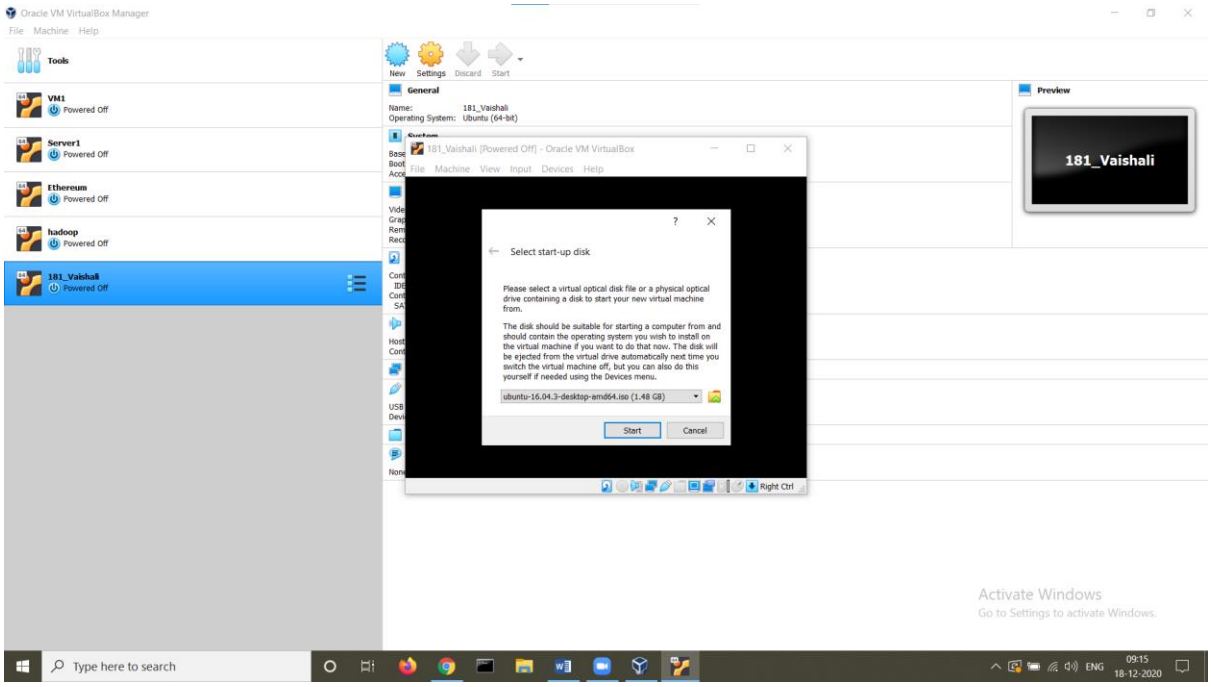
STEP 7: Set shared clipboard and drag n drop to bidirectional



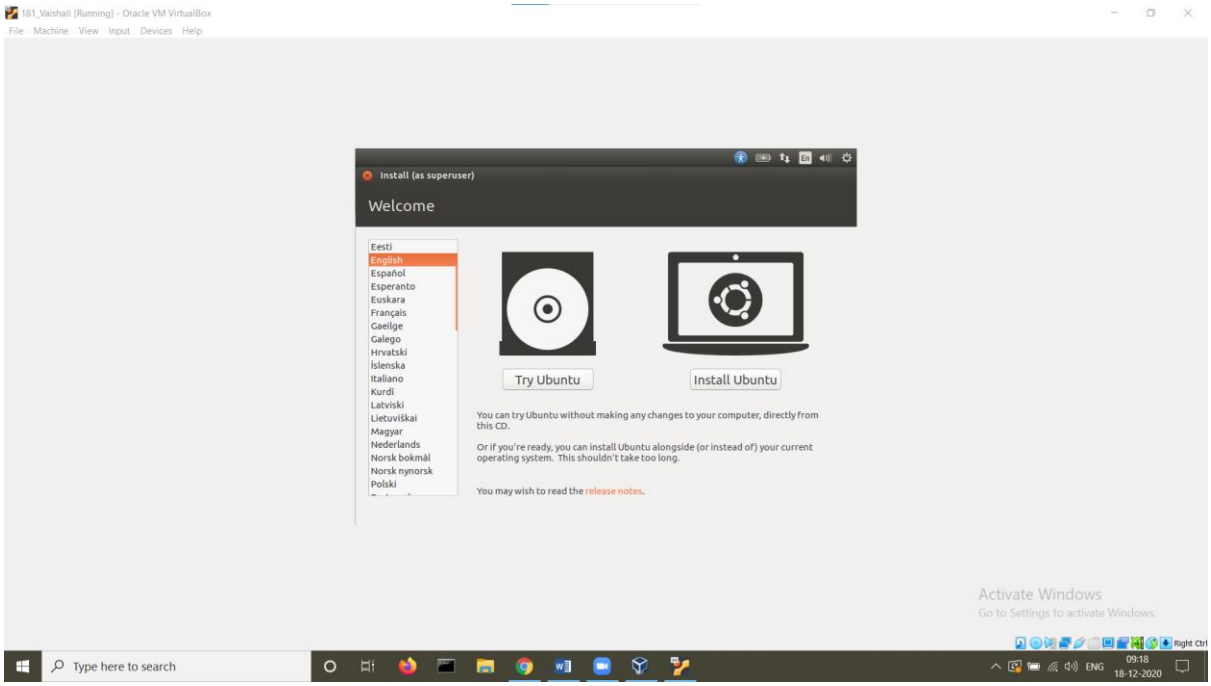
STEP 8: Let the network adapter be NAT



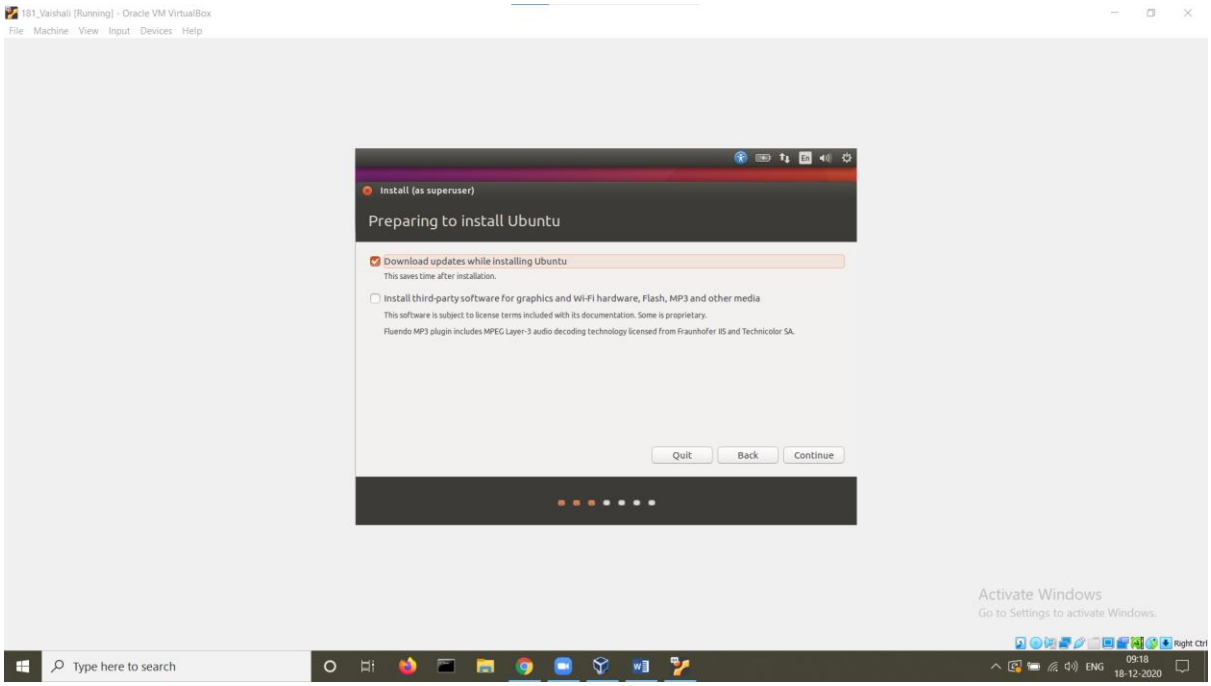
STEP 9: Select the ubuntu iso image

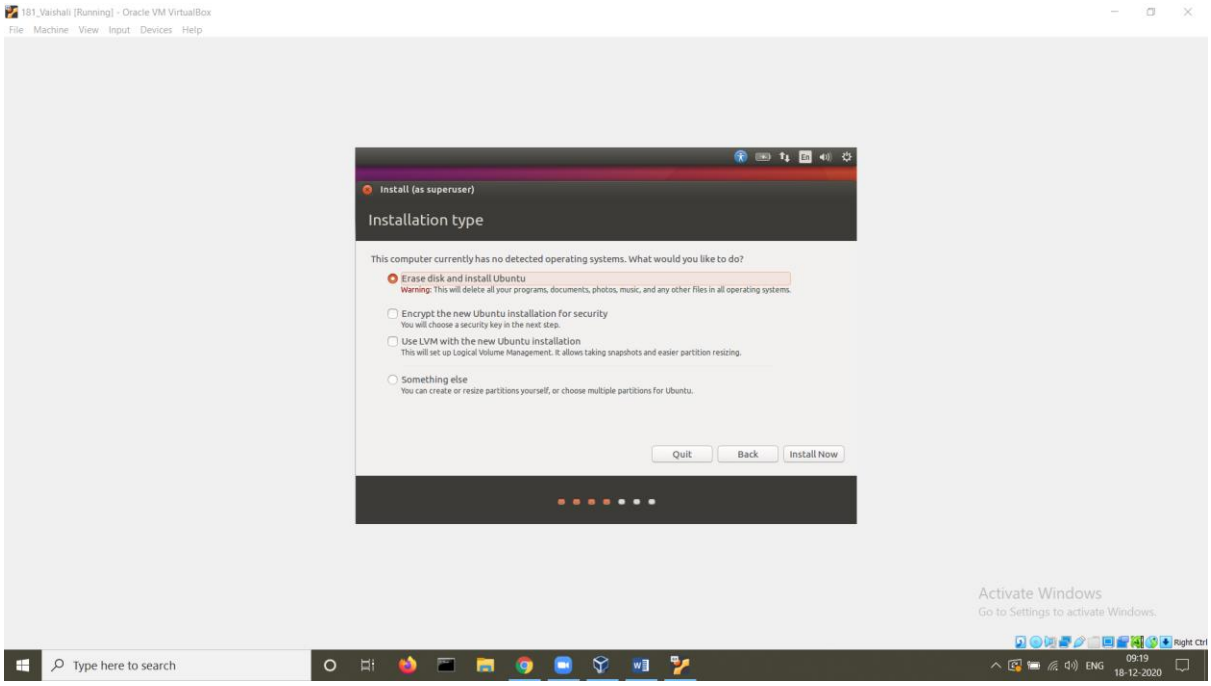


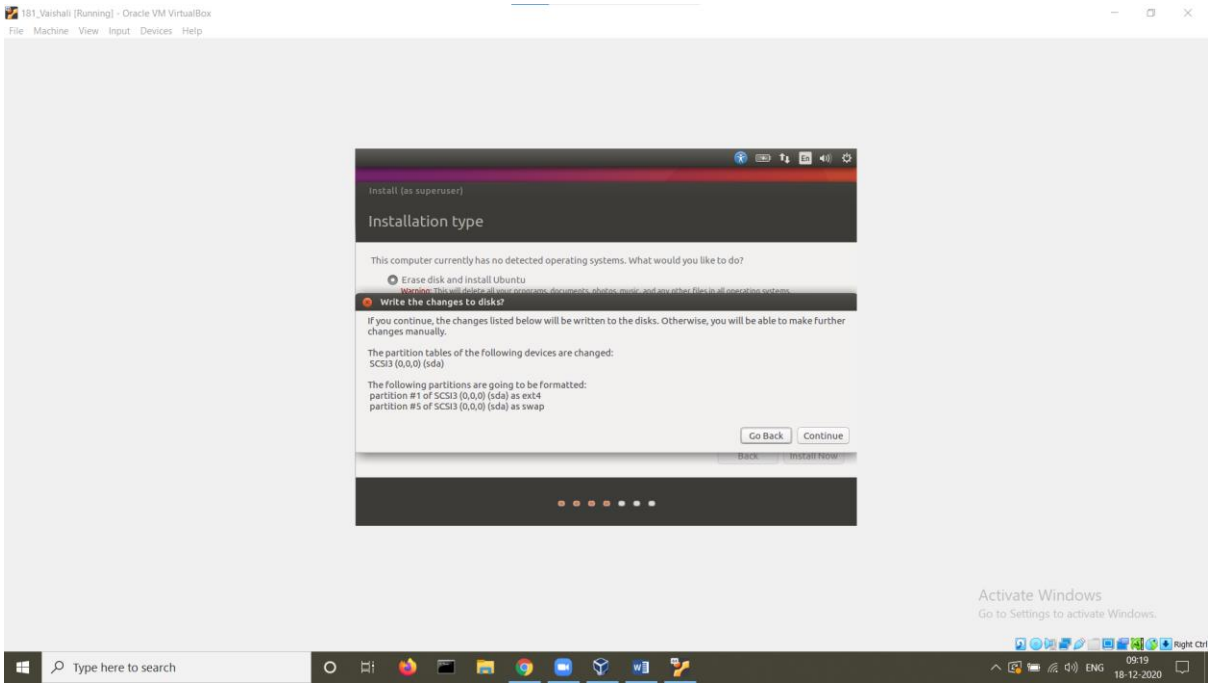
Step 10: Click on install Ubuntu



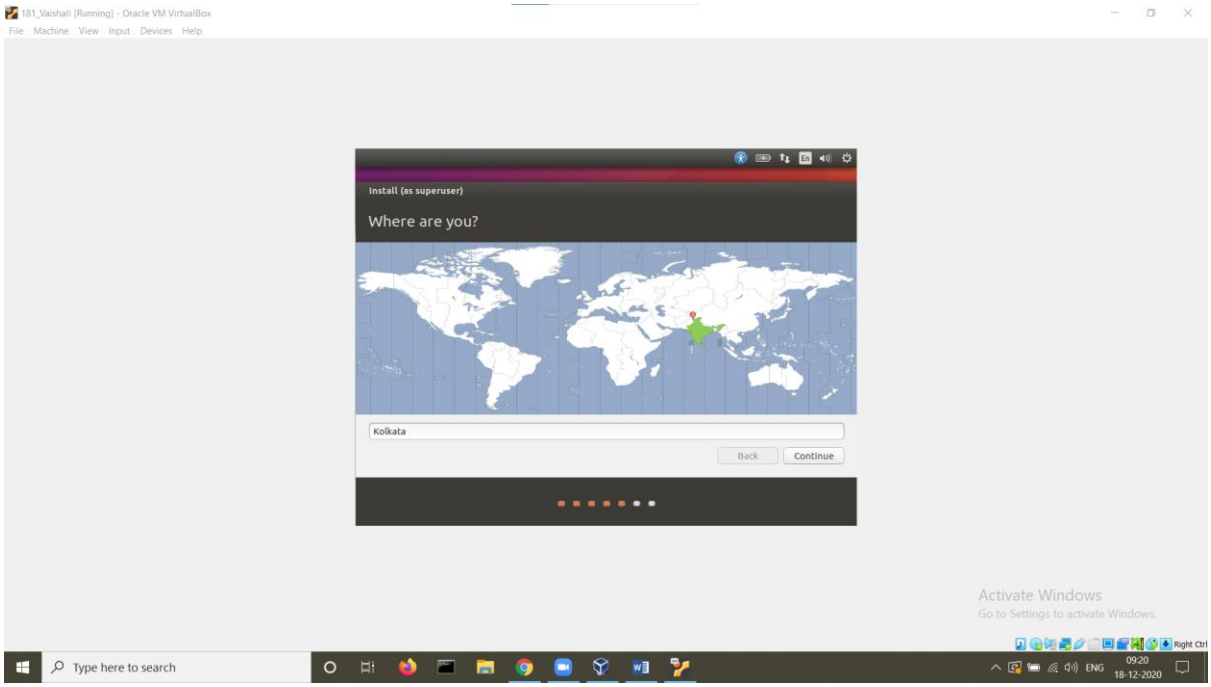
Step 11: Select download updates while installing Ubuntu and the installation type



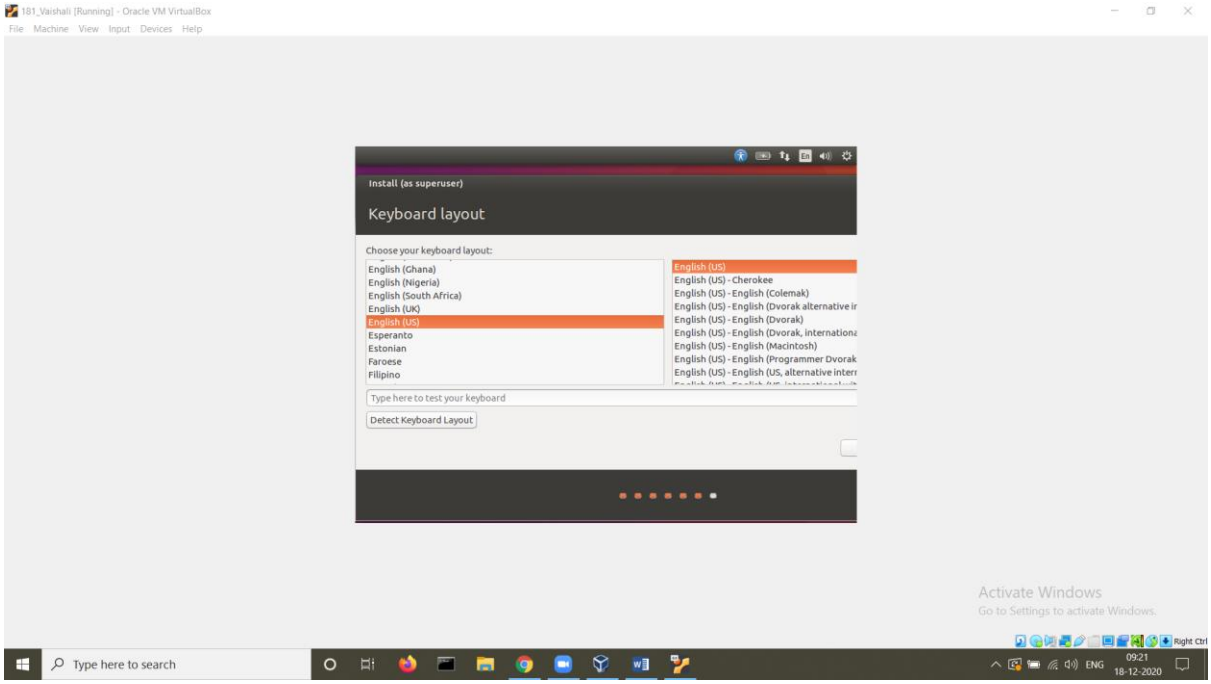




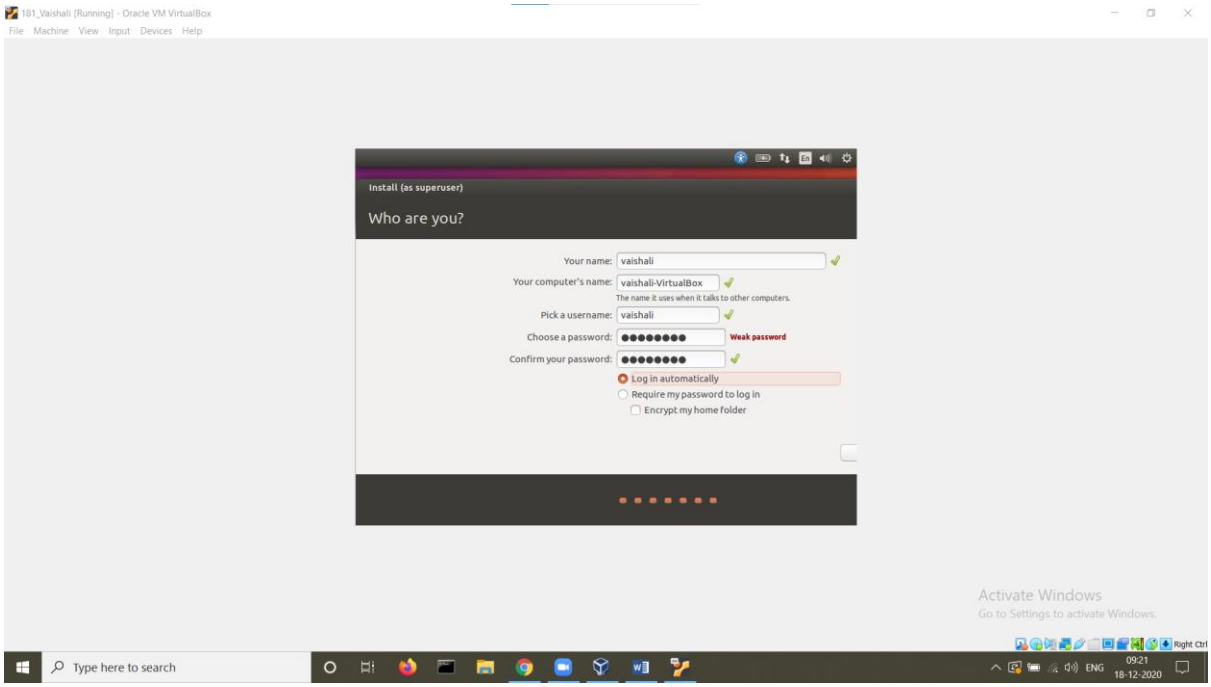
STEP 12: Confirm the location displayed



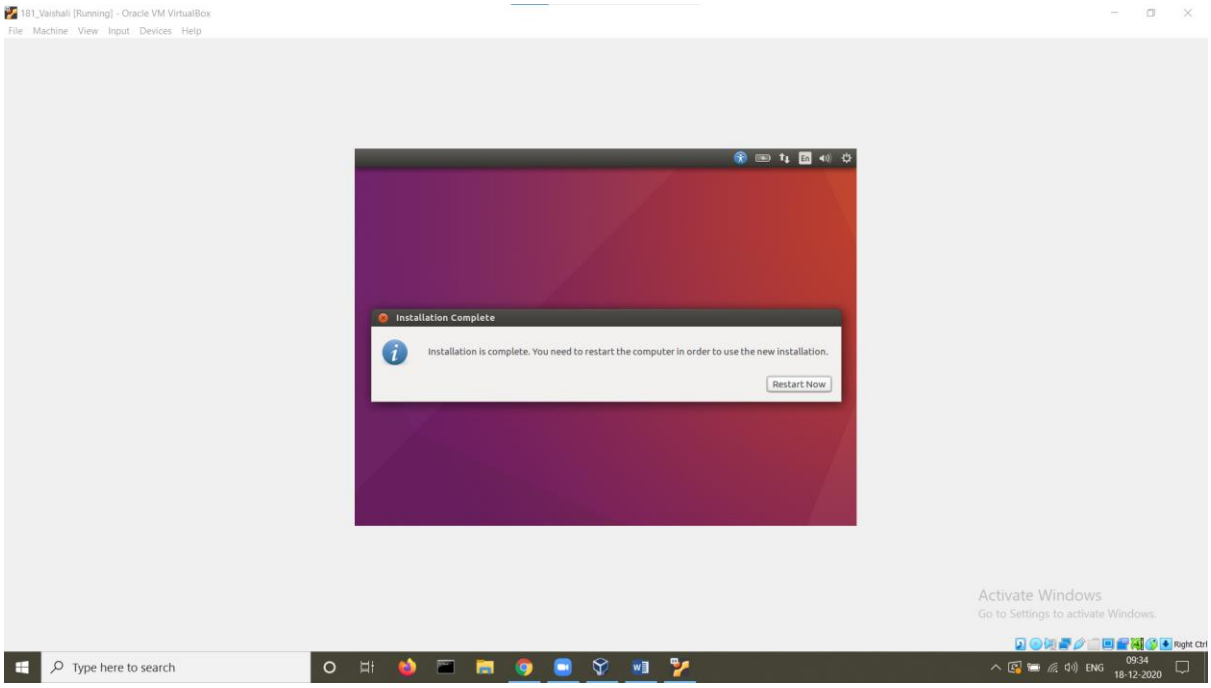
STEP 13: Select the keyboard layout



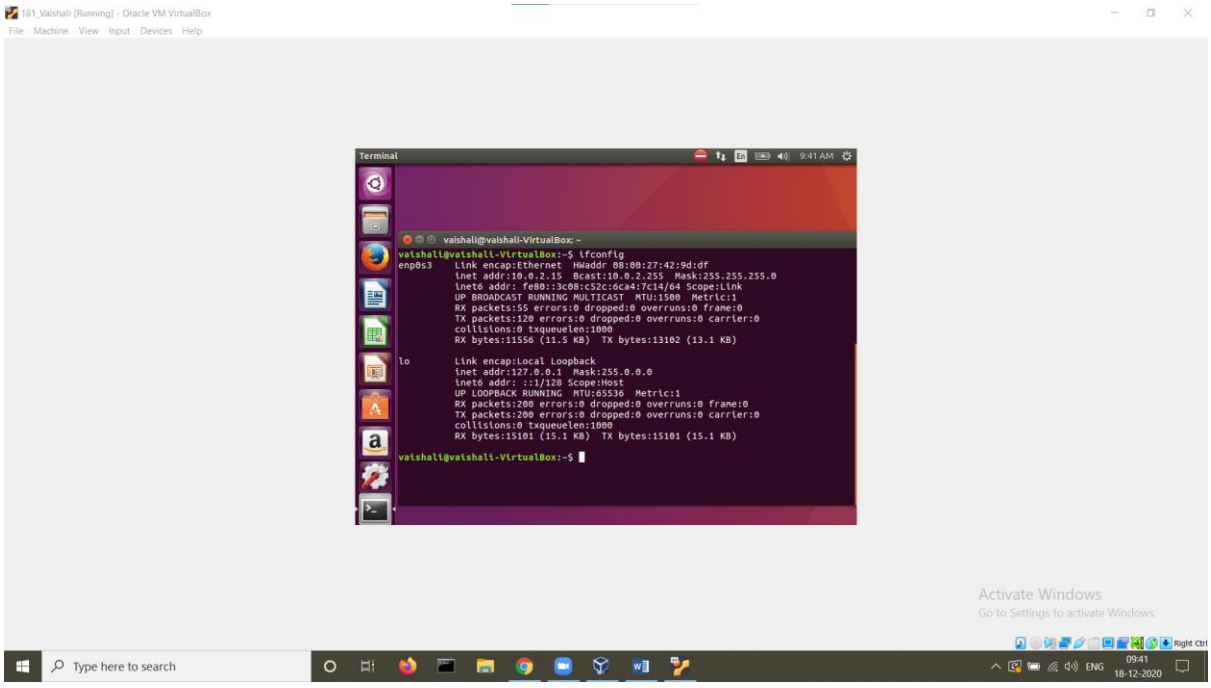
STEP 14: Set the name, computer's name, username and password



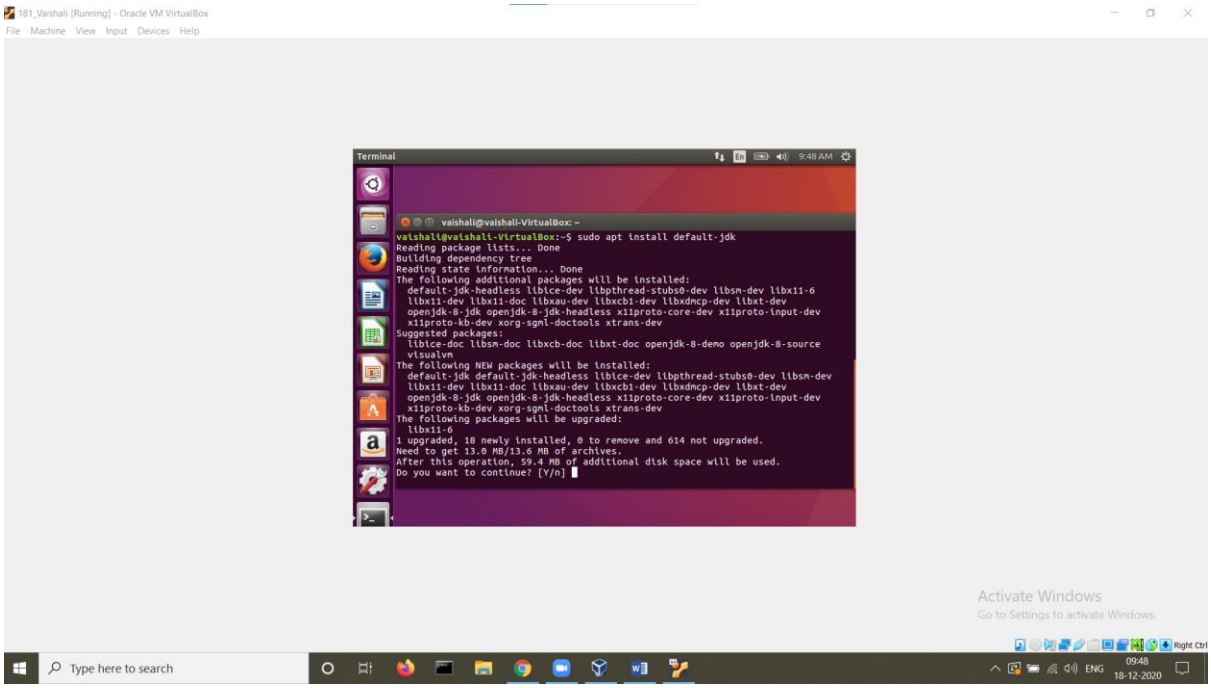
STEP 15: Once the installation is complete, restart the machine.



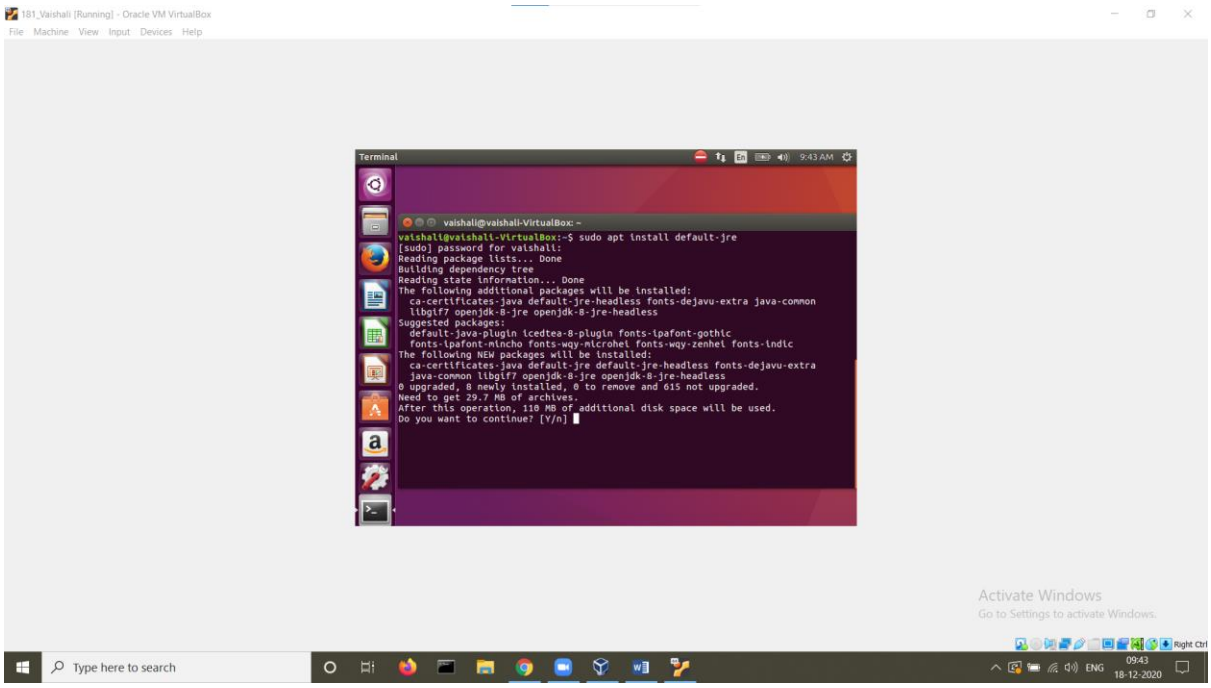
STEP 16: View the ip addess of the machine using the command ifconfig



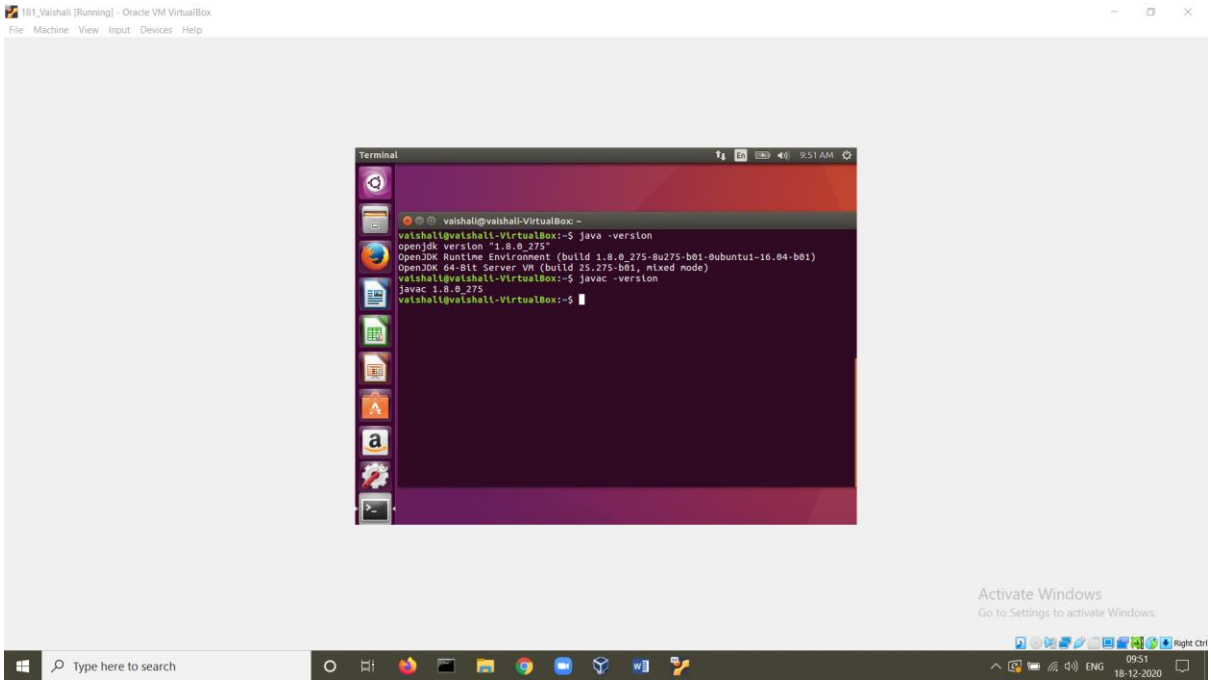
STEP 17: Install the jdk



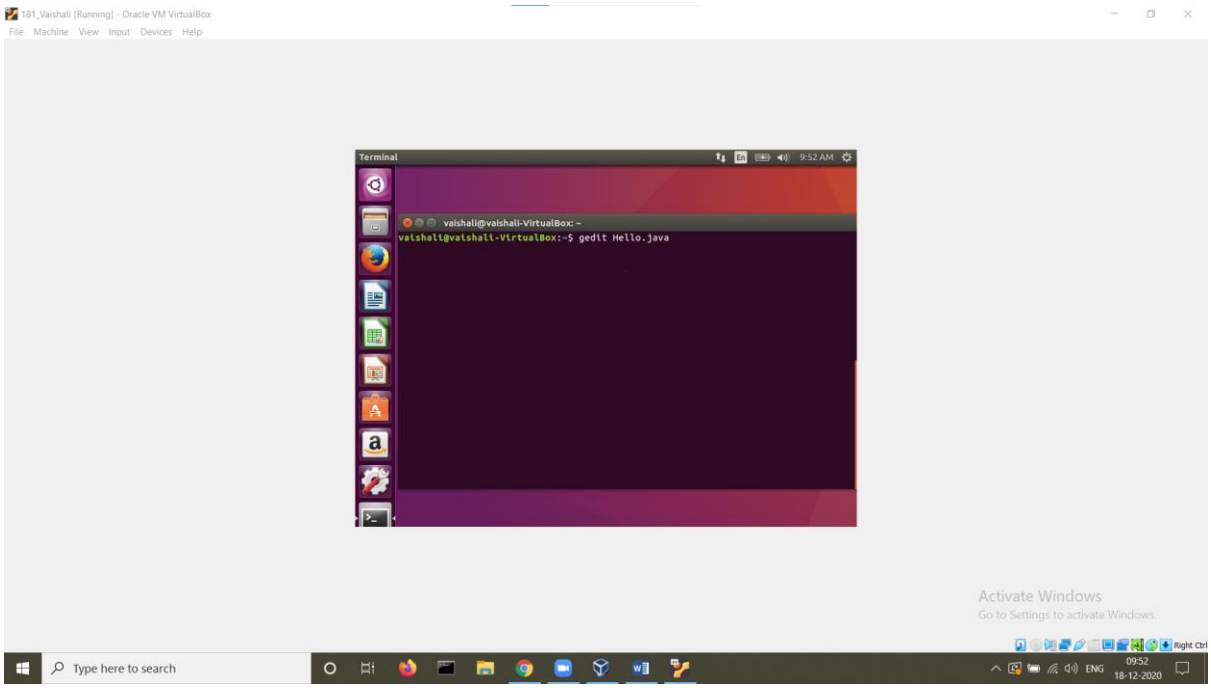
STEP 18: Install the jre



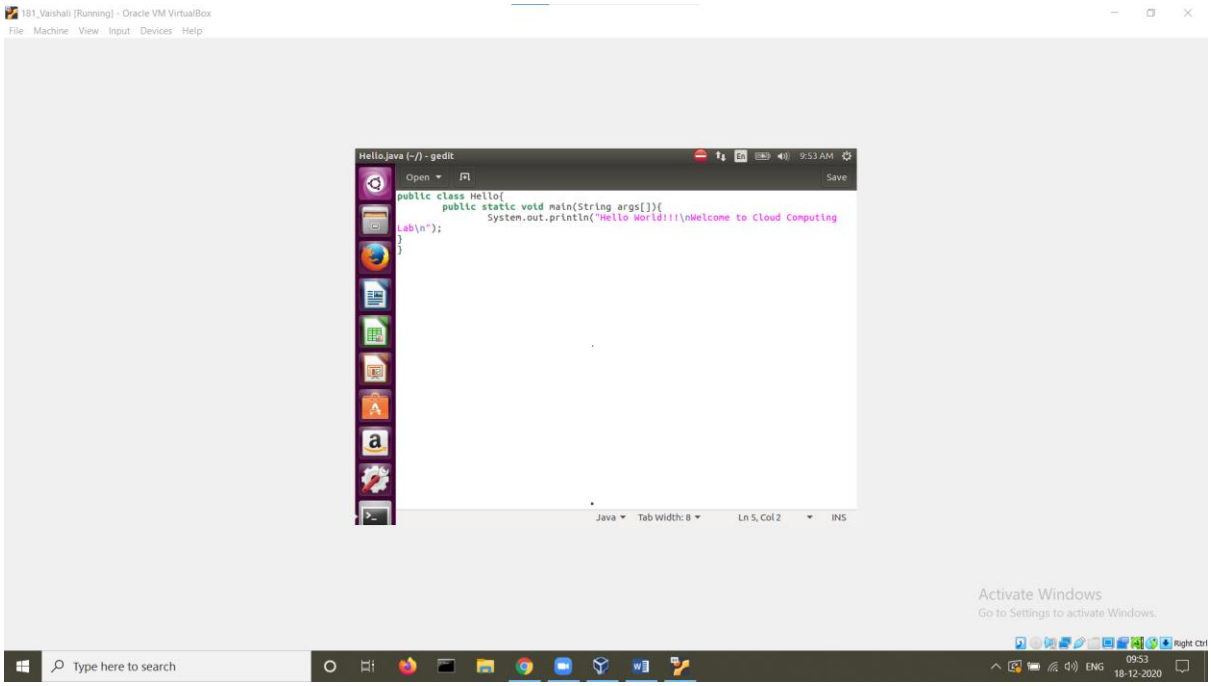
STEP 19: Check the version



STEP 20: Create a new file Hello.java



STEP 21: A java program to display Hello World is written



STEP 22: The java program is compiled and executed.