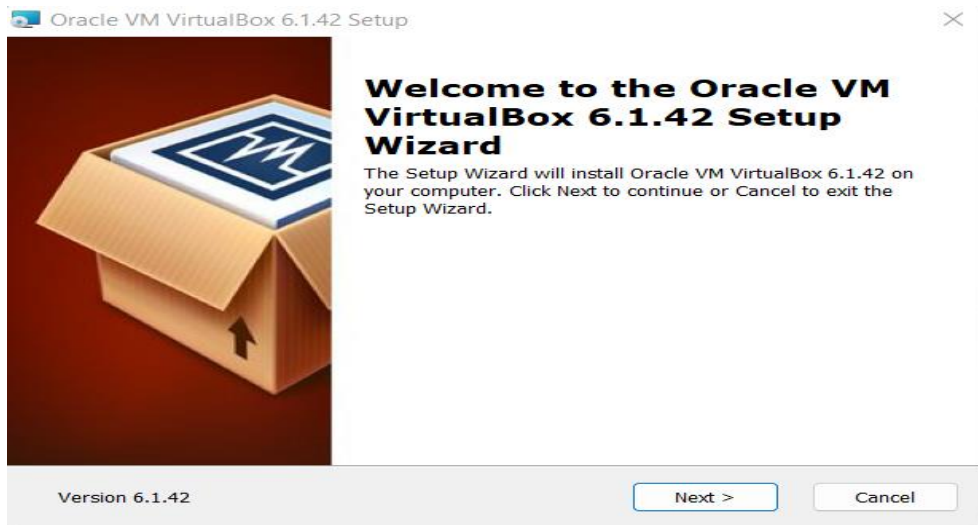


Installation / Download

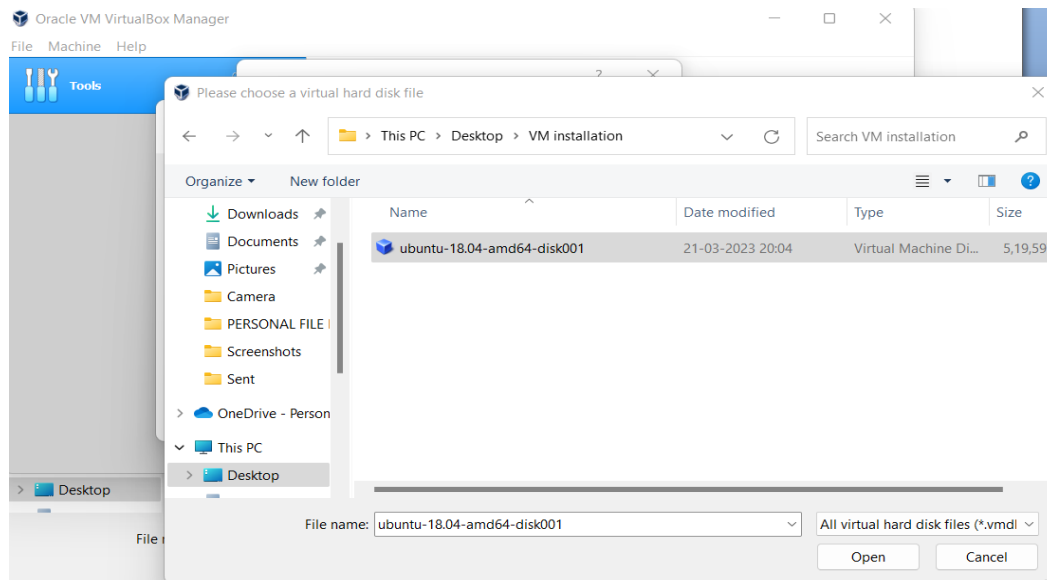
- Oracle's Virtual Box
- Ubuntu 64 VMDK Image
- SCP Article

Steps :

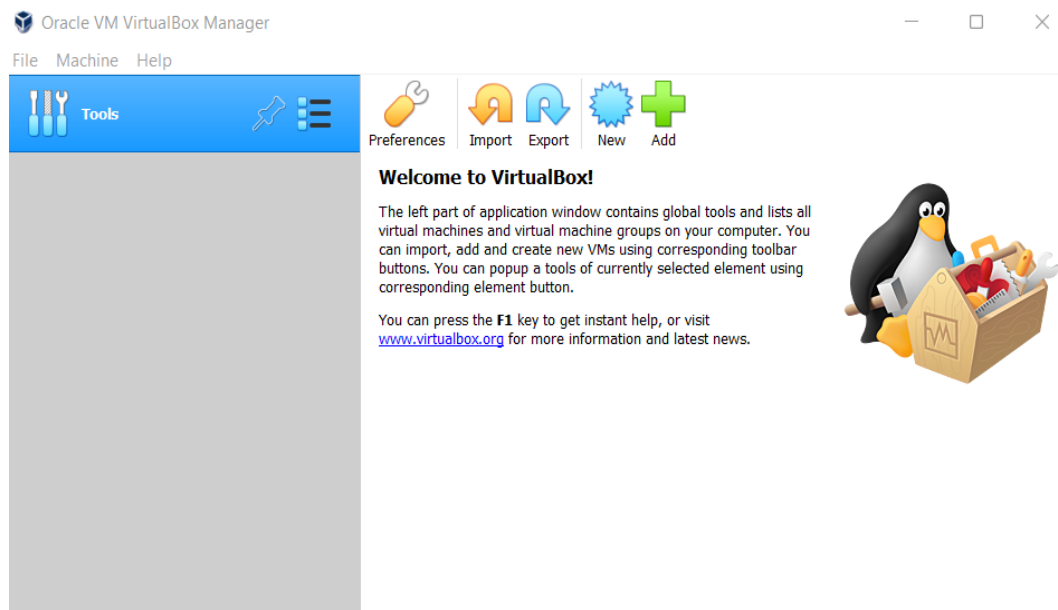
1. *Download and install Oracle's Virtual Box. (Reboot needed after installation)*



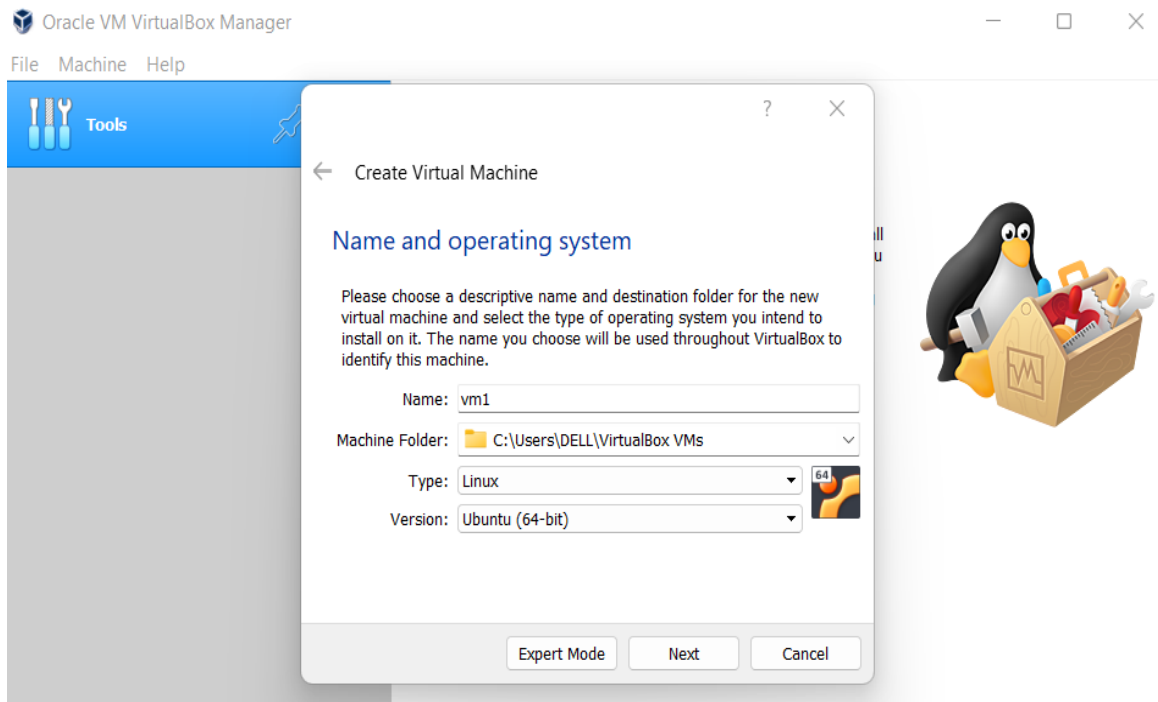
2. Download Ubuntu VMDK Image.



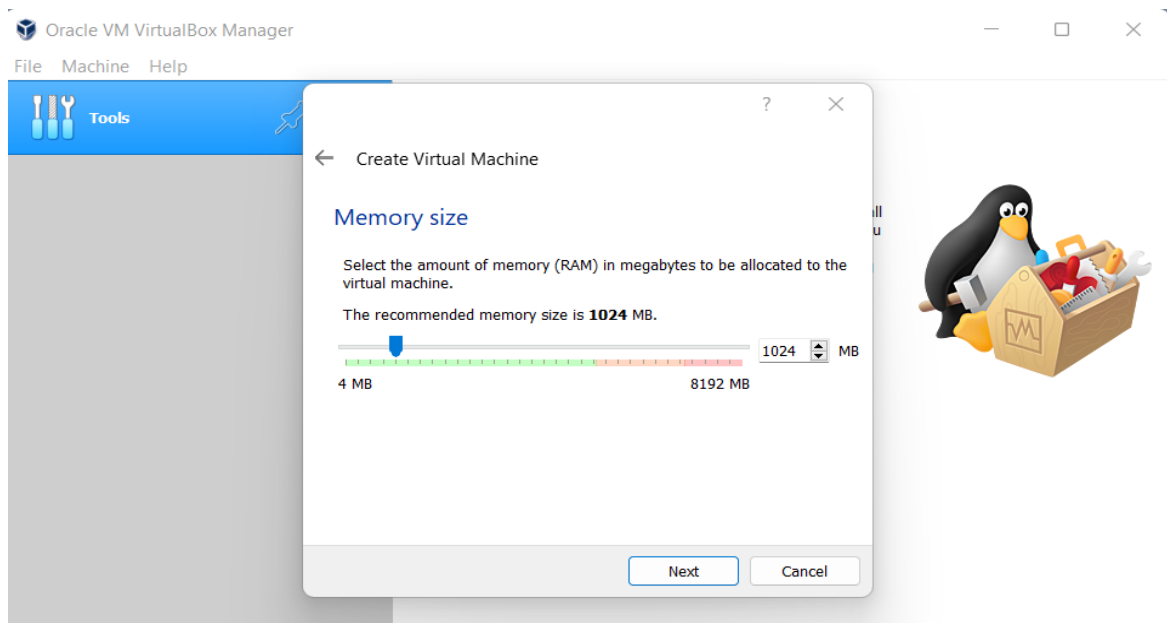
3. Launch Virtualbox and create a new VM.



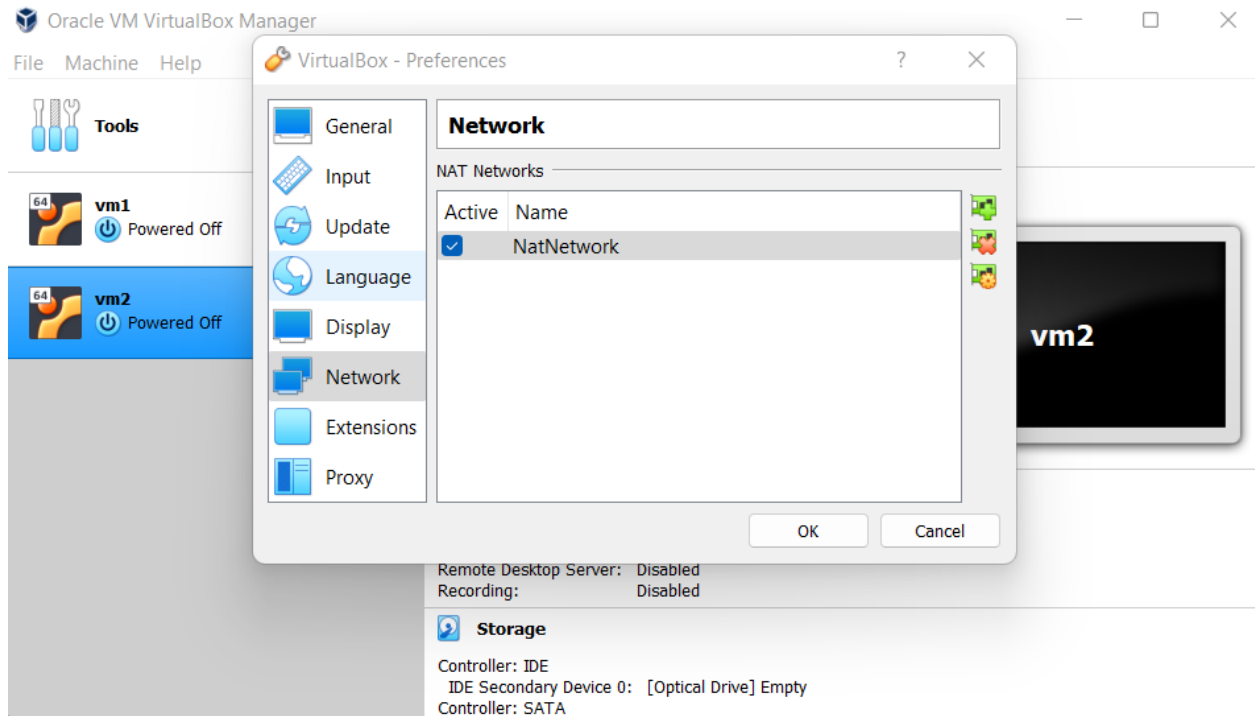
4. Click on new and mention the Name and the machine folder along with the Type and Version of the Machine to be created.



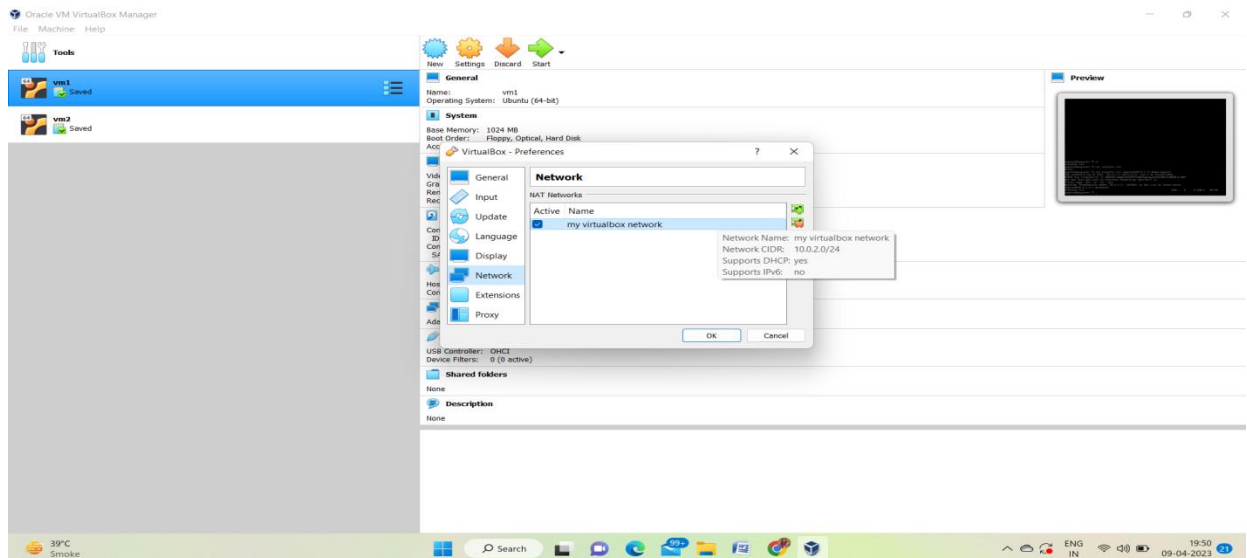
5. Assign memory size for our VM (1024 MB sufficient for now).
6. Select the option Use an existing virtual hard disk file and locate the downloaded VMDK image below and create VM.



6. Now we have to create a NAT Network so go to File -> Preferences -> Network ->Add a New NAT Network (Click on +)

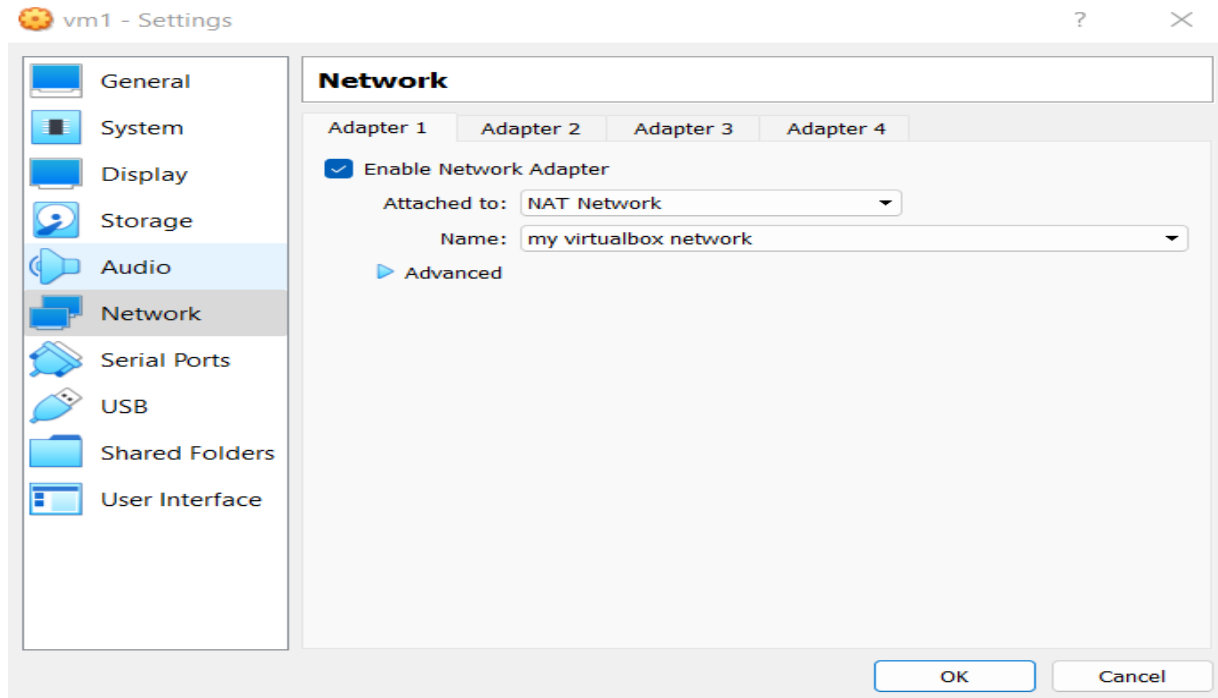


7. Right click and edit the Network name and CIDR if needed. Example: Name - My VMbox Network

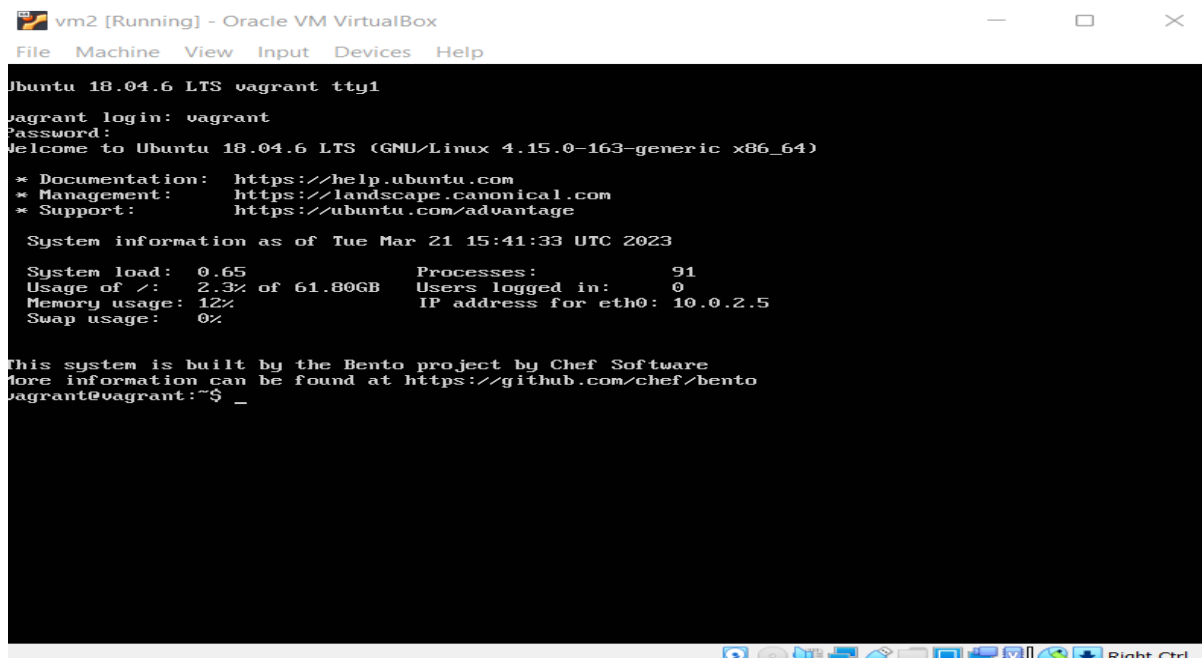


CIDR - 172.168.2.0/24 and save the changes.

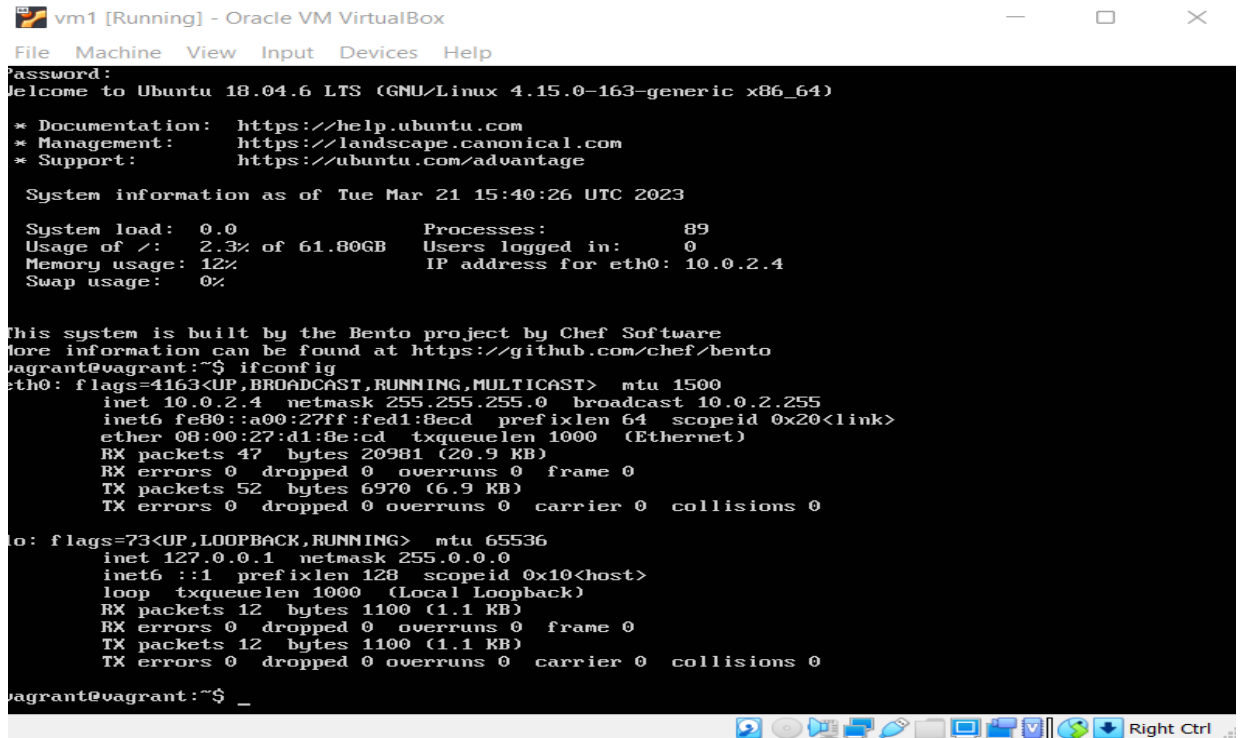
1. Repeat the process of launching the VM for 2 instances.
2. Now go to the setting, go to the network setting and change the adapter to NAT Network and select the NAT Network you made (in our case : My VMbox Network) and click ok.



3. Launch the VM now.



4. Install the net-tools to know the IP's of the instance



```
vm1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
password:
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-163-generic x86_64)

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

System information as of Tue Mar 21 15:40:26 UTC 2023

System load:  0.0          Processes:    89
Usage of /:   2.3% of 61.80GB Users logged in: 0
Memory usage: 12%         IP address for eth0: 10.0.2.4
Swap usage:   0%

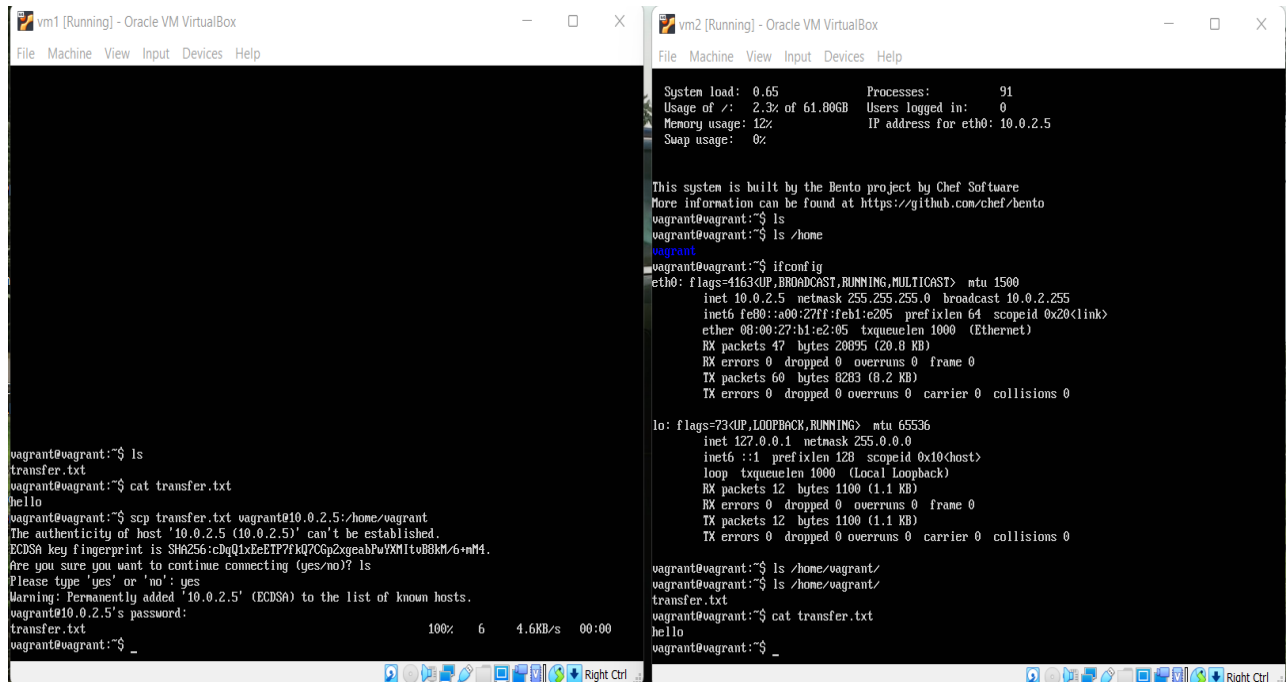
This system is built by the Bento project by Chef Software
More information can be found at https://github.com/chef/bento
vagrant@vagrant:~$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.4 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fed1:8ecd prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:d1:8e:cd txqueuelen 1000 (Ethernet)
    RX packets 47 bytes 20981 (20.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 52 bytes 6970 (6.9 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 12 bytes 1100 (1.1 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 12 bytes 1100 (1.1 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vagrant@vagrant:~$ _
```

If your file is on the VM with IP 10.0.2.4 and the second VM's IP is 10.0.2.5

Transfer the file using SC Command



```
vm1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
vagrant@vagrant:~$ ls
transfer.txt
vagrant@vagrant:~$ cat transfer.txt
hello
vagrant@vagrant:~$ scp transfer.txt vagrant@10.0.2.5:/home/vagrant
The authenticity of host '10.0.2.5 (10.0.2.5)' can't be established.
ECDSA key fingerprint is SHA256:cDqQ1xEeETP7fKq7C6p2xgeahPuYXMiTu88KM/6+mM4.
Are you sure you want to continue connecting (yes/no)? Is
Please type 'yes' or 'no': yes
Warning: Permanently added '10.0.2.5' (ECDSA) to the list of known hosts.
vagrant@10.0.2.5's password:
transfer.txt                                100% 6 4.6KB/s 00:00
vagrant@vagrant:~$ _

vm2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
System load: 0.65          Processes:    91
Usage of /:  2.3% of 61.80GB Users logged in: 0
Memory usage: 12%         IP address for eth0: 10.0.2.5
Swap usage:   0%

This system is built by the Bento project by Chef Software
More information can be found at https://github.com/chef/bento
vagrant@vagrant:~$ ls
vagrant@vagrant:~$ ls /home
vagrant
vagrant@vagrant:~$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.5 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:feb1:e205 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b1:e2:05 txqueuelen 1000 (Ethernet)
    RX packets 47 bytes 20995 (20.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 60 bytes 8283 (8.2 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 12 bytes 1100 (1.1 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 12 bytes 1100 (1.1 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vagrant@vagrant:~$ ls /home/vagrant/
vagrant@vagrant:~$ ls /home/vagrant/
transfer.txt
vagrant@vagrant:~$ cat transfer.txt
hello
vagrant@vagrant:~$ _
```