

Name: Nikhil. P
Roll No: 170041

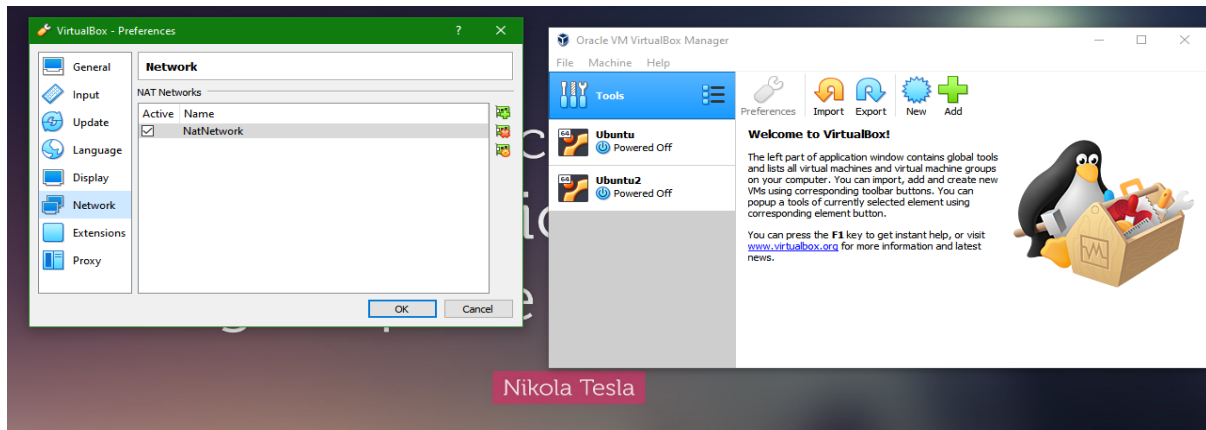
Project 1 Part a

Problem Statement: Create two networks with NAT and NAT Networking using Port Forwarding.

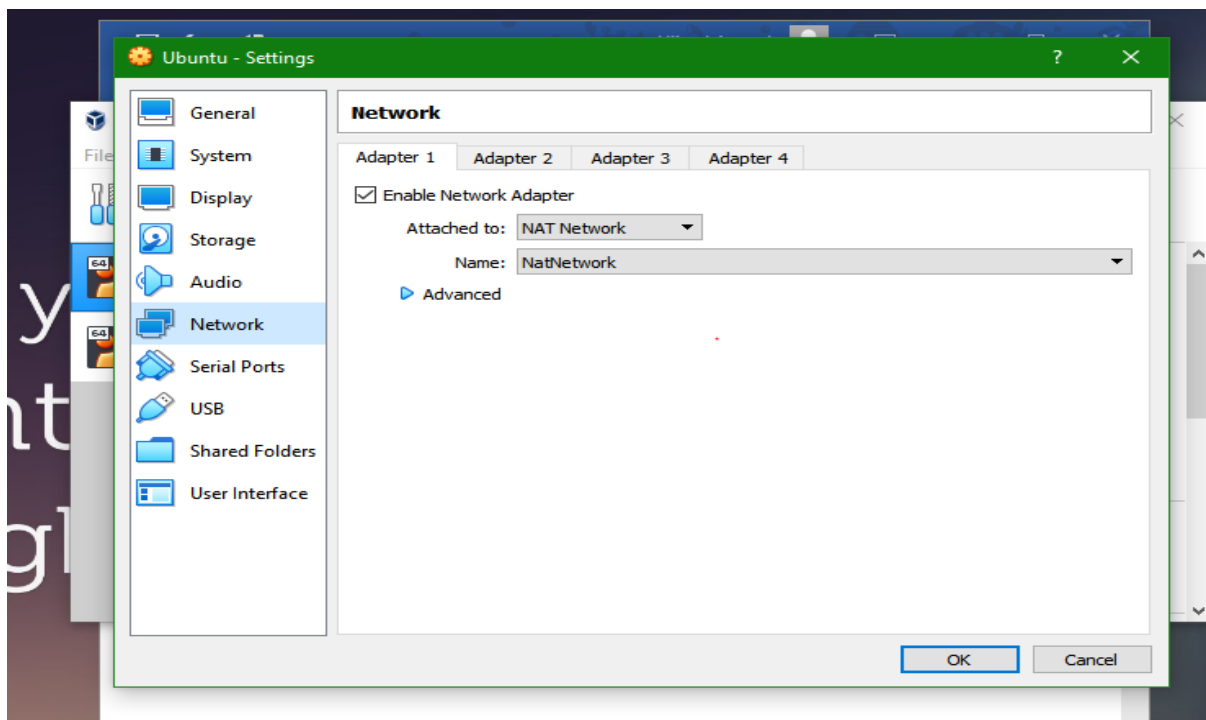
Solution:

Step 1: Open virtual box and go to **Preferences** in the toolbar.

Step 2: Enable(check) **NatNetwork**.



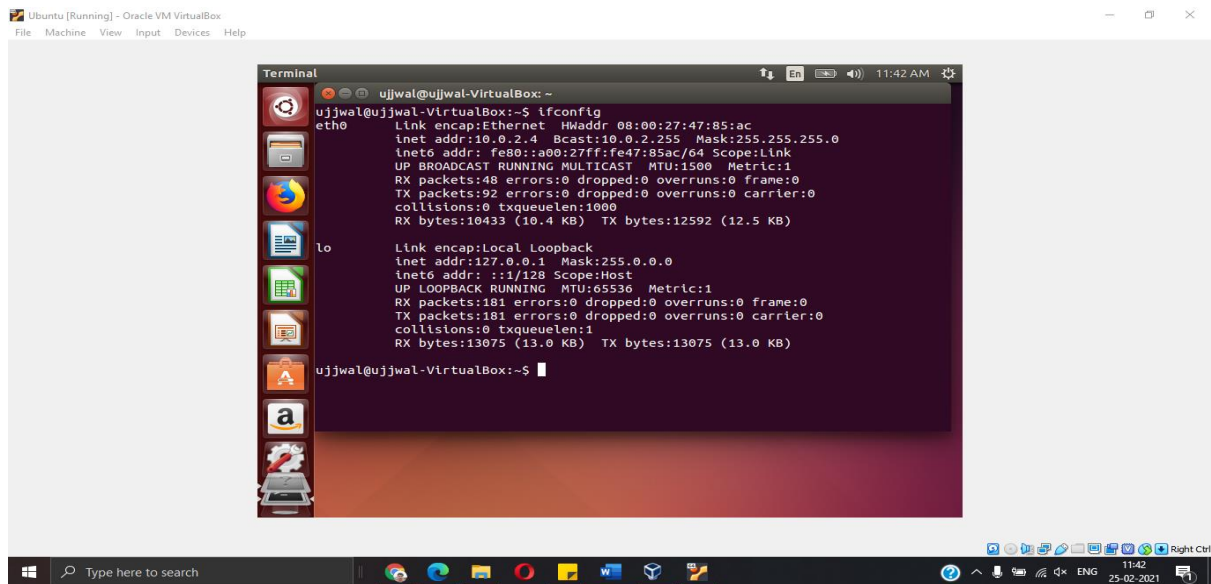
Step 2: Go to **Ubuntu**, open its **settings** and then go to **Network**



Step 4: Open **ubuntu terminal** and check for the config i.e. **ifconfig**

Step 5: Copy the **inet address**

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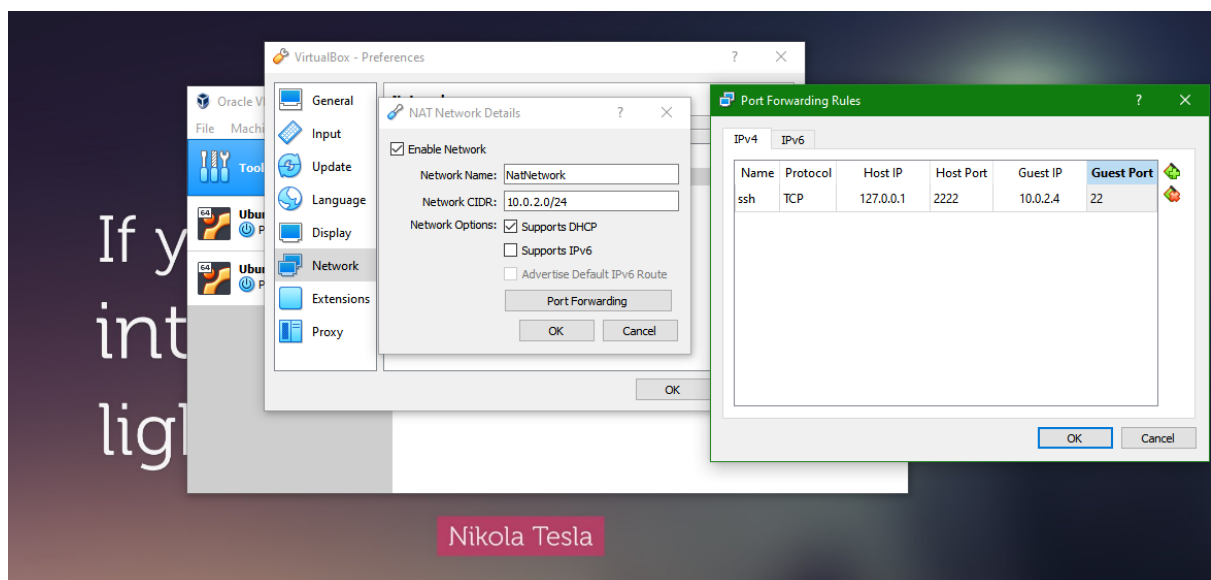
Step 6: Again open Ubuntu->Settings-> Network.

Step 7: Name the Network and CIDR

Step 8: Select the **Supports DHCP**

Step 9: Go to the **port forwarding** in the same window

Step 10: Fill the details like Name, Protocol, Host Ip, Host port, Guest Ip and Guest Port



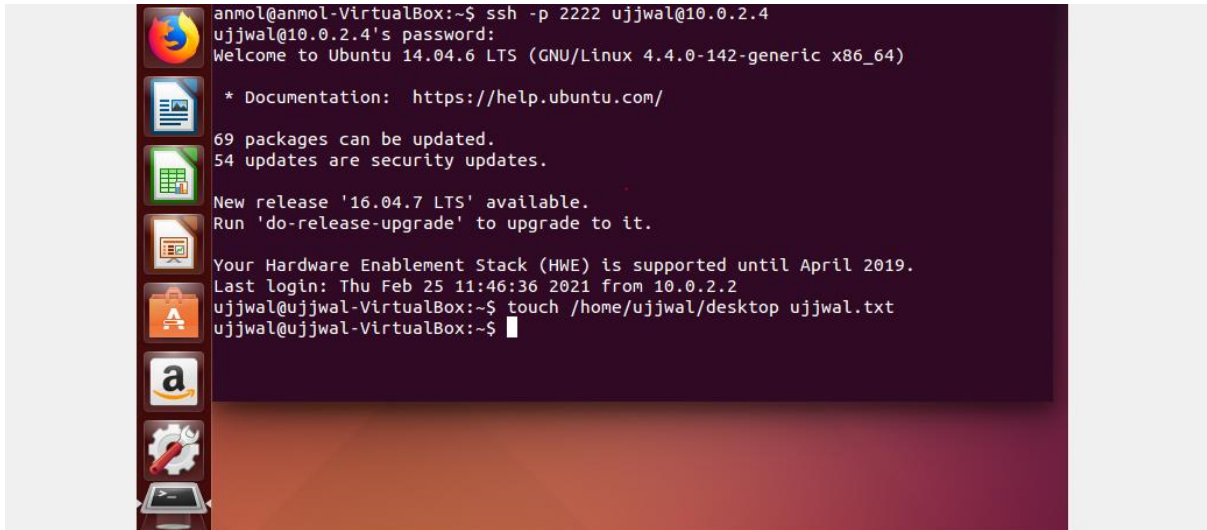
Step 11: Now open **ubuntu terminal**

Step 12: Write the command i.e. **ssh -p 2222 username@inet address**

Step 13: Enter the password.

Step 14: Using **touch command** make a file.

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```
anmol@anmol-VirtualBox:~$ ssh -p 2222 ujjwal@10.0.2.4
ujjwal@10.0.2.4's password:
Welcome to Ubuntu 14.04.6 LTS (GNU/Linux 4.4.0-142-generic x86_64)

 * Documentation:  https://help.ubuntu.com/

69 packages can be updated.
54 updates are security updates.

New release '16.04.7 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Your Hardware Enablement Stack (HWE) is supported until April 2019.
Last login: Thu Feb 25 11:46:36 2021 from 10.0.2.2
ujjwal@ujjwal-VirtualBox:~$ touch /home/ujjwal/desktop ujjwal.txt
ujjwal@ujjwal-VirtualBox:~$
```