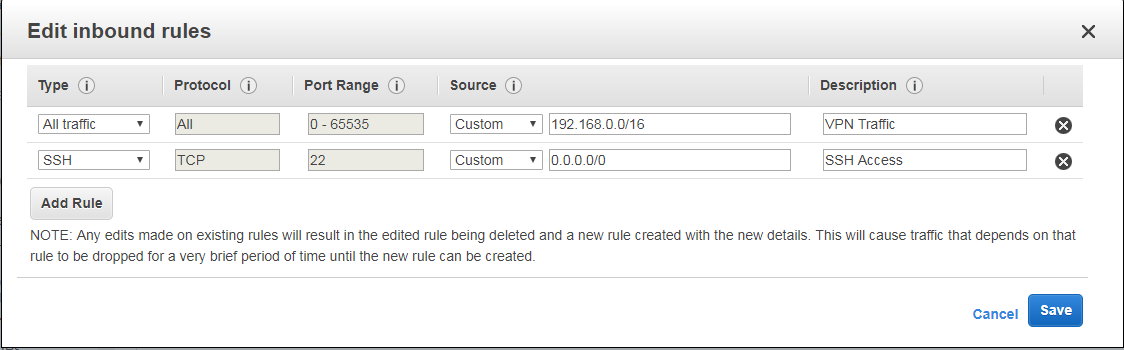
**Configure VPN between Mumbai and Ohio Lab 3 of 4**

Go to Security Group “Mumbai\_Linux\_sec\_Group”.

Click “Edit “ and then click “Add Rule”.

Allow all traffic from 192.168.0.0/16 subnet.

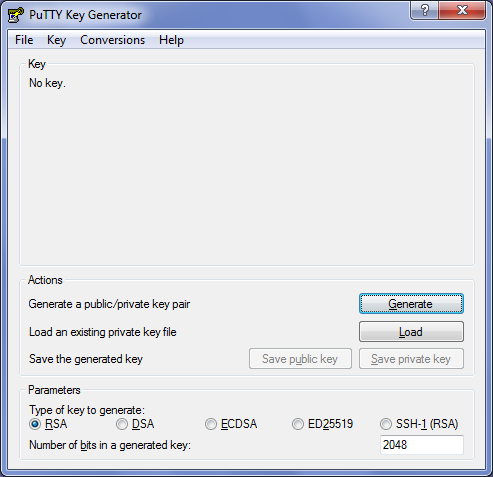


Then click save.

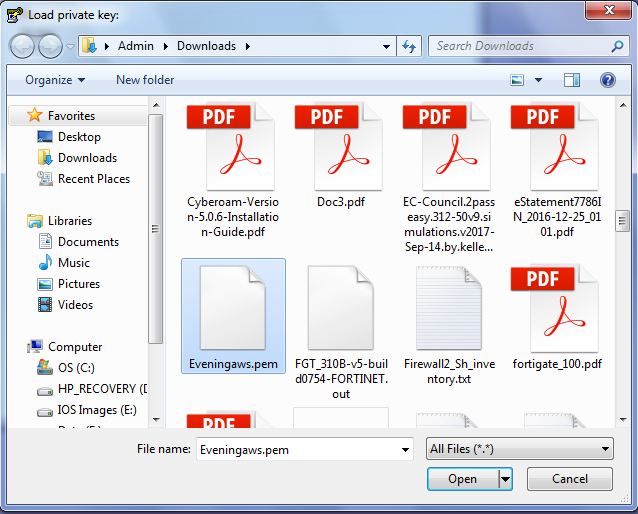
Goto Mumbai region to get public ip address of VPN Server Interface (13.127.161.231)

Launch putty key generator in your local machine,

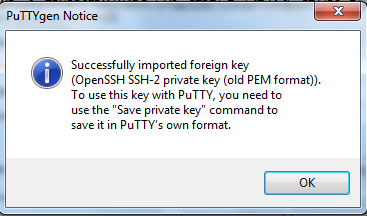
In File 🡪 Load private key



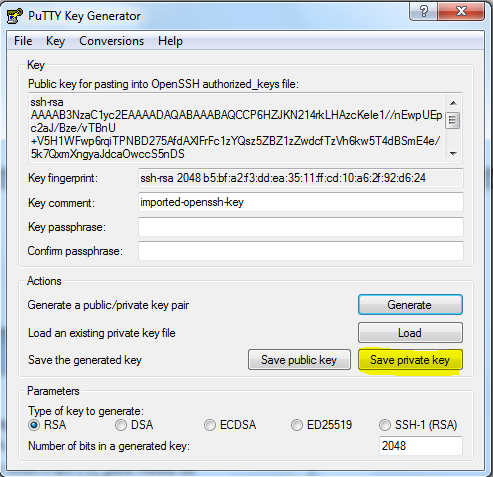
Locate the \*.pem file and click “open”.



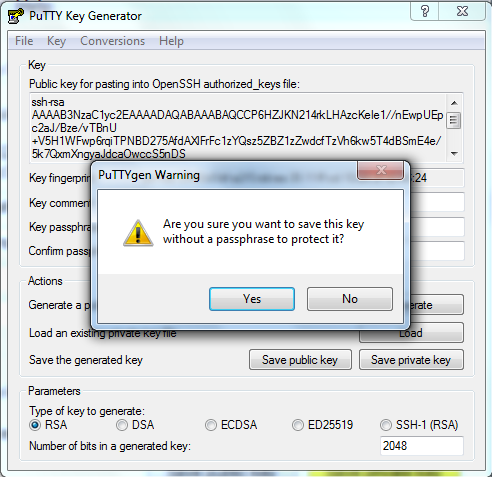
Click ”Ok:”.



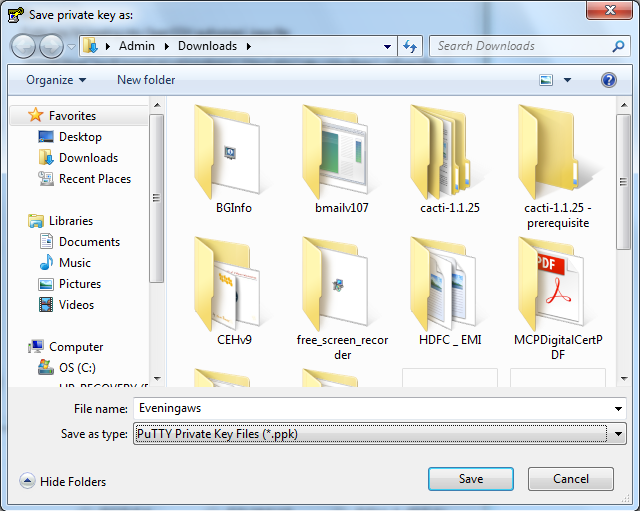
Click “save Private Key”.



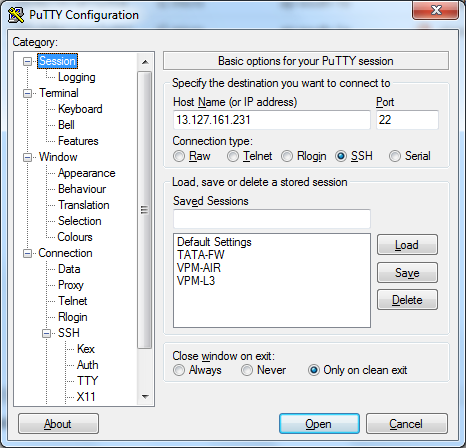
Click “Yes”.



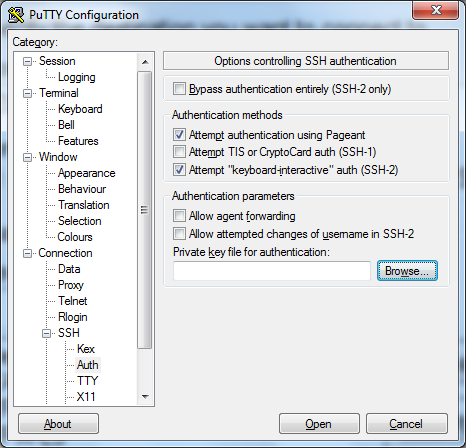
Save the private key in location.



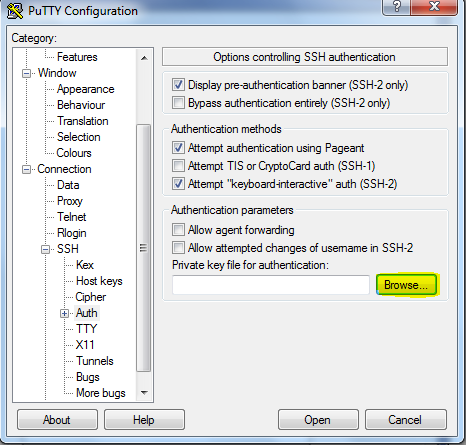
Type the ip address in putty.



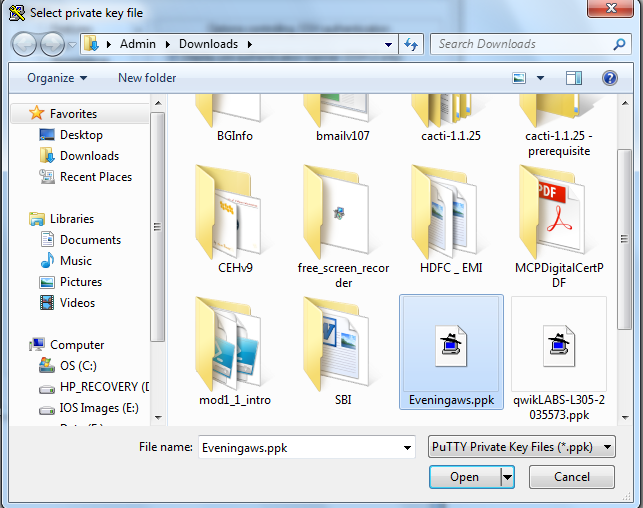
Click SSH and expand it click “Auth”.



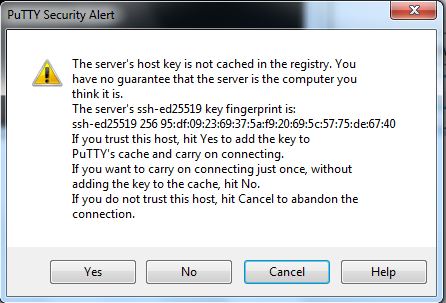
Click browse and locate the \*.ppk file.

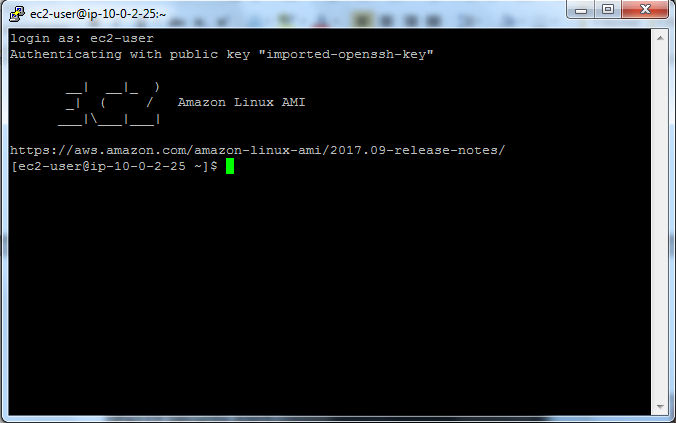


Locate the file and click “Open”.



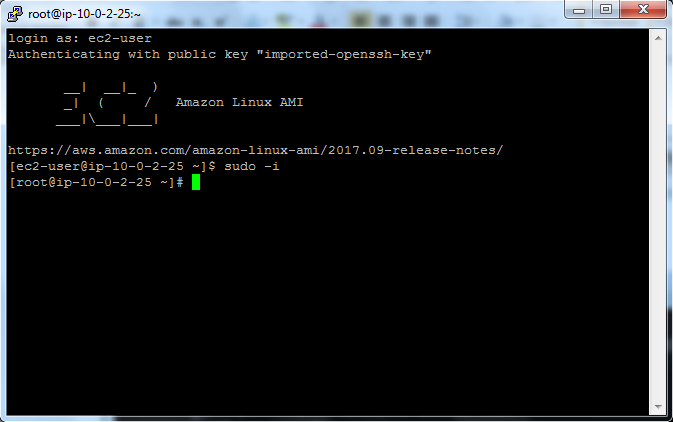
Click “Yes”.





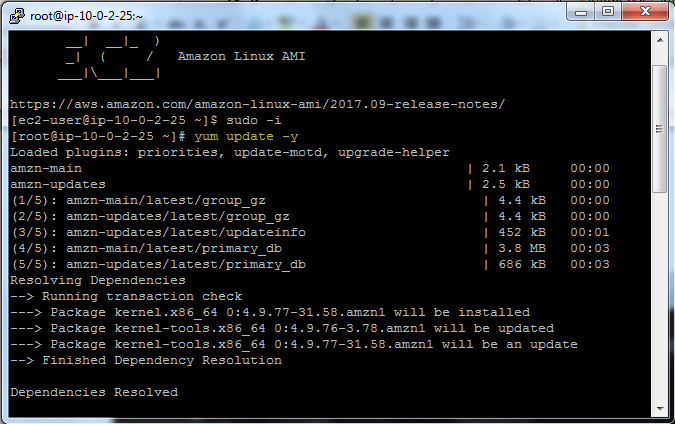
Type

sudo-i



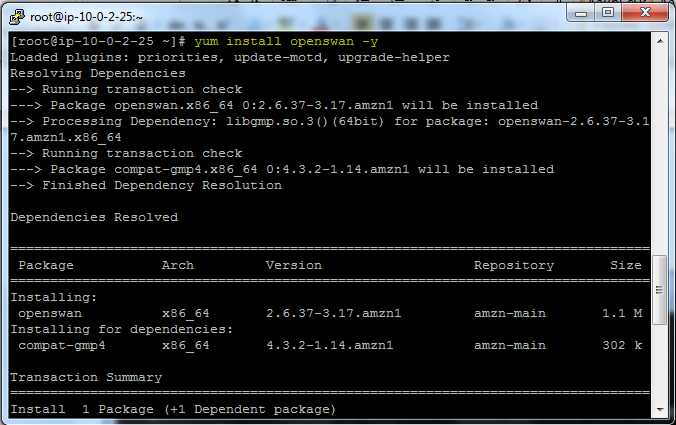
Type

Yum update -y



Type

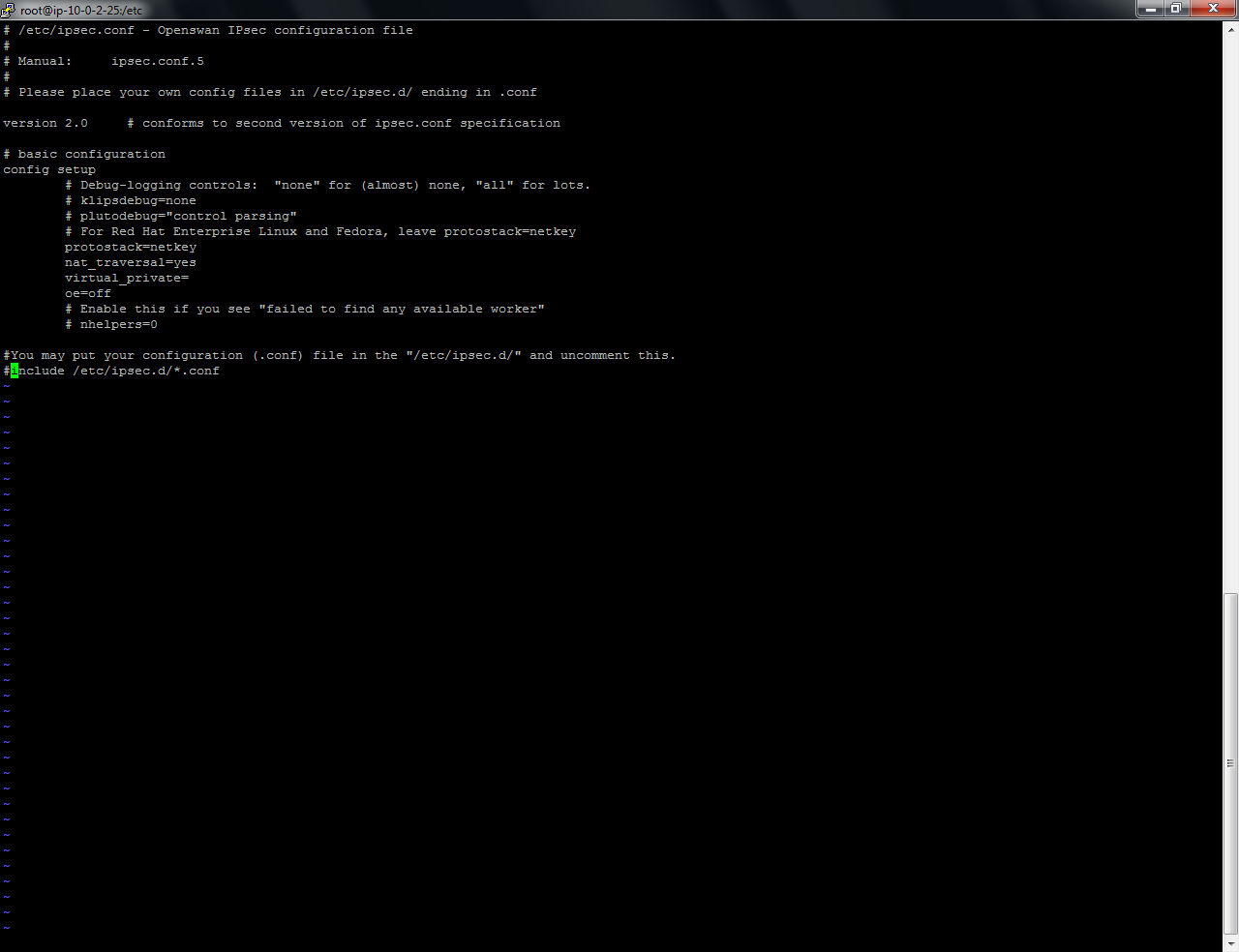
Yum install openswan -y

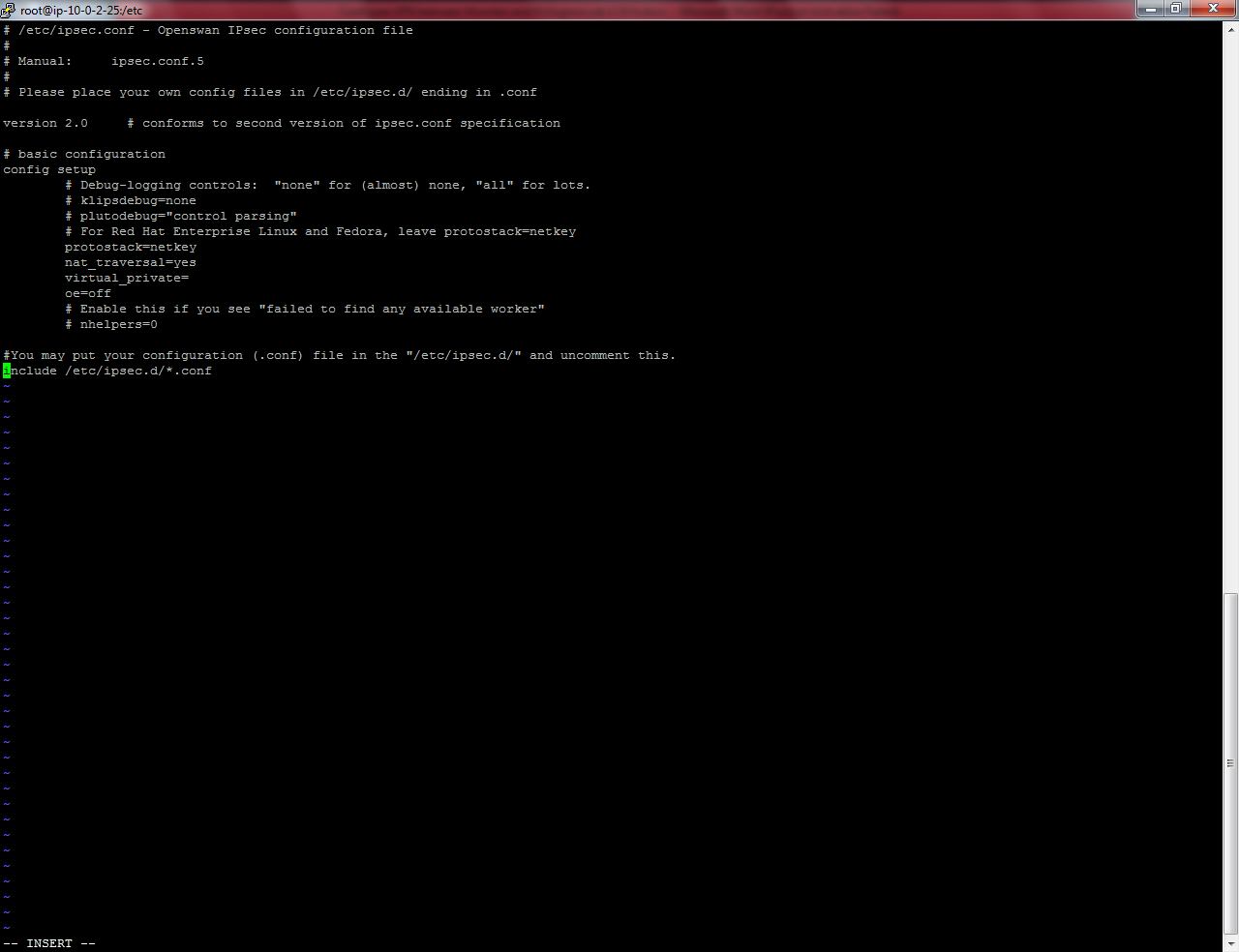


Cd /etc

Vi ipsec.conf

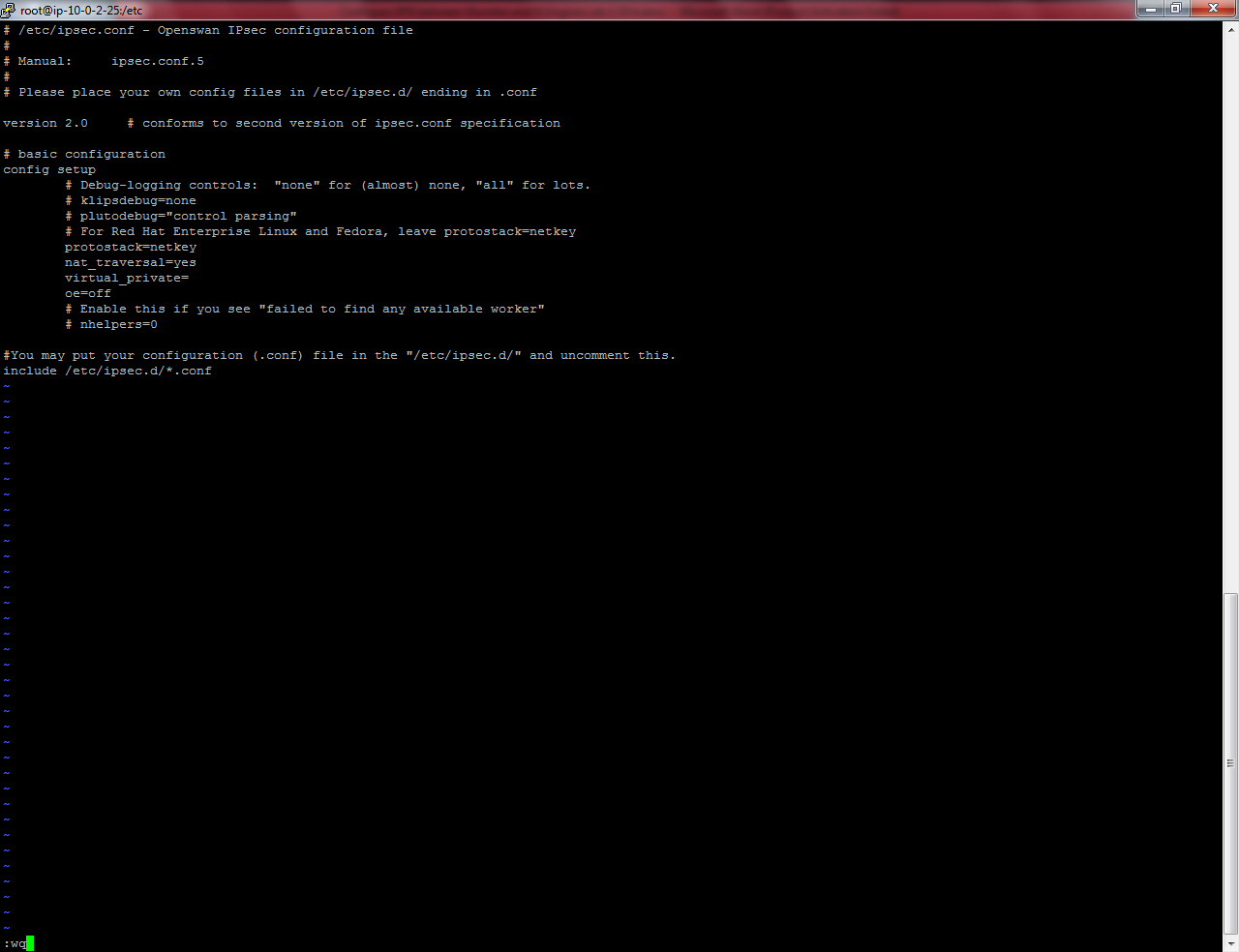
In ipsec.conf file we need to **remove # from** #include /etc/ipsec.d/\*.conf line





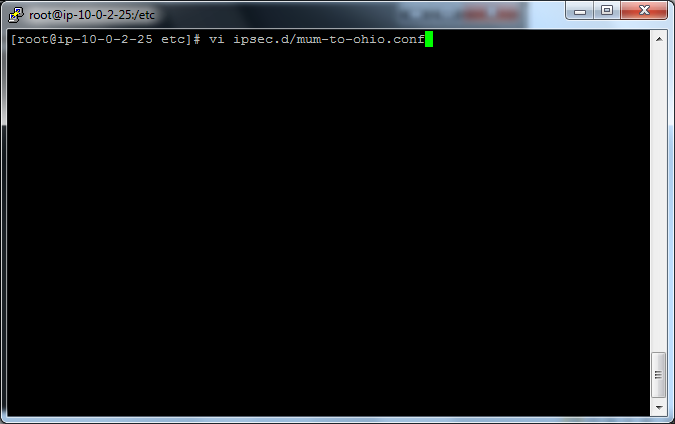
Press Escape key

Type :wq



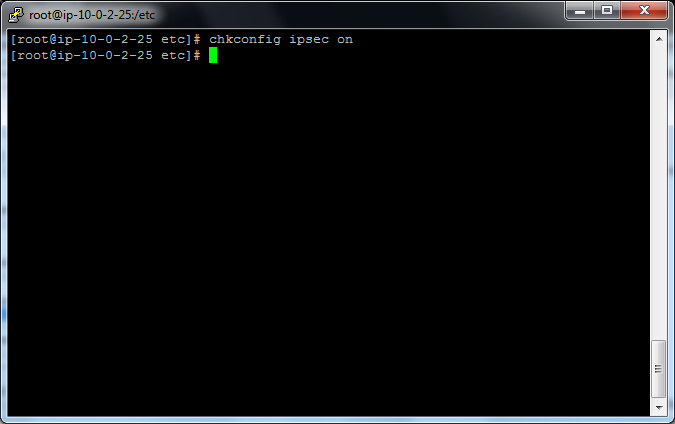
Type

Vi ipsec.d/mum-to-ohio.conf



Type

Chkconfig ipsec on



Copy the command to below editor.

conn mum-to-ohio

type=tunnel

authby=secret

left=defaultroute

leftid=13.127.161.231

leftnexthop=%defaultroute

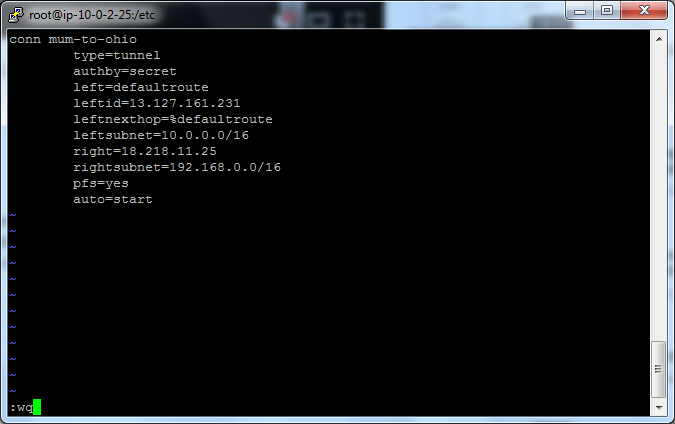
leftsubnet=10.0.0.0/16

right=18.218.11.25

rightsubnet=192.168.0.0/16

pfs=yes

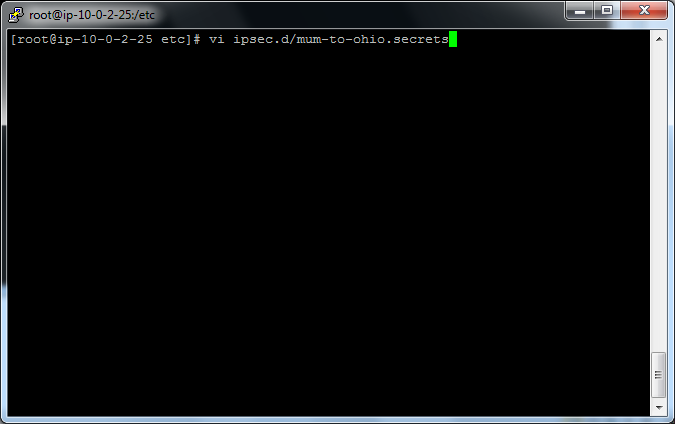
auto=start



Press escape and type :wq

Type

Vi ipsec.d/mum-to-ohio.secrets



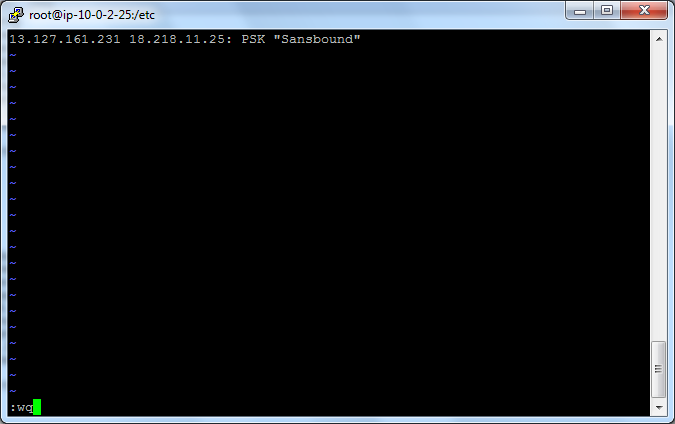
TYPE EIP1 (Mumbai EIP) and type EIP2 (Ohio EIP) then type : PSK “Preshared key of the tunnel”.

Our Tunnel Preshared key is “Sansbound”

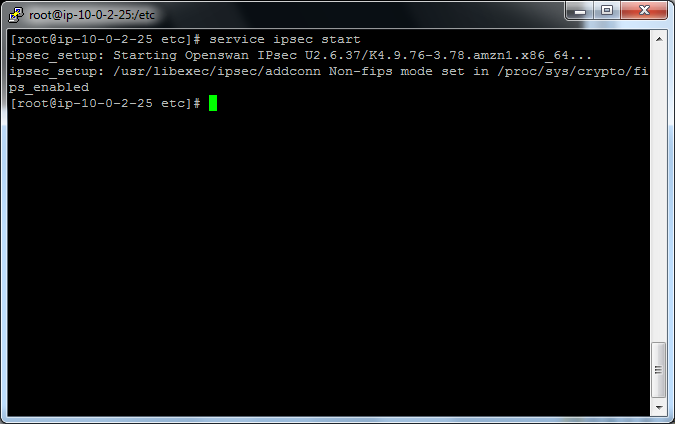


Press escape key

Type :wq



Service ipsec start



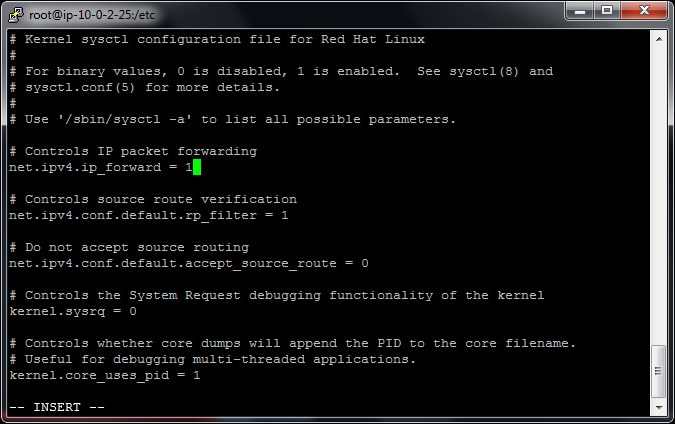
Type sysctl.conf



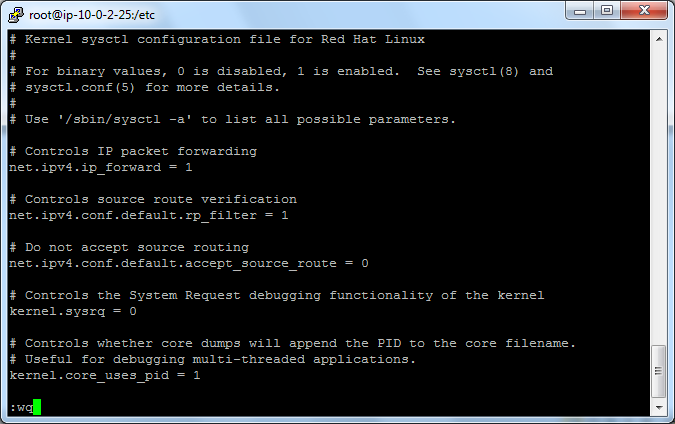
Press insert and then change the value as below.

Change

net.ipv4.ip\_forward = 1



Press “Escape” key



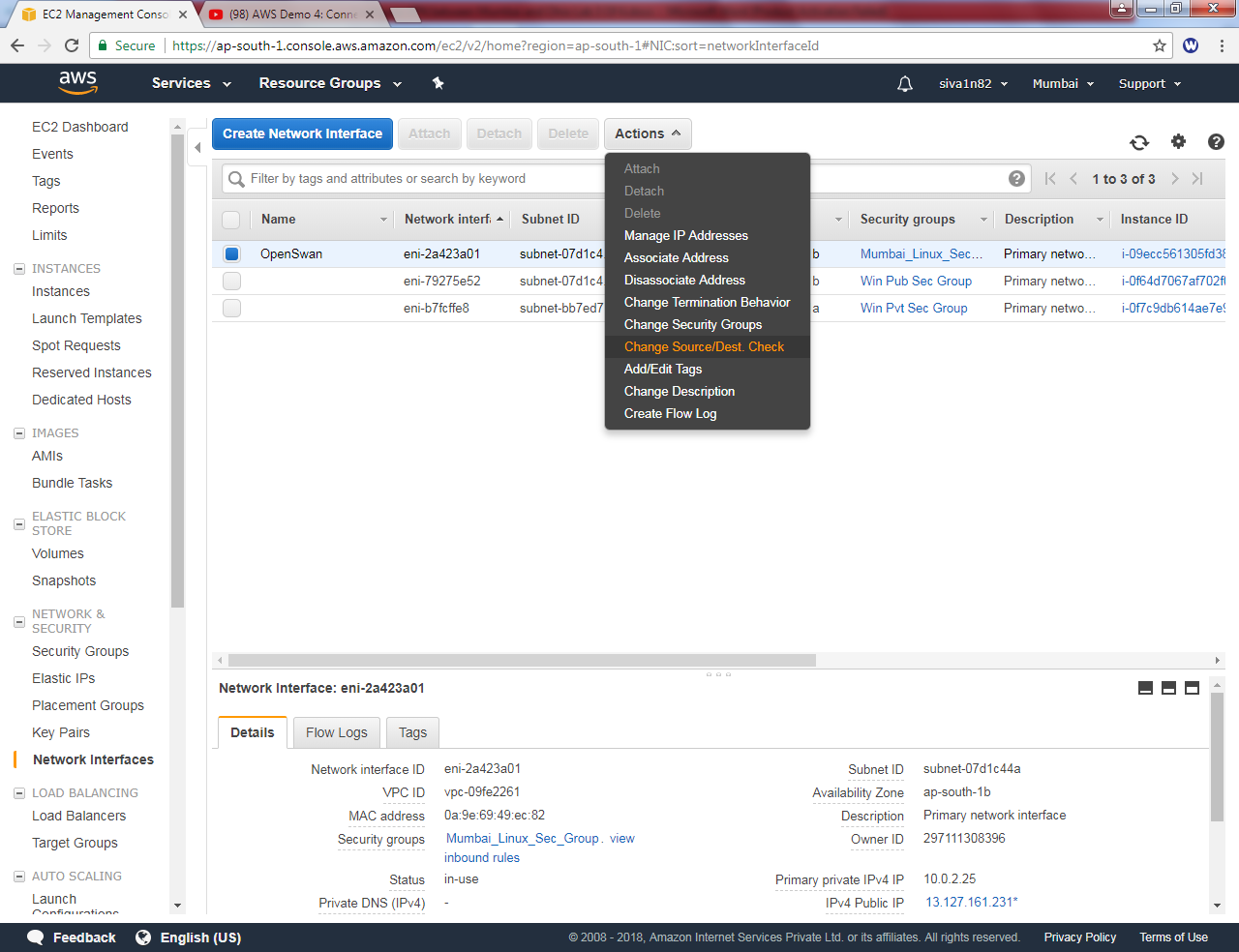
and then type

:wq

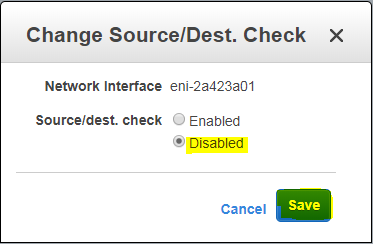
Go to Ec2 Dashboard

Click “Network interface” and then select “OpenSwan”

Click “Actions” 🡪 Click “Change source/destination check”

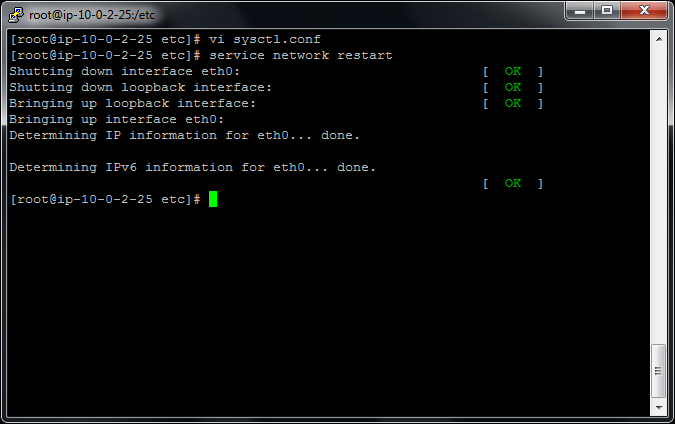


Set it as “Disabled”and click “save”.



Type

Service network restart



Type vi sysctl.conf

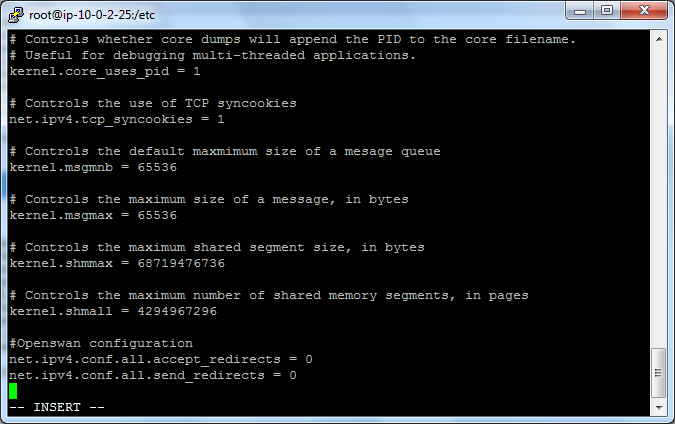


Press insert key

Type

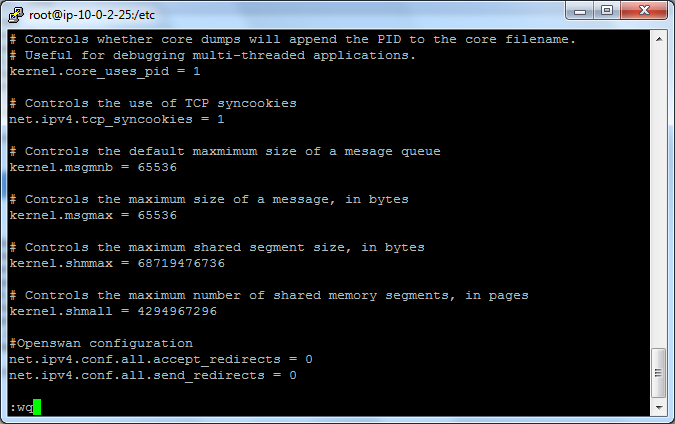
net.ipv4.conf.all.accept\_redirects = 0

net.ipv4.conf.all.send\_redirects = 0



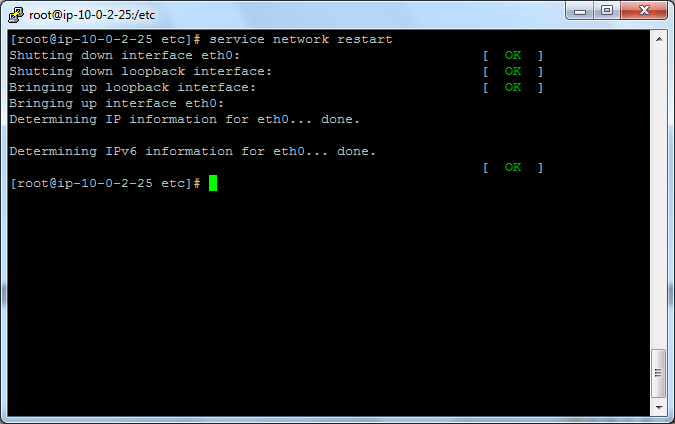
Press escape key and type

:wq



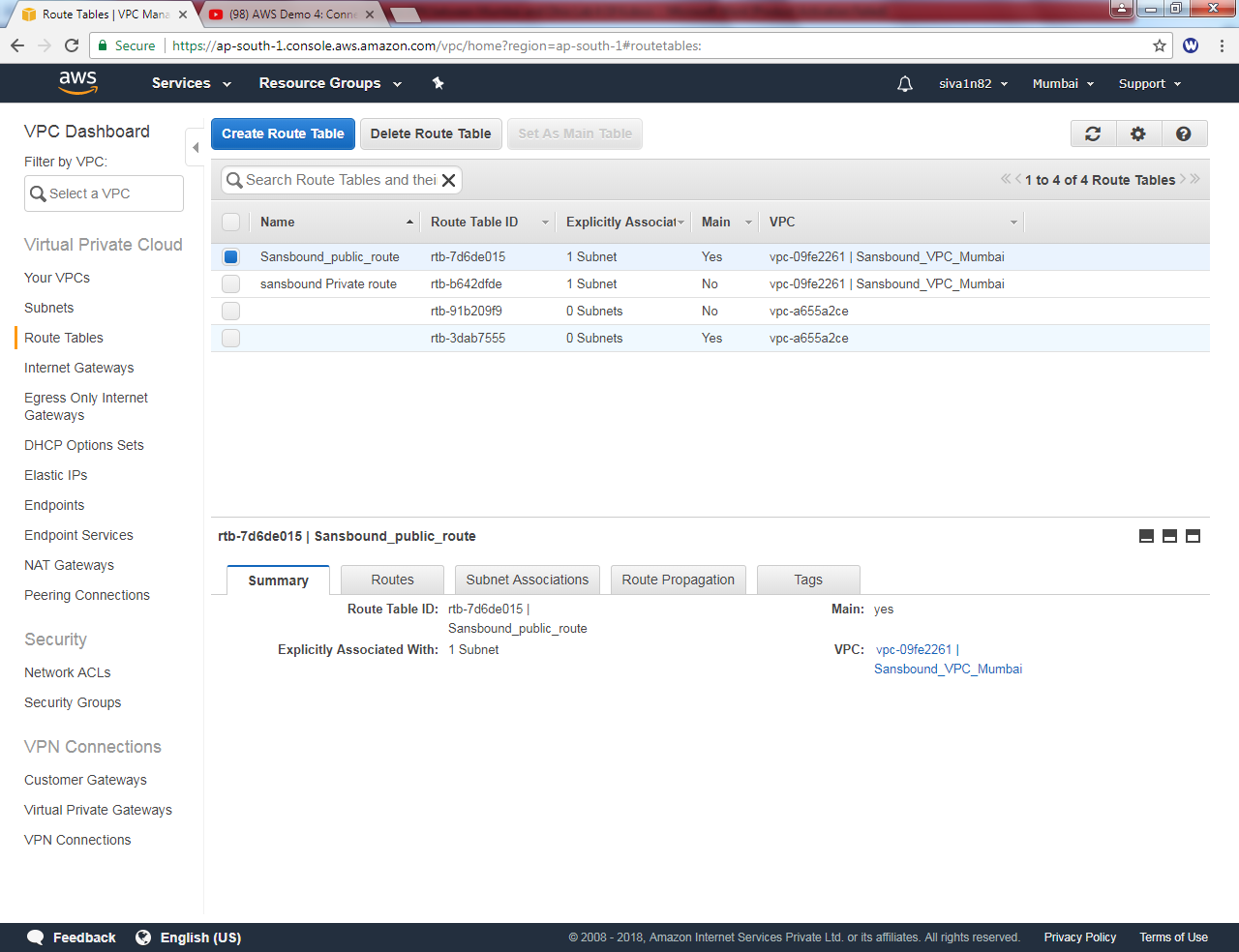
Type

Service network restart

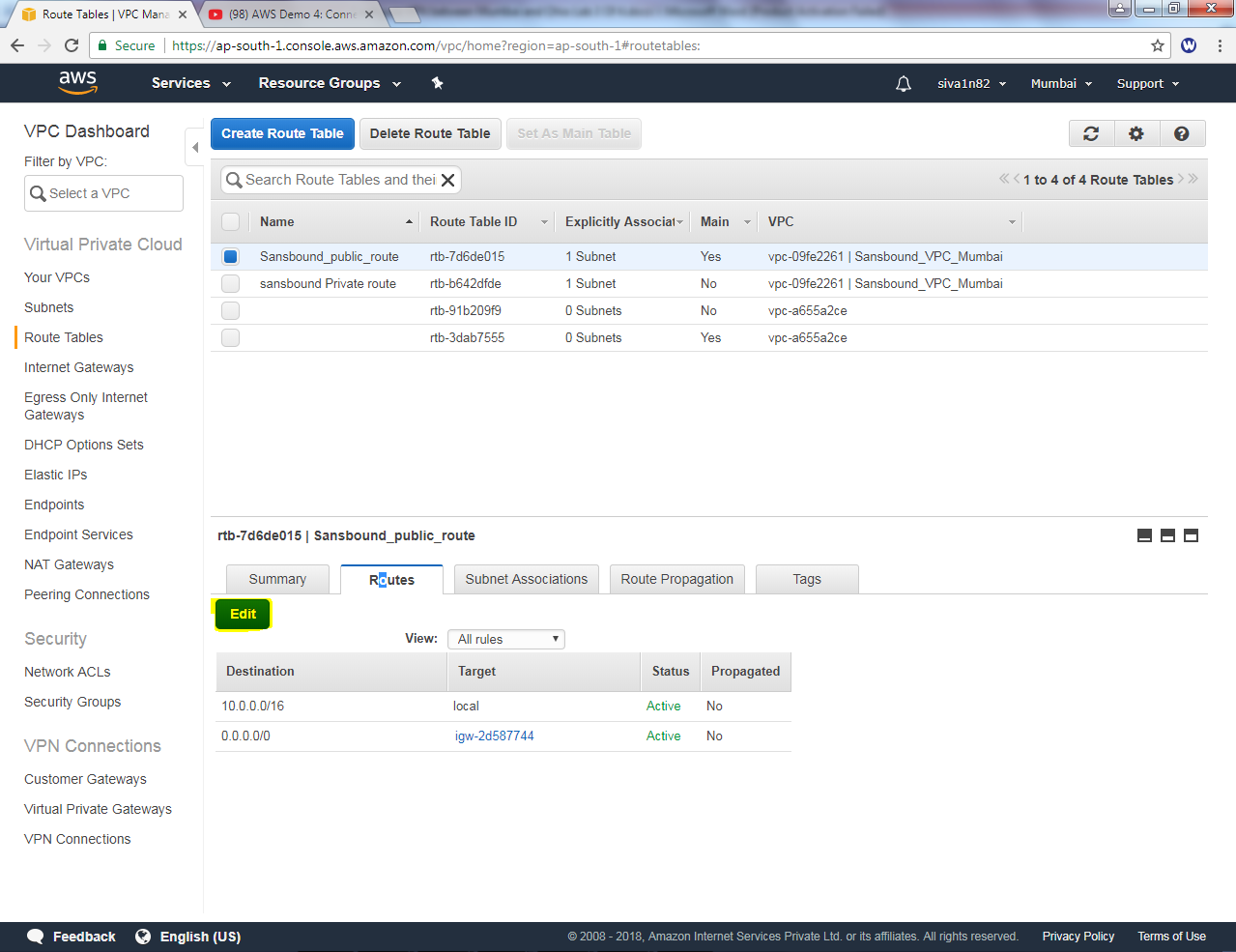


Go to VPC dashboard,

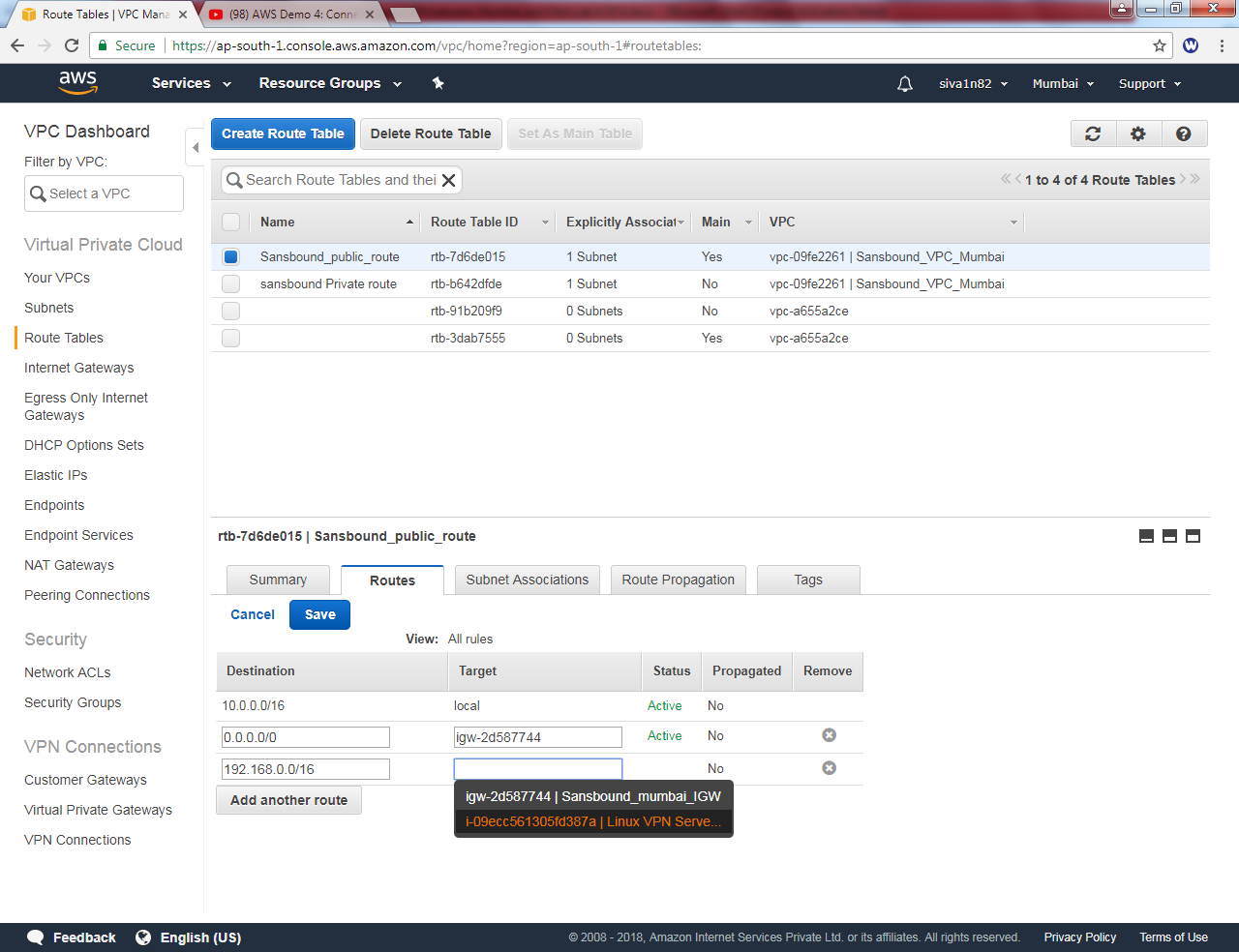
Click Route table, select sansbound public route table,



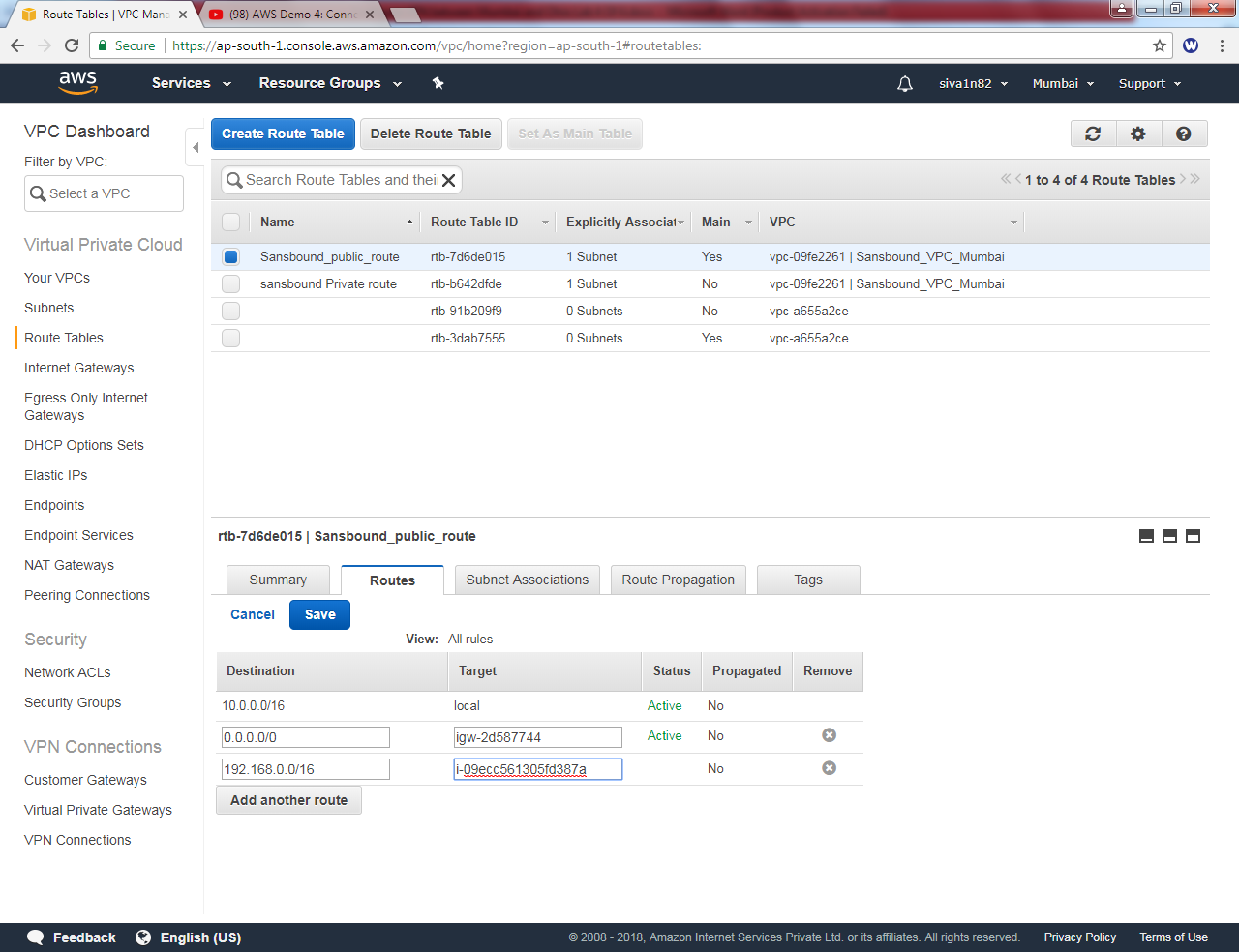
Click “Edit

”

Click “add another route” and then type 192.168.0.0/16 as destination and select “Linux VPN Server” as target.



Click “save”.



Detailed information of route table.

