Vm-1 commands
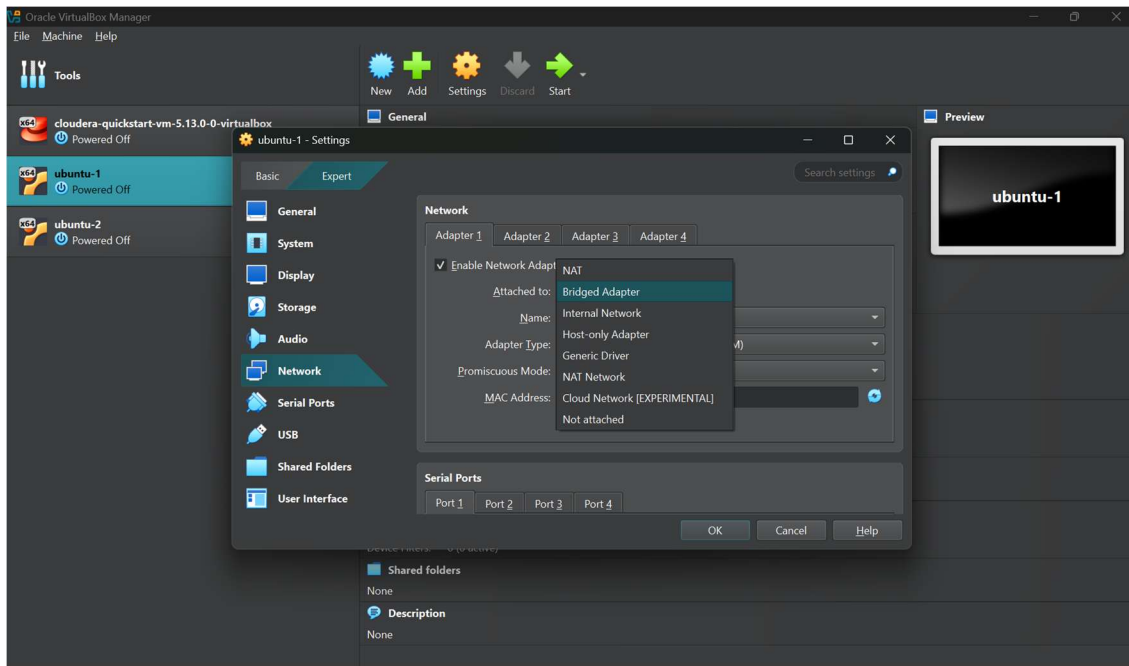
1. sudo apt install net-tools
2. sudo apt intall openssh-server
3. echo "This is the message from vm1" >> file1.txt
4. scp file1.txt shubham-2@192.168.0.111:/home/shubham-2

Vm-2 commands

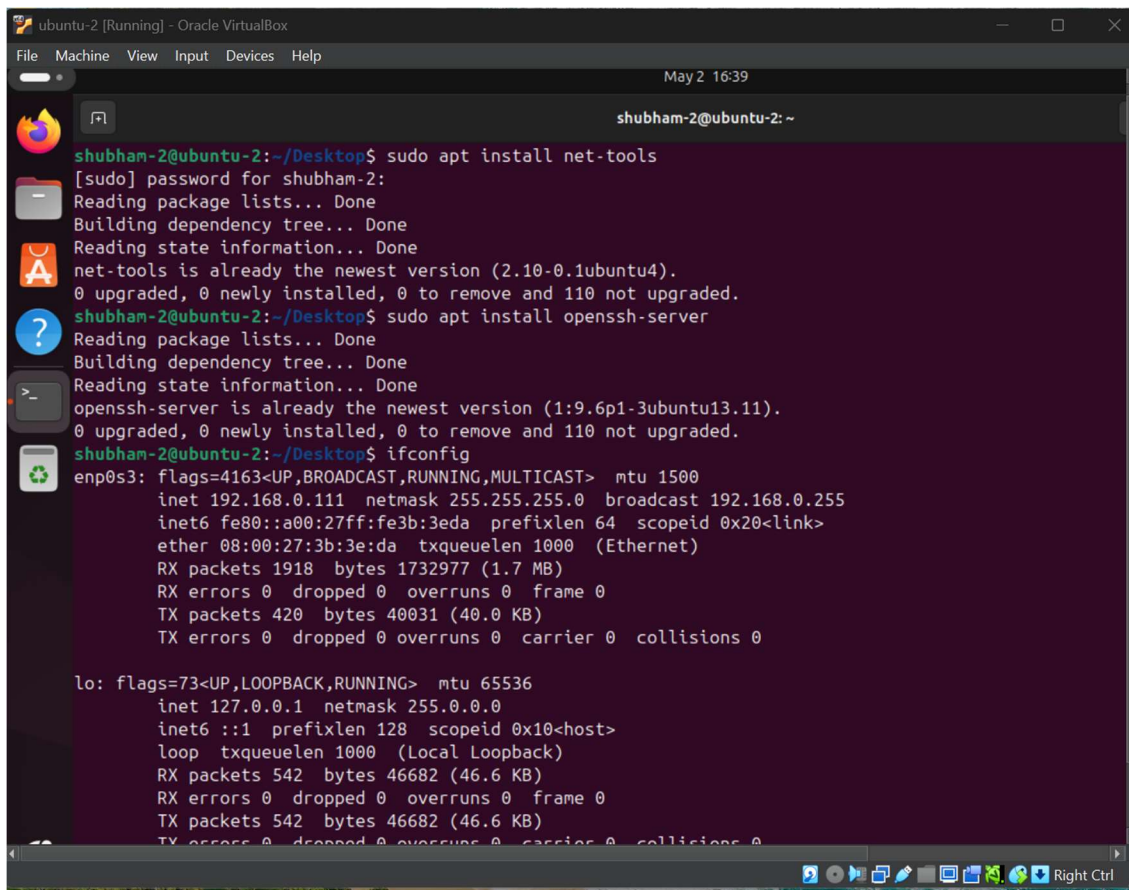1. sudo apt install net-tools
2. sudo apt install openssh-server
3. ifconfig
4. ssh shubham-2@192.168.0.111
5. cat file1.txt

Procedure-

1. Go to settings->network->Adapter-1->Attached to: Bridged Adapter.
2. Install commands on both vms
   sudo apt install net-tools
   sudo apt install openssh-server
3. Enable vm2 to accept from network, run command in vm2
   Ifconfig   #displays ipv4 address
   ssh shubham-2@192.168.0.111   #user@ipaddress
4. Create file in vm, run command in vm1
   echo "This is message from vm1" >> file1.txt
5. Send file from vm1 to vm2, run command in vm1
   scp file1.txt shubham-2@192.168.0.111:/home/shubham-2
6. Display file from vm2 after transfer
   cat file1.txt

Oracle VirtualBox Manager

File   Machine   Help

Tools

cloudera-quickstart-vm-5.13.0-0-virtualbox
Powered Off

ubuntu-1
Powered Off

ubuntu-2
Powered Off

New   Add   Settings   Discard   Start

General

Preview

ubuntu-1

ubuntu-1 - Settings

Basic   Expert   Search settings

General   Network

System   Adapter 1   Adapter 2   Adapter 3   Adapter 4

Display   ✓ Enable Network Adapt   NAT

Storage   Attached to: Bridged Adapter

Audio   Name: Internal Network

Network   Adapter Type: Host-only Adapter   M)

Serial Ports   Promiscuous Mode: Generic Driver
                                                    NAT Network
USB   MAC Address: Cloud Network [EXPERIMENTAL]
                                                    Not attached
Shared Folders

User Interface   **Serial Ports**

                           Port 1   Port 2   Port 3   Port 4

                                                    OK   Cancel   Help

Shared folders
None

Description
None

Vm2

ubuntu-2 [Running] - Oracle VirtualBox

File   Machine   View   Input   Devices   Help

May 2 16:39

shubham-2@ubuntu-2: ~

```
shubham-2@ubuntu-2:~/Desktop$ sudo apt install net-tools
[sudo] password for shubham-2:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
net-tools is already the newest version (2.10-0.1ubuntu4).
0 upgraded, 0 newly installed, 0 to remove and 110 not upgraded.
shubham-2@ubuntu-2:~/Desktop$ sudo apt install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:9.6p1-3ubuntu13.11).
0 upgraded, 0 newly installed, 0 to remove and 110 not upgraded.
shubham-2@ubuntu-2:~/Desktop$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.0.111  netmask 255.255.255.0  broadcast 192.168.0.255
        inet6 fe80::a00:27ff:fe3b:3eda  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:3b:3e:da  txqueuelen 1000  (Ethernet)
        RX packets 1918  bytes 1732977 (1.7 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 420  bytes 40031 (40.0 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 542  bytes 46682 (46.6 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 542  bytes 46682 (46.6 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

Right Ctrl

File Machine View Input Devices Help

May 2 16:40

shubham-2@ubuntu-2: ~

```
         TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

shubham-2@ubuntu-2:~/Desktop$ ssh shubham-2@192.168.0.111
The authenticity of host '192.168.0.111 (192.168.0.111)' can't be established.
ED25519 key fingerprint is SHA256:t/XAGmCC6UV1vCT2gNy9yz2sNYy5HaqKhEUP9eeYQUA.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:1: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.0.111' (ED25519) to the list of known hosts.
shubham-2@192.168.0.111's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.11.0-24-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

Expanded Security Maintenance for Applications is not enabled.

101 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Thu May  1 11:00:38 2025 from 192.168.0.107
shubham-2@ubuntu-2:~$ cat file4.txt
cat: file4.txt: No such file or directory
shubham-2@ubuntu-2:~$ cat file4.txt
cat: file4.txt: No such file or directory
shubham-2@ubuntu-2:~$ cat file4.txt
This is the message from vm1
shubham-2@ubuntu-2:~$
```

Right Ctrl

Vm1

File Machine View Input Devices Help

May 2 16:38

shubham-1@ubuntu-1: ~/Desktop

```
shubham-1@ubuntu-1:~/Desktop$ echo "This is the message from vm1" >> file4.txt
shubham-1@ubuntu-1:~/Desktop$ scp file4.txt shubham-2@192.168.0.111
shubham-1@ubuntu-1:~/Desktop$ scp file4.txt shubham-2@192.168.0.111:/home/shubham-2
The authenticity of host '192.168.0.111 (192.168.0.111)' can't be established.
ED25519 key fingerprint is SHA256:t/XAGmCC6UV1vCT2gNy9yz2sNYy5HaqKhEUP9eeYQUA.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:1: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.0.111' (ED25519) to the list of known hosts.
shubham-2@192.168.0.111's password:
file4.txt                      100%   29    18.2KB/s    00:00
shubham-1@ubuntu-1:~/Desktop$
```

Right Ctrl