

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

**Assignment -9 : Live Migration of Virtual Machine**

**Assigned Date: 07.08.2017.**

**Due Date: 22. 08.2017 & 18 .08.2017**

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**In OpenNebula FrontEnd VM do the following.**

- I. Add 4 hosts (nodes) to /etc/hosts as follows  
    <IP of frontend> frontend  
    <IP of node1> node11  
    <IP of node2> node12  
    <IP of node3> node13
- II. Create above mentioned 4 hosts in oneadmin user as follows.  
    oneadmin@ ]\$ `onehost create frontend -i kvm -v kvm -n dummy`  
    oneadmin@ ]\$ `onehost create node11 -i kvm -v kvm -n dummy`  
    oneadmin@ ]\$ `onehost create node12 -i kvm -v kvm -n dummy`  
    oneadmin@ ]\$ `onehost create node13 -i kvm -v kvm -n dummy`
- III. Update the VM template with SSH\_PUBLIC\_KEY using “*oneuser*” command.
- IV. 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.
- V. Create two VMs (VM1 and VM2) with CentOS 6.5 (64-bit) from the above created CentOS6.5 (64-bit) template.
- VI. List all VMs and hosts running in Opennebula Cloud.
- VII. Deploy VM1 in node11 host and VM2 in node12 host using the command  
    oneadmin@ ]\$ `onevm deploy <vm-id> <host-id>`
- VIII. Migrate VM1 and VM2 to node13 host using following command  
    oneadmin@ ]\$ `onevm migrate <vm-id> <host-id>`
- IX. List all VMs and hosts running in Opennebula Cloud.