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

Assignment -8 : Creation of Virtual Machine Template, Installing C Compiler and Attaching Virtual Block

Assigned Date: 07.08.2017. **Due Date: 22.08.2017 & 18.08.2017**

I. Creating a Virtual Machine (VM) Template

1. Use CentOS 6.5 (64-bit) OS image to create virtual machine template.
2. Use "*onetemplate*" command to do it.

II. Update the VM template with SSH_PUBLIC_KEY using "*oneuser*" command.

III. Create a VM for CentOS 6.5 (64-bit) from the above created CentOS6.5 (64-bit) template.

IV. Configure the local software repository using YUM Package Manager.

V. Install a C compiler (gcc) in CentOS6.5 (64-bit) VM and run a sample C program in VM.

VI. Create a Virtual Block (DATABLOCK) using "*oneimage*" command.

VII. Attach the created Virtual Block to CentOS6.5 (64-bit) VM using the below command.

oneadmin@localhost]$ *onevm disk-attach <vm-id> --image <virtual block name>*

VIII. Detach the attached Virtual Block in the above step from CentOS6.5 (64-bit) VM using below command.

oneadmin@localhost]$ onevm disk-detach <vm-id> <vm disk id>

IX. Resizing the capacity of CPU & Memory (Scaling Up or Scaling Down) of Centos6.5 (64-bit) VM using following command

oneadmin@localhost]$ onevm resize <vm-id> --cpu <capacity> --memory <capacity>