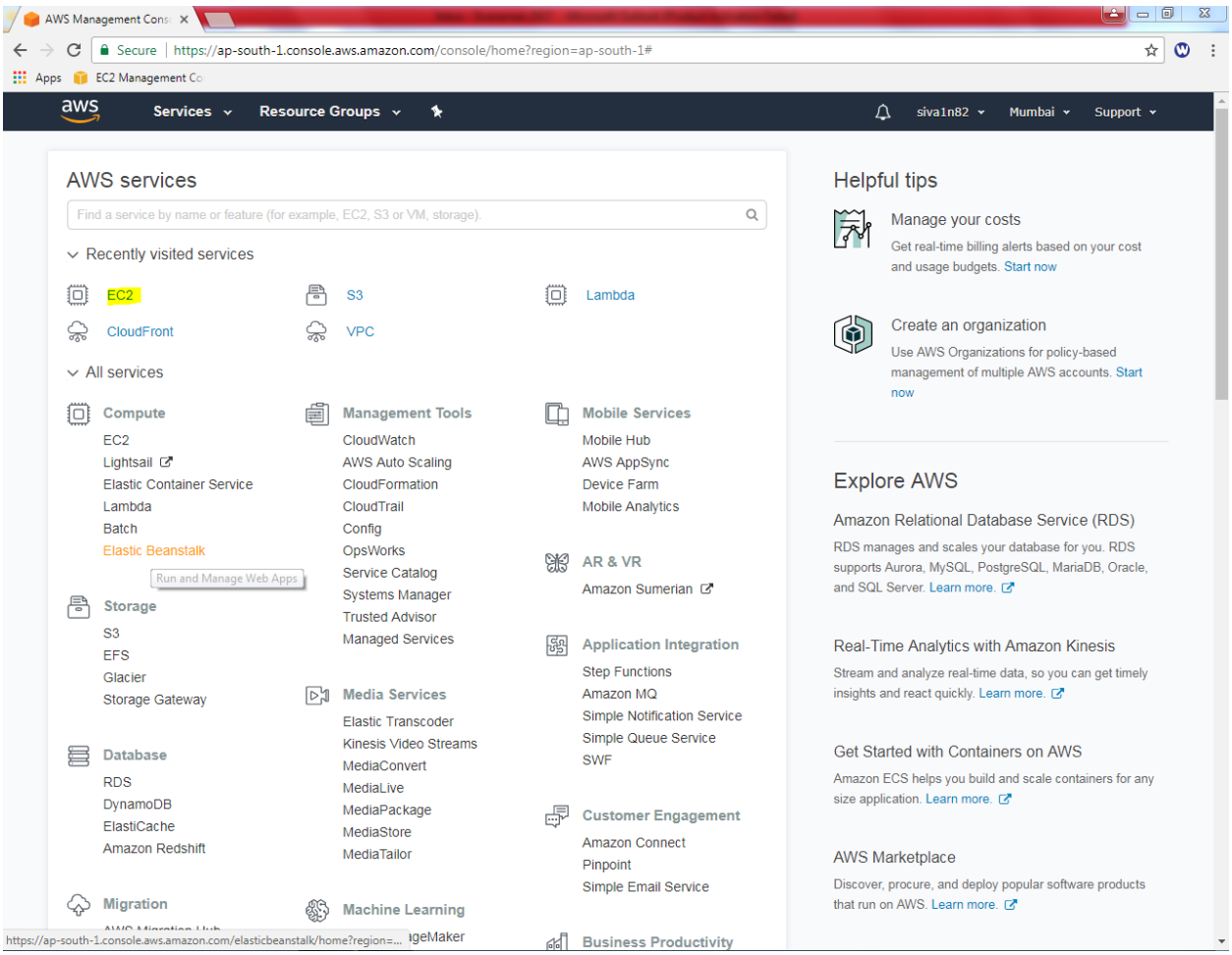
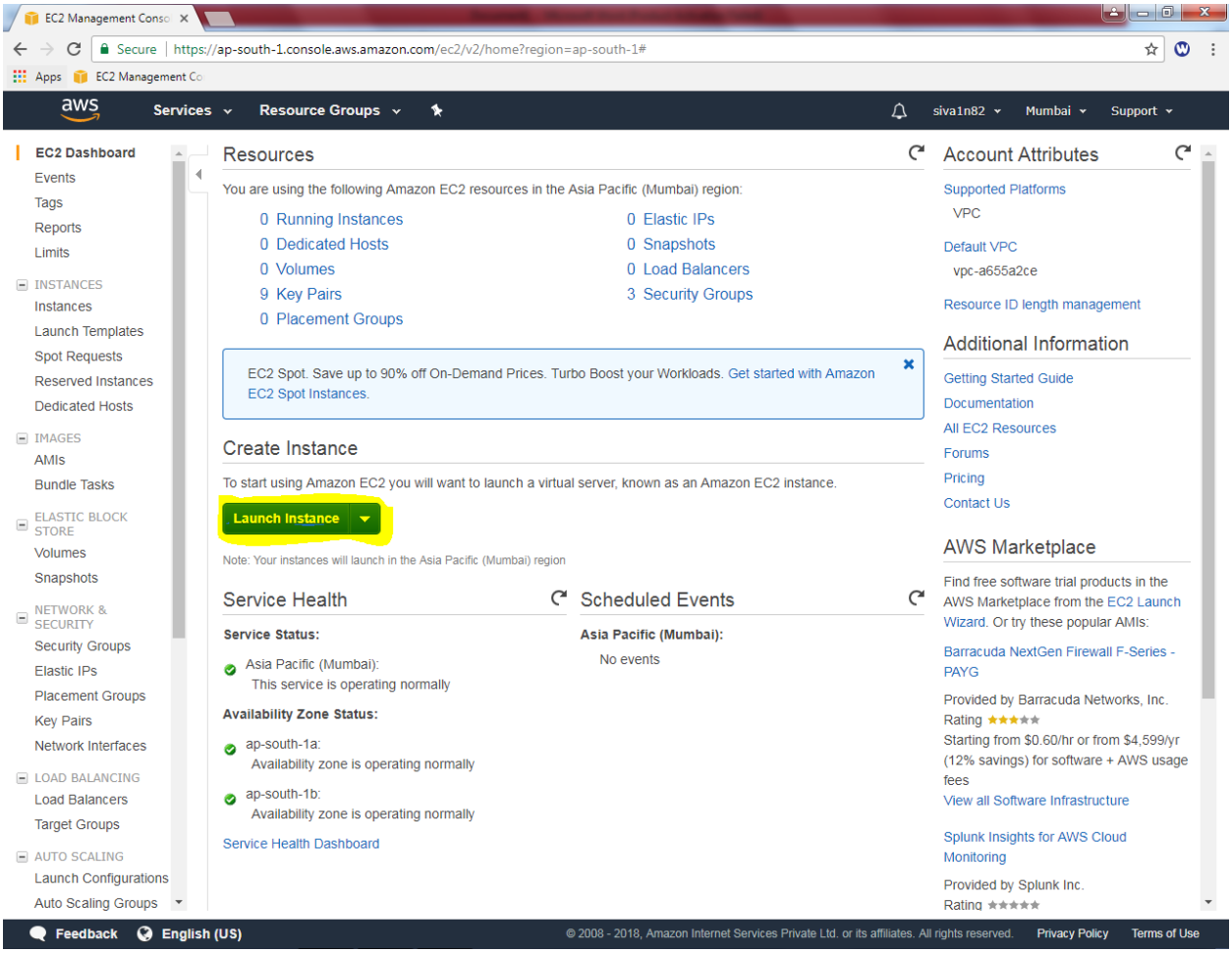
Lab3

Configuring Apache Web server in Linux instance – for Beginners

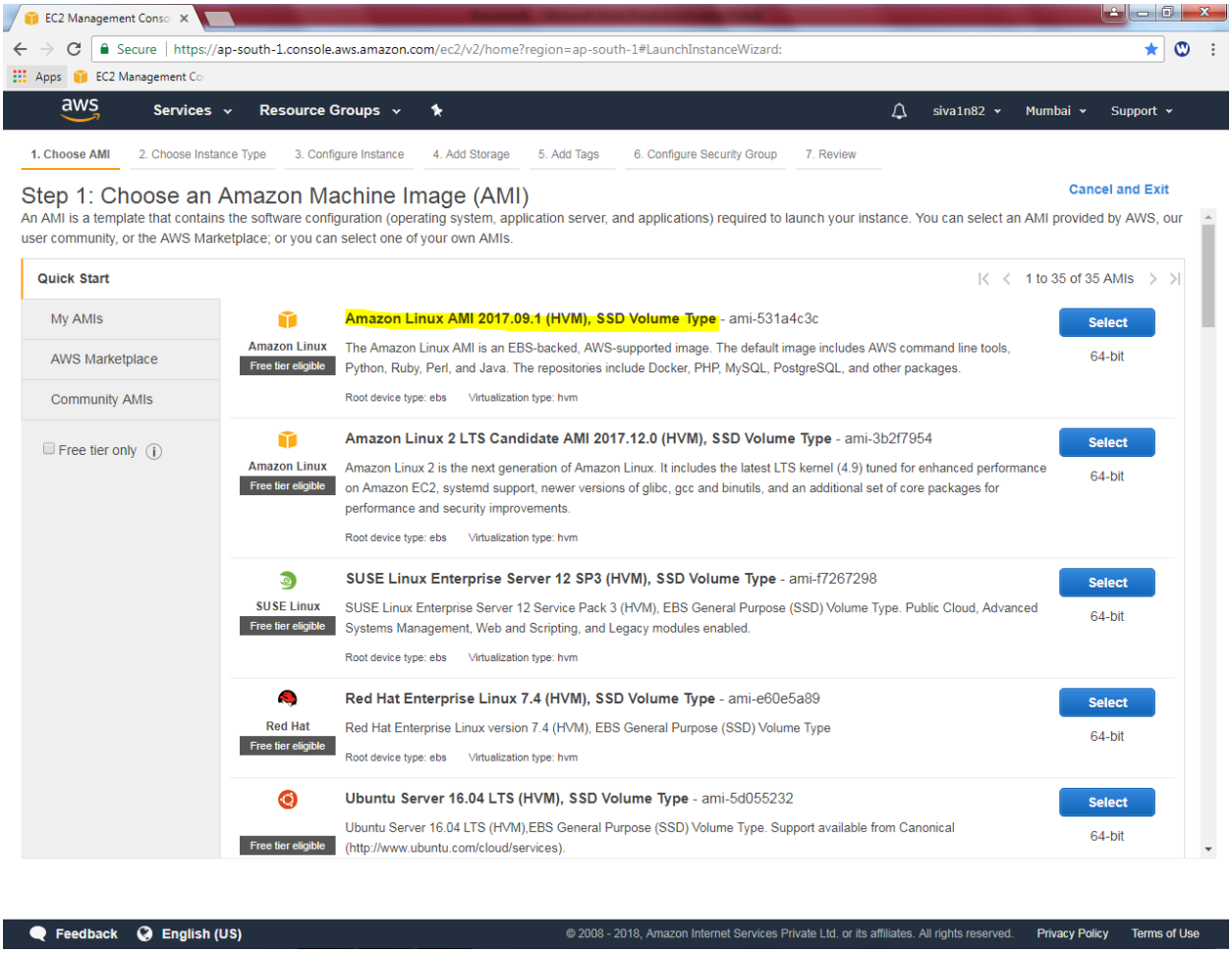
While logged in to AWS management console, Kindly click “EC2” service.



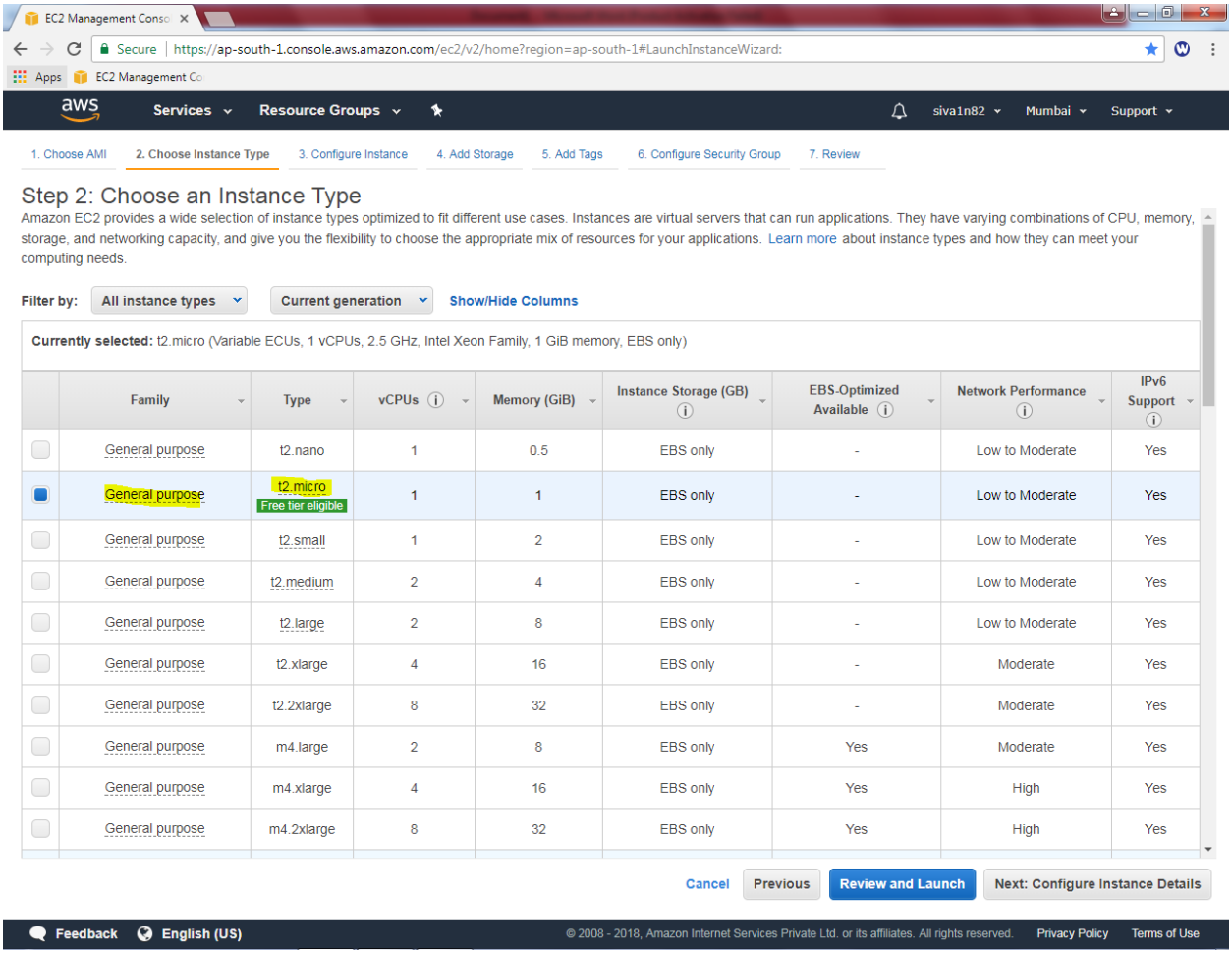
Click “Launch Instance”.



Select “Amazon Linux”.

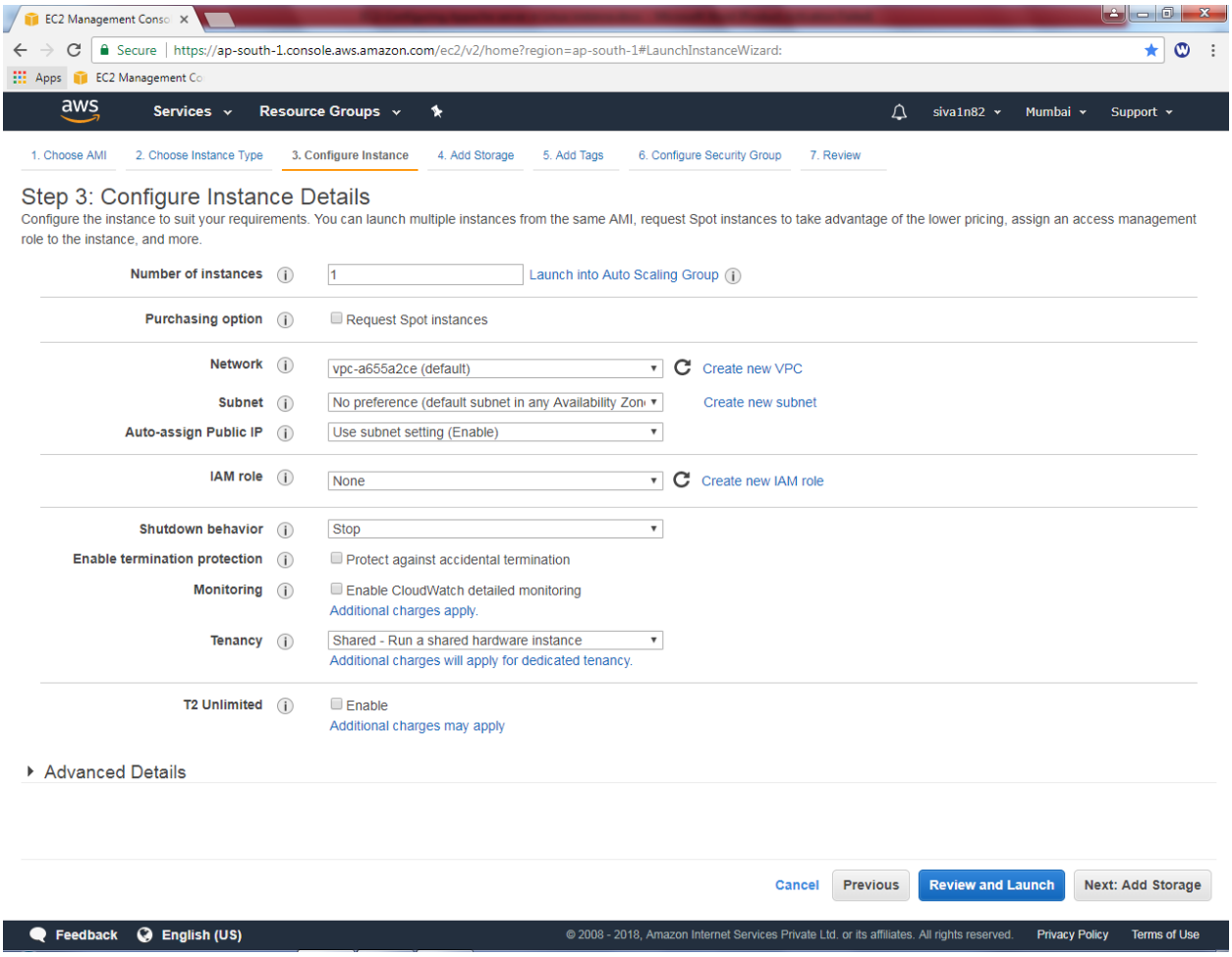


Ensure that “General Purpose – t2 micro” is selected.

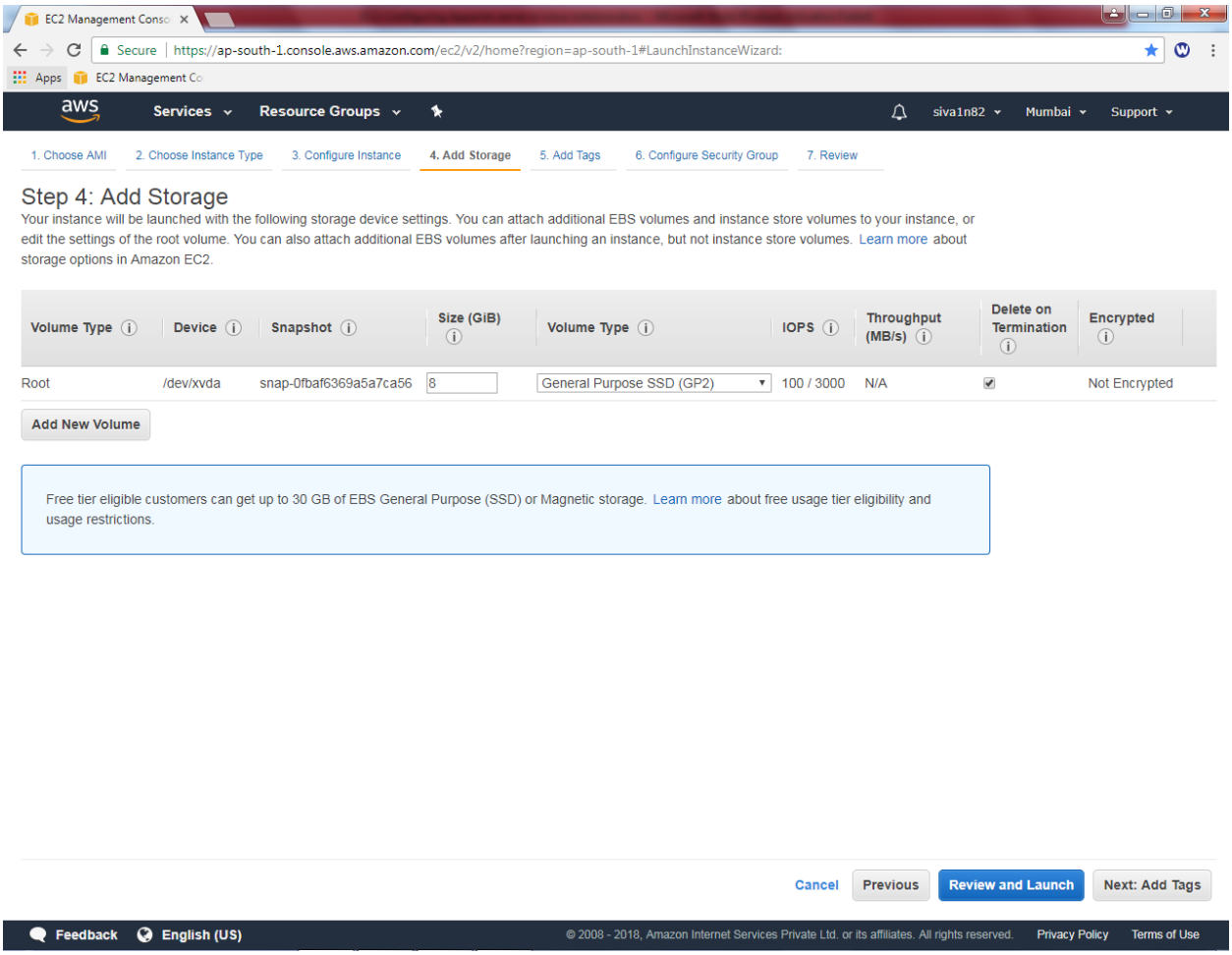


Click “Next”.

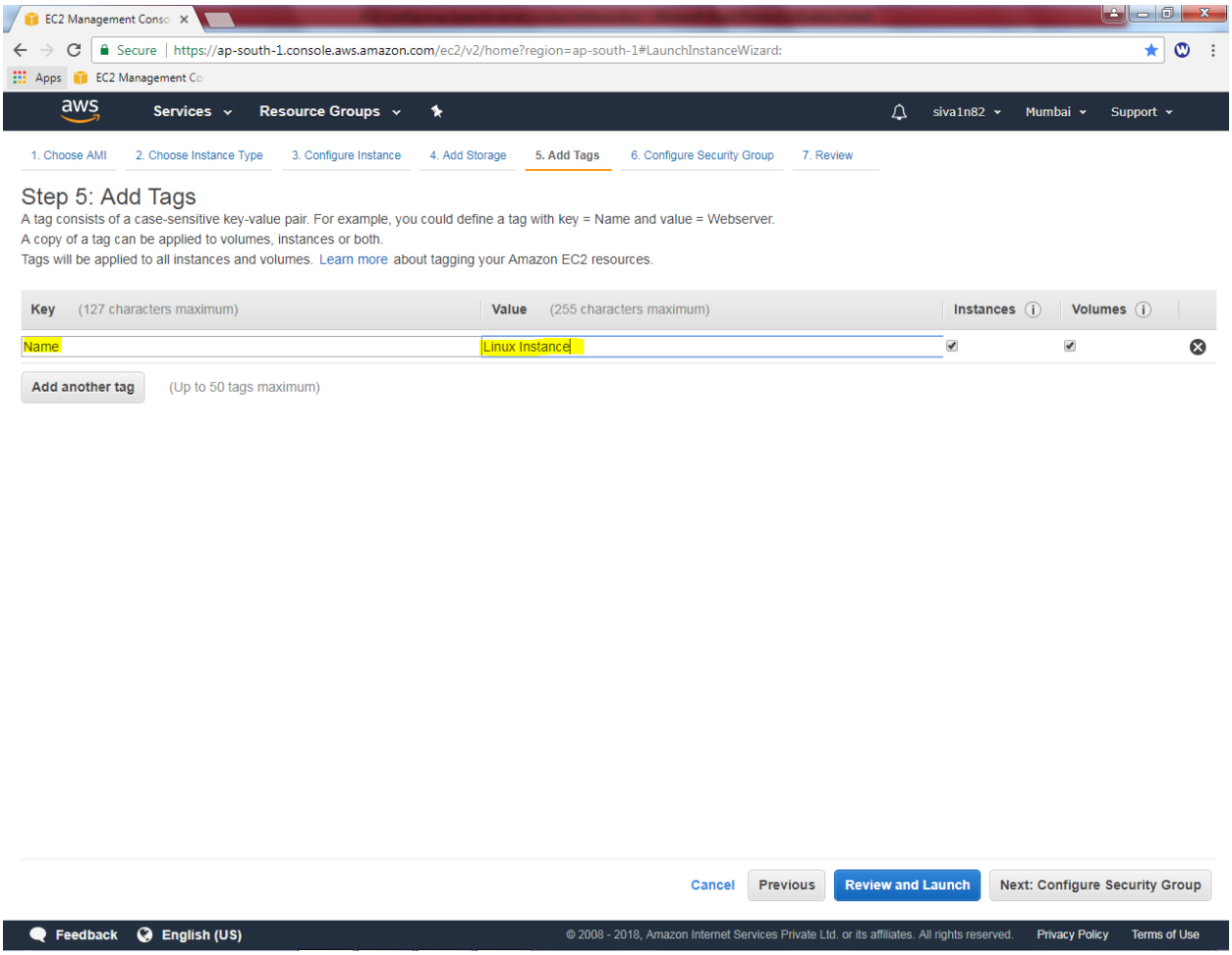
Leave default settings and click “Next”.



Leave default settings and click “Next”.



In Add tags, Key as “Name”and value as “Linux Instance”.

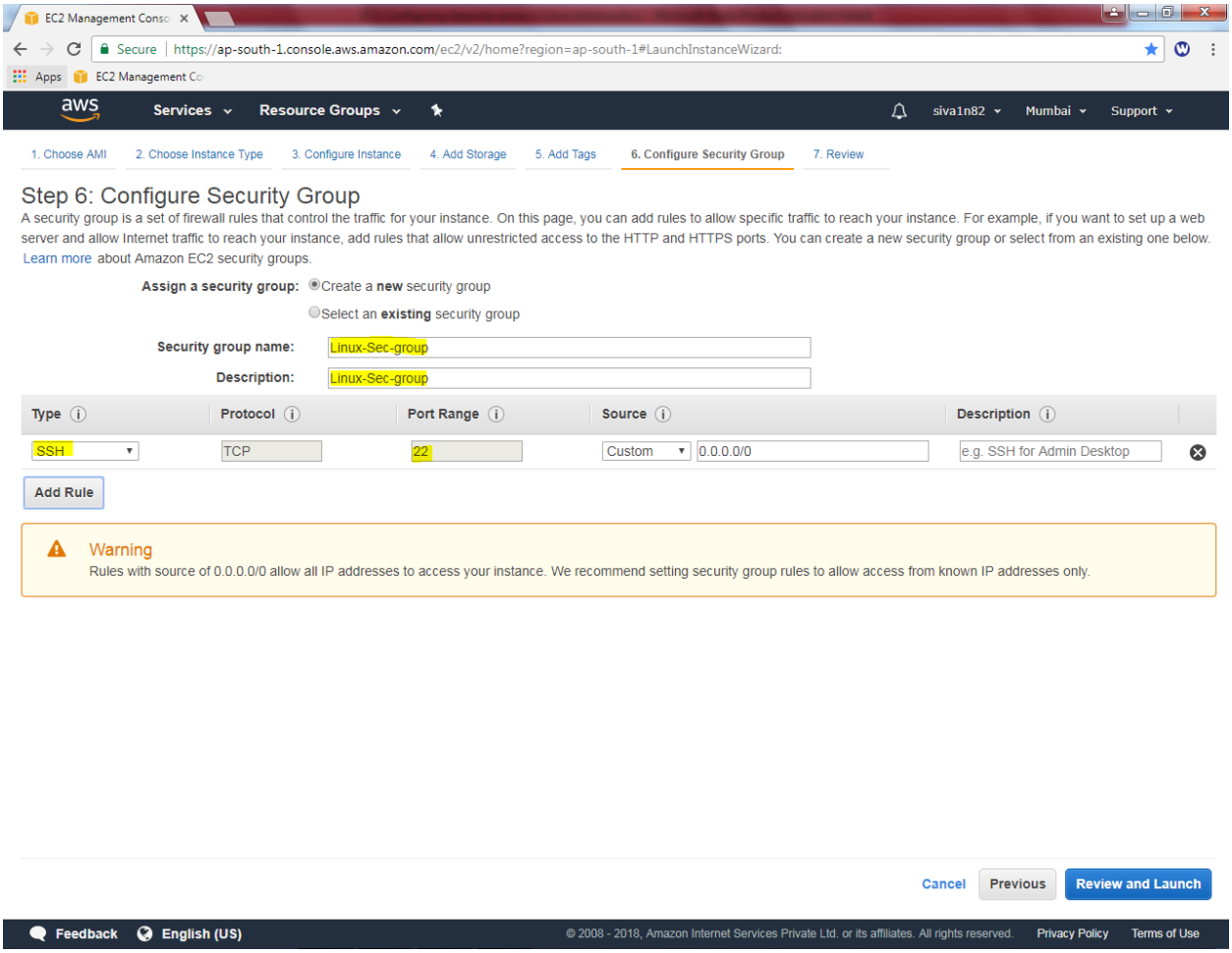


Click “Next”.

While configuring security group, create a new security group for Linux Instance.

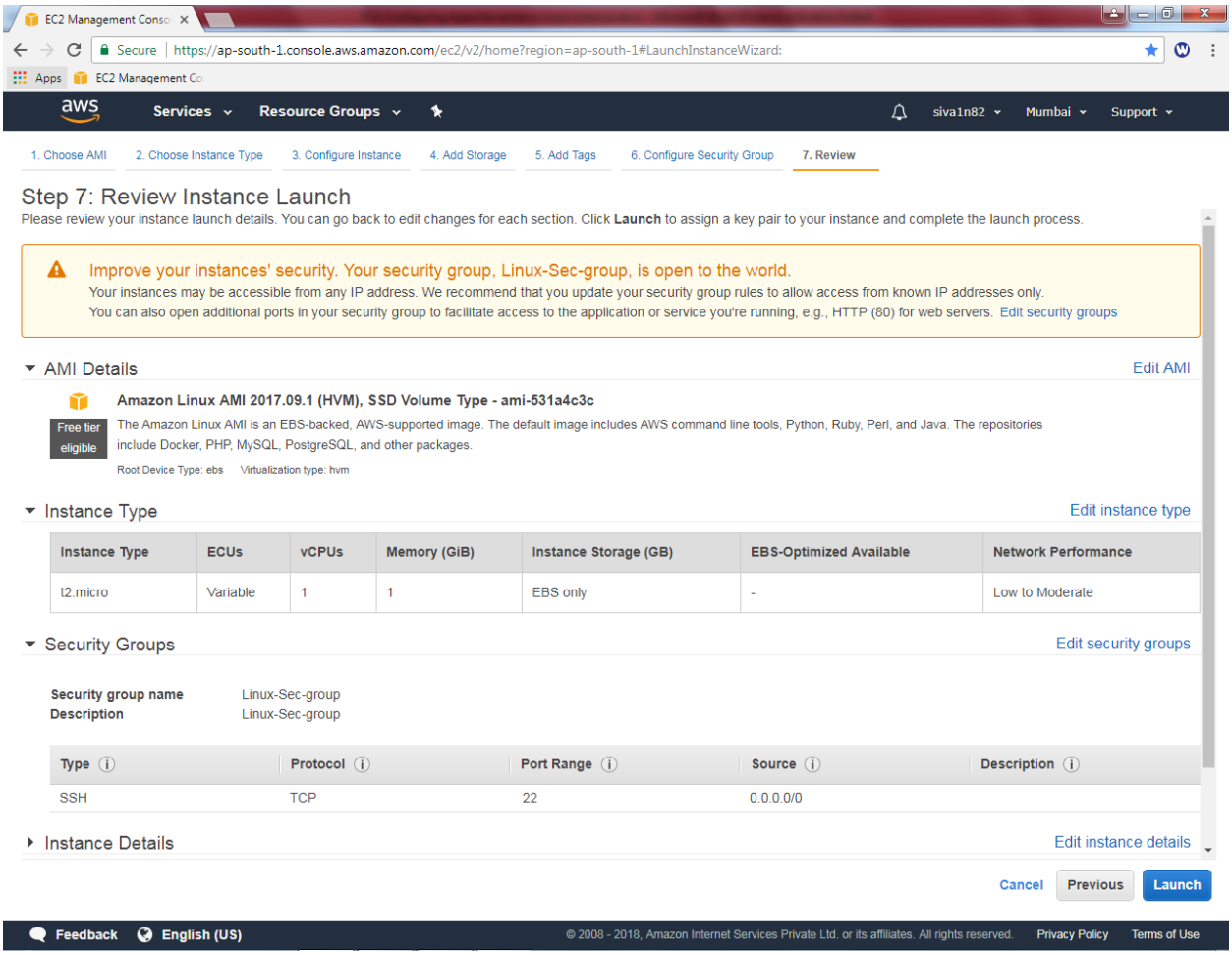
Type security group name as Linux-Sec-Group

Description as Linux-Sec-Group

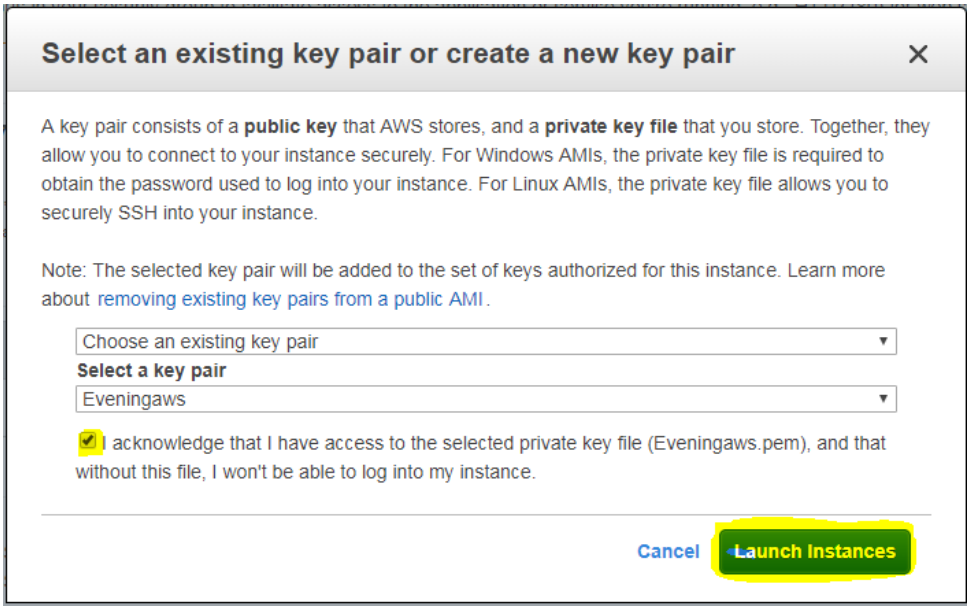


Click “Review and Launch”.

Leave default settings and click “Launch”.



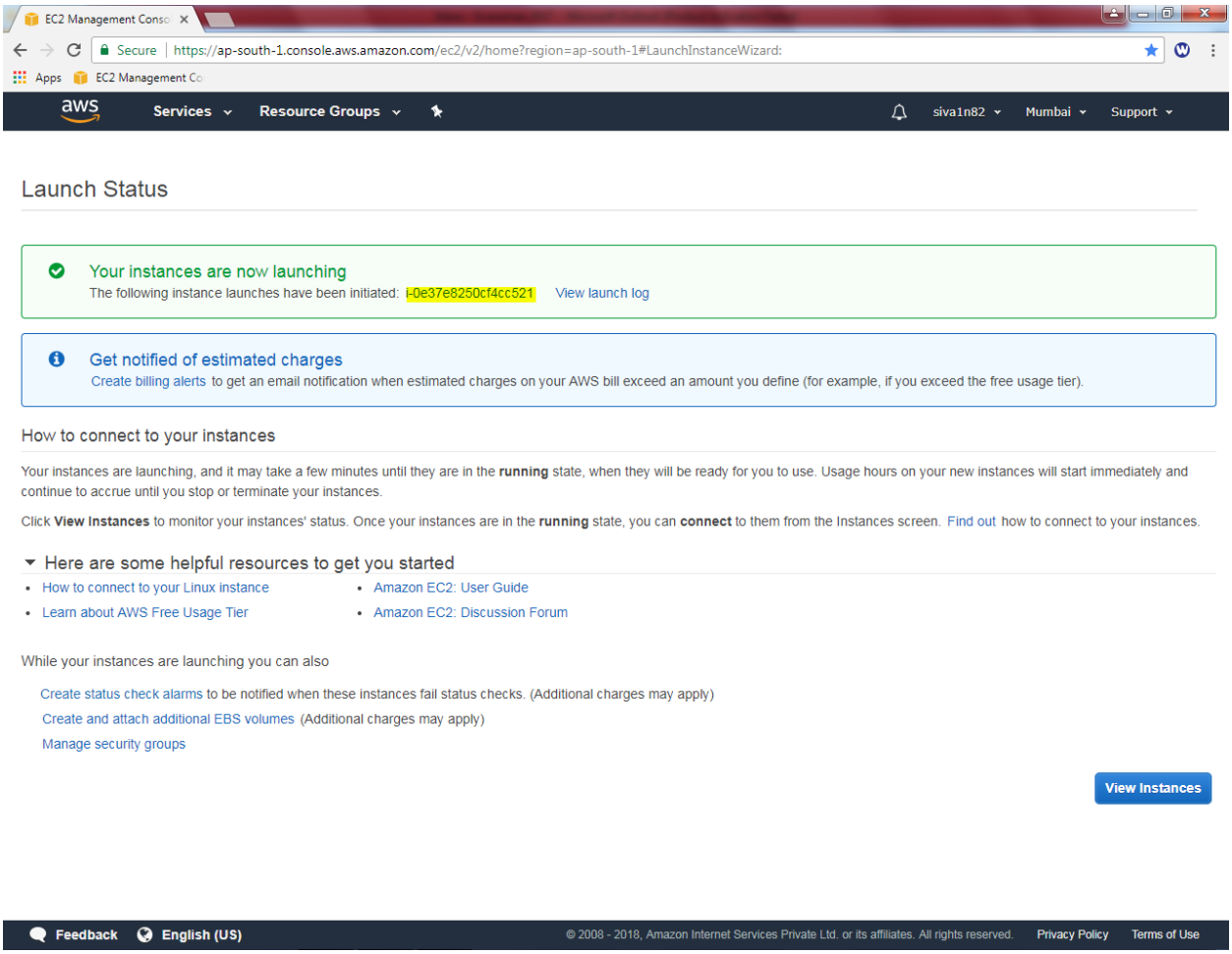
While click “launch” it ask to select an existing key pair or create a new key pair option.



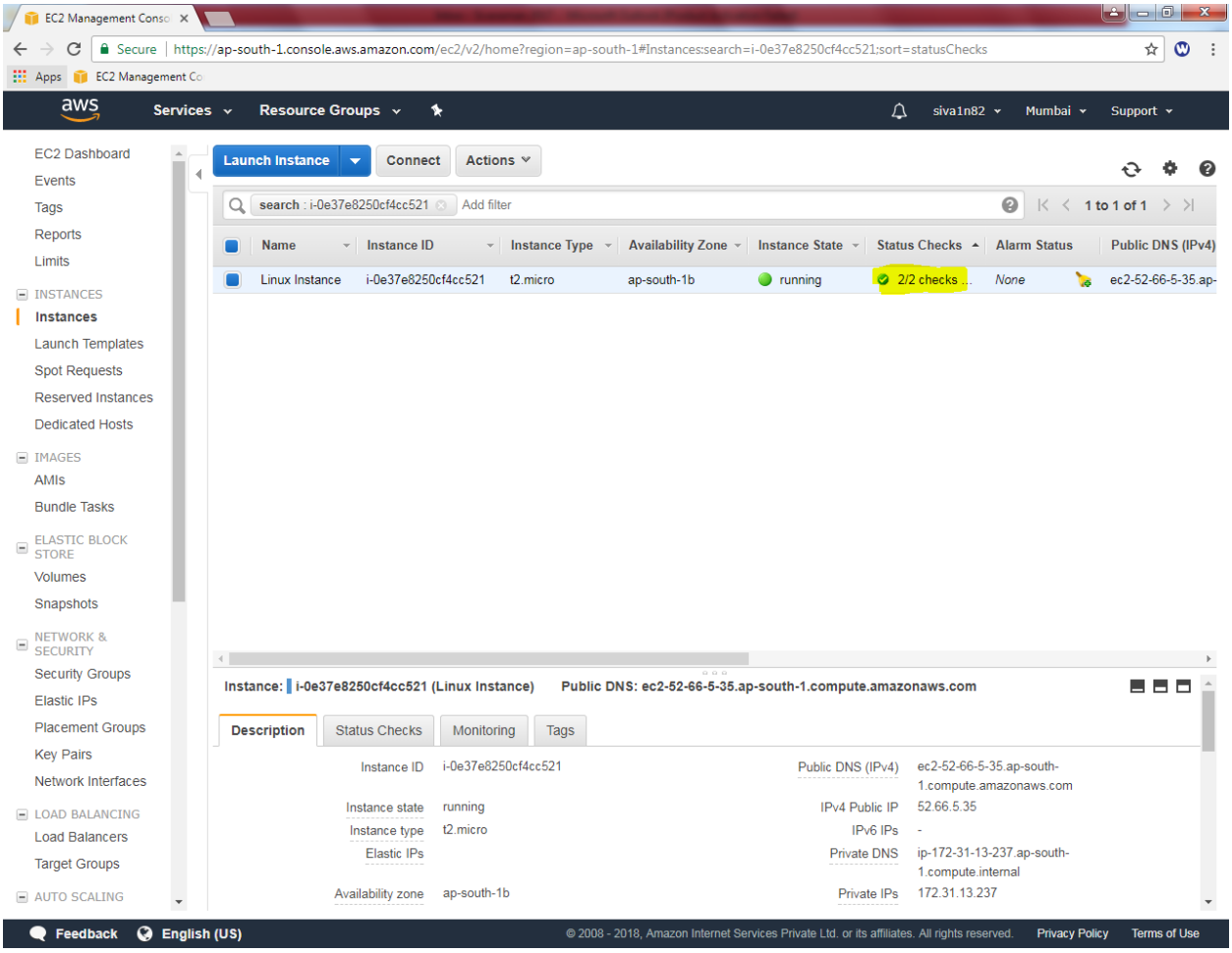
Select the choose an existing key pair if you have already downloaded *.pem file. Otherwise click create a new key pair. We have already key with us, hence I have selected choose an existing key pair option. And select the “Eveningaws” key from drop down box. Then click “I acknowledge”.

Click “launch instance”.

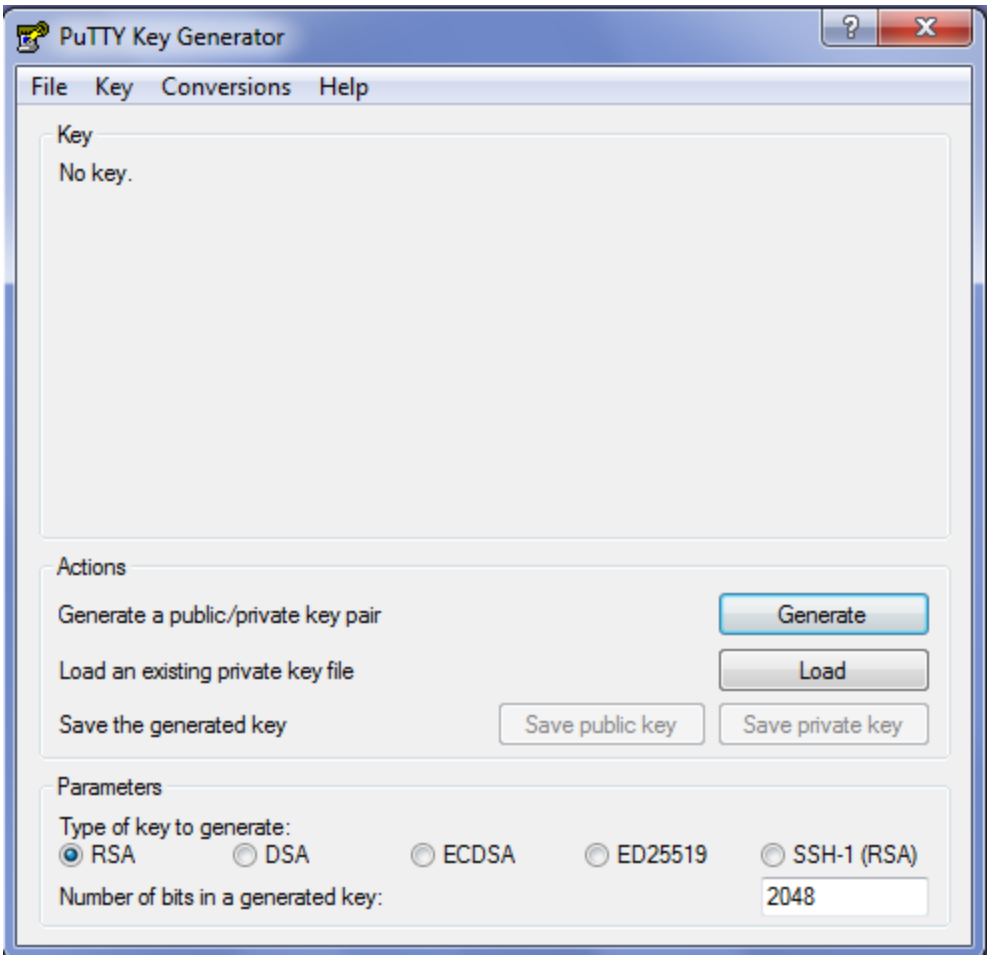
Now you have created an instance and launched successfully. Click the highlighted area or view instance to view the Linux instance.



Please wait up to the status checks becomes 2/2 checks.

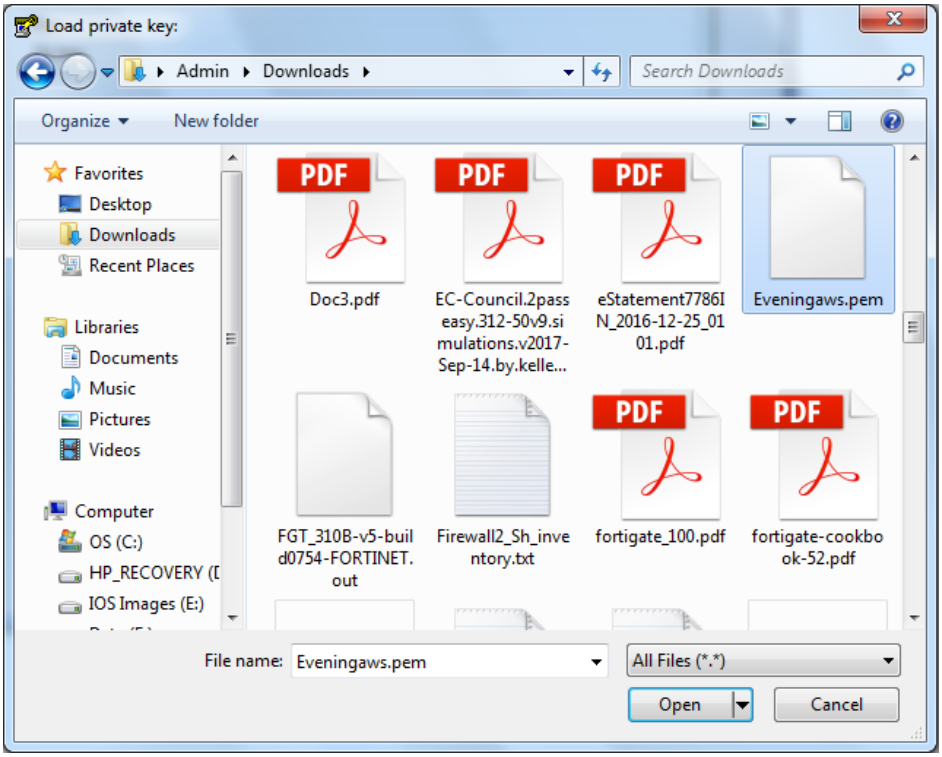


Install putty application in your machine



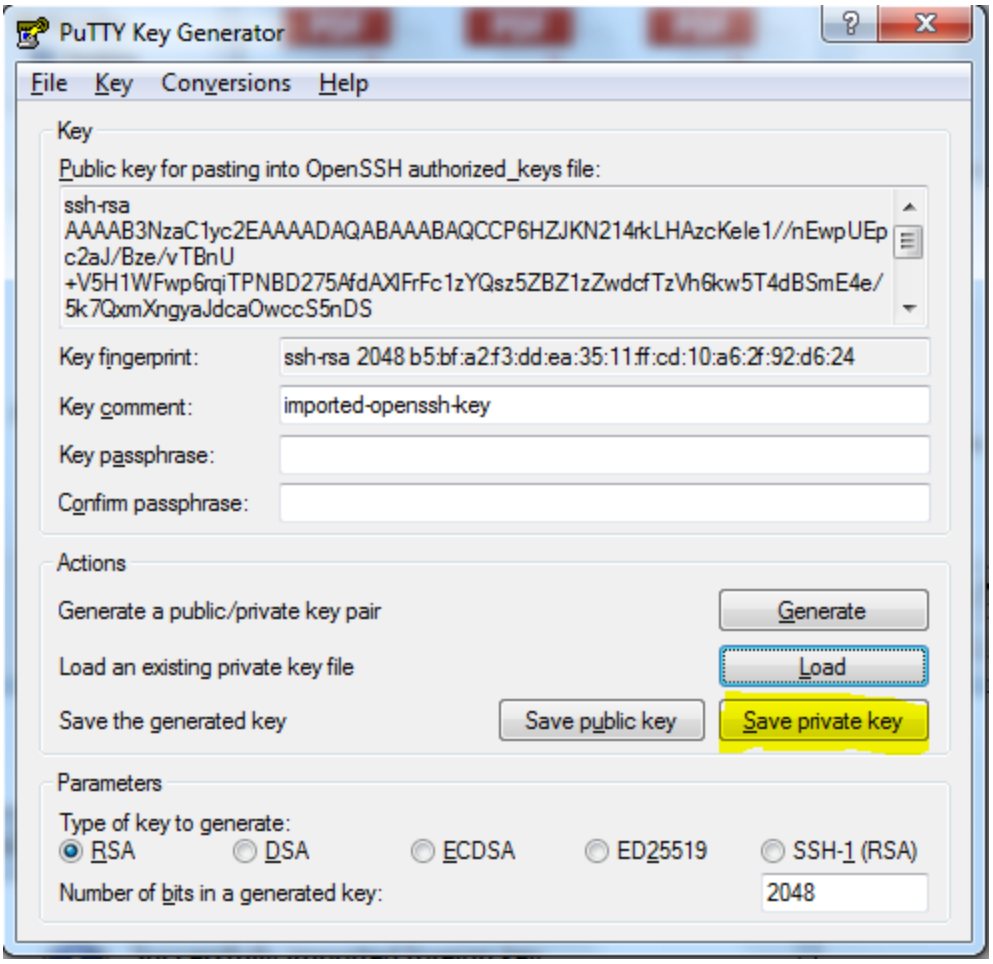
Click File → Load private key

Select the private key file and then click “Open”.

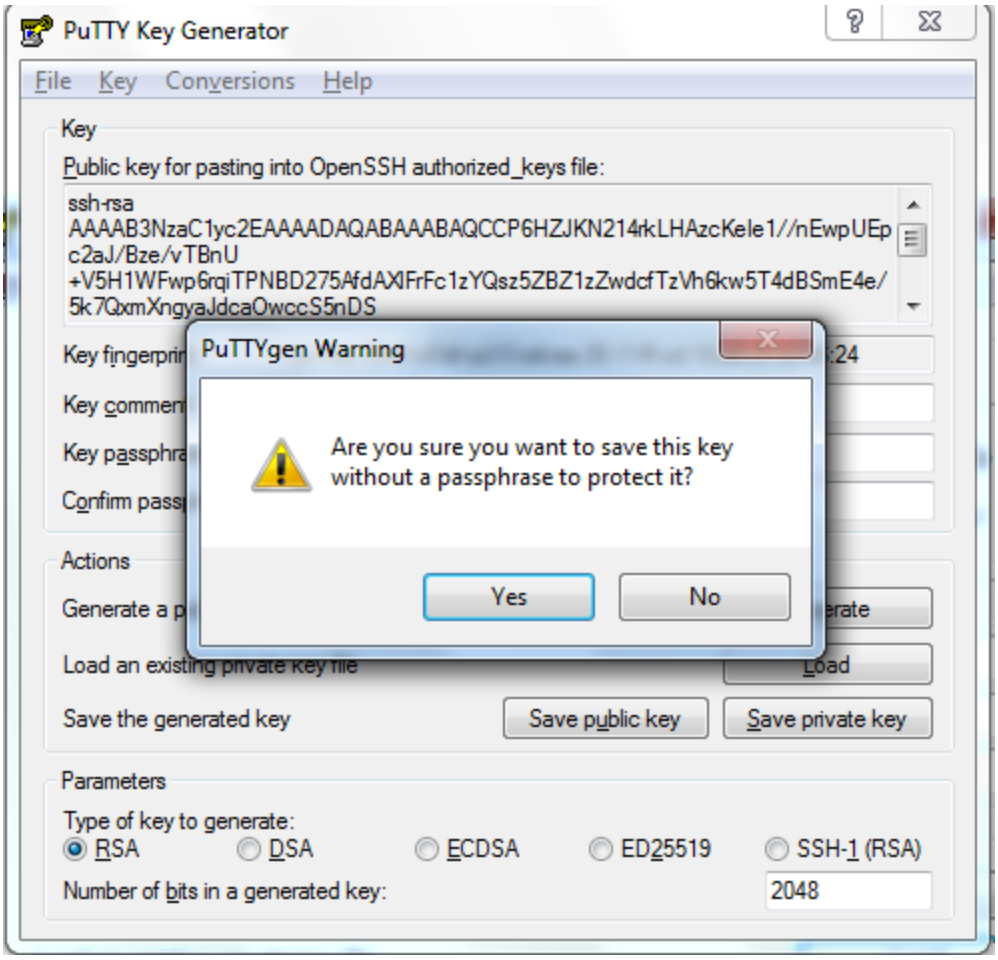


Getting notice that successfully imported the key.

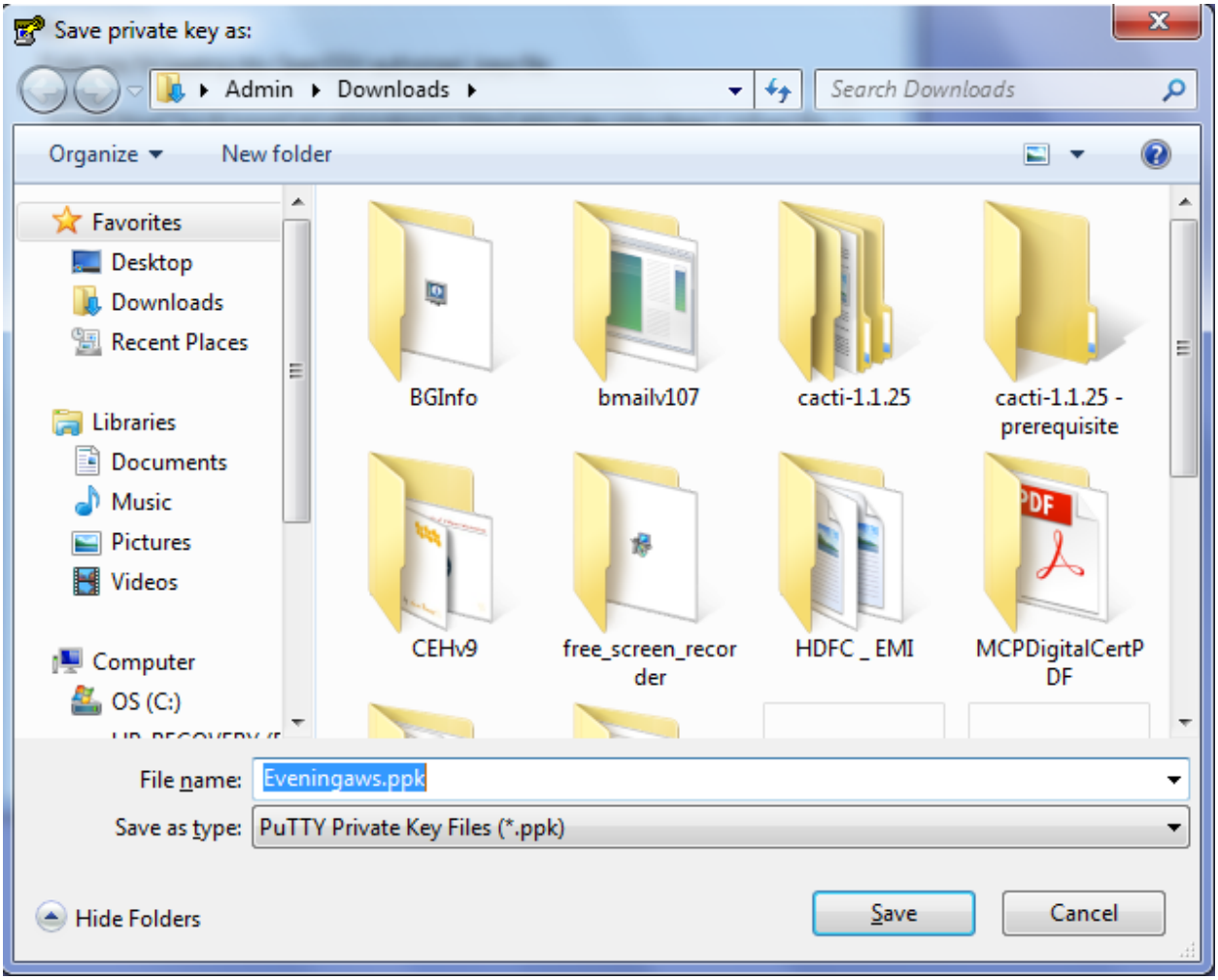
Click “Save Private Key”.



Click”Yes”to continue.

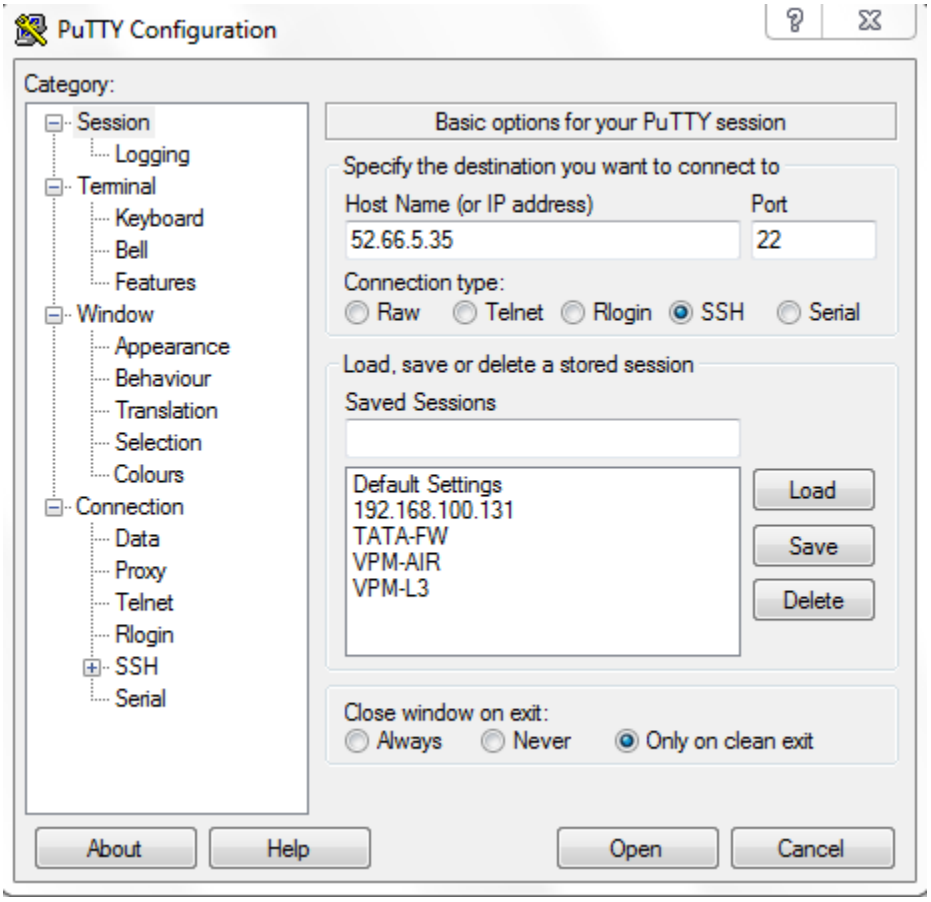


Save the file as “Eveningaws.ppk”

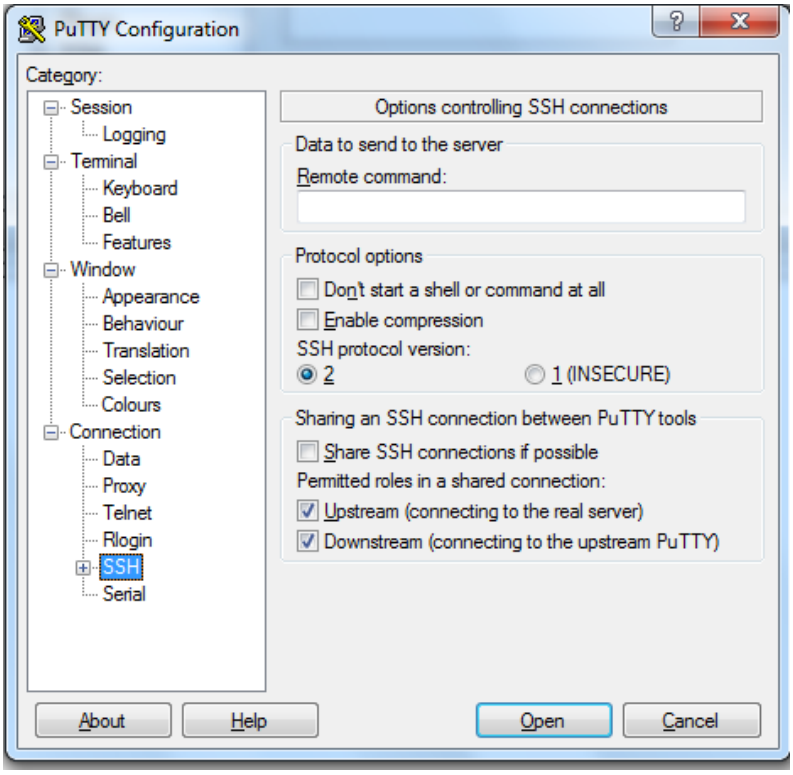

Save private key as:
Admin ▸ Downloads ▸
Search Downloads
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
OS (C:)
BGInfo
bmailv107
cacti-1.1.25
cacti-1.1.25 - prerequisite
CEHv9
free_screen_recorder
HDFC _ EMI
MCPDigitalCertPDF
File name: Eveningaws.ppk
Save as type: PuTTY Private Key Files (*.ppk)
Hide Folders
Save
Cancel

Click “save”.

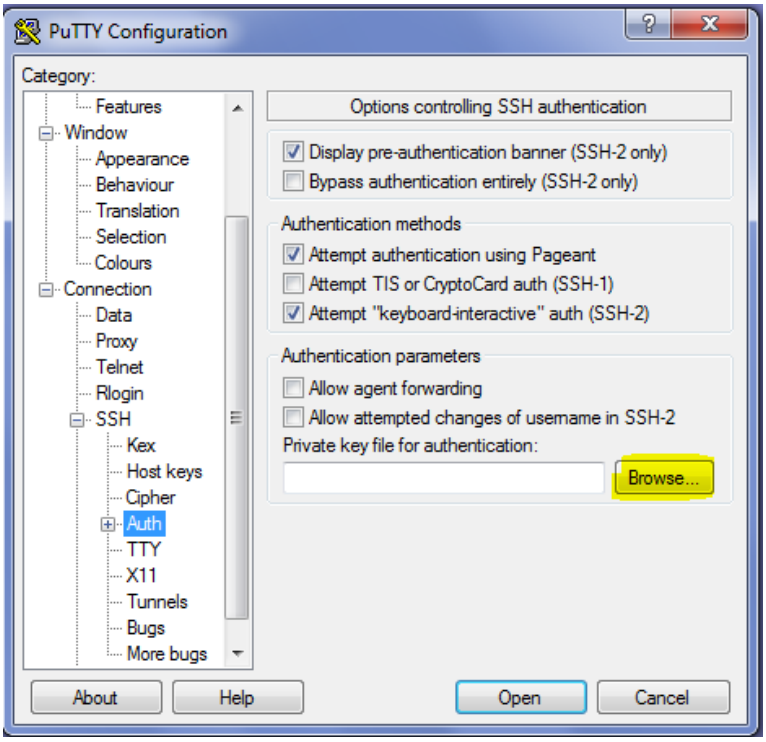
In Putty, type the Public IP address of Linux.



Click “SSH”

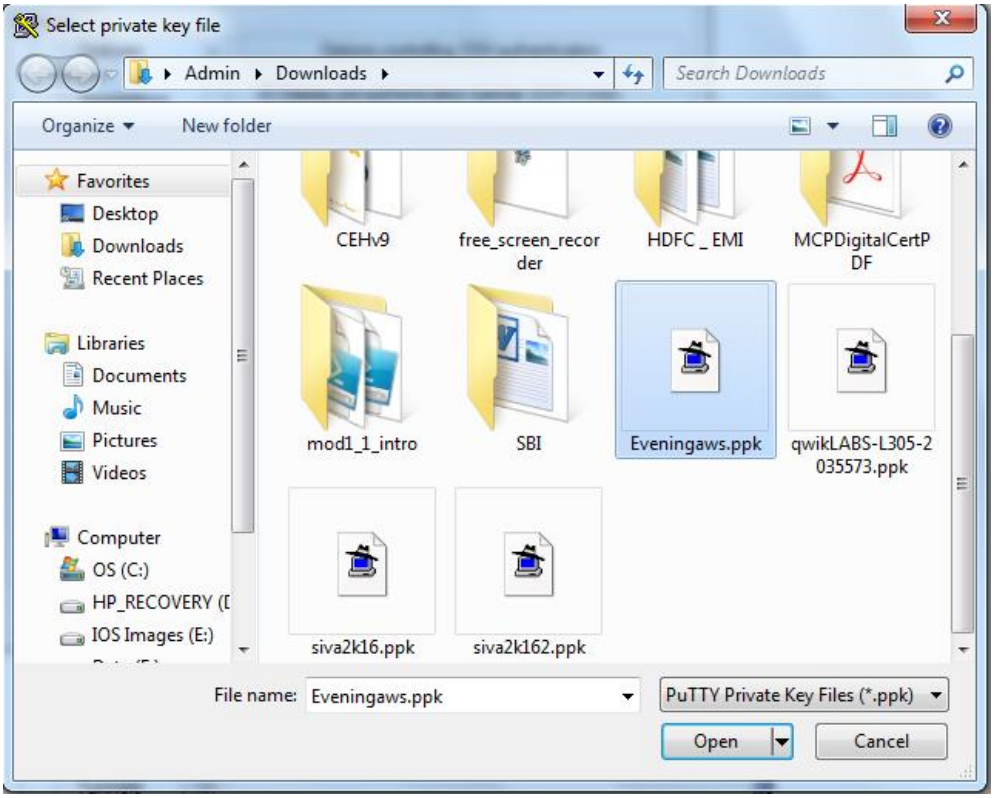

PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Serial
Options controlling SSH connections
Data to send to the server
Remote command:
Protocol options
Don't start a shell or command at all
Enable compression
SSH protocol version:
2
1 (INSECURE)
Sharing an SSH connection between PuTTY tools
Share SSH connections if possible
Permitted roles in a shared connection:
Upstream (connecting to the real server)
Downstream (connecting to the upstream PuTTY)
About
Help
Open
Cancel

Expand “SSH” then click “Auth”.



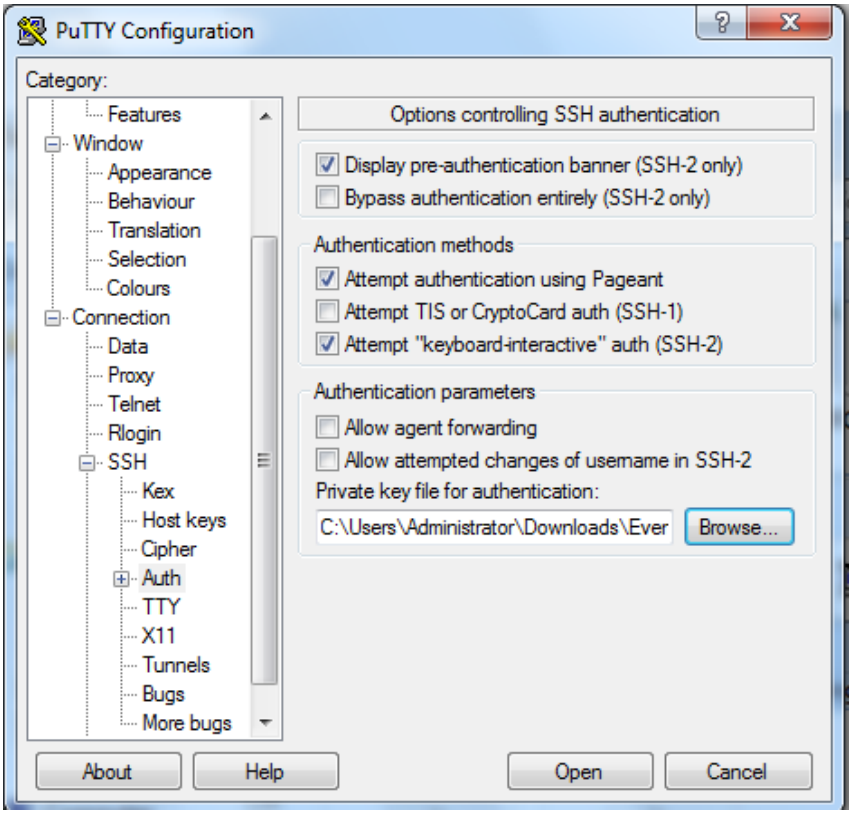
Then Browse and

locate the *.ppk file.

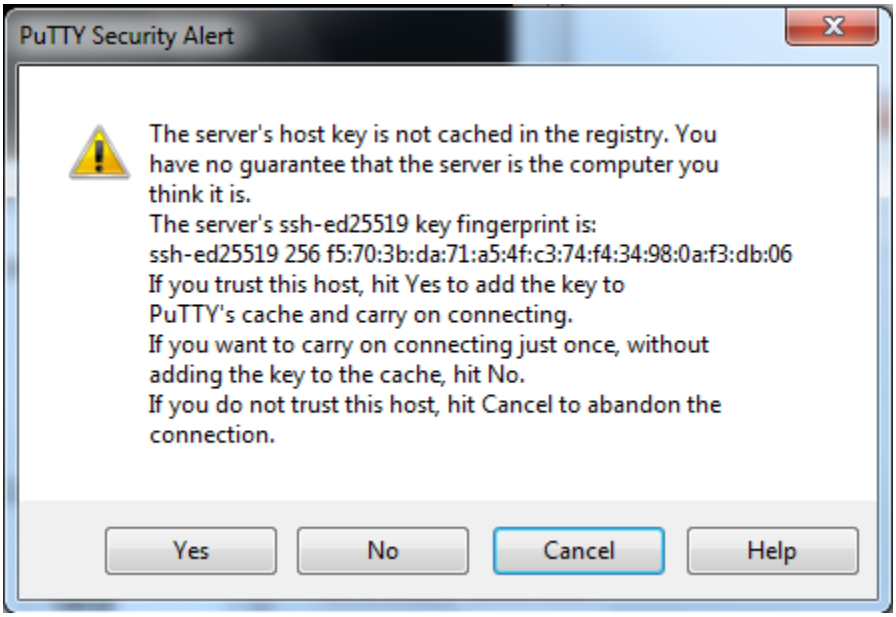

Select private key file
Admin ▸ Downloads ▸
Search Downloads
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
OS (C:)
HP_RECOVERY (
IOS Images (E:)
CEHv9
free_screen_recorder
HDFC _ EMI
MCPDigitalCertPDF
mod1_1_intro
SBI
Eveningaws.ppk
qwikLABS-L305-2035573.ppk
siva2k16.ppk
siva2k162.ppk
File name: Eveningaws.ppk
PuTTY Private Key Files (*.ppk)
Open
Cancel

.

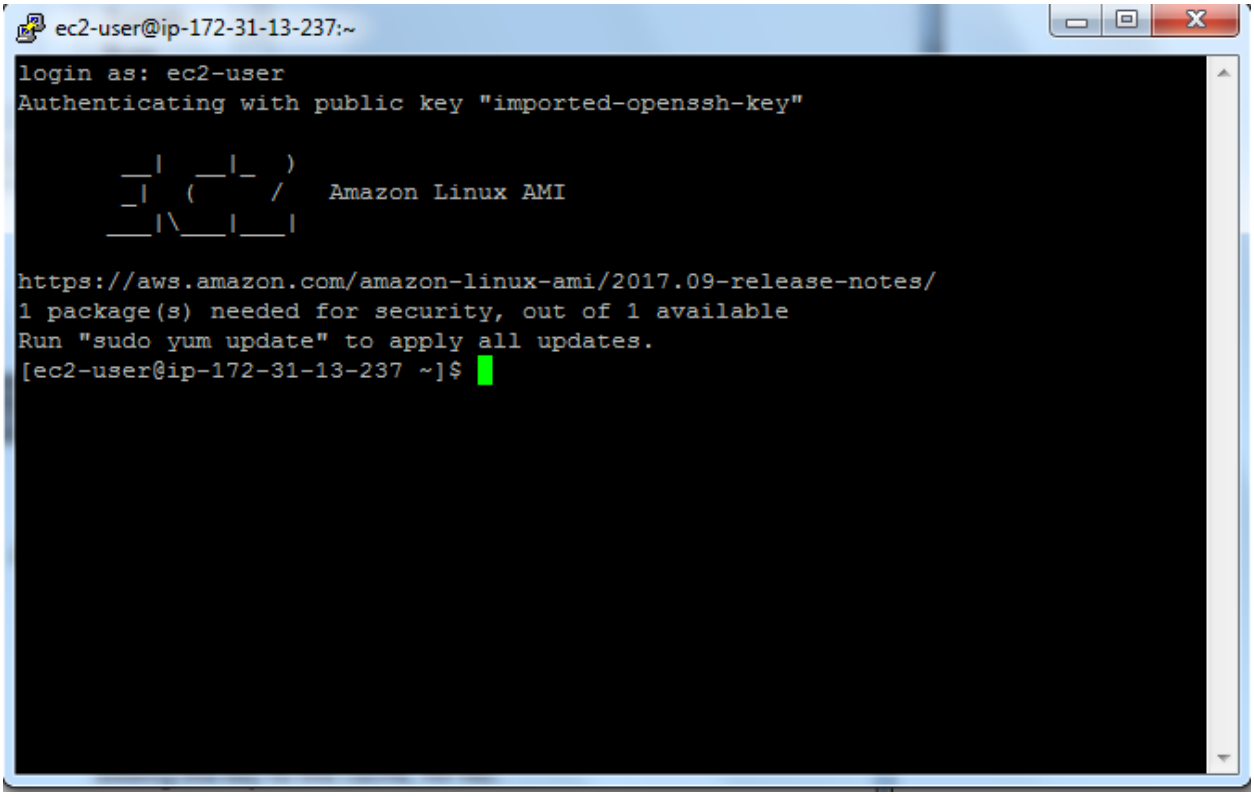
Click “Open”.



Click “Yes”.



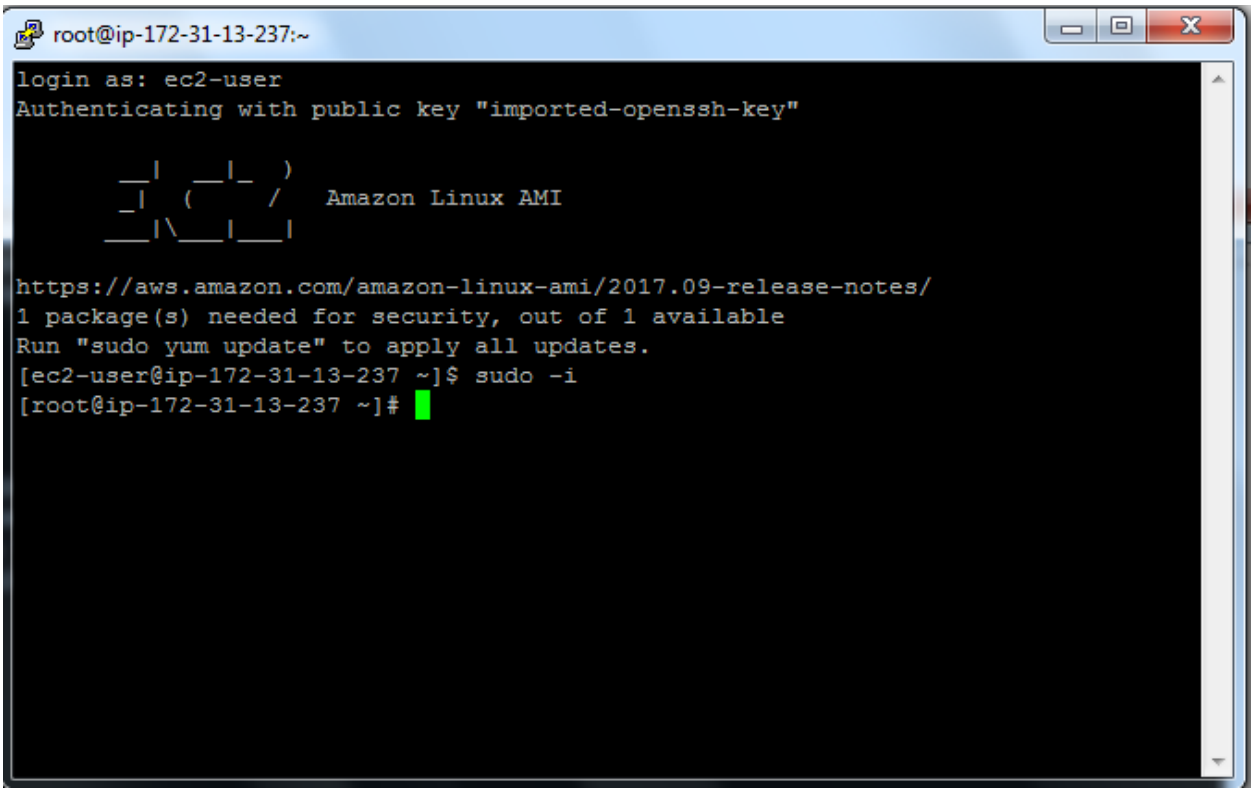
Type user as **ec2-user**



Type,

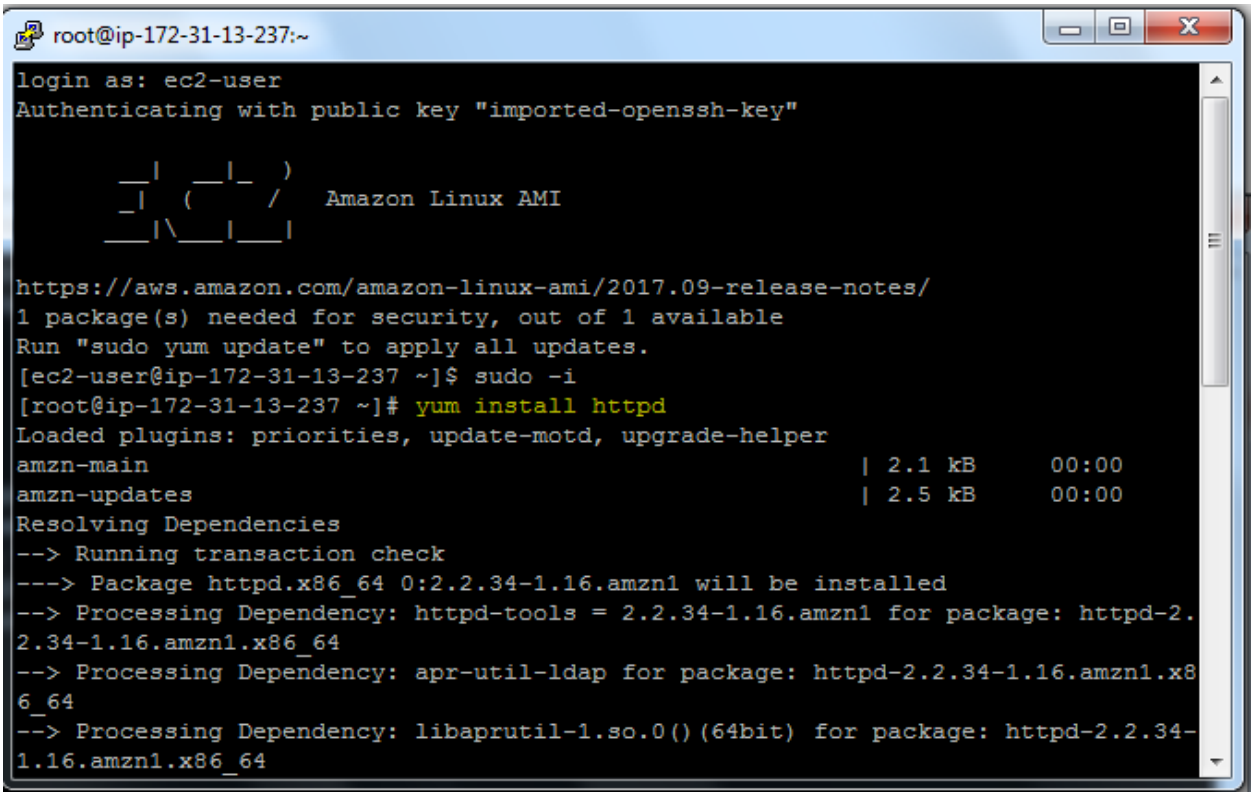
Sudo –i

Now it has been switched root privilege account.

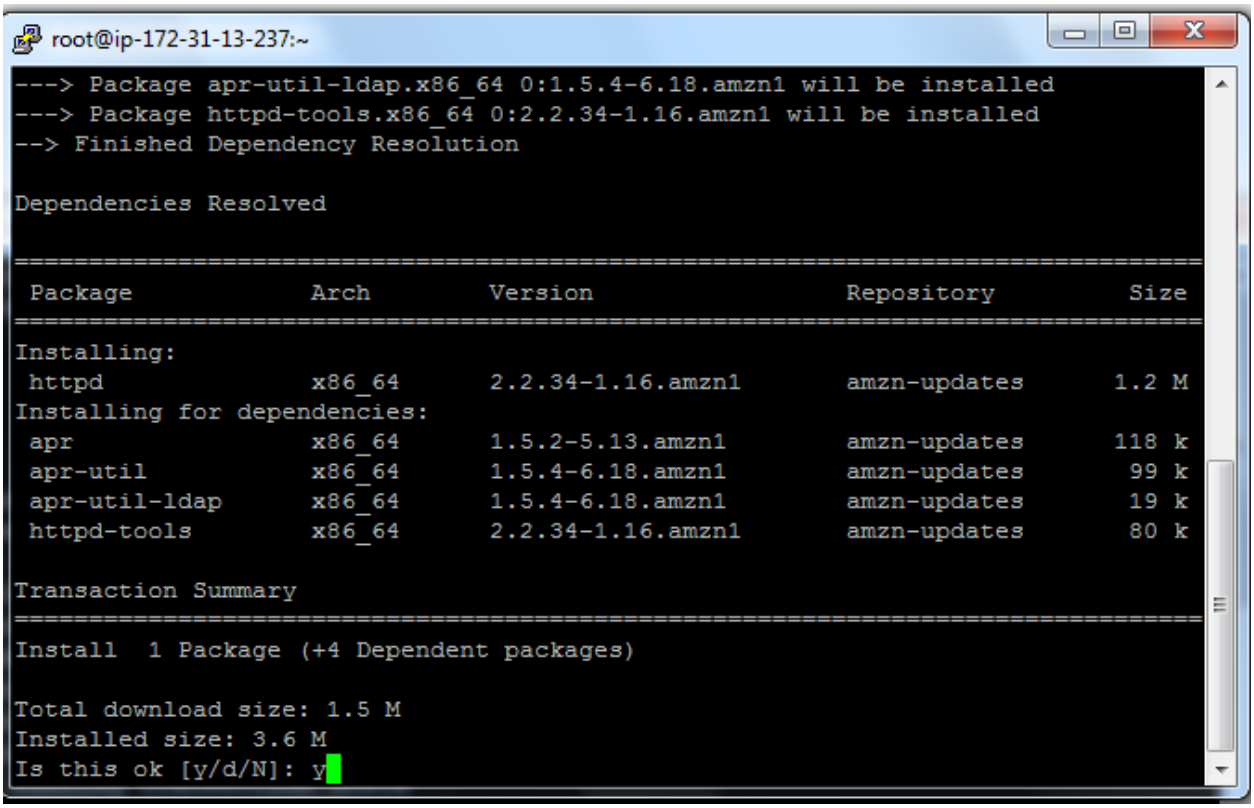


Type

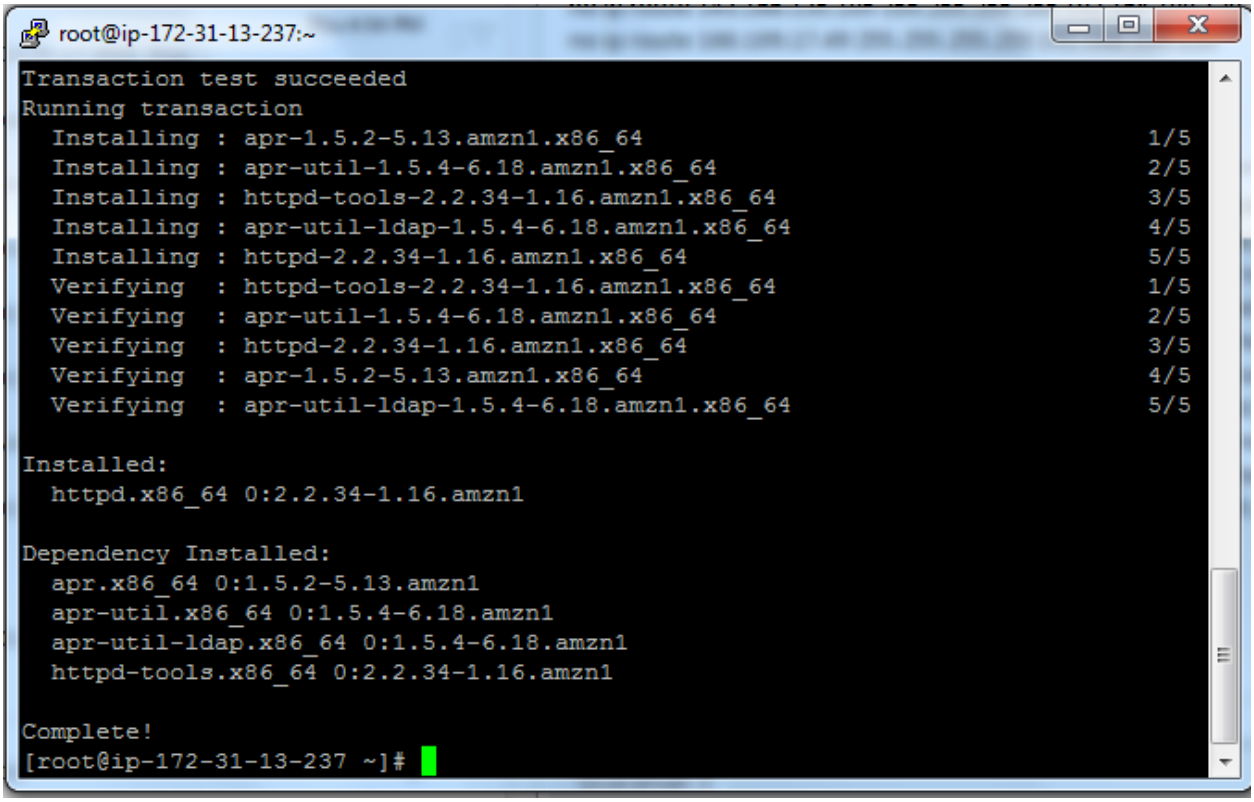
Yum install httpd



Type **"Y"**to install the packages.



Now web server has been installed successfully.

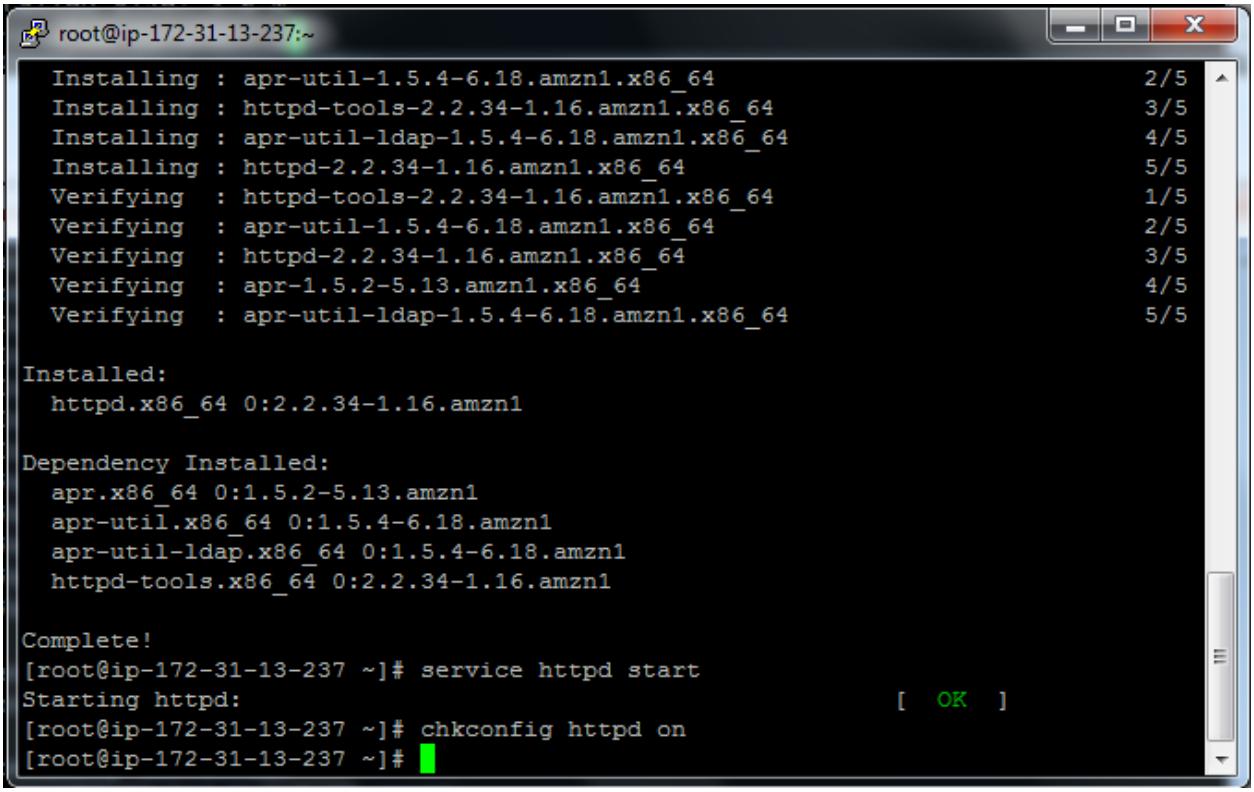


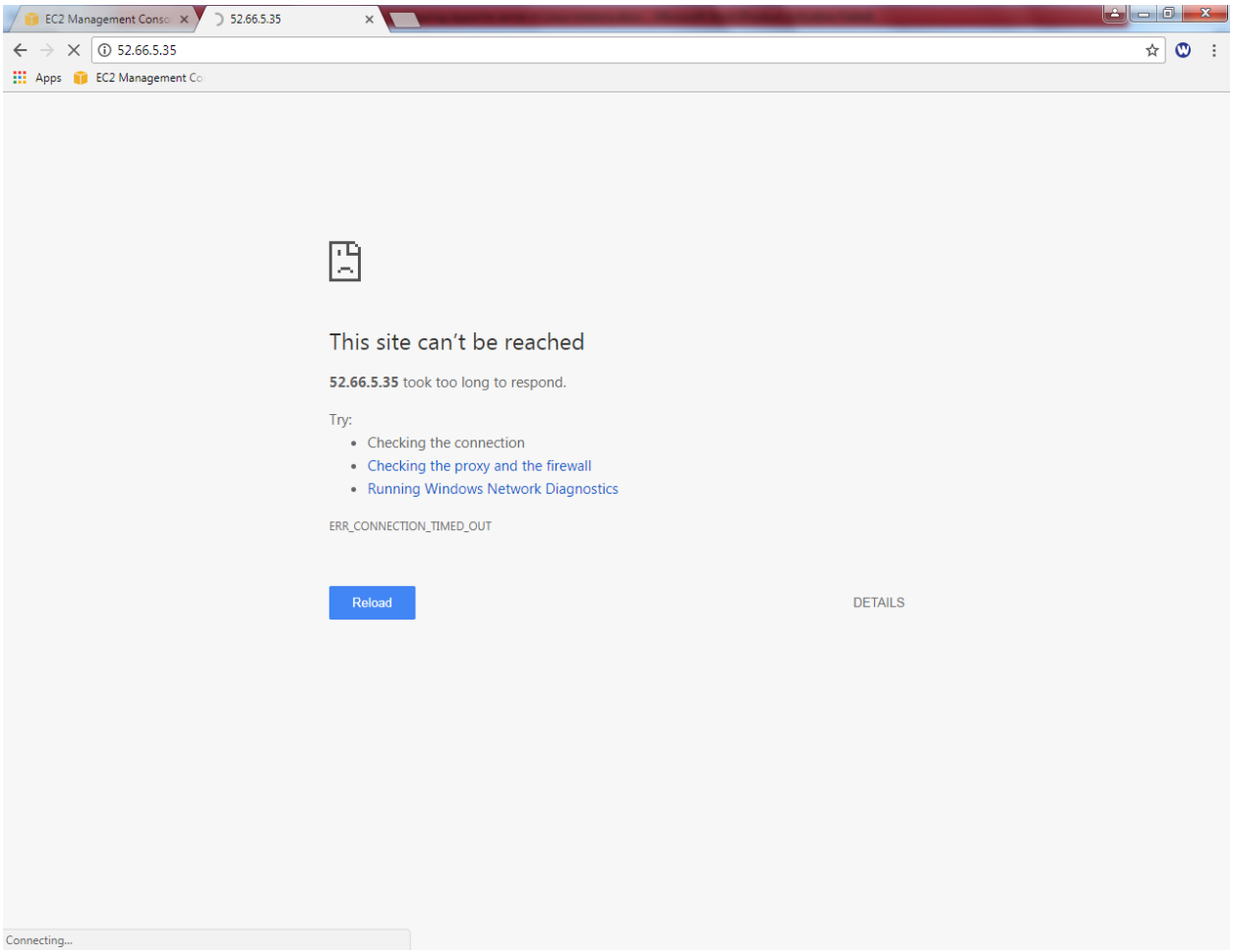
Now we need to start the service htttpd

Type command,

Service httpd start

Chkconfig httpd on



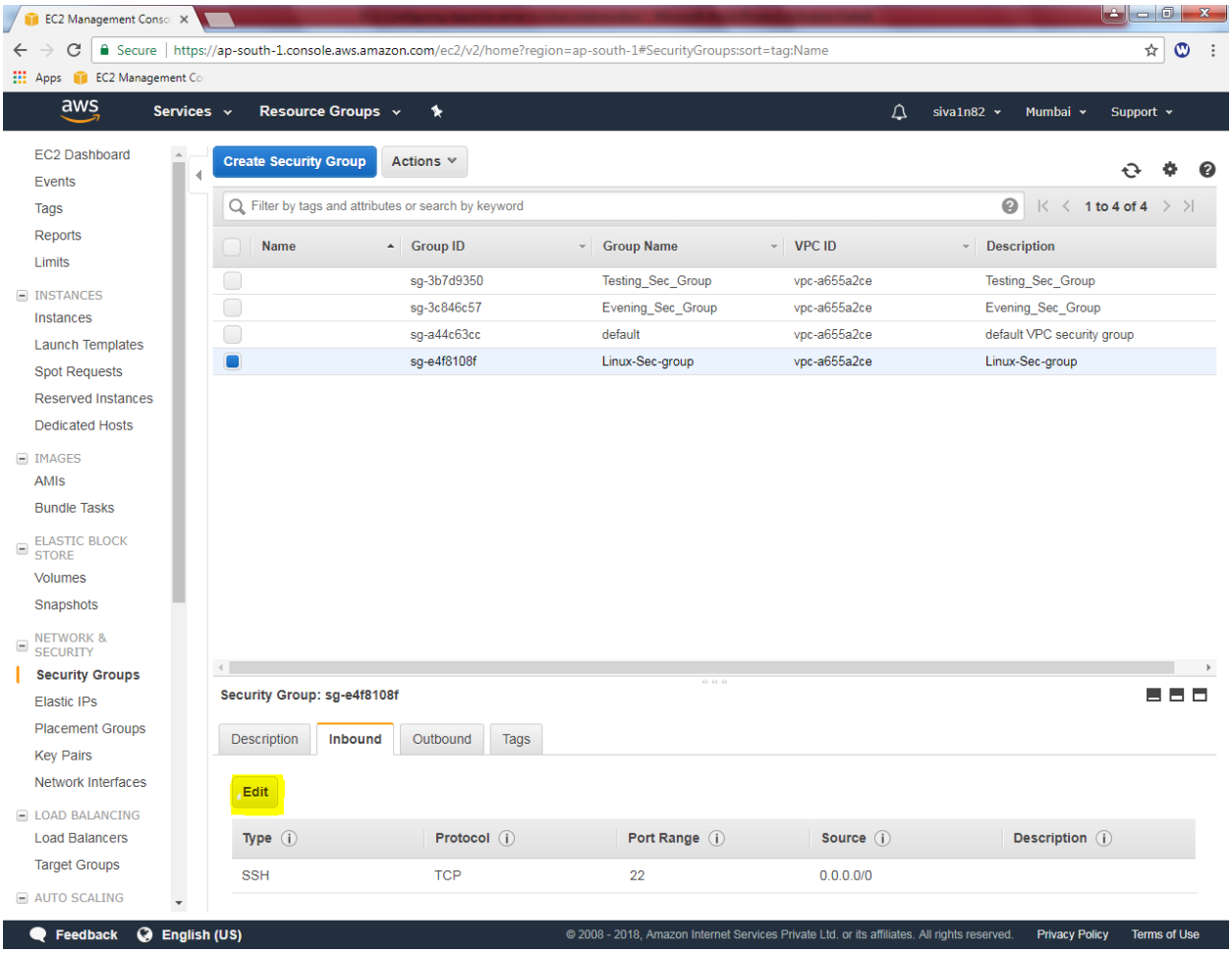


You would not be able to connect, what could be the reason?

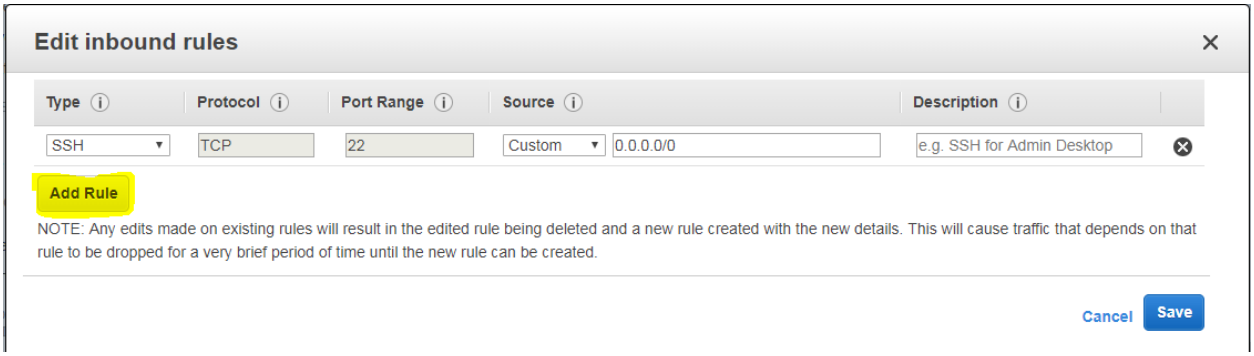
In security group, we have permitted only SSH Port (22). Hence we are unable to connect port 80 from outside of the network. Now we need to allow port 80 (HTTP) in security group "Linux-Sec-Group".

Go to security Group in EC2, select Linux-sec-group and then click “Inbound”tab.

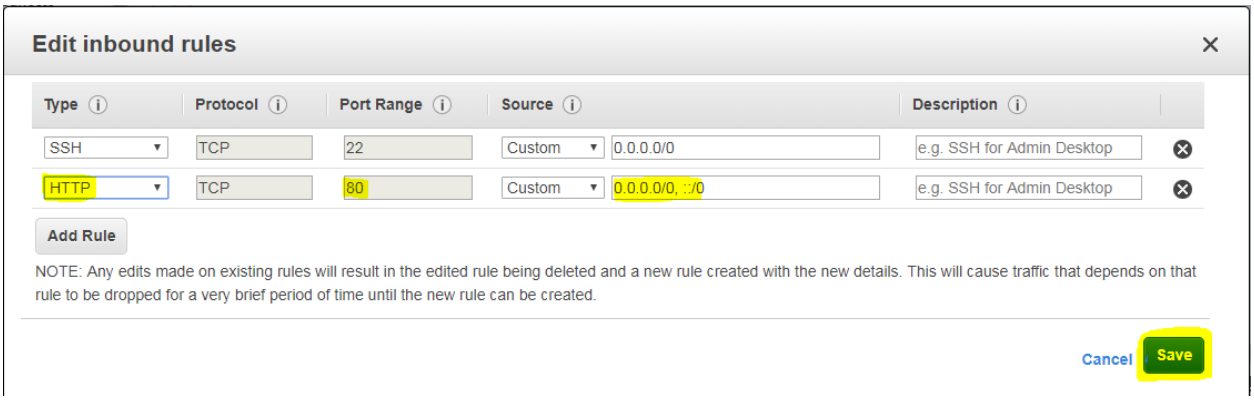
Click “Edit”.



Click “Add rule” button



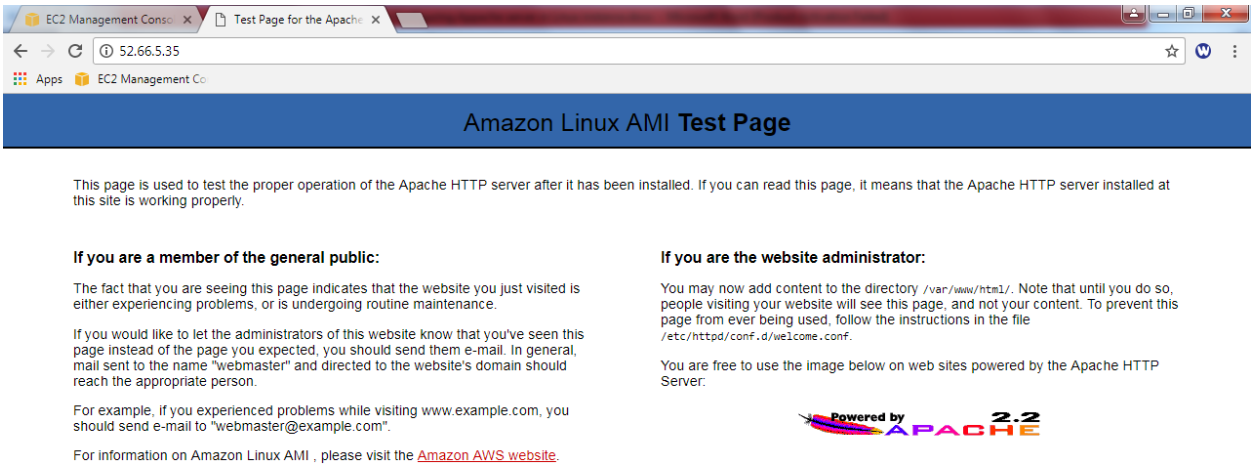
Select “HTTP” and custom source as 0.0.0.0/0, (for IPV4) and ::/0 (for IPV6).



Click “Save”.

Now try to connect the Apache web server in your local machine.

http://52.66.5.35



We have successfully got the web server page.