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College Name: SSN College of Engineering

College Code: 3122

Semester Lab practicals

Question: 9. Create a cluster of 2 VMs.

Configuration:

VM1: Ubuntu 16.04 LTS Server

VM2: Ubuntu 16.04 LTS Server

Do: Transfer a file from VM1 to VM2.

Aim: To create a cluster of 2 VMs each of Ubuntu 16.04 LTS Server edition and then transfer a file from VM1 to VM2.

Procedure:

1. Create a VM with Ubuntu-64-bit version
2. Set the memory size. (Give 1024 MB)
3. Create a virtual hard disk for the VM.
4. Choose VDI for hard disk type.
5. Then choose dynamically allocated option for physical hard disk type.

6. Provide a file location and size for the virtual hard disk and click create VM.
7. Open the settings tab and set shared clipboard and drag'n'drop options
8. Go to storage section and choose the ISO file to mount. Use Ubuntu-16.0.4 server edition ISO file.
9. Now start the VM and installation process will start.
10. Choose install ubuntu server option to install the standard version of server edition
11. choose language and country location
12. Give the server name and user's full name.
13. Give the username for the system.
14. Set the password for the username created
15. Check the openssh option to install openssh in the system. Now, installation will proceed and the system will ask to restart.

16. Choose "Ubuntu" option to boot into ubuntu server.

17. The Ubuntu server is successfully installed. Now, similarly install second server.

Steps to transfer file:

1. Use the command "`ssh-keygen -t rsa`" to create key pair.
2. Change access permission using the command "`chmod 700 path`".
3. Copy the keys to VM2 using the command "`ssh-copy-id VM2@IP-Address`".
4. Now, use the command "`scp filename VM2@IP-address: filename`" to transfer file from VM1 to VM2.