Datacenter-Virtualization

Creating Virtual Machine in Virtual Box by using Ubuntu & accessing SSH Server from putty

Group Project:

Group Members:

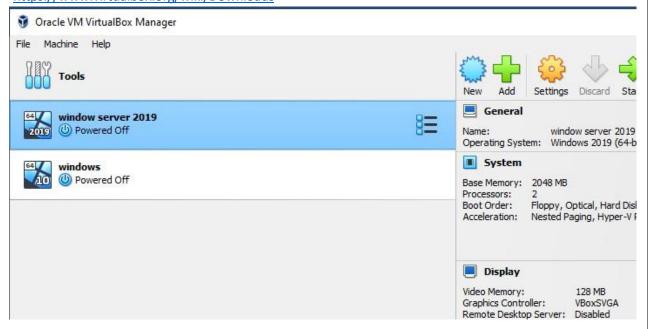
Muqqadas Maqbool 109.

Muhammad Hammad 211-102.

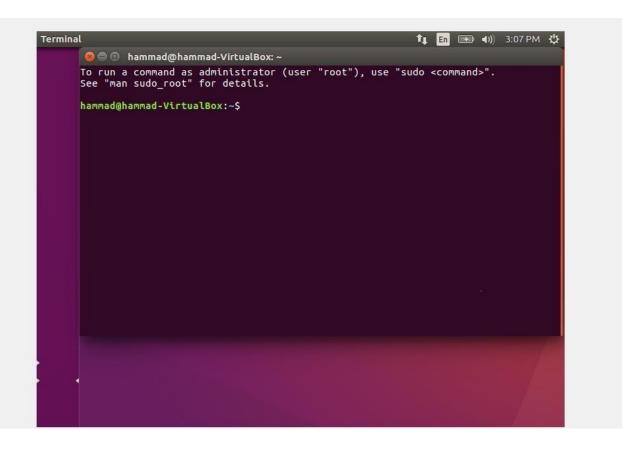
Mahmood Mazhar 036.

Tasks:

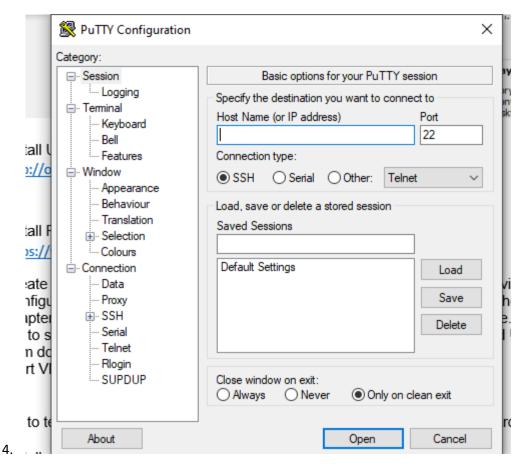
 Install virtual box from the following link: https://www.virtualbox.org/wiki/Downloads



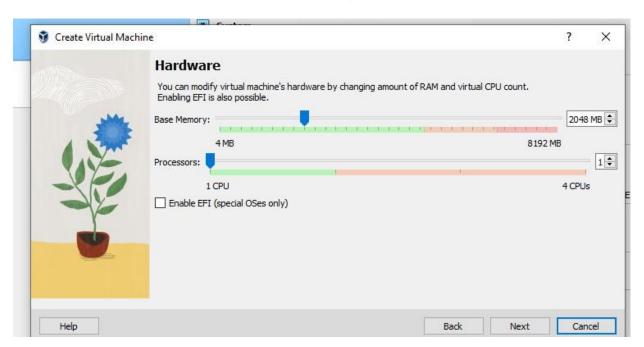
2. Install Ubuntu from the following link: http://old-releases.ubuntu.com/releases/16.04.2/



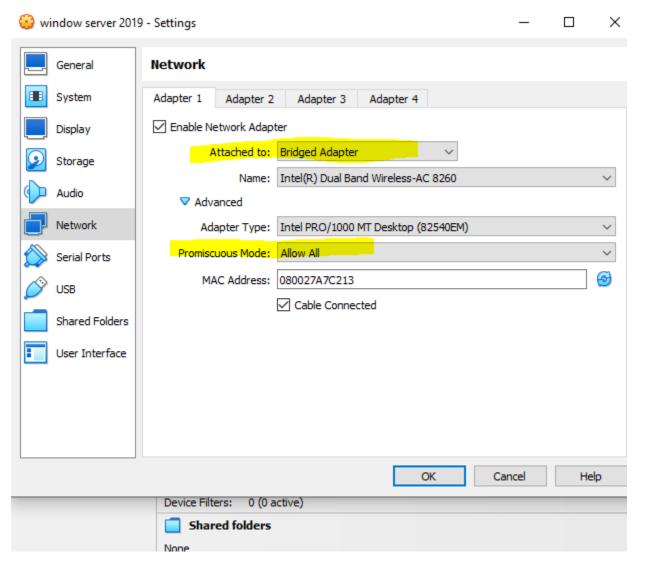
3. Install Putty from the following link: https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html



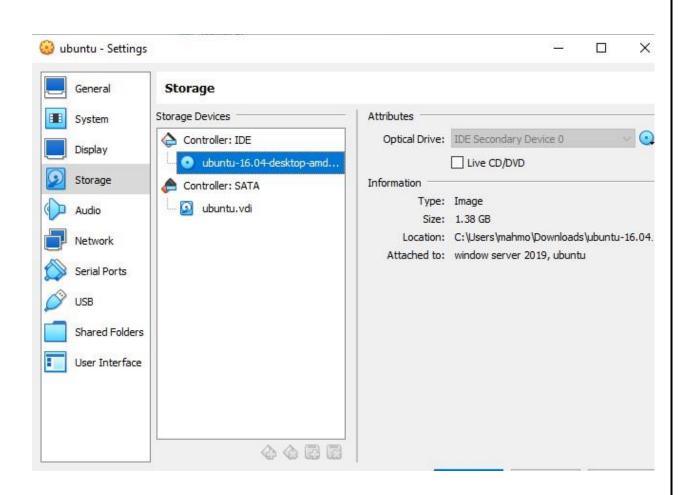
5. Create new virtual machine in virtual box. Reserve space for virtual ram and virtual disk.

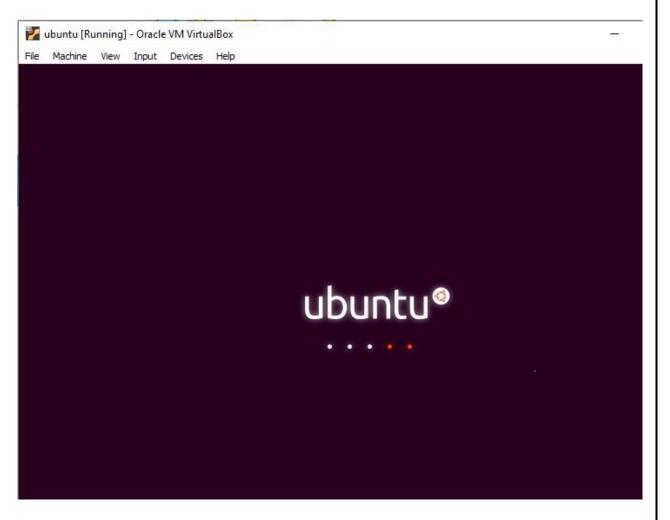


6. Configure settings of virtual box. Go into network tab, select adapter 1 and then bridged adapter. Go to advanced tab of network, select allow all in promiscuous mode.



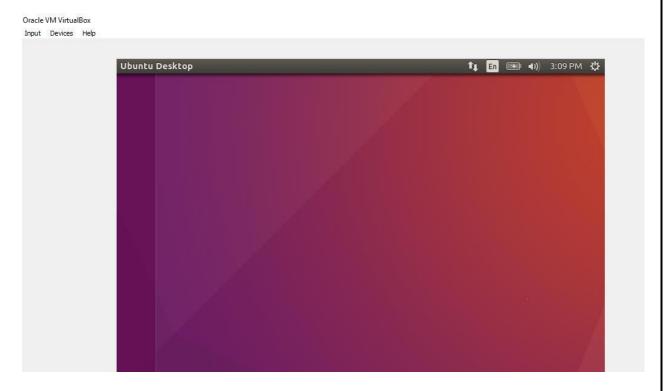
7. Go to storage tab, select add new optical disk drive, click on the downloaded Ubuntu iso from downloads



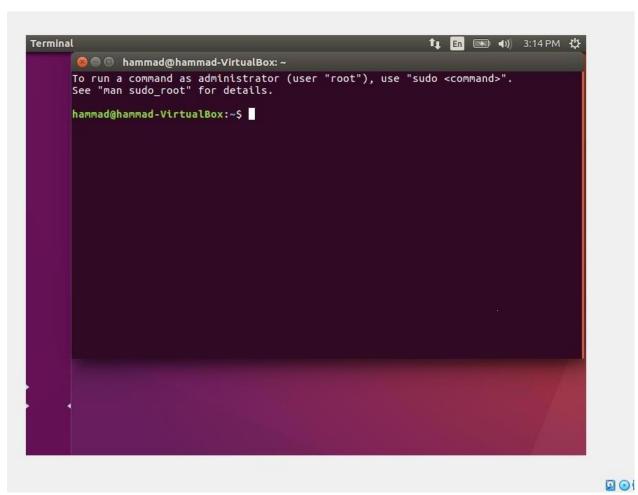


8. Start VM. Select try Ubuntu option.

Ans) We have installed the ubuntu. But the app is not showing due to some errors.



9. Go to terminal. Use login Ubuntu. Keep the password empty and move forward.



10. Install open ssh server in the terminal.

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Terminal

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Terminal Terminal File Edit View Search Terminal Help

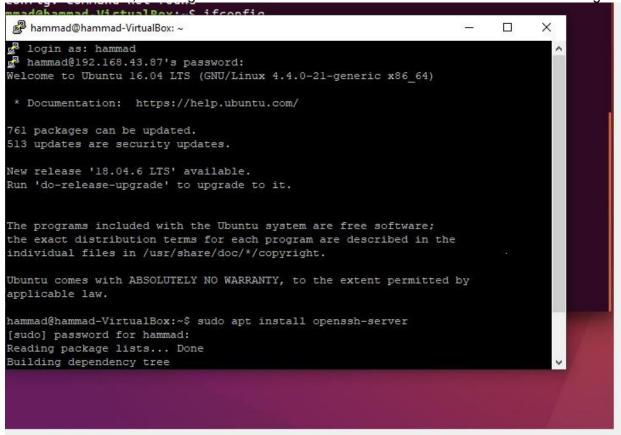
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Openssh-Server is active it is running successfully.

11. Type command in the terminal to know the IP Address.

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Terminal
                                                                          1 En 🖎 • 1) 4:05 PM 🔱
         🚳 🖨 🗈 hammad@hammad-VirtualBox: ~
        Command 'iconfig' from package 'ipmiutil' (universe)
Command 'iwconfig' from package 'wireless-tools' (main)
        ipconfig: command not found
       hammad@hammad-VirtualBox:~$ ifconfig
                   Link encap:Ethernet HWaddr 08:00:27:47:04:9d inet addr: 192.168.43.87 Bcast:192.168.43.255 Mask:255.255.255.0 inet6 addr: fe80::e70f:1862:7372:89d2/64 Scope:Link
       enp0s3
                   UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
                   RX packets:85 errors:0 dropped:0 overruns:0 frame:0
                   TX packets:89 errors:0 dropped:0 overruns:0 carrier:0
                   collisions:0 txqueuelen:1000
                   RX bytes:18624 (18.6 KB) TX bytes:10734 (10.7 KB)
       lo
                   Link encap:Local Loopback
                   inet addr:127.0.0.1 Mask:255.0.0.0
                   inet6 addr: ::1/128 Scope:Host
                   UP LOOPBACK RUNNING MTU:65536 Metric:1
                   RX packets:225 errors:0 dropped:0 overruns:0 frame:0
                   TX packets:225 errors:0 dropped:0 overruns:0 carrier:0
                   collisions:0 txqueuelen:1
                   RX bytes:16792 (16.7 KB) TX bytes:16792 (16.7 KB)
```

12. Open putty software and connect to the ssh server's IP found in the terminal. Specify the valid reason, if the login is not successful or access is denied. Make a successful login.



Note:

Make a word file. Convert it into PDF. Attach relevant screen shots and upload on LMS.

It's a group assignment. Three persons at maximum allowed in one group.