

#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 RHEL, download and install the RDO repository RPM(not required for centos)

sudo yum install -y <https://rdoproject.org/repos/rdo-release.rpm>

#On CentOS install the latest release of openstack package

sudo yum install -y centos-release-openstack-ocata

#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-type-drivers=vxlan,flat

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

```
vi /etc/sysconfig/network-scripts/ifcfg-eth0
```

```
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
```