

```
#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. Press
"esc" when you're done editing, 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-train
```

```
sudo yum install yum-utils
```

```
sudo yum-config-manager --enable openstack-train
```

```
#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-ml2-mechanism-drivers=openvswitch --os-neutron-l2-agent=openvswitch --
os-neutron-ovs-bridge-interfaces=br-ex:enp0s3 --os-neutron-ml2-type-drivers=vxlan,flat
--os-neutron-ml2-tenant-network-types=vxlan
```

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

```
#make sure your ethernet interface settings look like this. If exists 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
BOOTPROTO=none
```

```
#make sure your external bridge settings look like below
```

```
vi /etc/sysconfig/network-scripts/ifcfg-br-ex
DEVICE=br-ex
NAME=br-ex
DEVICETYPE=ovs
TYPE=OVSBridge
OVSBOOTPROTO="none"
IPADDR=<your_IP>
PREFIX=<your_prefix>
GATEWAY=<your_gateway_IP>
IPV4_FAILURE_FATAL=no
IPV6INIT=no
DNS1=<DNS_Server_IP>
ONBOOT=yes
```

```
#this command provides you the openstack admin privileges
source keystone_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