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Subject: Cloud Computing

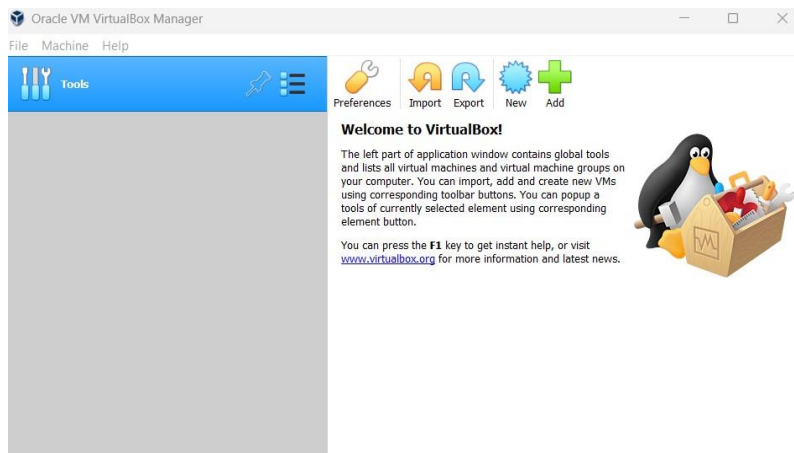
Lab Assignment No. 04

Title: Find a procedure to transfer the files from one virtual machine to another virtual machine

- 1) Download the Ubuntu VMDK image from
<https://app.vagrantup.com/bento/boxes/ubuntu-18.04>
- 2) Download and install Oracle's Virtual Box <https://www.virtualbox.org/wiki/Downloads>

Steps Launch new Virtual Machine:

- 1) Open Oracle VM VirtualBox Manager



- 2) Click on new

?

✕

←

Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.


Name: VM1

Machine Folder: C:\Users\HP\VirtualBox VMs

Type: Linux

Version: Ubuntu (64-bit)

64



Expert Mode

Next

Cancel

3) Select **Use an existing virtual hard disk file**

?

✕

←

Create Virtual Machine

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.


If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.


The recommended size of the hard disk is **10.00 GB**.

☐ Do not add a virtual hard disk

☐ Create a virtual hard disk now

☒ Use an existing virtual hard disk file

 ubuntu-18.04-amd64-disk001.vmdk (Normal, 64.00 GB)

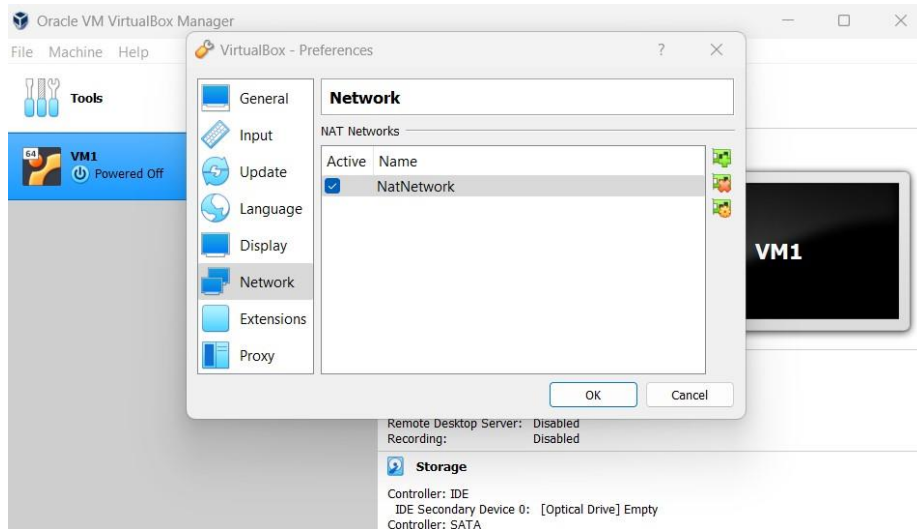


Create

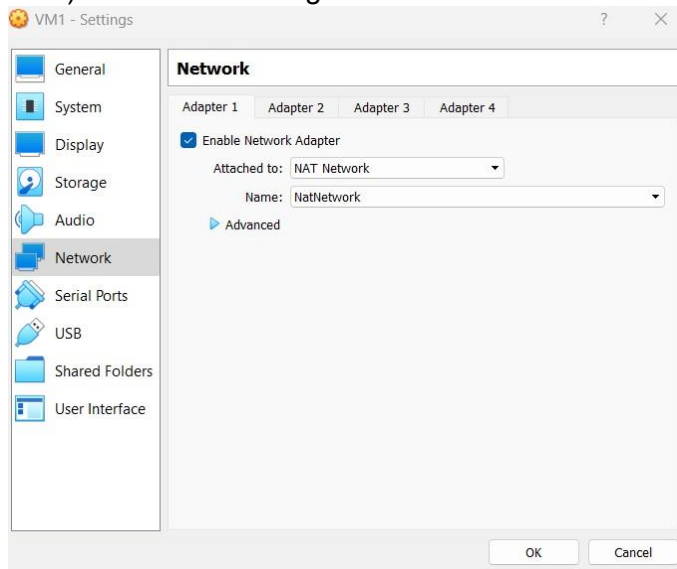
Cancel

4) Now add NatNetwork

File → Preferences → Network → Ok



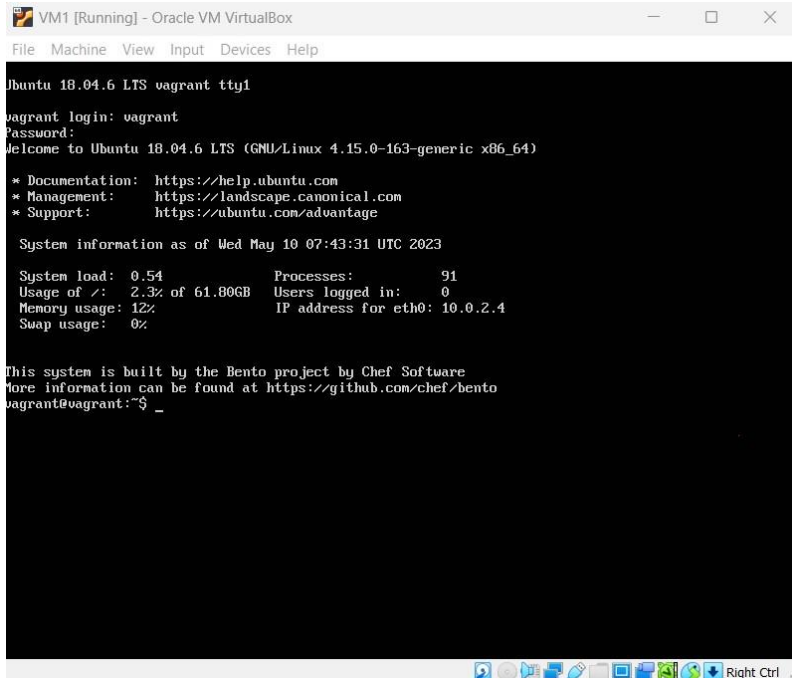
5) Go to VM Settings → Network → Attached to → Nat Network → Ok



Repeat the same process and create VM2

Pass data between Virtual Machines:

1) Start VM1 and log in using the **vagrant** username and password



```
VM1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Ubuntu 18.04.6 LTS vagrant tty1
vagrant login: vagrant
Password:
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-163-generic x86_64)

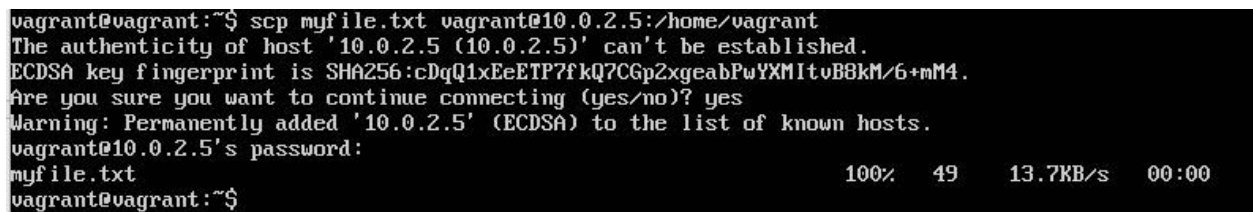
* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

System information as of Wed May 10 07:43:31 UTC 2023

System load:  0.54               Processes:    91
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%

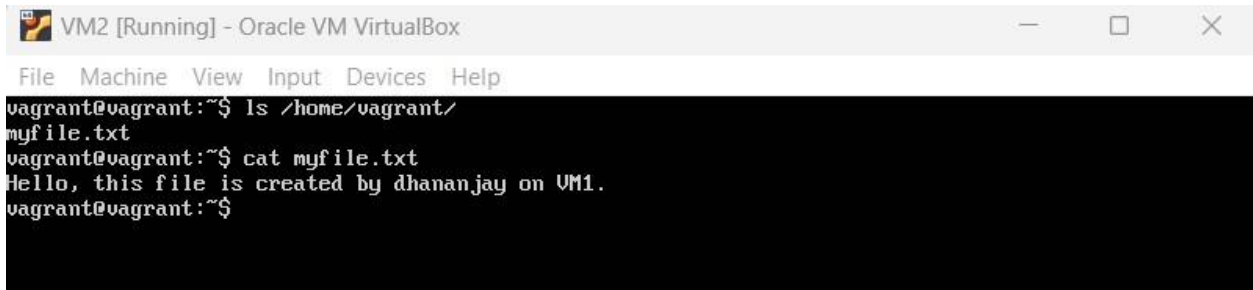
This system is built by the Bento project by Chef Software
More information can be found at https://github.com/chef/bento
vagrant@vagrant:~$
```

- 2) Create a file using **touch myfile.txt**
- 3) Write data in a file using **nano myfile.txt**
- 4) Run **ifconfig** command it will give the address of the system in this case address of VM1 is **10.0.2.4**
- 5) Start the VM2 login into it and get its address using the **ifconfig** command **10.0.2.5**
- 6) Run **scp myfile.txt vagrant@10.0.2.5:/home/vagrant** command in VM1



```
vagrant@vagrant:~$ scp myfile.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:cDqQ1xEeETP7fkQ7CGp2xgeabPwYXMItvB8kM/6+mM4.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.0.2.5' (ECDSA) to the list of known hosts.
vagrant@10.0.2.5's password:
myfile.txt                                100%  49    13.7KB/s   00:00
vagrant@vagrant:~$
```

- 7) Run **ls /home/vagrant** in VM2 and check myfile.txt is present there and see the content of the file using the **cat myfile.txt** command



```
VM2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
vagrant@vagrant:~$ ls /home/vagrant/
myfile.txt
vagrant@vagrant:~$ cat myfile.txt
Hello, this file is created by dhananjay on VM1.
vagrant@vagrant:~$
```