CCL Assignment No. 4

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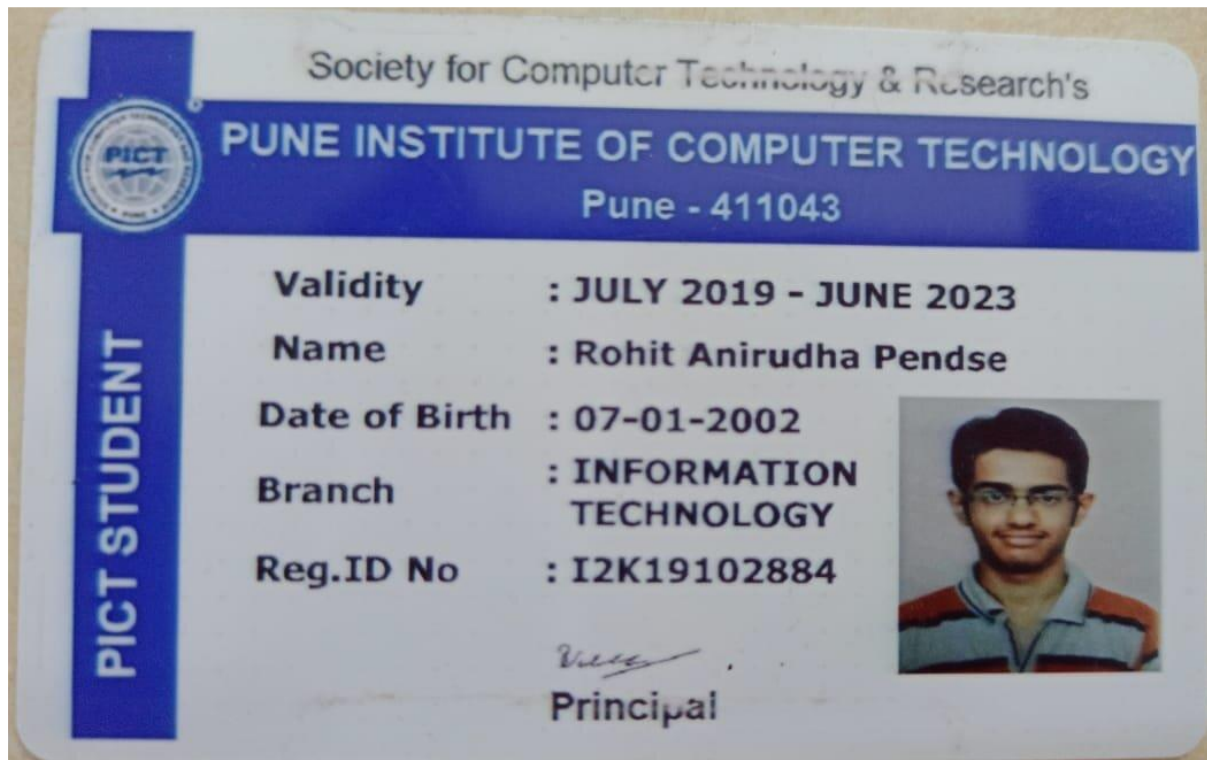
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CCL - Assignment 4

Aim: File transfer from Vm to vm.

Problem Statement:
Find a procedure to transfer files from one virtual machine to another virtual machine.

theory:

1. What is virtual machine?
   → A vm is a virtual environment that works like a computer within computer
   - It runs an isolated partition of its host computer within its own cpu power, memory, os & other resources.
   - It offers numerous benefits including:
   1. security
   2. scalability
   3. cost savings.

2. What is VM used for?
   → Vm's allow reduced overhead within multiple systems from same console at the same time
   - Virtual machines also provide a safety net for your data, as they can be used to evaluate rapid disasters recovery & automatic backups.
   - For usage & growing business the scalability of internal environment can be crucial to accomdate growing pairs of constantly separating IT environment

3. What are installation requirements for this assignment?
→ Installation requirements are
   i. Oracle's Virtual Box.
   ii. Ubuntu 64 VMDK Image

4. Write necessary steps for file transfer from VM to VM & post screenshots accordingly.
→ Following are the steps for file transfer from VM to VM:
   i. Download & install oracle's virtual box
   ii. Download ubuntu VMDK image
   iii. Launch virtualbox & create new VM.
   iv. Click on new & mention name & machine folder along with type & version of machine to be created.
   v. Assign memory size of our VM.
   vi. Select the option, use an existing virtual hard disk file & locate the download VMDK image below & create VM.
   vii. Now we have to create a NAT network. Go to File → Preferences → Network → Add a new NAT network (Click on +)
   viii. Right click & edit the network name & CIDR if needed.
   ix. Repeat the process of launching the new VM for 2 instances.
   x. Now go to the settings, go to network settings & change adapter to NAT network & select the NAT network you made.
   xi. Launch the VM now.

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

xiii. To know IP Address: $ ifconfig.

xiv. Now create the file & write something in it.
$ touch transfer.txt
$ nano transfer.txt
→ hey! how are you?
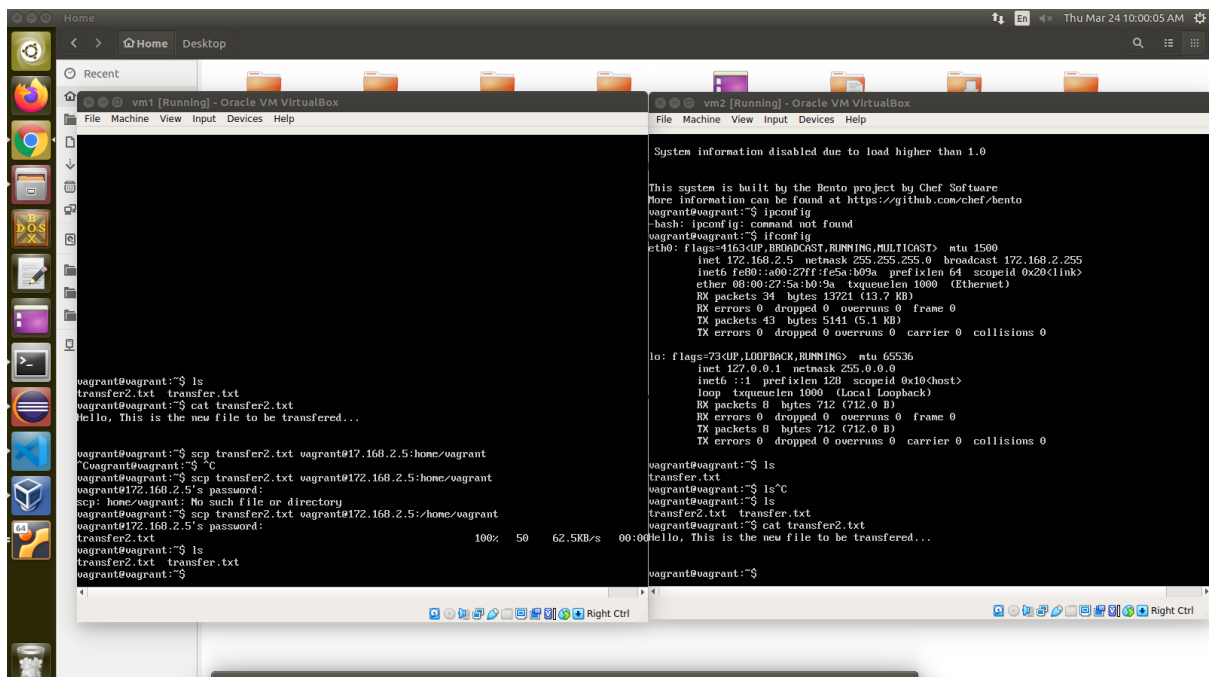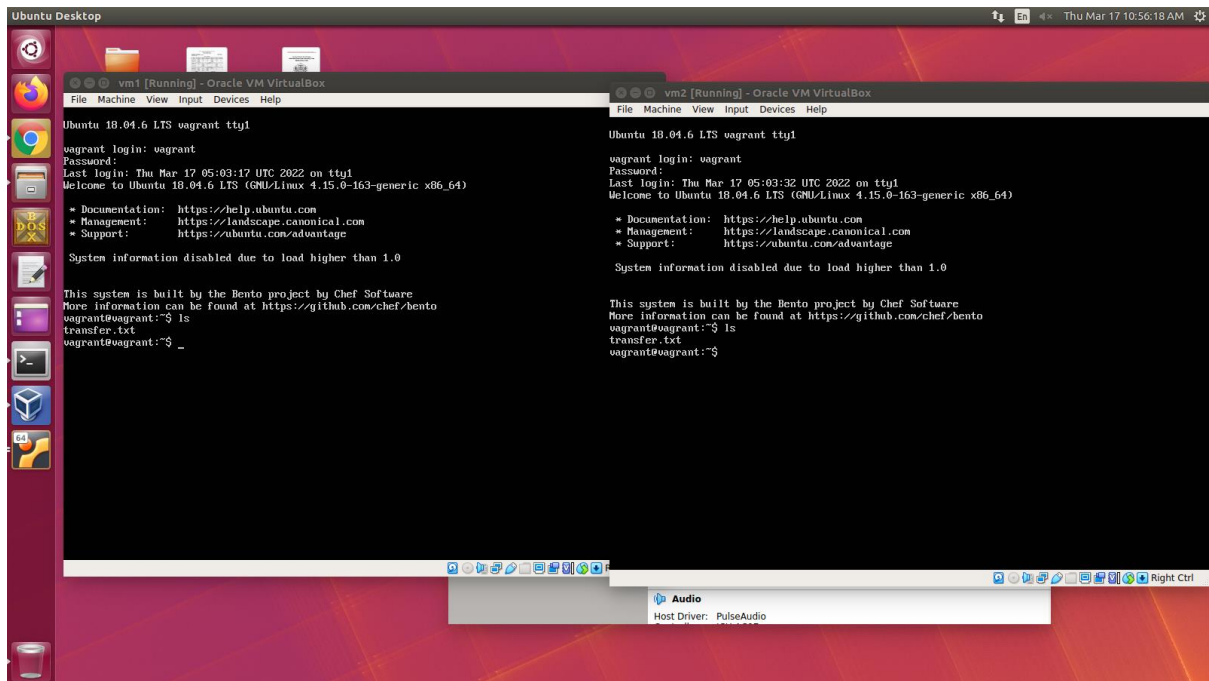Ctrl+X and save.

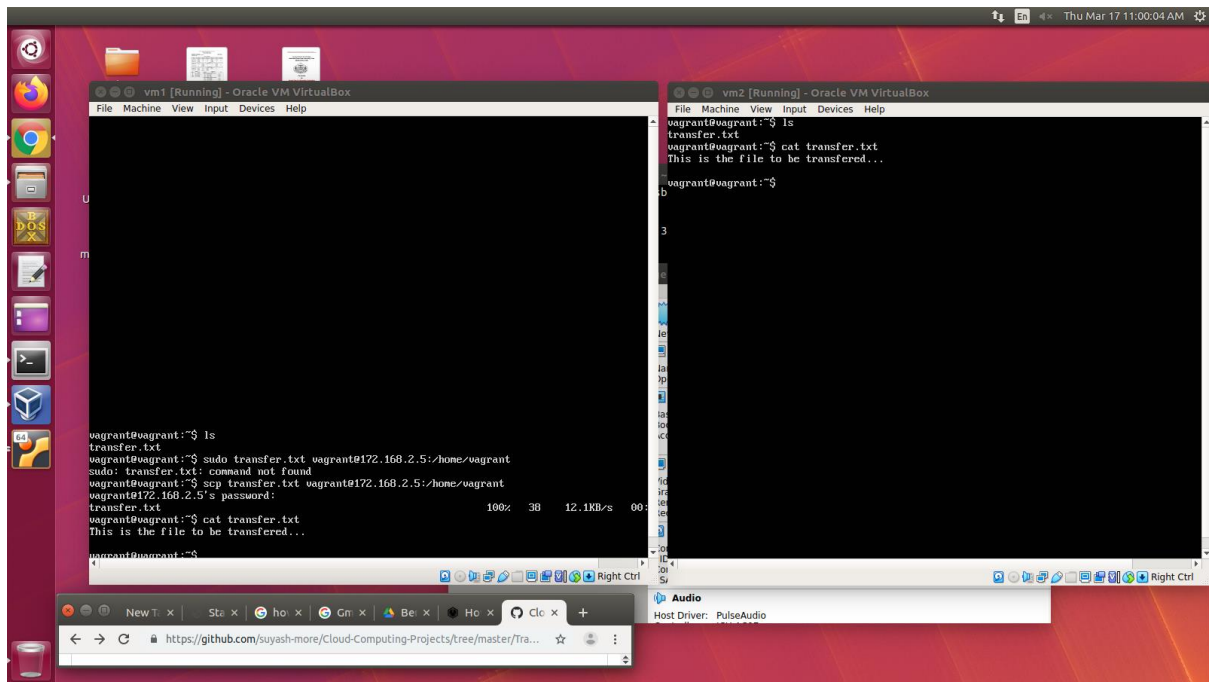xv. If your file is on VM with IP Address 172.168.2.4 & second VM's IP is 172.168.2.5

xvi. Transfer the file using scp
$ scp transfer.txt vagrant @ 172.168.2.5
/home/vagrant. put the password of 2nd VM.

xvii. check for the file in 2nd VM under home/vagrant directory.

Code and Output screenshots:

Conclusion:
Jue learnt to connect virtual machines in network and transfer files between them