**Network related configurations to be done before proceeding further**

1. Disable the firewalld service - ***systemctl disable firewalld***
2. Stop the firewall service - ***systemctl stop firewalld***
3. Disable the Network Manager service - ***systemctl disable NetworkManager***
4. Stop the Network Manager Service - ***systemctl stop NetworkManager***
5. Enable Network service - ***systemctl enable network***
6. Start the network service - ***systemctl start network***
7. Check the network information - ***ip a***

**Installing OpenStack (all in one)**

1. Set the LANG and LC\_ALL environment variables - **echo -e *"LANG=en\_US.utf-8\nLC\_ALL=en\_US.utf-8\n" > /etc/environment***
2. Update the VM - ***yum update -y***
3. *Now, for this particular project, it is preferred to use the stable version of OpenStack, v13.x (rocky), Enter the below command to add the OpenStack Rocky repository -*

***yum install -y centos-release-openstack-rocky***

1. Install PackStack using the following Command - ***yum install -y openstack-packstack***
2. Now Install the OpenStack components on CentOS 7 using the following command - ***packstack --allinone***
3. Execute the command below to navigate to the file - ***cd / && cd /root && ls***
4. **Linux classroom as a service**

Follow the guidelines to provision a VM on OpenStack with linux uitls - <https://prodevans.atlassian.net/l/c/ewWbqYyi>

**B. DBaaS - DataBase as a service**

1. Determine which flavor to use for your database - ***nova flavor-list***
2. Create a Database Instance - ***trove create mysql\_instance\_1 6 --size 5 --databases myDB \***

***--users userA:password --datastore\_version mysql-5.5 \***

***--datastore mysql***

1. Get the IP address of the database instance - ***trove list***
2. Access the database - ***mysql -u userA -password -h IP\_ADDRESS myDB***

**C. MLaaS - Machine Learning as a Service**

Follow the guidelines to create a ML workspace using meteos in OpenStack -

<https://prodevans.atlassian.net/l/c/bEJefui6>