SSN COLLEGE OF ENGINEERING
Department of Computer Science and Engineering
CS6712 Grid and Cloud Computing Laboratory

Assignment -5 : File Transfer between Virtual Machines

Assigned Date: 12.07.2017. **Due Date: 18. 07.2017 & 21 .07.2017**

I. Creating a Virtual Machine (Hosted- Virtual Machine)

1. Install Virtual Box using Ubuntu as Host Operating System (64 bit processor architecture).
2. Create a Virtual Machine (VM) with 2GB RAM and 8 GB Hard Disk and install Ubuntu 16.04 server for amd64 architecture. Name the VM as UbuntuVM1. (If your physical machine has 4 GB RAM, the create VM with 1.5 GB RAM. If your physical machine has 2 GB RAM, the create VM with 1 GB RAM). Install openssh-server while installing Ubuntu16.04 server.

II. Creating another Virtual Machine (Hosted- Virtual Machine).

1. Install Virtual Box using Ubuntu as Host Operating System (64 bit processor architecture).
2. Create a Virtual Machine (VM) with 2GB RAM and 8 GB Hard Disk and install Ubuntu 16.04 server for amd64 architecture. Name the VM as UbuntuVM2. (If your physical machine has 4 GB RAM, the create VM with 1.5 GB RAM. If your physical machine has 2 GB RAM, the create VM with 1 GB RAM). Install openssh-server while installing Ubuntu16.04 server.

III. Establish Network between two VMs. Ping VM1 from VM2 and vice versa.

IV. Generate ssh public and private key pairs in VM1 & VM2

V. Exchange public keys between two VMs using scp command.

VI. File Transfer between VMs on same Host and different Hosts

1. Transfer File / Directory from VM1 to VM2 using Secure copy command (ssh & scp).
2. Transfer File / Directory from VM2 to VM1 using Secure copy command (ssh & scp).
3. Similarly transfer a file / multiple files / Directory from VM1 on one physical machine to VM1 on another physical machine.