

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

**Assignment -3 : Creation of Virtual Machine and Running a Java Program in Virtual Machine**

**Assigned Date: 30.06.2017.**

**Due Date: 04. 07.2017 & 07 .07.2017**

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- I. Creating a Virtual Machine (Hosted- Virtual Machine)
  1. Install Virtual Box in Host Operating System (64 bit processor architecture).
  2. Check whether the processor supports virtualisation or not by giving following command in terminal  
***J\$ grep -E 'svm|vmx' /proc/cpuinfo***
  3. Create a Virtual Machine (VM) with 2GB RAM and 10 GB Hard Disk and install CentOS as guest OS. Name the VM as CentOS1.
  4. Switch the login into root user privilege mode by using the command  
***J\$ sudo -i***  
***When asked for password, give your system password***
  5. Set up Network in Virtual Machine for connecting to internet.  
**Network Configuration in**  
***sudo gedit /etc/network/interfaces***  
*auto eth0*  
*iface eth0 inet static*  
*address 10.6.3. 100 to 10.6.3.200*  
*netmask 255.255.128.0*  
*gateway 10.6.0.1*  
*DNS server list 192.168.1.4*  
**Network Configuration in**  
***sudo gedit /etc/resolv.conf***  
*nameserver 192.168.1.4*
  6. Install Java Development Kit and Tomcat server in CentOS1 VM.
  7. Execute a simple Java Program in a Virtual Machine.