Pandit Deendayal Energy Univrsity
School of Technology
Cloud Computing – Lab (20CP322P)
B.Tech-Computer Science & Engineering (Sem-VI)

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Configuration and deployment of OpenStack over cloud platform.

Aim:

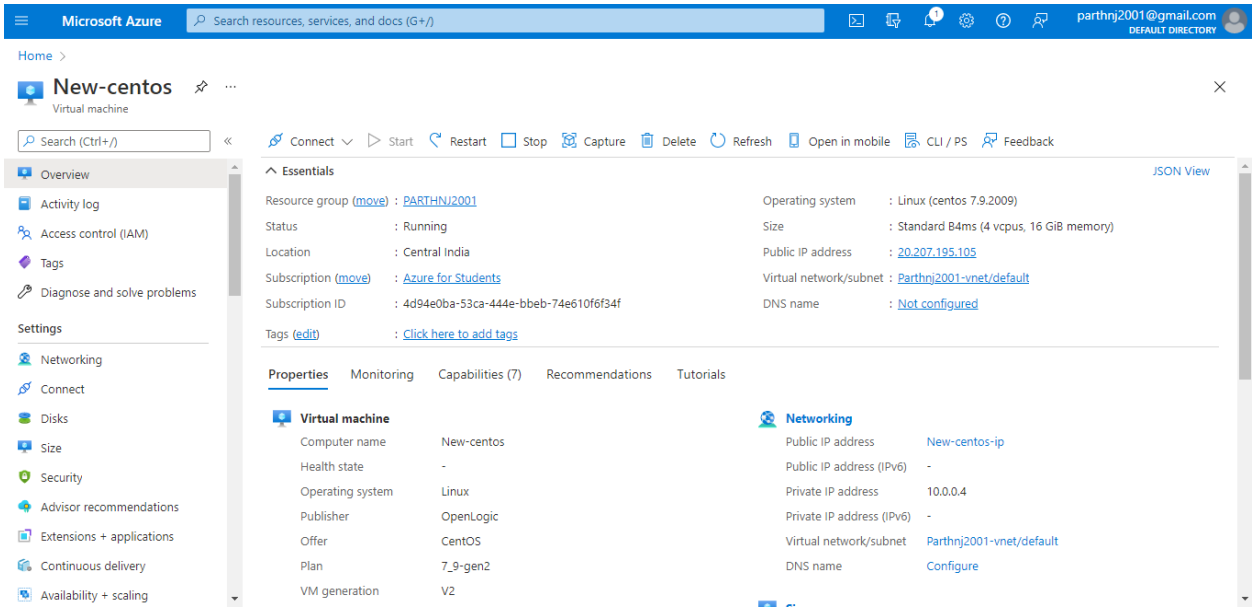
To Simulate the OpenStack by deploying it in the Cloud Environment

OpenStack: Open Source Cloud Computing Infrastructure

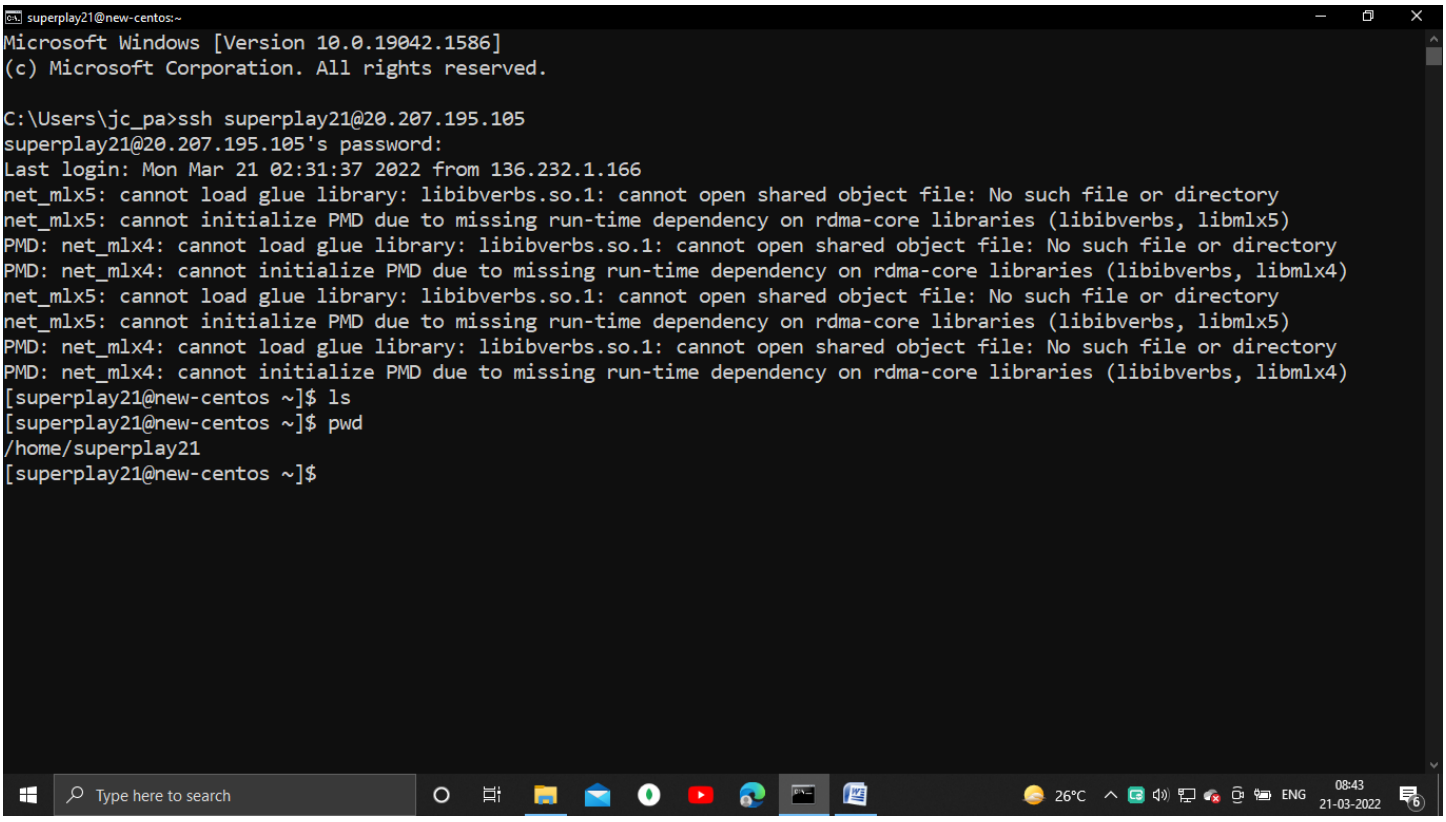
OpenStack is a cloud operating system that controls large pools of compute, storage, and networking resources throughout a datacenter, all managed and provisioned through APIs with common authentication mechanisms. A dashboard is also available, giving administrators control while empowering their users to provision resources through a web interface. Beyond standard infrastructure-as-a
-service functionality, additional components provide orchestration, fault management and service management amongst other services to ensure high availability of user applications.

Experiment:

First of all go to **https://portal.azure.com.**
Then, go to a virtual machine and make a new VM which has at least 4 vCPU and 16 vRAM and has CentOS as operating system.

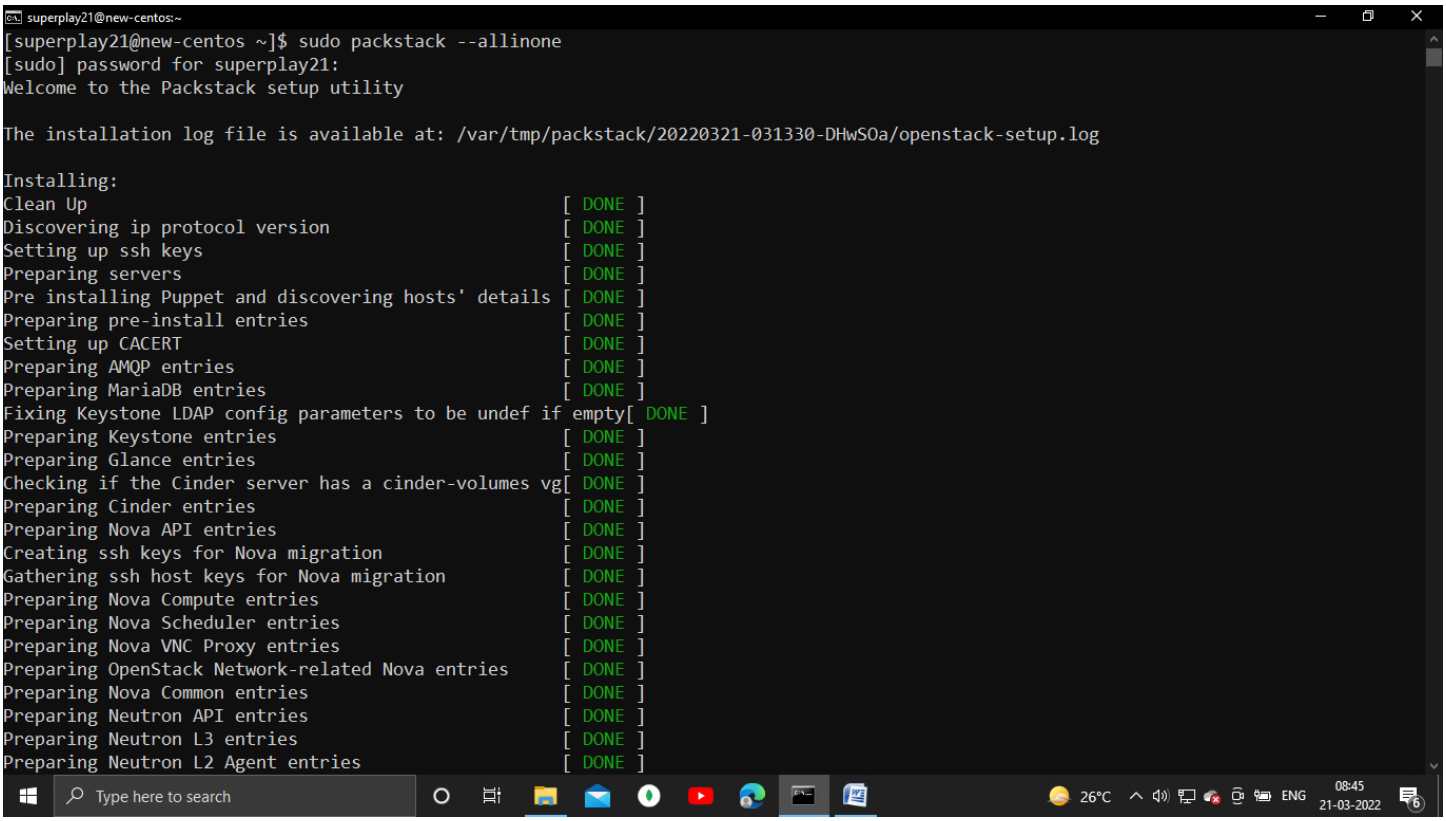


When your virtual machine is up and running then ssh to it

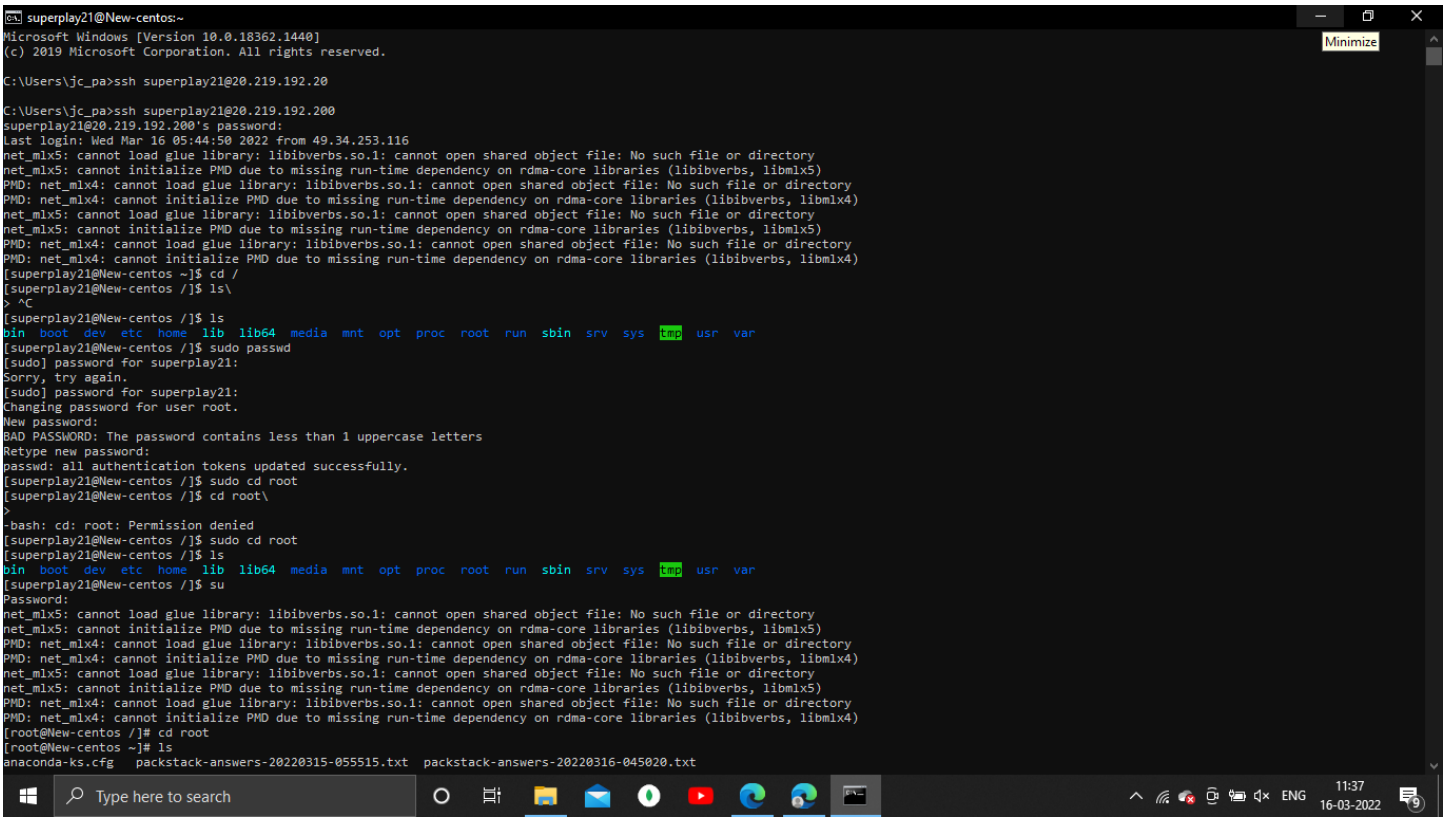


Now run commands which are given in the lab manual. All commands are as below. Run them all in the VM.

- sudo systemctl disable firewalld
- sudo systemctl stop firewalld
- sudo systemctl disable NetworkManager
- sudo systemctl stop NetworkManager
- sudo systemctl enable network
- sudo systemctl start network
- sudo yum install -y https://rdoproject.org/repos/rdo-release.rpm
- sudo yum update –y
- sudo yum install –y openstack-packstack
- sudo packstack --allinone



When the above command successfully run then switch to root user to view login info . for the run the following commands.
Su root cd/root
Cat keystonerc_admin
After this you can see all info related to login to openstack



Now go to https://localhost/dashboard from VM to login to openstack