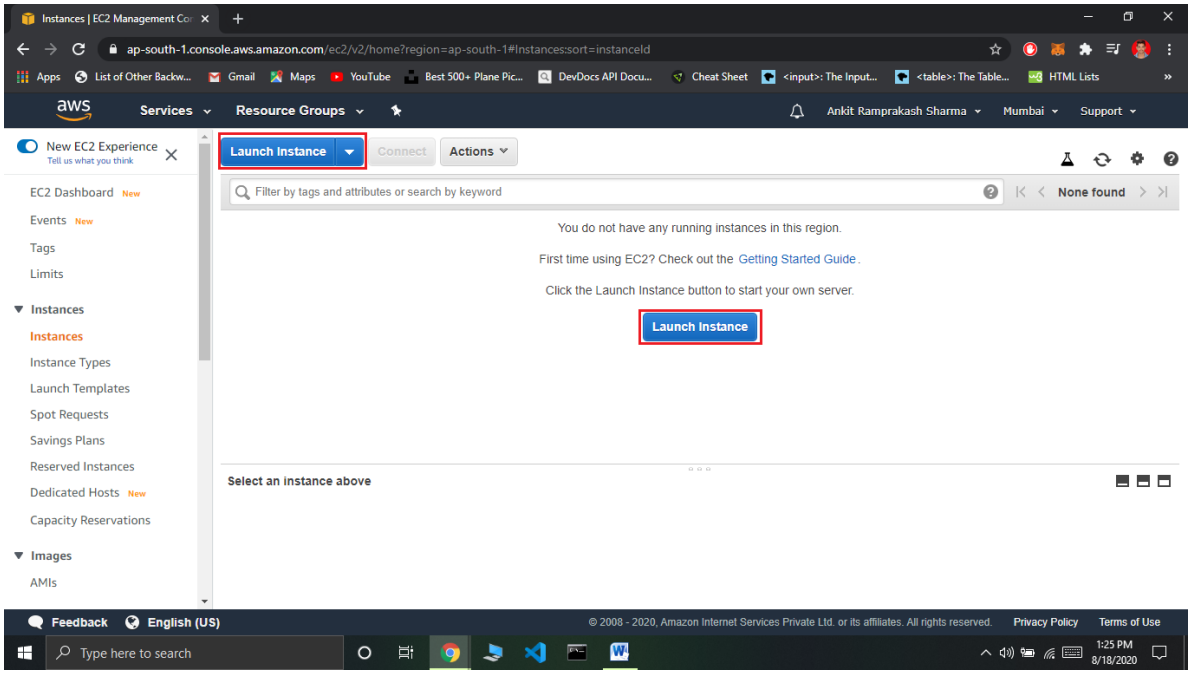
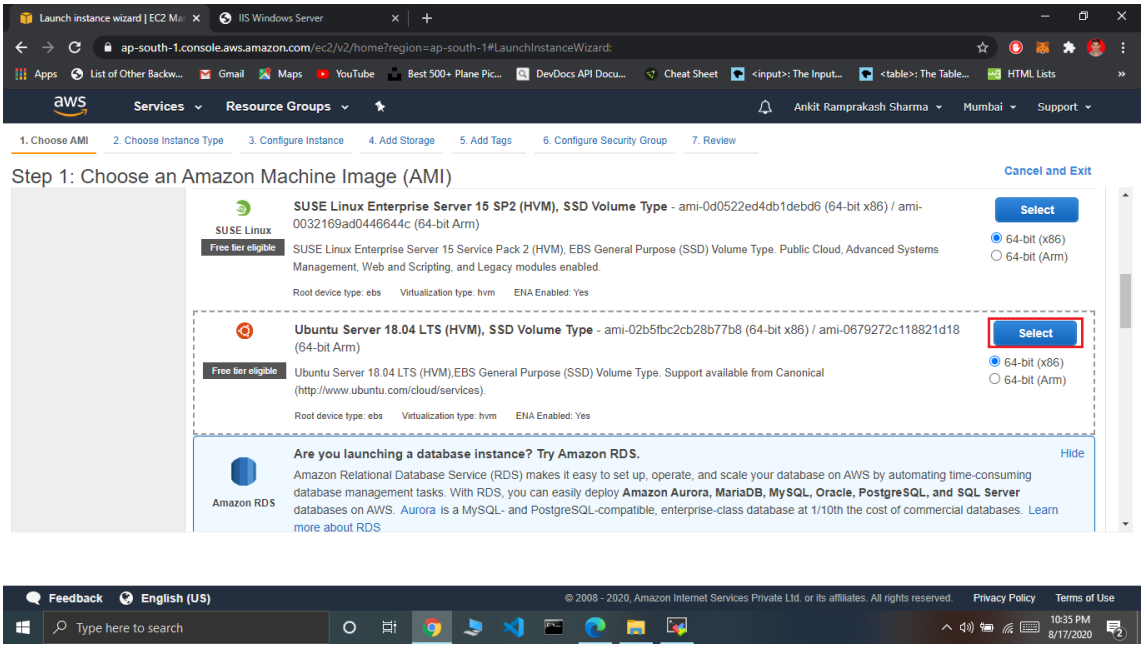
Project 2:

Deploying a Web Server in Ubuntu Instance:

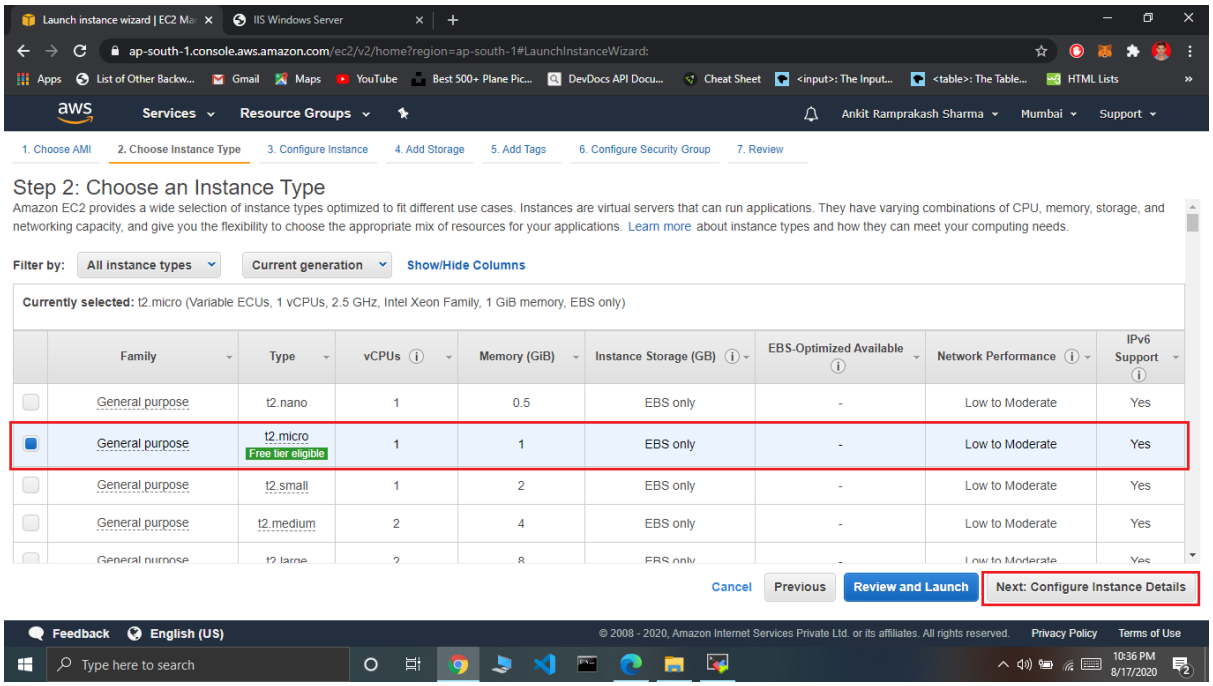
Step 1: Login to your AWS Console -> Go to Services -> Select EC2 -> In EC2 Dashboard select Instances -> Click on Launch Instance.



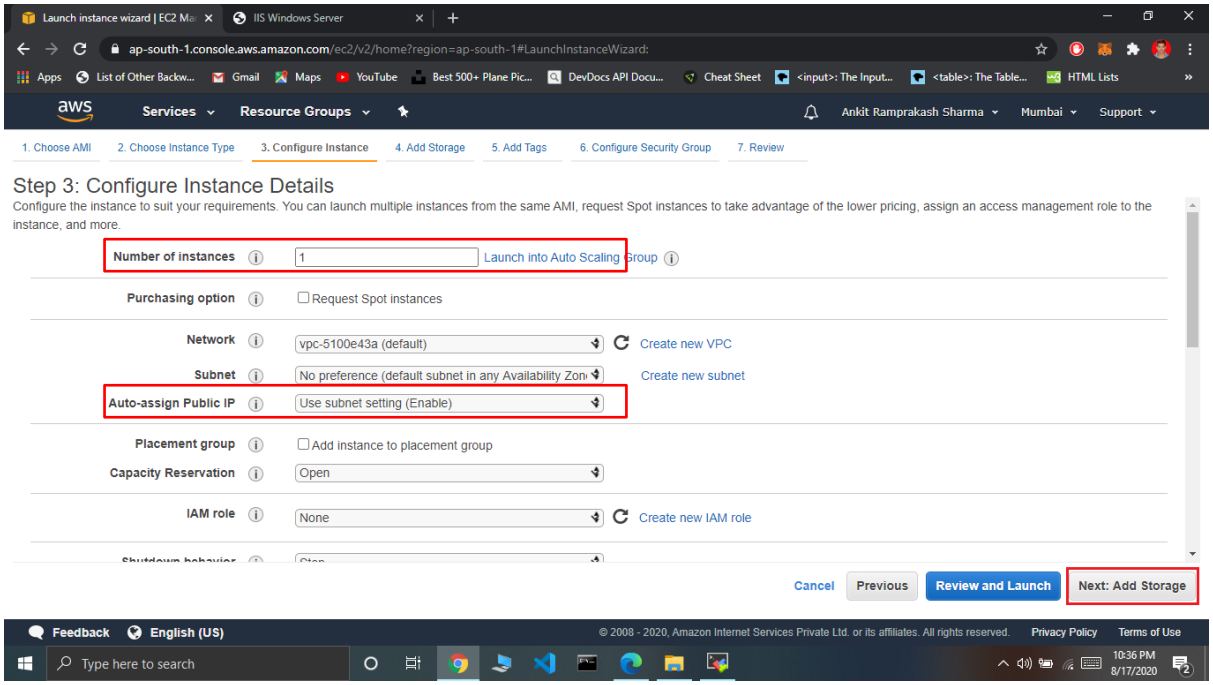
Step 2: Starting with EC2 (Elastic Compute Cloud) and launching a new instance Choose an AMI -> Ubuntu Server 18.04 LTS OS under Free Tier Section.



Step 3: Choose an Instance type which should be free tier eligible -> Select t2 micro and then click, Next: Configure Instance Details.

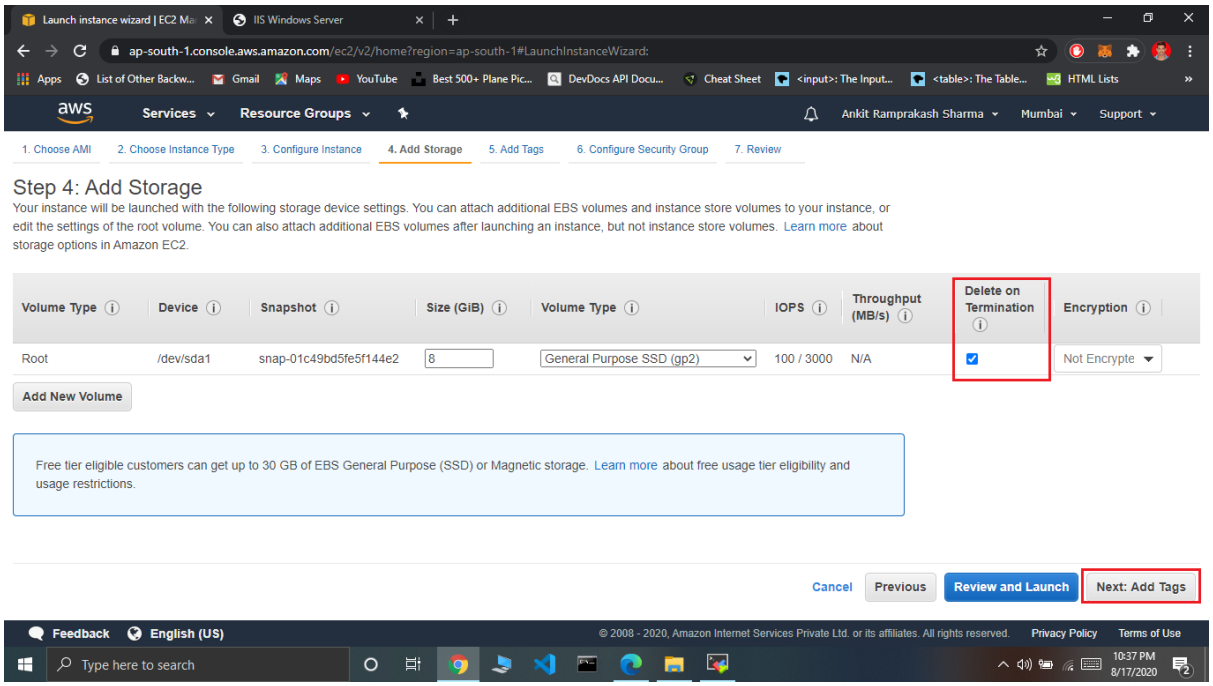


Step 4: Configure Instance Details -> No. of instance = 1, Auto-assign Public IP = Enable -> Click Next: Add Storage.

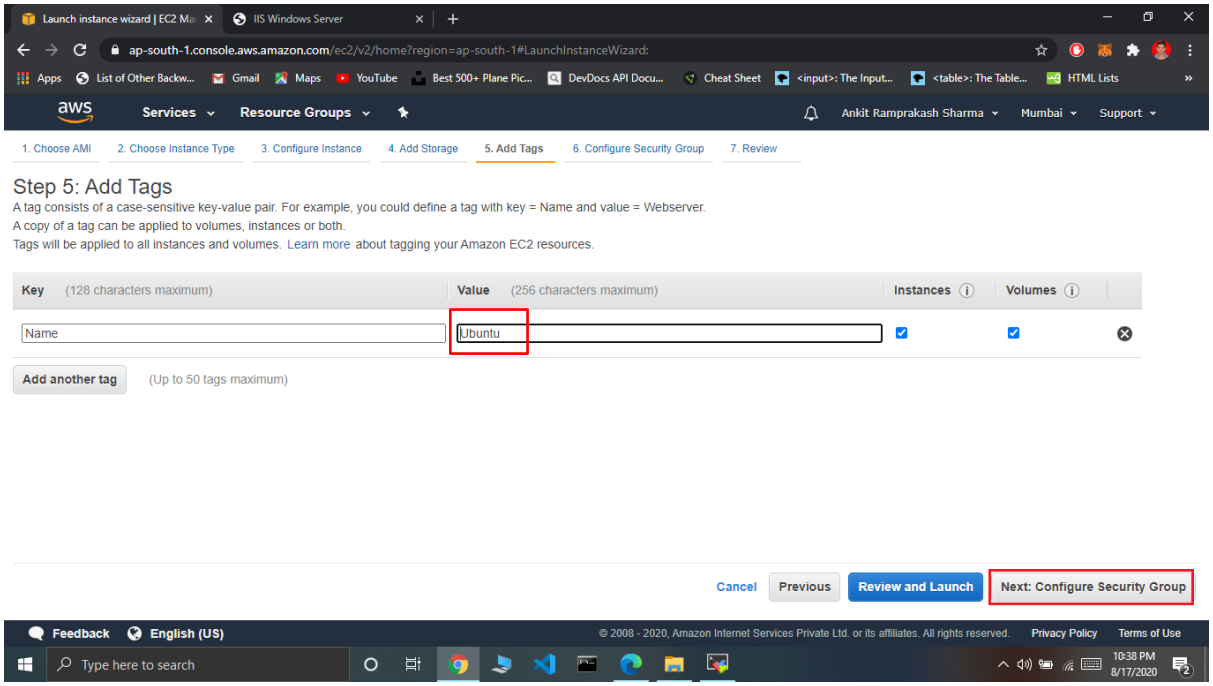


Step 5: Let everything be default in Add Storage.

Delete on Termination must be selected. -> Click Next: Add Tags.

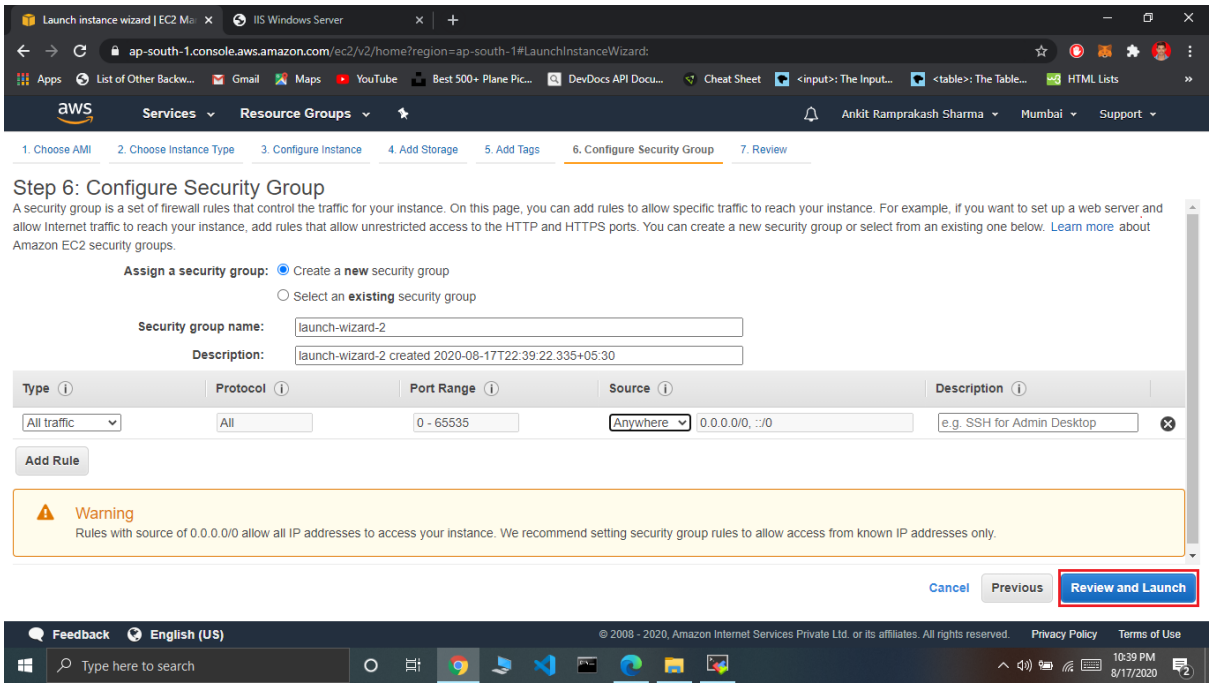


Step 6: Enter any name you want for your instance in Add Tags. -> Click Next: Configure Security Group.

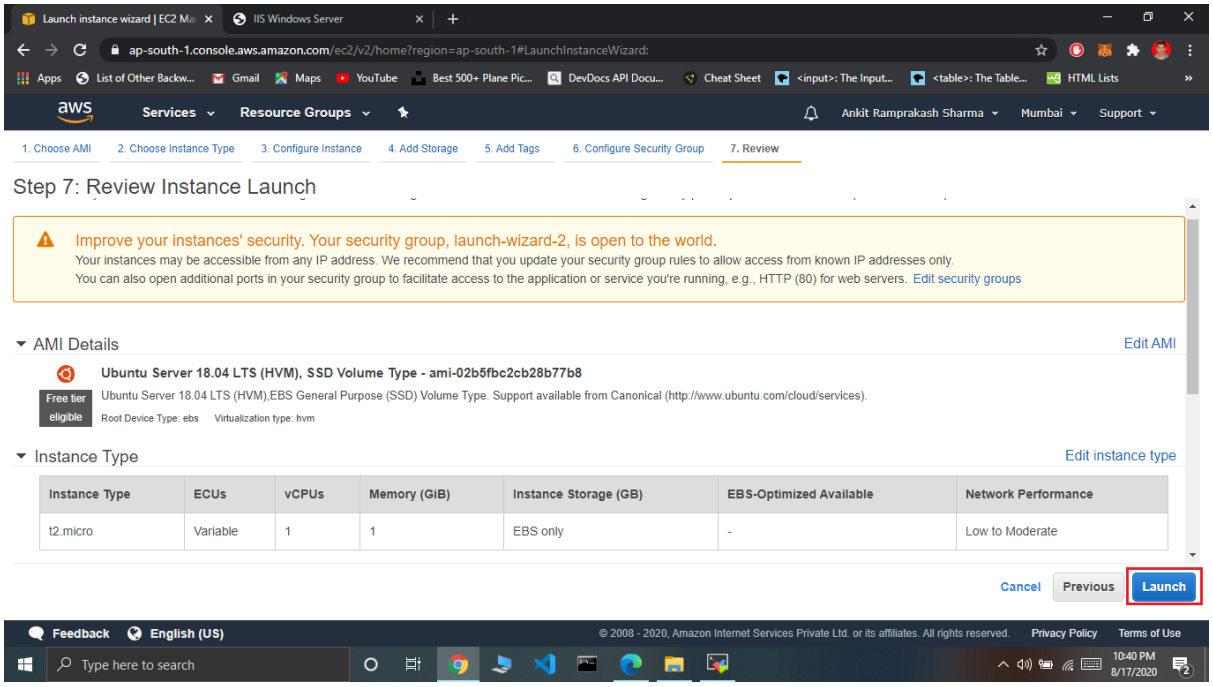


Step 7: In Configure Security Group -> Create a new security group ->

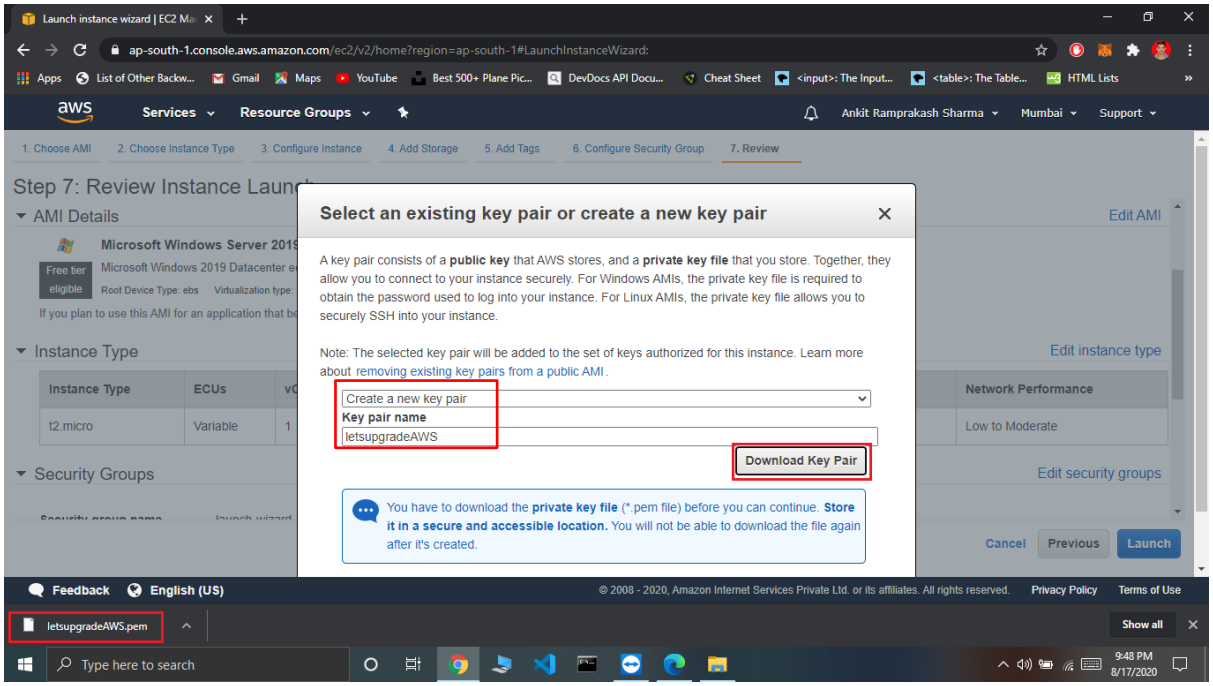
Select Type = All Traffic and Source = Anywhere. -> Click Next: Review and launch.



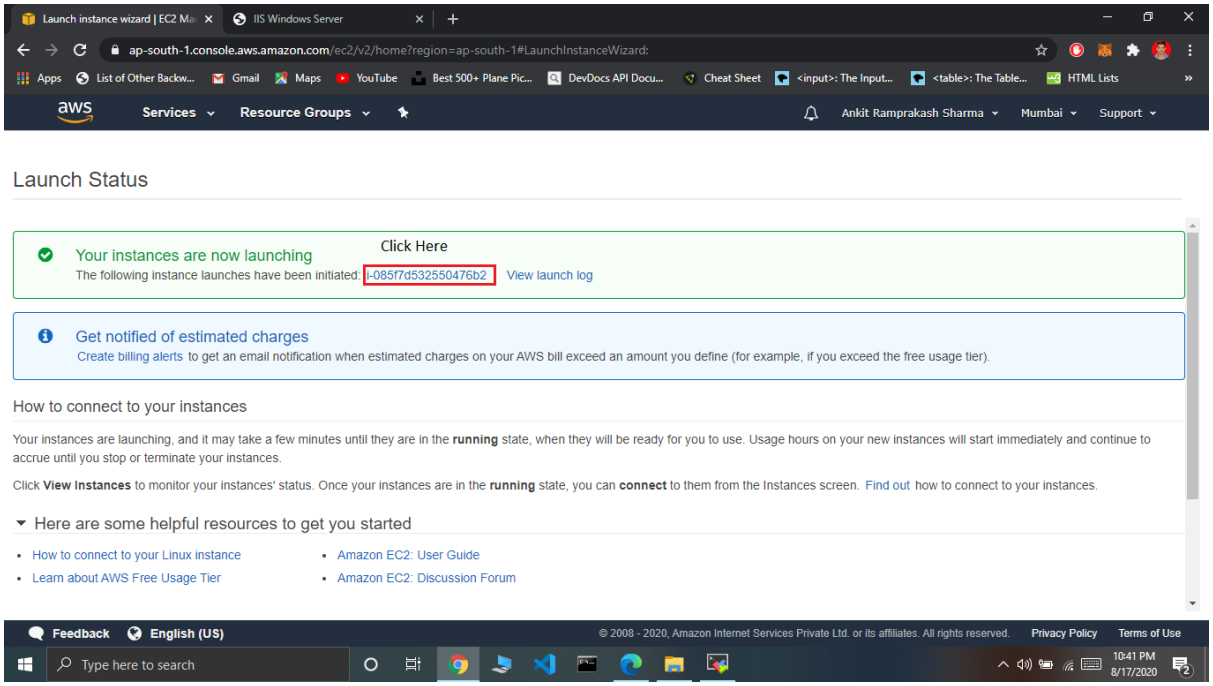
Step 8: Review all steps -> Click Launch.



Step 9: After launching select the existing key pair which you downloaded while creating windows instance or create a new key pair show below if you don't have the previous one. -> Click Launch Instance.

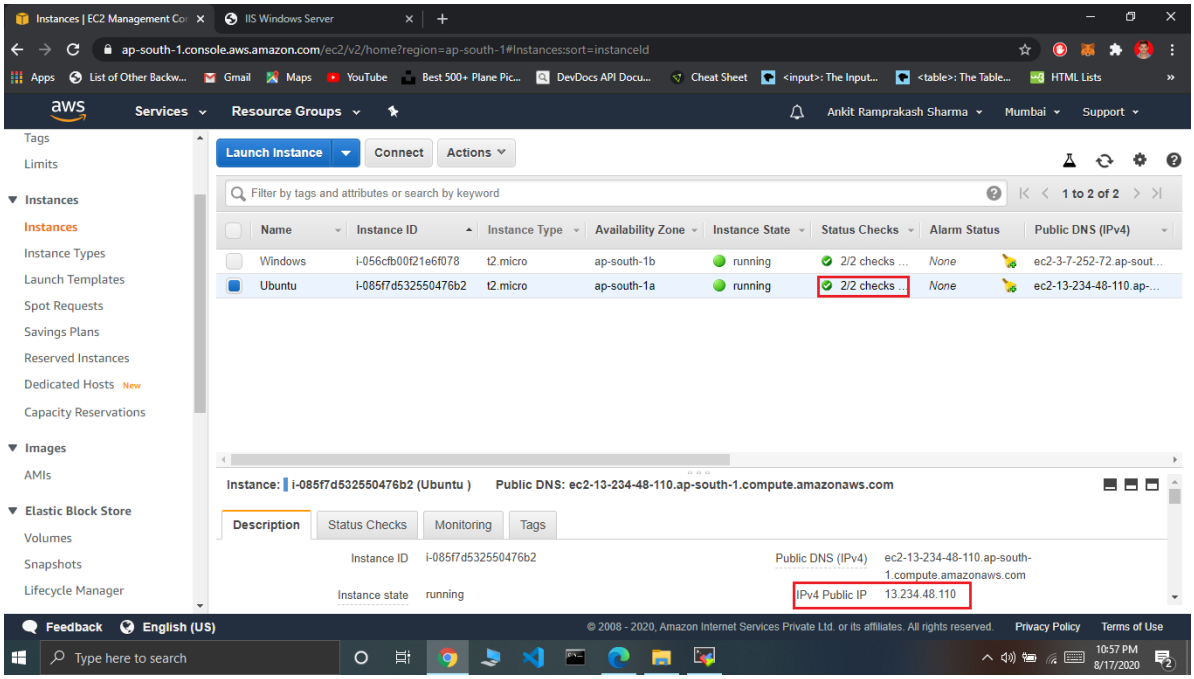


Step 10: Instance is created. -> Click on instance id which will redirect you to EC2 instances list.



Step 11: Wait till the status checks are done. After Status Checks are done, copy the Public IP Address of the Ubuntu instance.

Here it is: 13.234.48.110

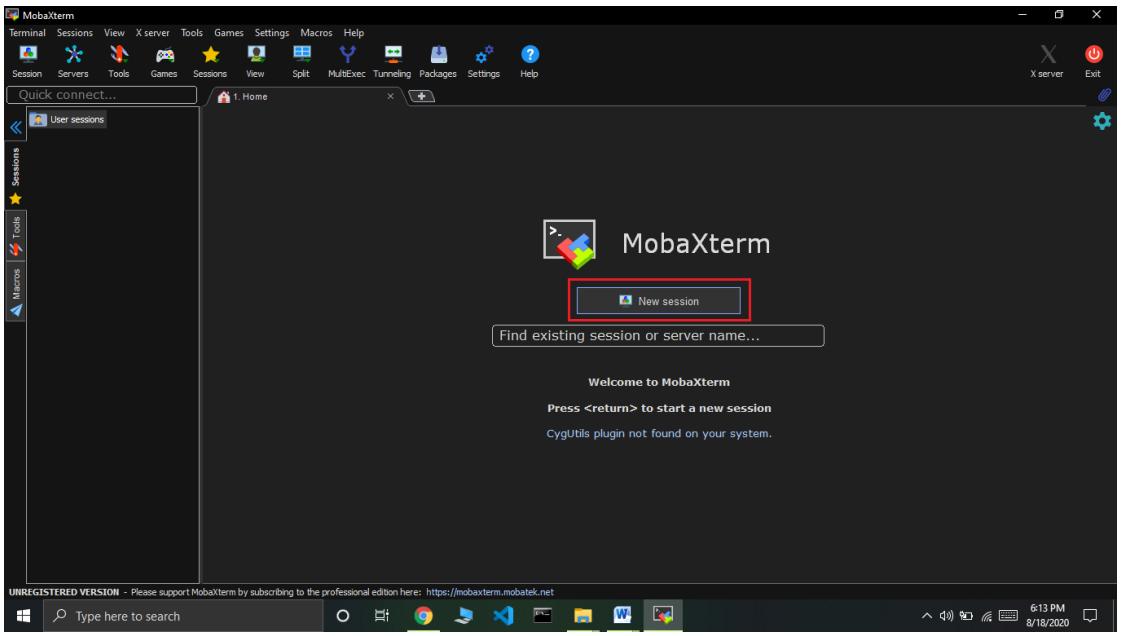


Step 12: Now to connect and launch your web server, Download MobaXterm Portable Edition from the link below:

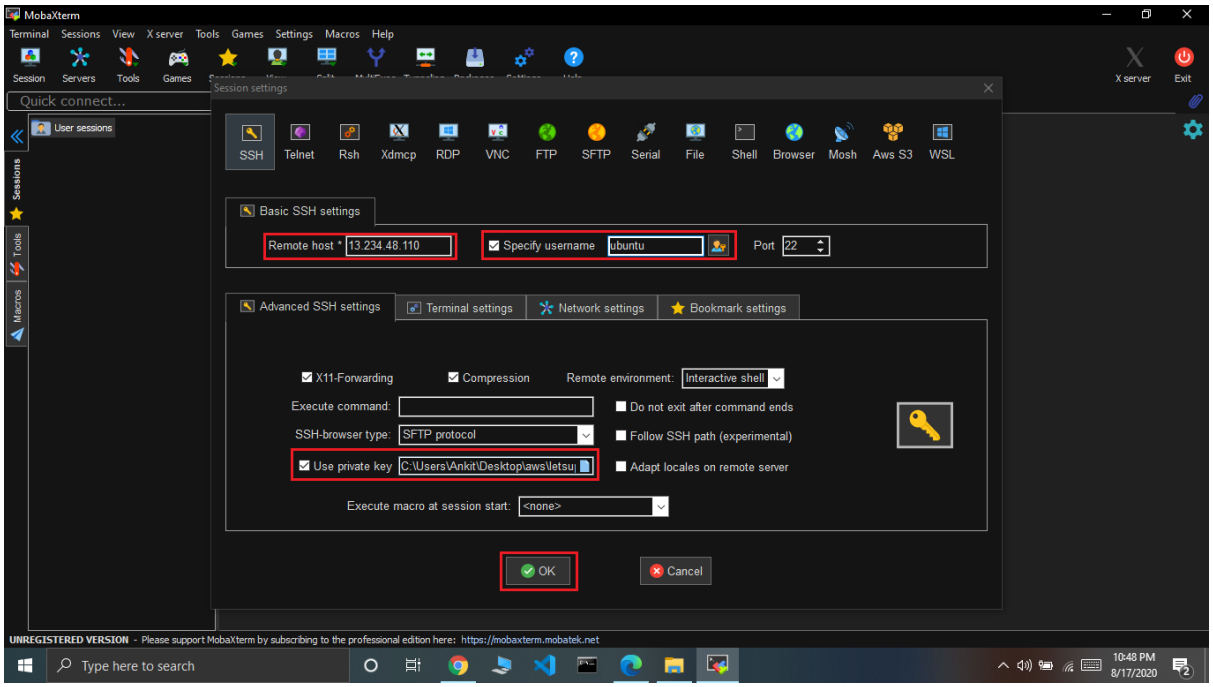
https://mobaxterm.mobatek.net/download-home-edition.html

After downloading extract the zip file to get the MobaXterm.exe file.

Step 13: Open MobaXterm.exe -> click on New Session



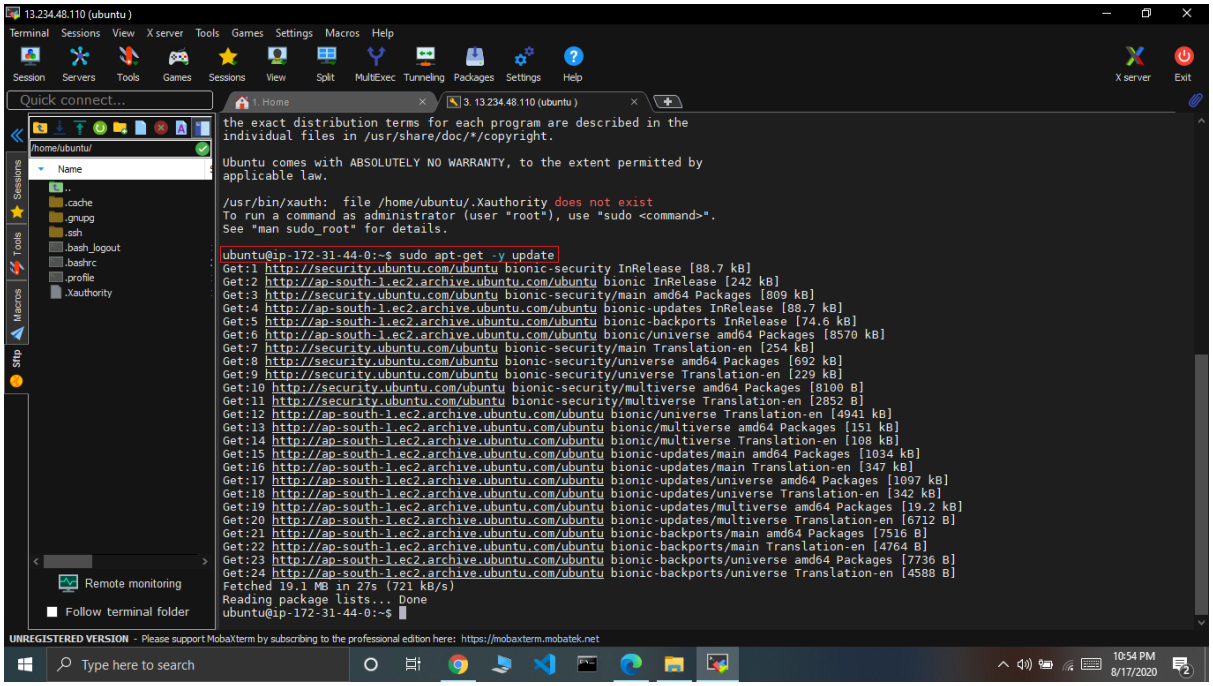
Step 14: Select SSH and give it a specific username -> Paste the Public IP Address generated after Ubuntu instance creation from Step 11 in Remote host and upload your key pair .pem file from Step 9 in Advanced SSH Settings -> click OK.

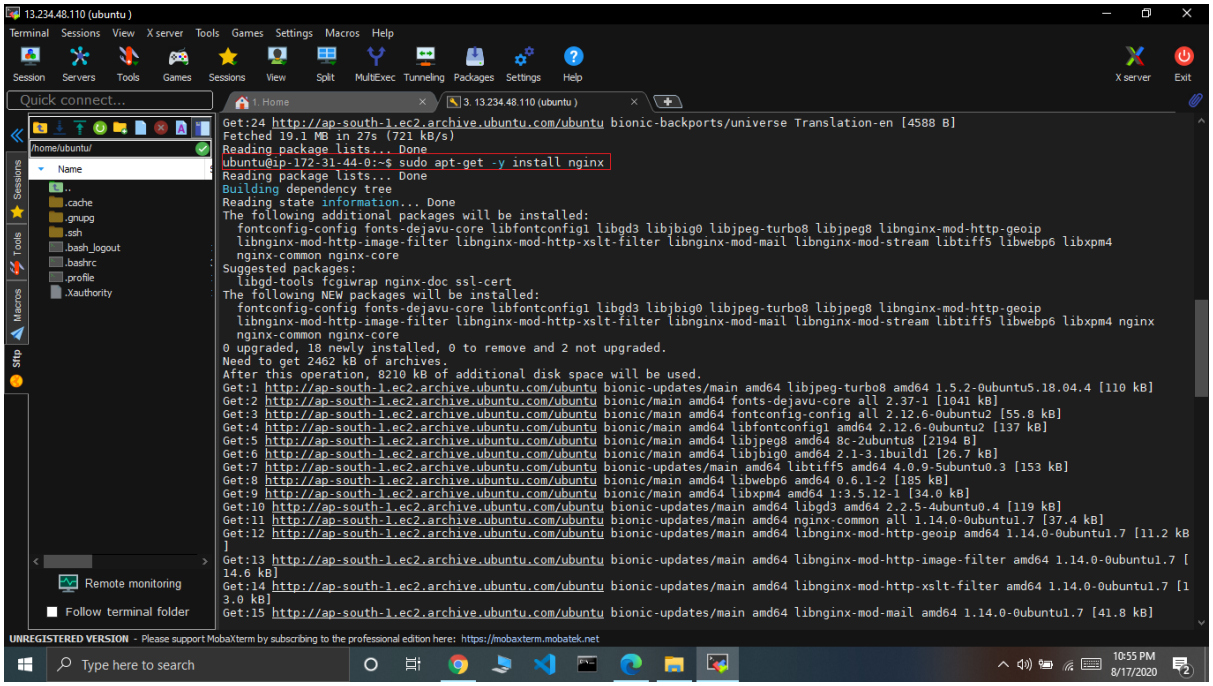


Step 15: After clicking OK an Ubuntu Bash will appear in that run the following two commands given below one at a time:

sudo apt-get -y update

sudo apt-get -y install nginx

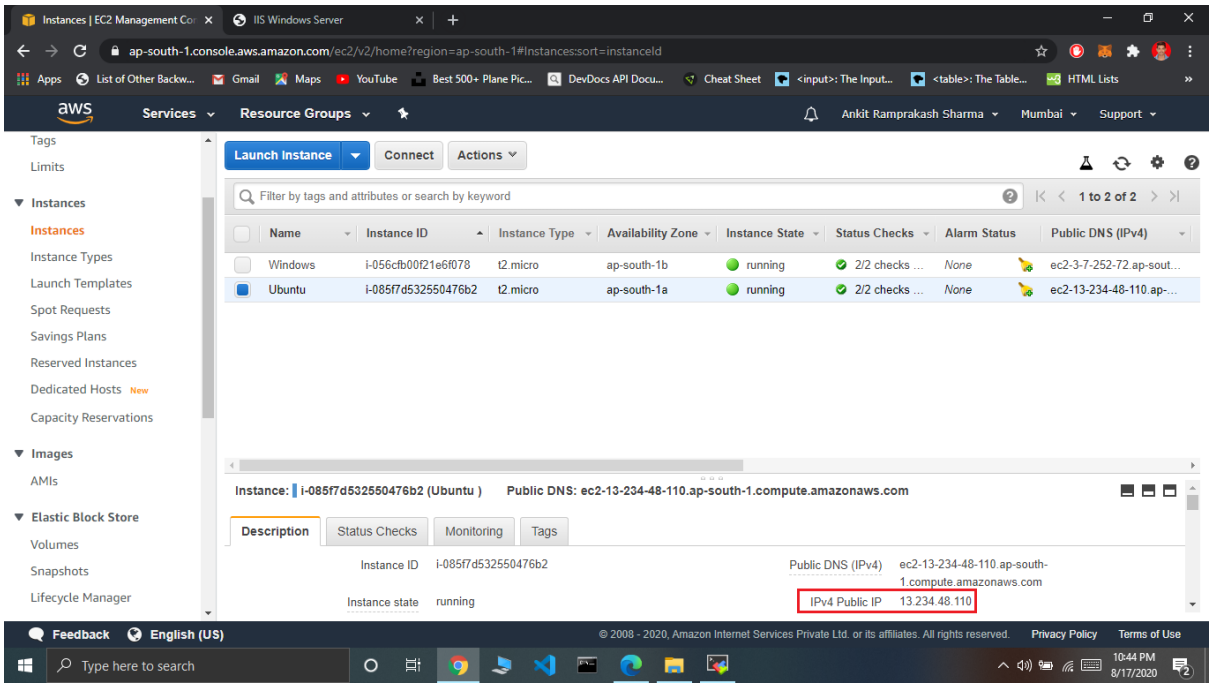




These commands will install nginx web server.

Step 16: After all the nginx packages are installed. Copy the Public IP Address of the Ubuntu instance.

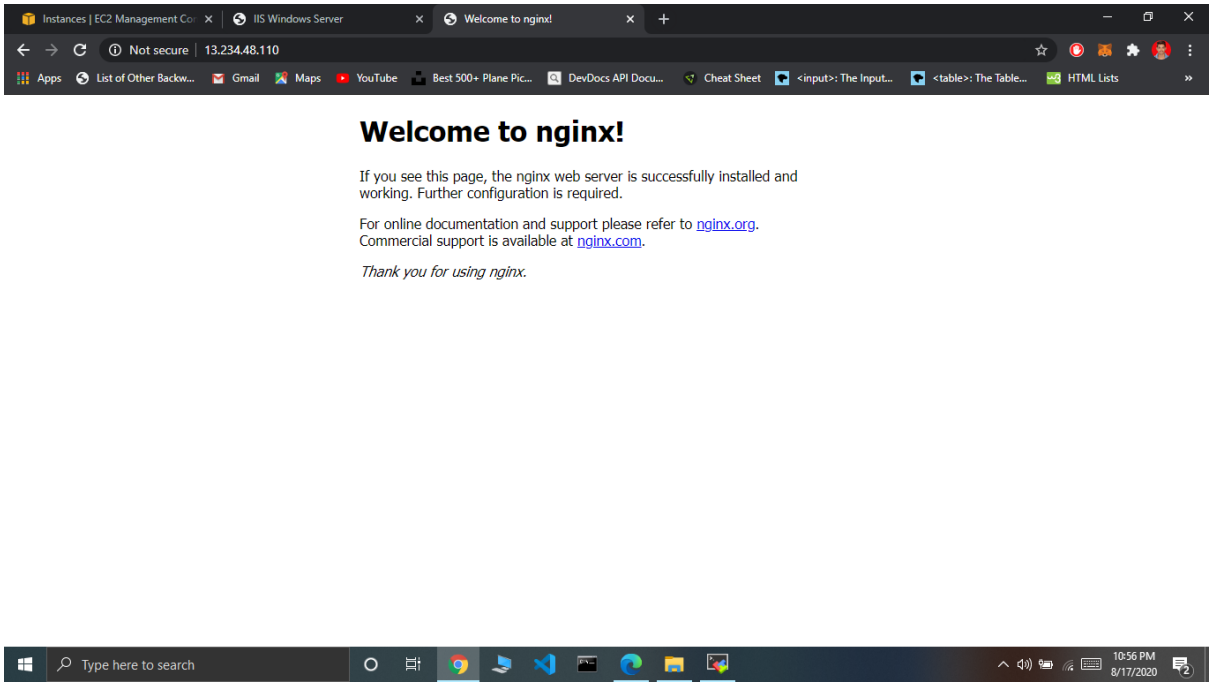
Here it is: 13.234.48.110



Step 17: After installation webserver will be deployed and can be viewed by public IP address available on the EC2 instances list. -> Copy the IP Address and paste and open it in the Browser.

Step 18: Webserver Deployed and Viewed.

With the Public IP address: 13.234.48.110



TASK DONE.

MAKE SURE THAT THE INSTANCES CREATED ARE TERMINATED AFTER THE USAGE TO AVOID UNNECESSARY CHARGES.