PROJECT REPORT

On

"AWS"

Submitted by

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ACKNOWLEDGEMENT

The success and final outcome of this project required a lot of guidance and assistance from many people and I am extremely privileged to have got this all along the completion of my project. All that I have done is only due to such supervision and assistance and I would not forget to thank them.

I respect and thank **Mr. Ambrish Gangal**, for providing me an opportunity to do the project work in **AWS** and giving me support and guidance, which made me complete the project duly. I am extremely thankful to him for providing such a nice support and guidance, although he had busy schedule managing the corporate affairs.

Thanks

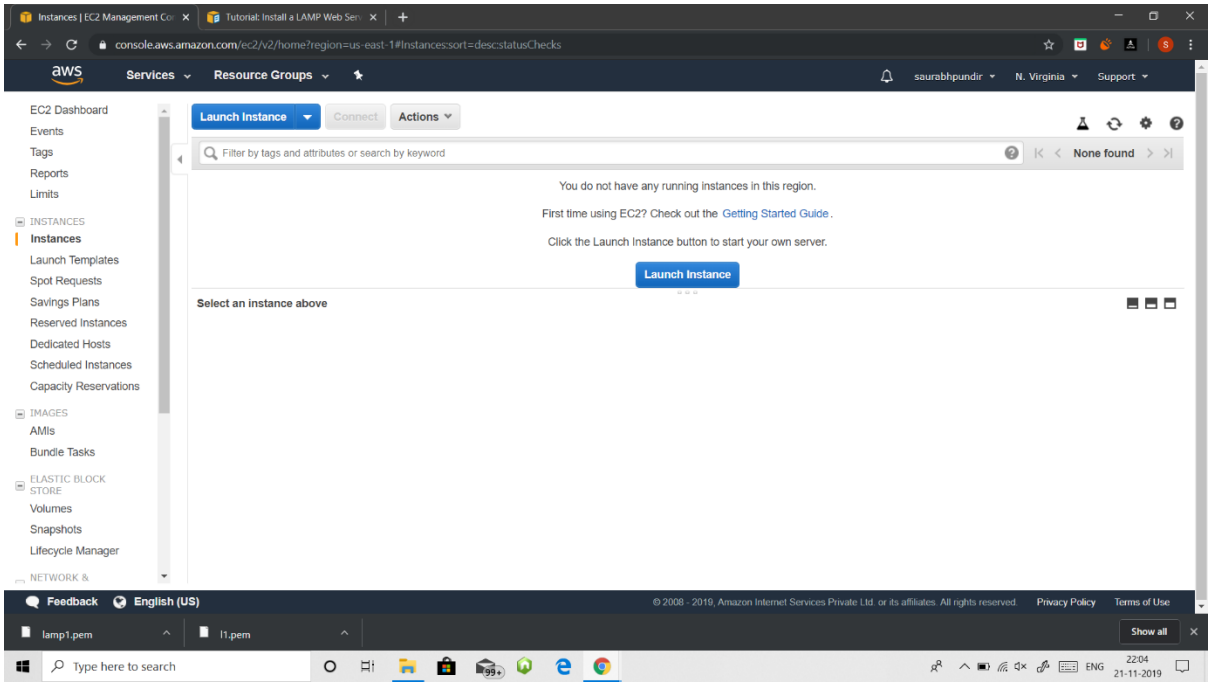
Saurabh Pundir

(181510028)

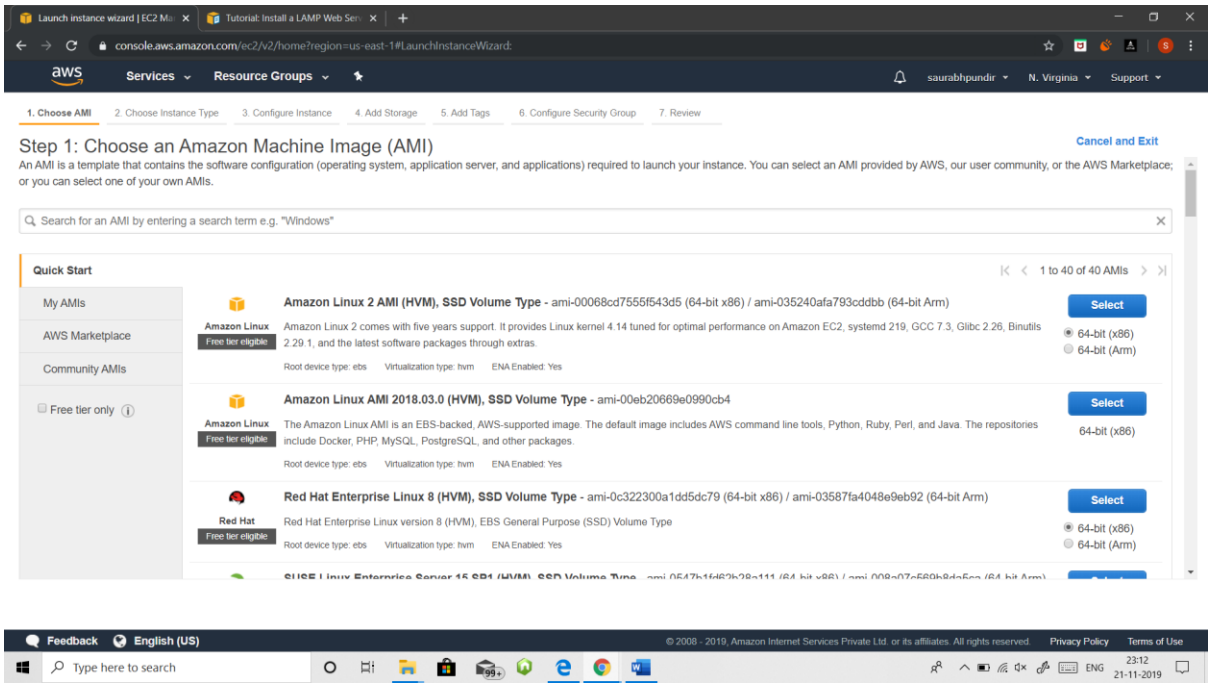
CONTENT

Launching of EC2 instance

1. Open ec2 instance

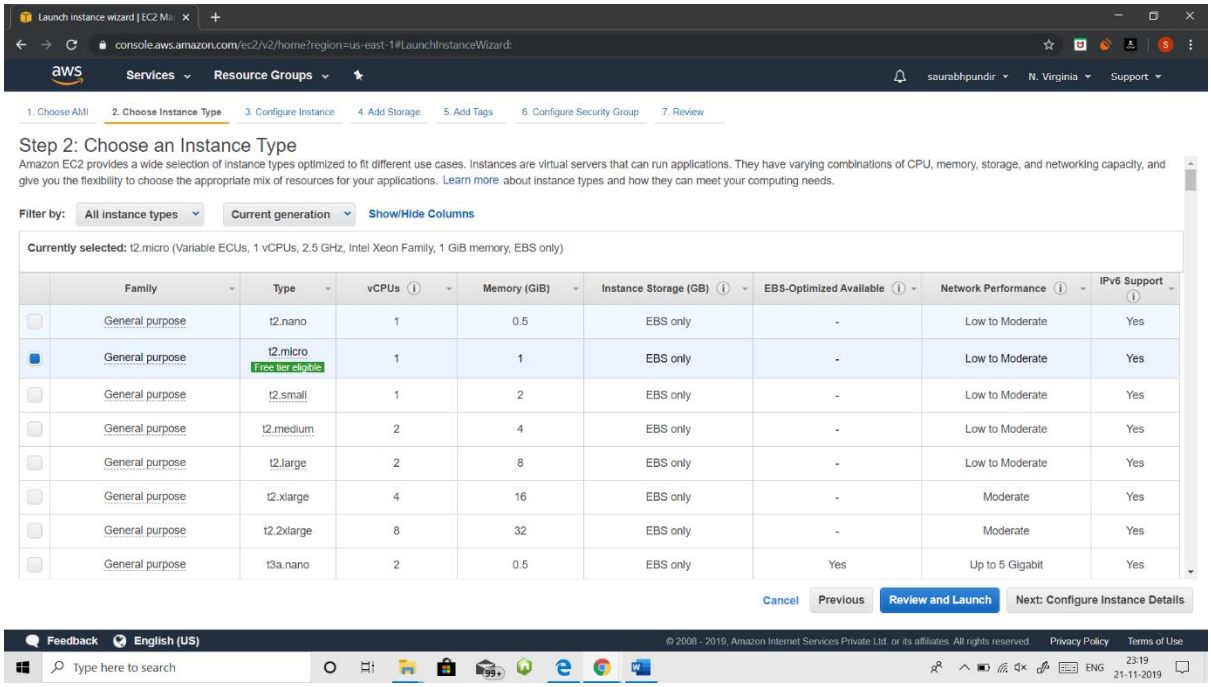


2. Select AMI

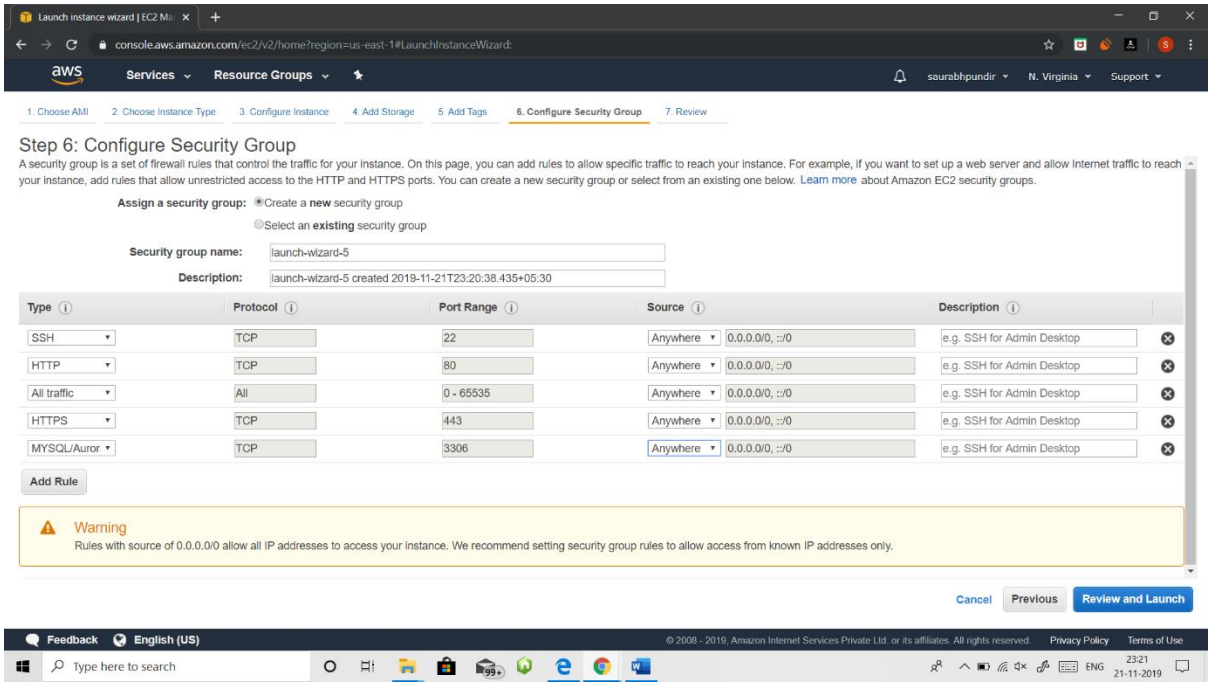


3. Choose instance type

Here we are choosing free tier eligible type.

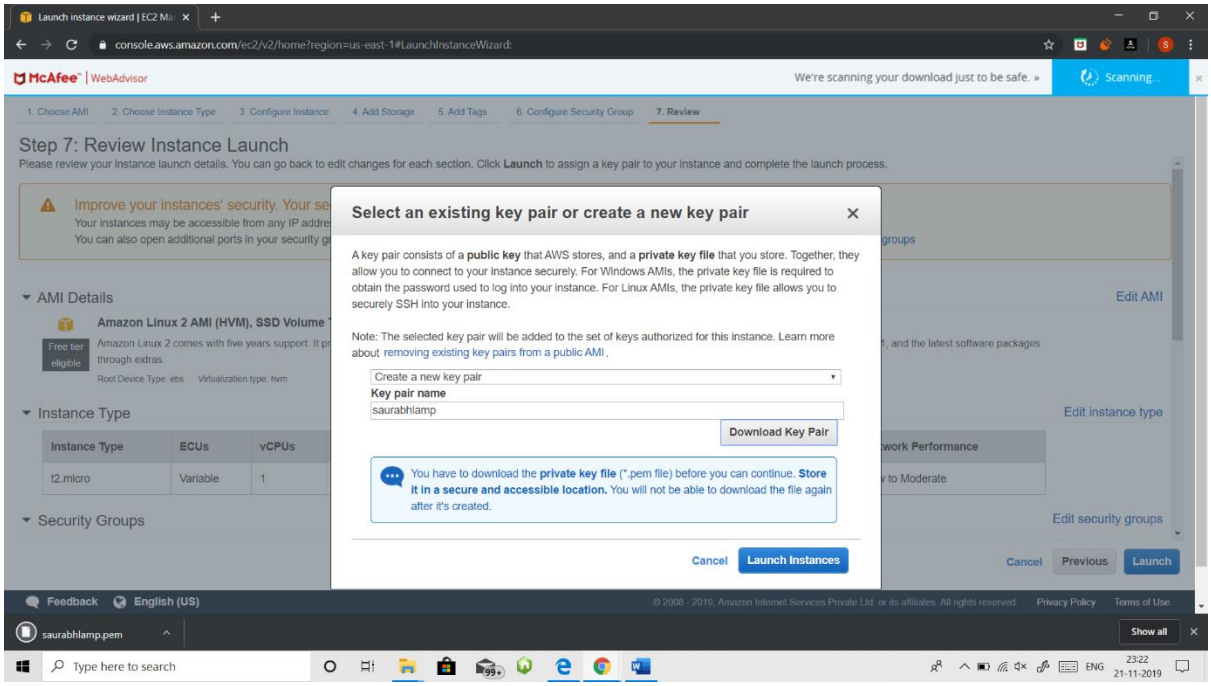


4. configure security groups

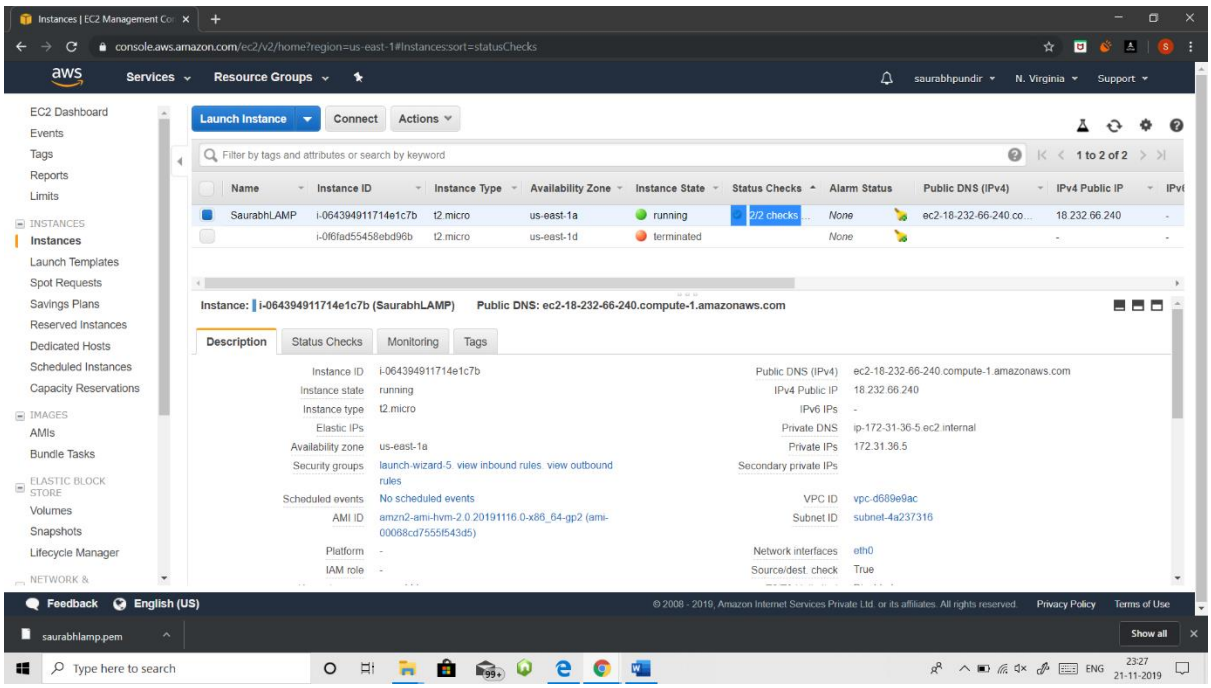


5. Review and Launch

Download key pair.

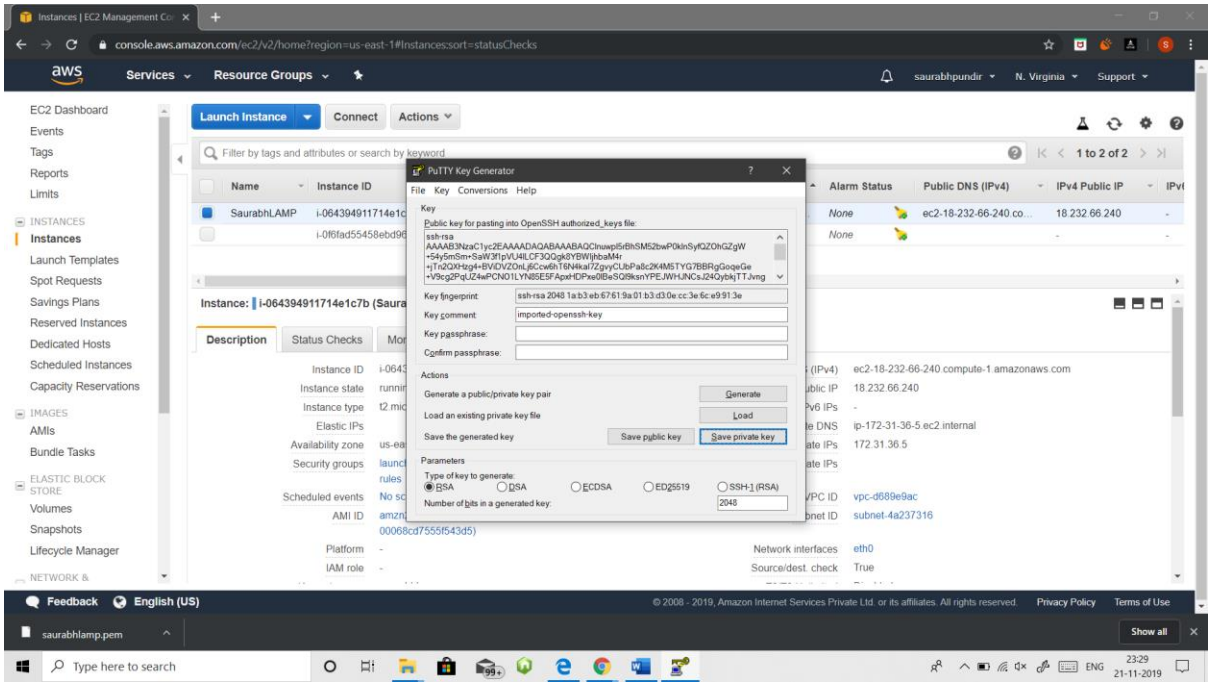


6. wait until instance status checks become 2/2 and instance state is running



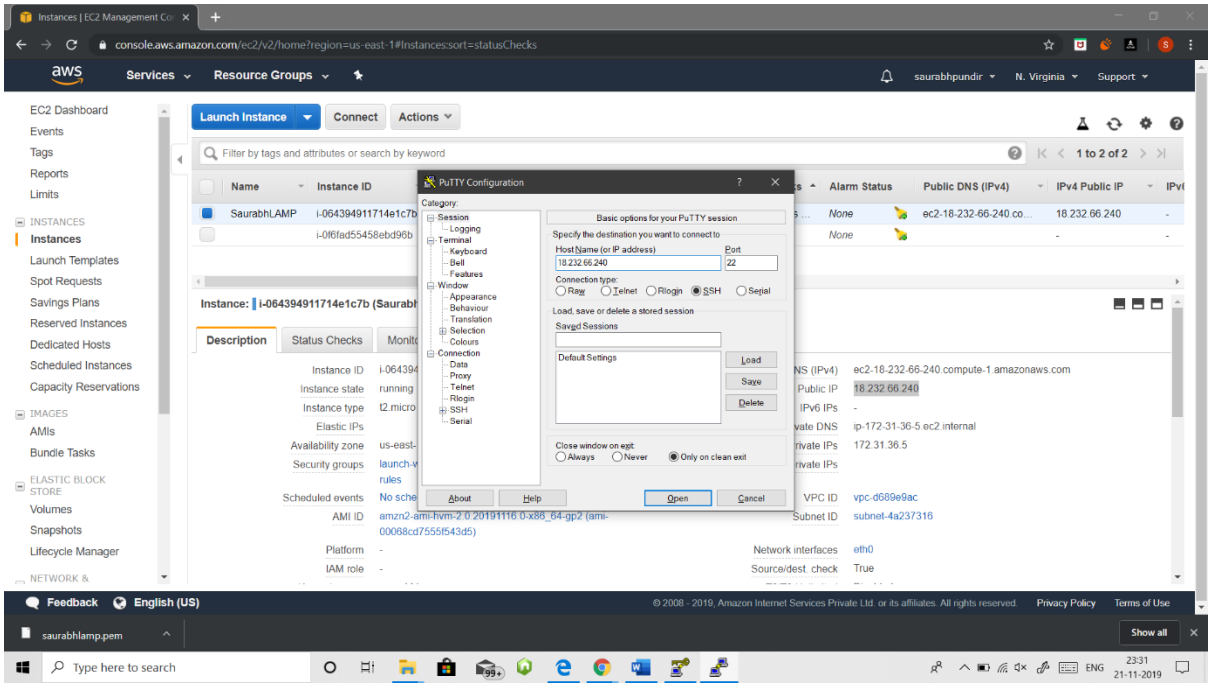
7. Open Putty KeyGen

Here we load the downloaded .pem file and save as private key which downloads in format of .ppk (named as saurabhLAMP.ppk)

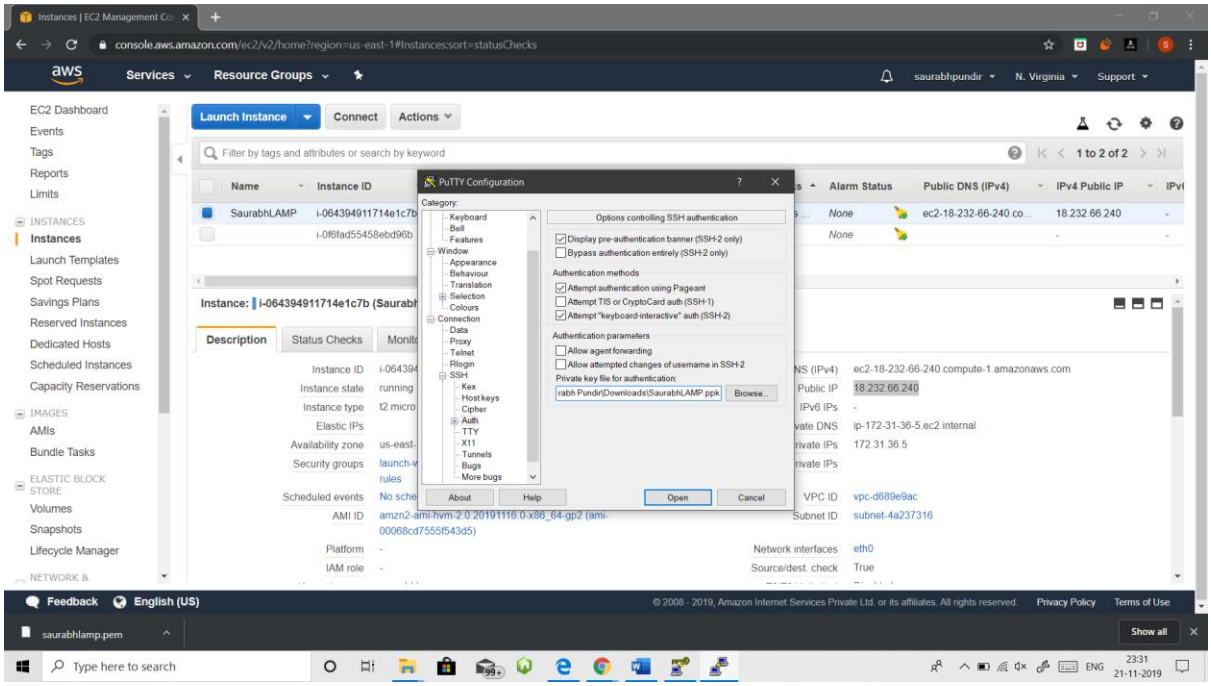


8. Open Putty

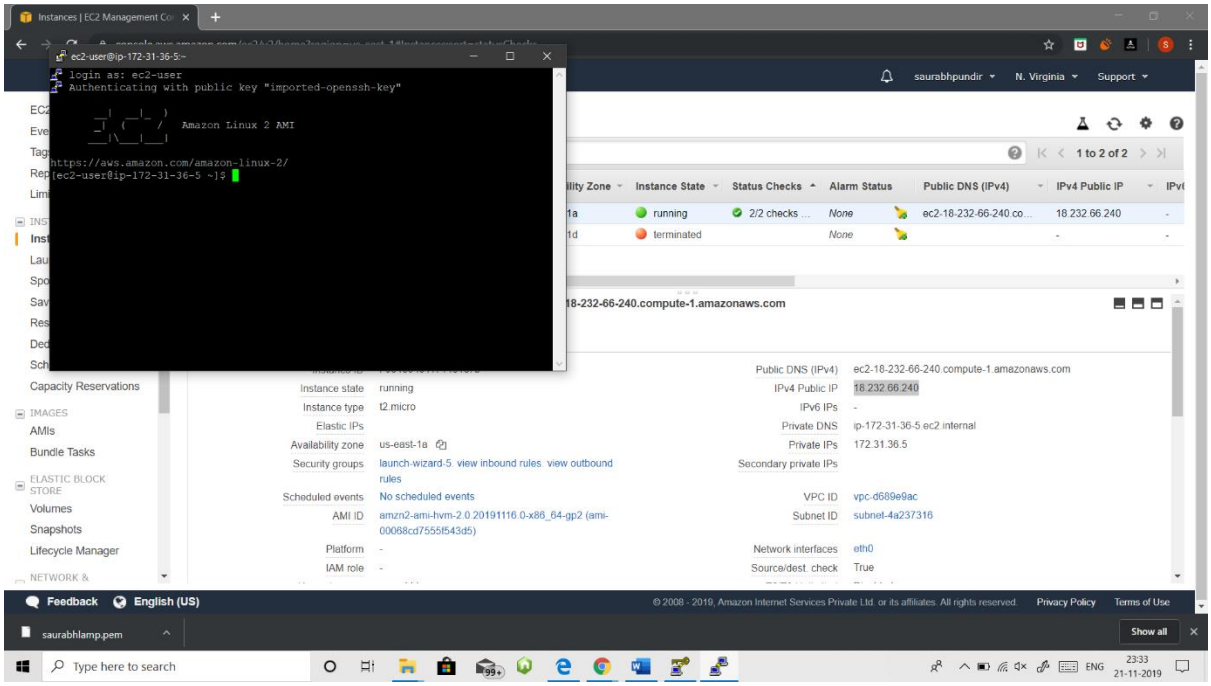
Here use your ipv4 as your host name



now in ssh=> auth browse your downloaded .ppk file and open it



9. Login as: ec2-user

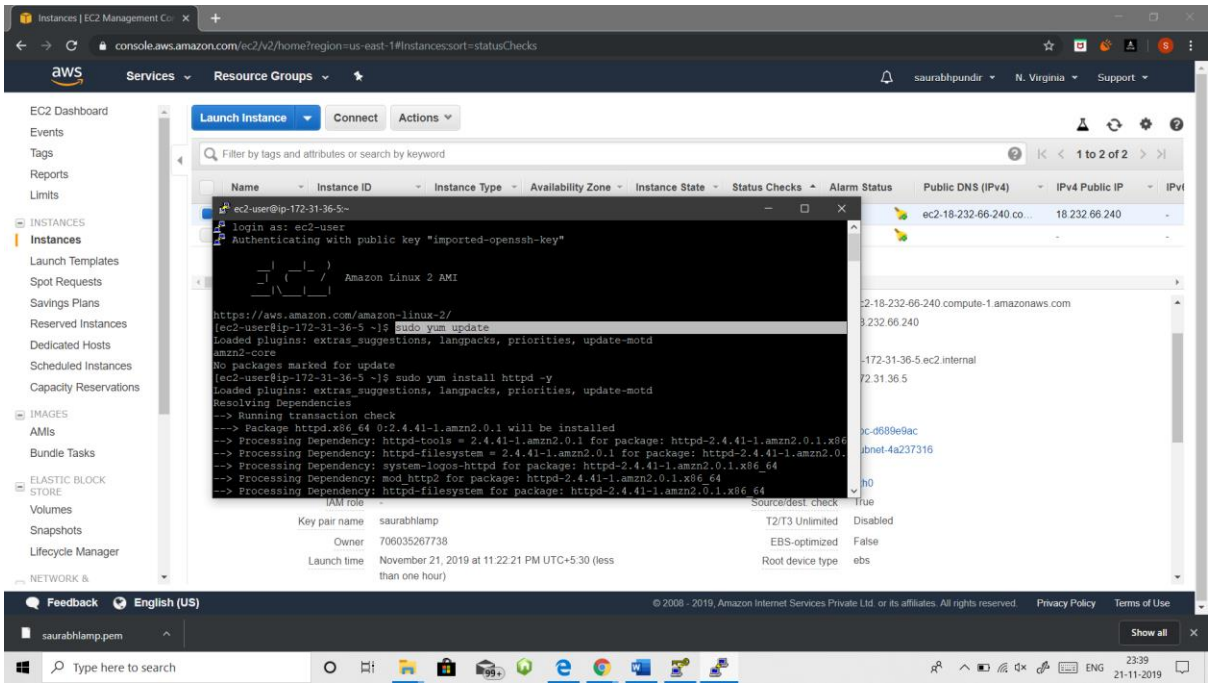


Instance launched

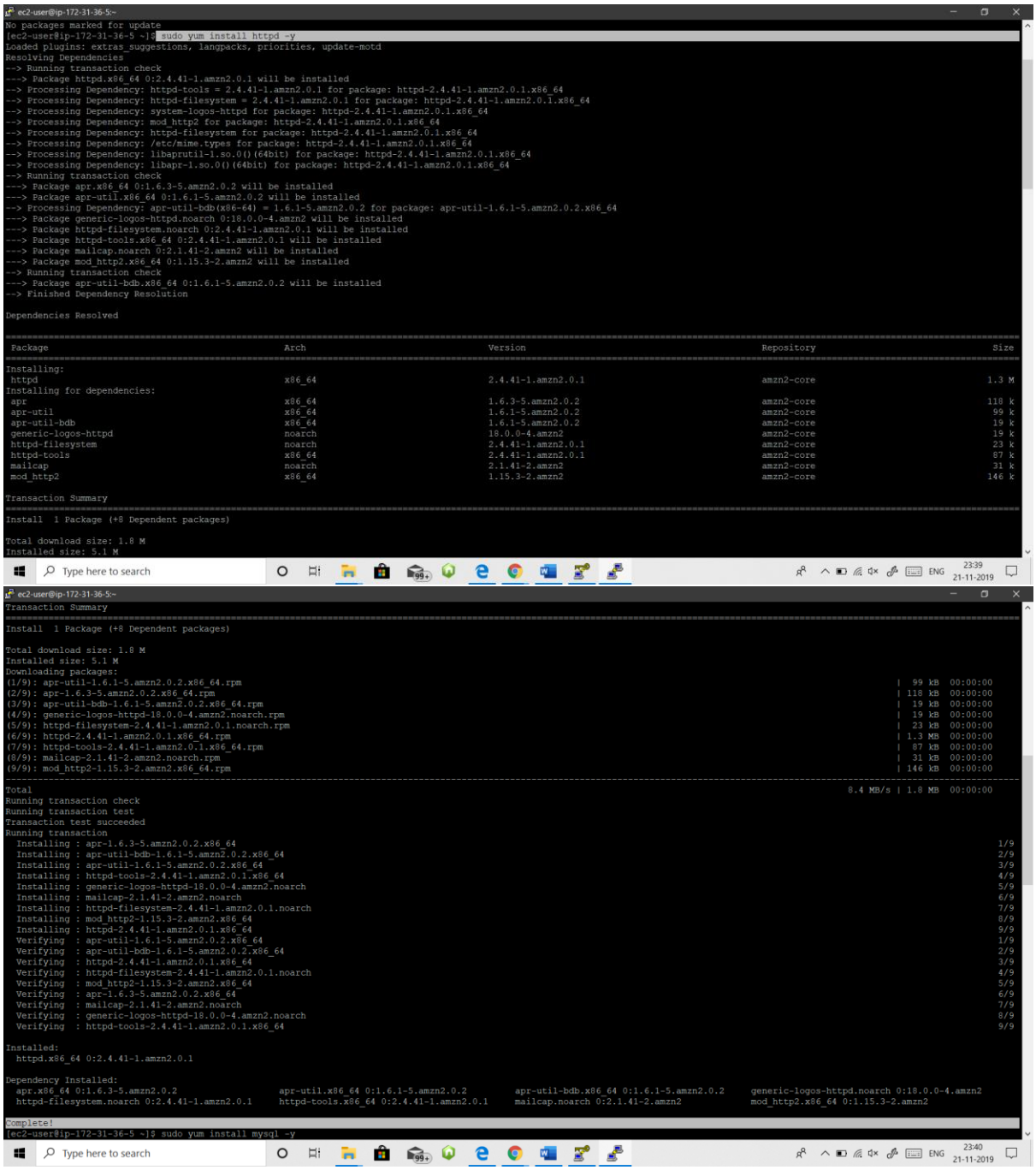
Setting up LAMP server

1. Now run the following command

a) sudo yum update



b) sudo yum install httpd -y

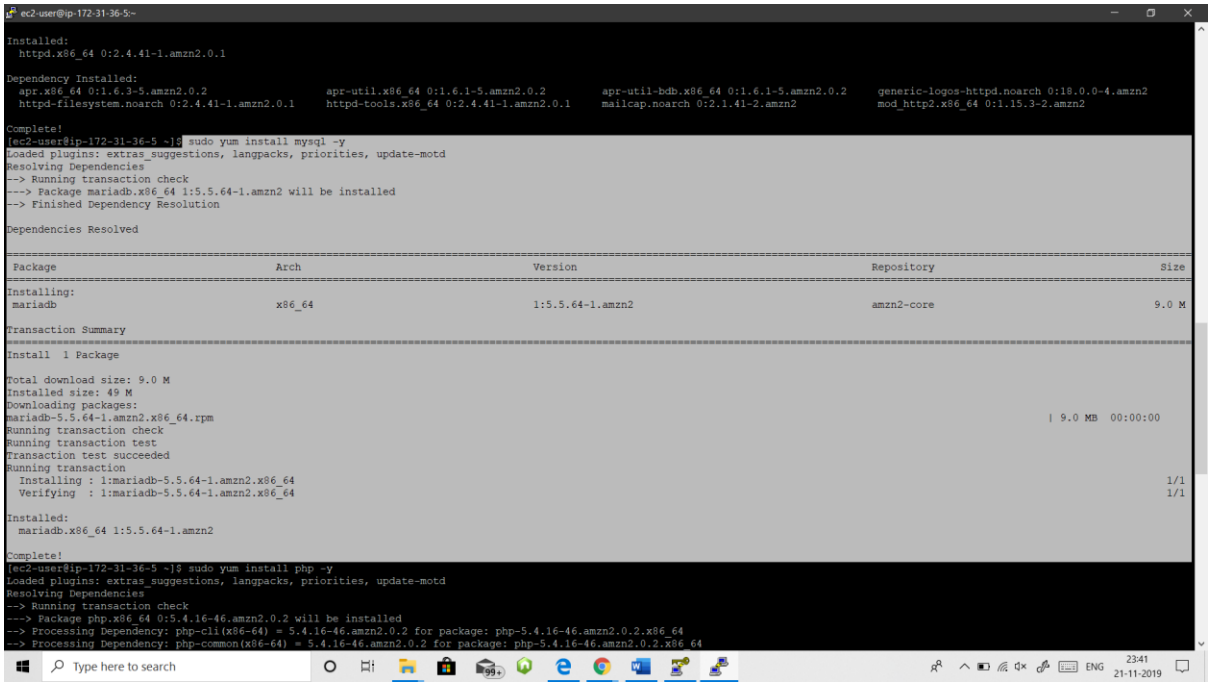


```
ec2-user@ip-172-31-36-5:~
No packages marked for update
[ec2-user@ip-172-31-36-5 ~]$ sudo yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.41-1.amzn2.0.1 will be installed
--> Processing Dependency: httpd-tools = 2.4.41-1.amzn2.0.1 for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.41-1.amzn2.0.1 for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.41-1.amzn2.0.1.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.6.3-5.amzn2.0.2 will be installed
---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd-filesystem.noarch 0:2.4.41-1.amzn2.0.1 will be installed
---> Package httpd-tools.x86_64 0:2.4.41-1.amzn2.0.1 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.3-2.amzn2 will be installed
--> Running transaction check
---> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package                 Arch          Version                  Repository   Size
================================================================================
Installing:
 httpd                   x86_64        2.4.41-1.amzn2.0.1       amzn2-core  1.3 M
Installing for dependencies:
 apr                     x86_64        1.6.3-5.amzn2.0.2        amzn2-core  118 k
 apr-util                x86_64        1.6.1-5.amzn2.0.2        amzn2-core   99 k
 apr-util-bdb            x86_64        1.6.1-5.amzn2.0.2        amzn2-core   19 k
 generic-logos-httpd     noarch        18.0.0-4.amzn2           amzn2-core   19 k
 httpd-filesystem        noarch        2.4.41-1.amzn2.0.1       amzn2-core   23 k
 httpd-tools             x86_64        2.4.41-1.amzn2.0.1       amzn2-core   87 k
 mailcap                 noarch        2.1.41-2.amzn2           amzn2-core   31 k
 mod_http2               x86_64        1.15.3-2.amzn2           amzn2-core  146 k

Transaction Summary
================================================================================
Install  1 Package (+8 Dependent packages)

Total download size: 1.8 M
Installed size: 5.1 M
```

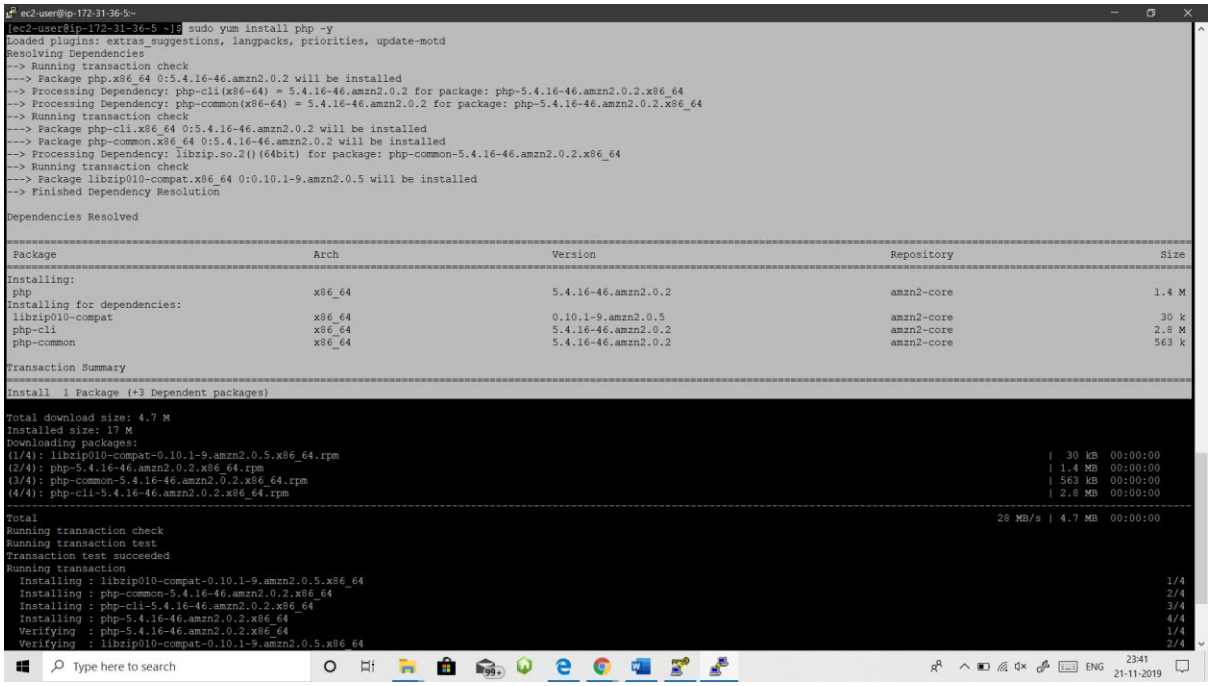


```
ec2-user@ip-172-31-36-5:~
Transaction Summary
================================================================================
Install  1 Package (+8 Dependent packages)

Total download size: 1.8 M
Installed size: 5.1 M
Downloading packages:
(1/9): apr-util-1.6.1-5.amzn2.0.2.x86_64.rpm                |  99 kB  00:00:00
(2/9): apr-1.6.3-5.amzn2.0.2.x86_64.rpm                     | 118 kB  00:00:00
(3/9): apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64.rpm            |  19 kB  00:00:00
(4/9): generic-logos-httpd-18.0.0-4.amzn2.noarch.rpm        |  19 kB  00:00:00
(5/9): httpd-filesystem-2.4.41-1.amzn2.0.1.noarch.rpm       |  23 kB  00:00:00
(6/9): httpd-2.4.41-1.amzn2.0.1.x86_64.rpm                  | 1.3 MB  00:00:00
(7/9): httpd-tools-2.4.41-1.amzn2.0.1.x86_64.rpm            |  87 kB  00:00:00
(8/9): mailcap-2.1.41-2.amzn2.noarch.rpm                    |  31 kB  00:00:00
(9/9): mod_http2-1.15.3-2.amzn2.x86_64.rpm                  | 146 kB  00:00:00
--------------------------------------------------------------------------------
Total                                       8.4 MB/s | 1.8 MB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : apr-1.6.3-5.amzn2.0.2.x86_64                                 1/9
  Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64                        2/9
  Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64                            3/9
  Installing : httpd-tools-2.4.41-1.amzn2.0.1.x86_64                        4/9
  Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch                    5/9
  Installing : mailcap-2.1.41-2.amzn2.noarch                                6/9
  Installing : httpd-filesystem-2.4.41-1.amzn2.0.1.noarch                   7/9
  Installing : mod_http2-1.15.3-2.amzn2.x86_64                              8/9
  Installing : httpd-2.4.41-1.amzn2.0.1.x86_64                              9/9
  Verifying  : apr-util-1.6.1-5.amzn2.0.2.x86_64                            1/9
  Verifying  : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64                        2/9
  Verifying  : httpd-2.4.41-1.amzn2.0.1.x86_64                              3/9
  Verifying  : httpd-filesystem-2.4.41-1.amzn2.0.1.noarch                   4/9
  Verifying  : mod_http2-1.15.3-2.amzn2.x86_64                              5/9
  Verifying  : apr-1.6.3-5.amzn2.0.2.x86_64                                 6/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                7/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                    8/9
  Verifying  : httpd-tools-2.4.41-1.amzn2.0.1.x86_64                        9/9

Installed:
  httpd.x86_64 0:2.4.41-1.amzn2.0.1

Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2                apr-util.x86_64 0:1.6.1-5.amzn2.0.2        apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
  generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.41-1.amzn2.0.1  httpd-tools.x86_64 0:2.4.41-1.amzn2.0.1  mailcap.noarch 0:2.1.41-2.amzn2
  mod_http2.x86_64 0:1.15.3-2.amzn2

Complete!
[ec2-user@ip-172-31-36-5 ~]$ sudo yum install mysql -y
```

c) sudo yum install MySQL -y



d) sudo yum install php -y

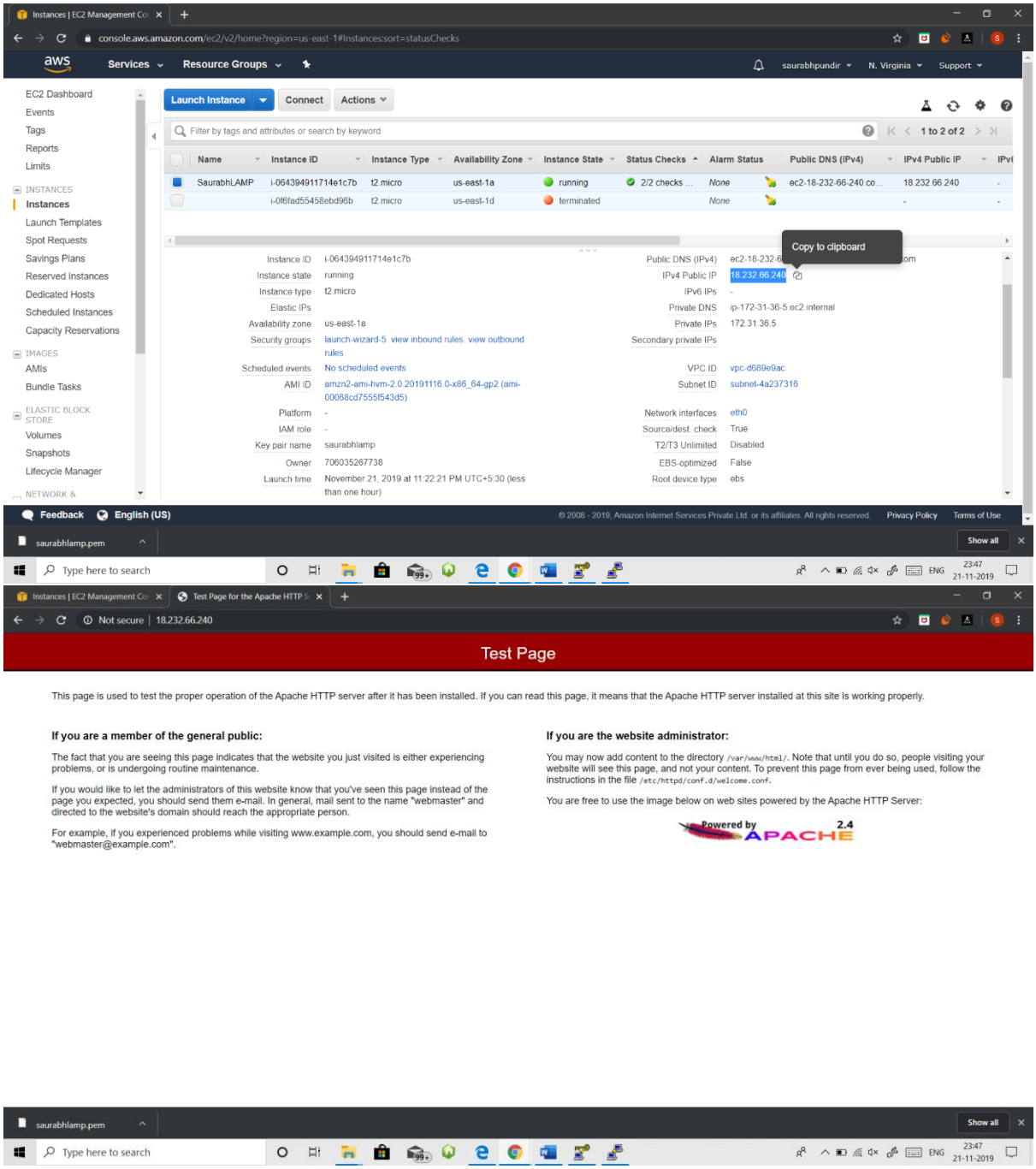


e) sudo service httpd start

sudo chkconfig on

```
Complete!
[ec2-user@ip-172-31-36-5 ~]$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-172-31-36-5 ~]$ sudo chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/sy
stemd/system/httpd.service.
[ec2-user@ip-172-31-36-5 ~]$ chkconfig --list httpd
```

Now check whether service is started or not, for this go to your ipv4



Creating a Static Website using LAMP server

1. sudo groupadd www

2. sudo usermod -a -G www ec2-user

Now leave the current session and open new session

3. Do the following commands

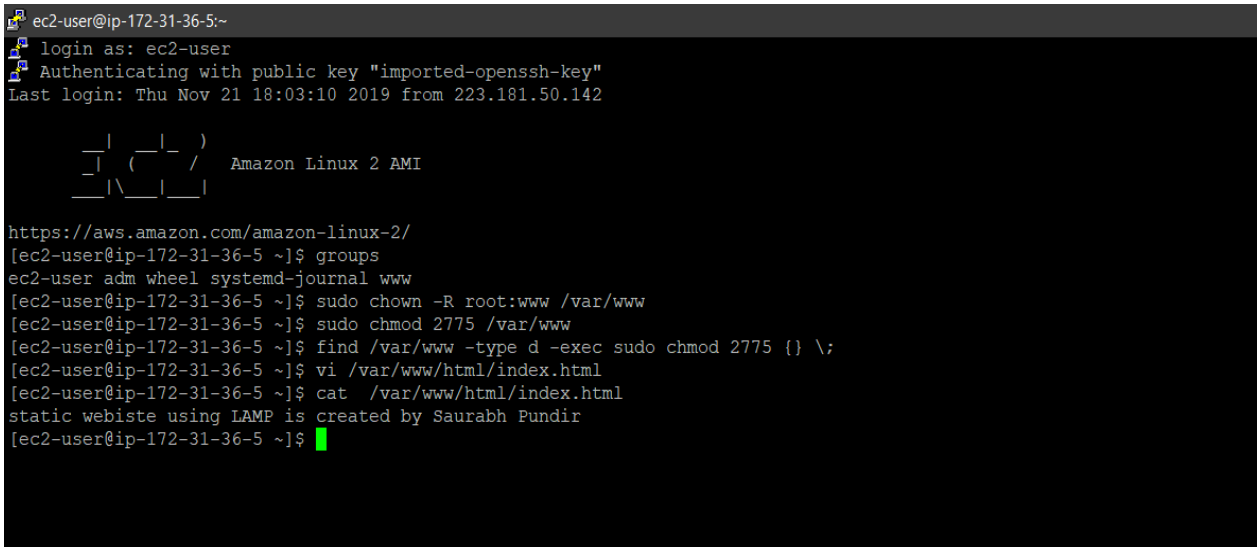
a) groups

b) sudo chown -R root:www /var/www

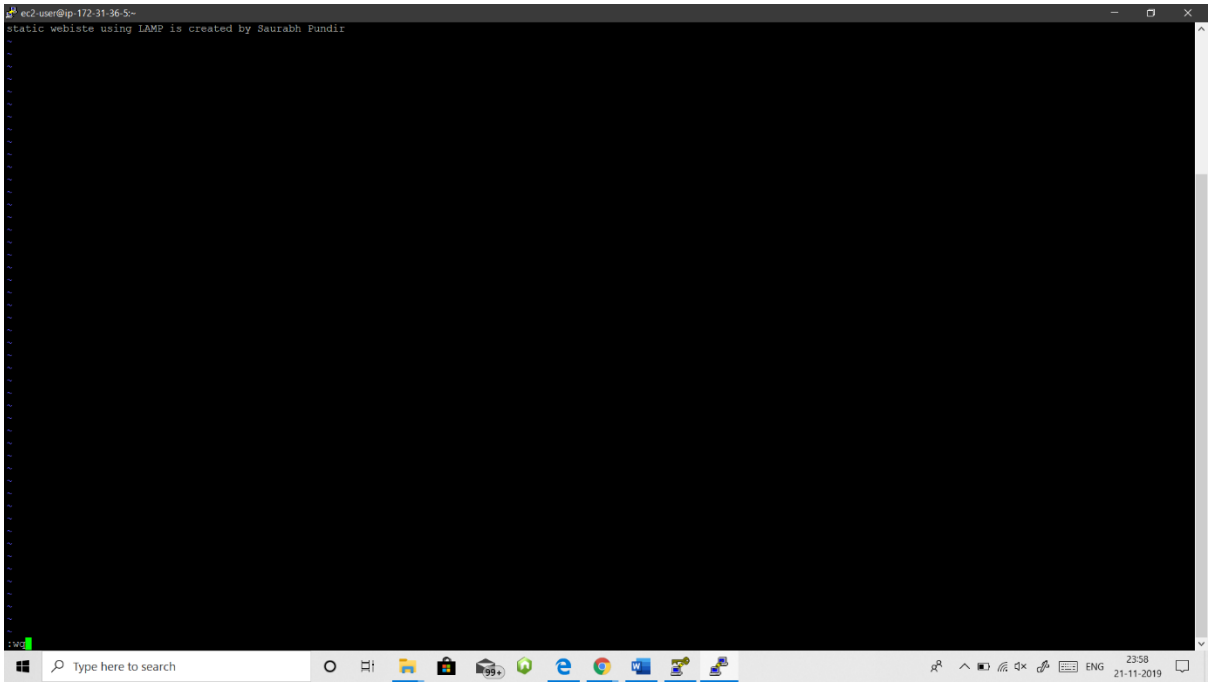
c) sudo chmod 2775 /var/www

d) find /var/www -type d -exec sudo chmod 2775 {} \;

e) vi /var/www/html/index.html



To add content in vi editor use ‘i’ or ‘insert’ button to enter and for exit first press ‘Esc’ button and type ‘:wq’



4. Now go your ec2 dashboard and refresh your ipv4 URL tab.

STATIC WEBSITE USING LAMP LAUNCHED

THANK YOU