#check your CentOS release cat /etc/redhat-release

#populate your /etc/environment file with below locale settings vi /etc/environment LANG=en_US.utf-8 LC_ALL=en_US.utf-8

#if you are not familiar with vi editor; you can press "i" to start editing a file and press "esc" and then ":wq" to save file and quit vi editor.

#check the status of firewalld service. Stop and disable it if enabled systemctl status firewalld systemctl stop firewalld systemctl disable firewalld

#check the status of NetworkManager service. Stop and disable it if enabled systemctl status NetworkManager systemctl stop NetworkManager systemctl disable NetworkManager

#enable and start network service systemctl enable network systemctl start network

#replace "enp0s3" with your interface name and check it's current settings cat /etc/sysconfig/network-scripts/ifcfg-enp0s3

#disable selinux from it's config file /etc/selinux/config vi /etc/selinux/config SELINUX=disabled

#reboot your system reboot

#after the reboot check the status of selinux, it should be disabled getenforce

#On CentOS install the latest release of openstack package sudo yum install -y centos-release-openstack-stein

Sudo yum install yum-utils

sudo yum-config-manager --enable openstack-stein

#this updates your current packages sudo yum update -y

#install packstack installer sudo yum install -y openstack-packstack

#to check the IP addresses on your machine ip address show

#run the packstack installer with below parameters

packstack --allinone --provision-demo=n --os-neutron-ovs-bridge-mappings=extnet:br-ex --os-neutron-ml2mechanism-drivers=openvswitch --os-neutron-l2-agent=openvswitch --os-neutron-ovs-bridge-interfaces=brex:enp0s3 --os-neutron-ml2-type-drivers=vxlan,flat --os-neutron-ml2-tenant-network-types=vxlan

#make sure your ethernet interface settings look like this, you should remove the IP address from the interface

vi /etc/sysconfig/network-scripts/ifcfg-enp0s3

TYPE=OVSPort

NAME=enp0s3

DEVICE=enp0s3

DEVICETYPE=ovs

OVS BRIDGE=br-ex

ONBOOT=yes

#make sure your external bridge settings look like below vi /etc/sysconfig/network-scripts/ifcfg-br-ex

DEVICE=br-ex

DEVICETYPE=ovs

TYPE=OVSBridge

BOOTPROTO=static

IPADDR=<your_IP>

NETMASK=<your mask>

GATEWAY=<your_gateway_IP>

IPV4_FAILURE_FATAL=no

IPV6INIT=no

DNS1=<DNS Server IP>

ONBOOT=yes

#restart the network service service network restart

#this command provides you the openstack admin privileges source keystonerc admin

#run this command to create your provider network for your instances so they can communicate #with the outside world

neutron net-create external network --provider:network type flat --provider:physical network extnet --router:external

#this command creates the subnet attached to your provider network. You should be doing the #configuration according to the LAN that your linux machine is connected to neutron subnet-create --name public subnet --enable dhcp=False

- --allocation-pool start=<IP_pool_first_address>,end=<IP_pool_last_address>
- --gateway=<linux_gateway_IP> external_network <your_network_in_CIDR>

#example:

neutron subnet-create --name public subnet --enable dhcp=False --allocation-pool start=192.168.0.100,end=192.168.0.120 --gateway=192.168.0.1 external network 192.168.0.0/24