

SSN COLLEGE OF ENGINEERING
Department of Computer Science and Engineering
CS8711 Cloud Computing Laboratory

Assignment -1 : Creation of Virtual Machine and Installing different flavours of Linux OS

Assigned Date: 18.08.2020.

Due Date: 22. 08.2020

- I. Creating a Virtual Machine (Hosted- Virtual Machine)
 1. Install Virtual Box in Host Operating System (amd- 64 bit processor architecture).
 2. Check whether the processor supports virtualization or not by giving following command in terminal

Command to check if CPU supports Virtualization or Not.

J\$ grep --color vmx /proc/cpuinfo

J\$ cat /proc/cpuinfo | egrep "vmx|svm"

J\$ grep -E 'svm|vmx' /proc/cpuinfo

vmx – Intel VT-x, virtualization support enabled in BIOS.

svm – AMD SVM, virtualization enabled in BIOS.

3. Create a Virtual Machine (VM) with 1 GB RAM and 10 GB Hard Disk and install Ubuntu 16.04.1 Desktop as guest OS. Name the VM as VM1.

<http://releases.ubuntu.com/16.04/>

4. Switch the login into root user privilege mode by using the command

J\$ sudo -i

When asked for password, give your system password

give *J\$ ifconfig* and check default IP address

5. Set up Network in Virtual Machine for connecting to internet.

For **Wireless** internet connectivity, use **NAT** in the virtual machine's network settings.

For **LAN** connection set **Bridged Adaptor**.

Network Configuration using LAN

J\$ sudo gedit /etc/network/interfaces

auto eth0

iface eth0 inet static

address 10.6.15. X

netmask 255.255.128.0

gateway 10.6.128.1

DNS server list 10.101.1.10

Network Configuration in LAN

]\$ sudo gedit /etc/resolv.conf

nameserver 10.101.1.10

Check Virtual IP in the Terminal]\$ **ifconfig**

and Check for Internet connection in the terminal]\$ **sudo apt-get update**

6. Create a Virtual Machine (VM) with 1 GB RAM and 10 GB Hard Disk and install Kali OS (64 bit installer) as guest OS. Name the VM as VM2. Check for internet connection and IP address.

<https://www.kali.org/downloads/>

7. Create a Virtual Machine (VM) with 1 GB RAM and 10 GB Hard Disk and install CentOS 7 Minimal (64 bit) as guest OS. Name the VM as VM3. Check for internet connection and IP address.

<http://isoredirect.centos.org/altarch/7/isos/aarch64/CentOS-7-aarch64-Minimal-2003.iso>