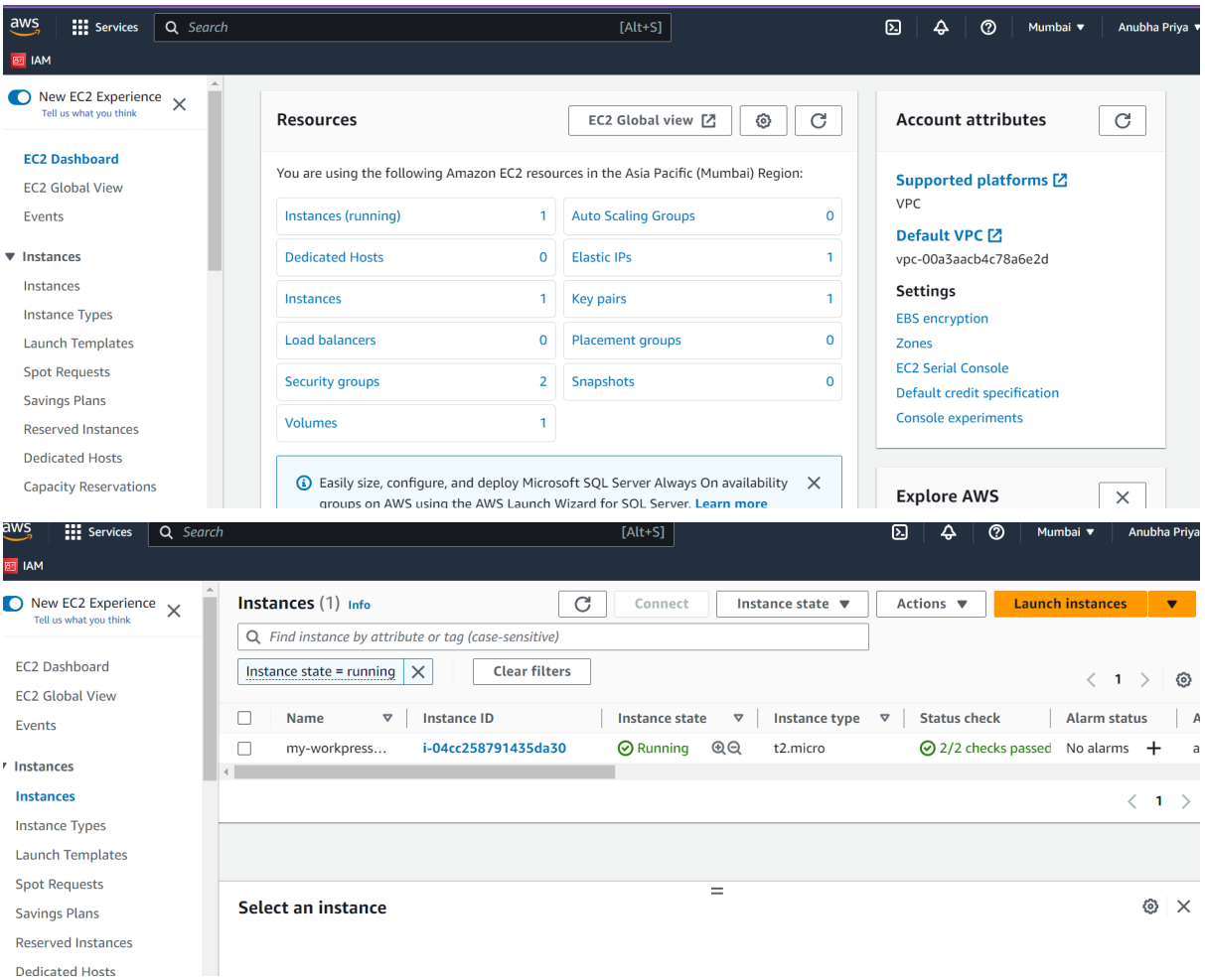
Create AWS EC2 instance and install Apache2 server into it

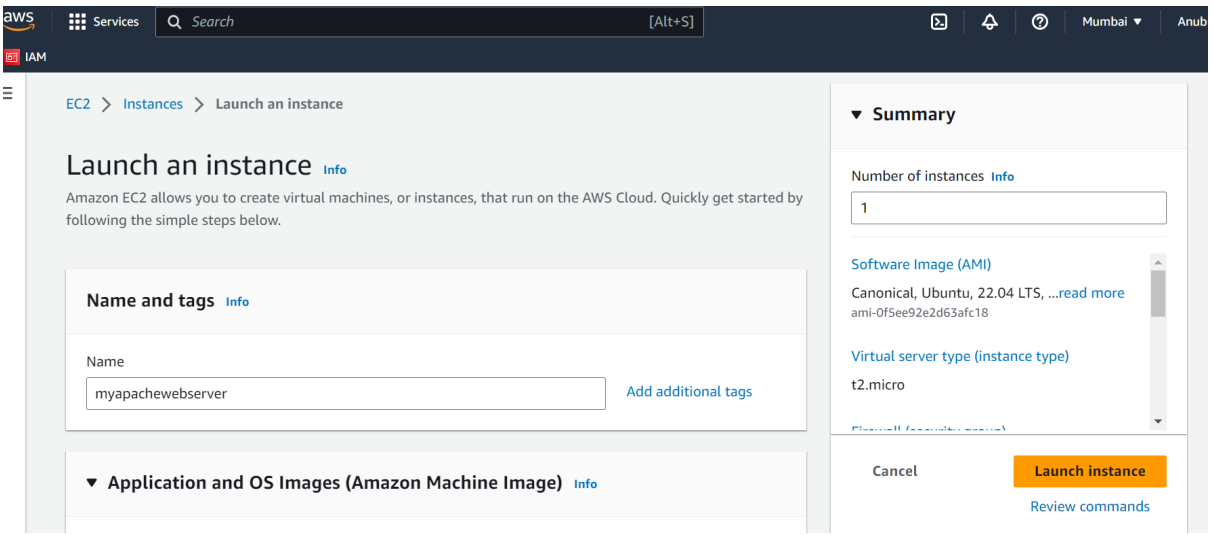
AWS Services used:
1> EC2 Instance - Amazon EC2 (Elastic Compute Cloud) is a core compute service provided by Amazon Web Services (AWS) that allows you to launch and manage virtual servers, known as EC2 instances, in the cloud.
2> Apache 2: Apache HTTP Server, commonly known as Apache, is a popular open-source web server software developed and maintained by the Apache Software Foundation. It is one of the most widely used web server solutions globally.

Steps involved in the deployment:
1> Created an EC2 instance
2> SSH to EC2
3> Installed Apache 2

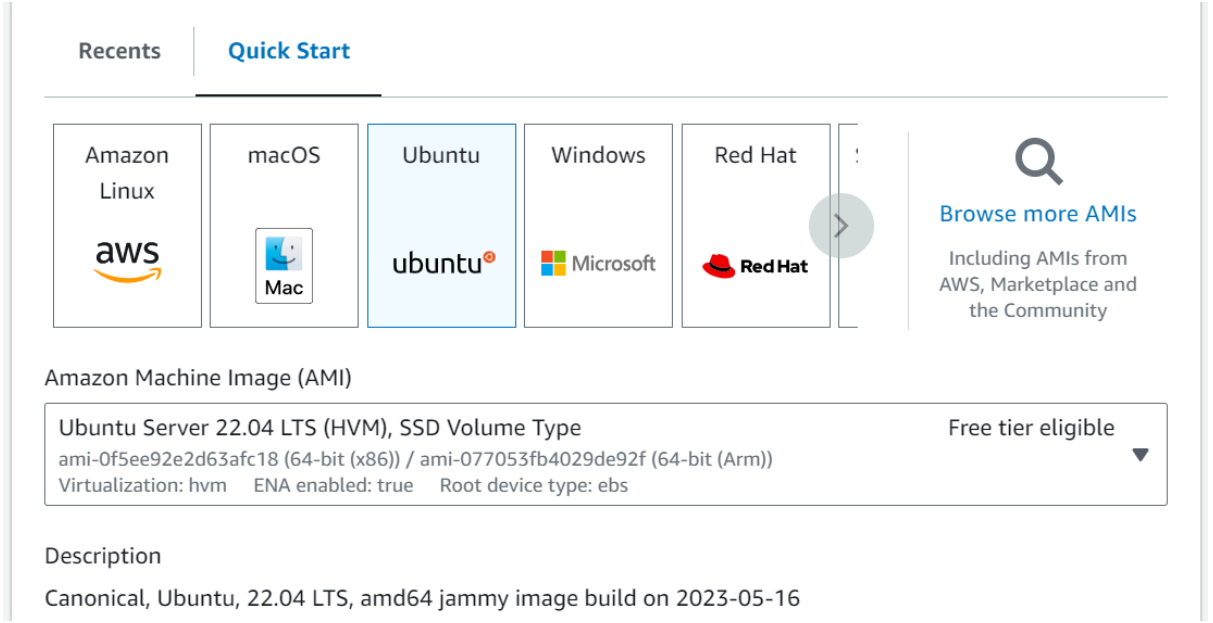
1> Create an EC2 instance

Go to AWS services -> EC2 -> Instances -> Launch Instance



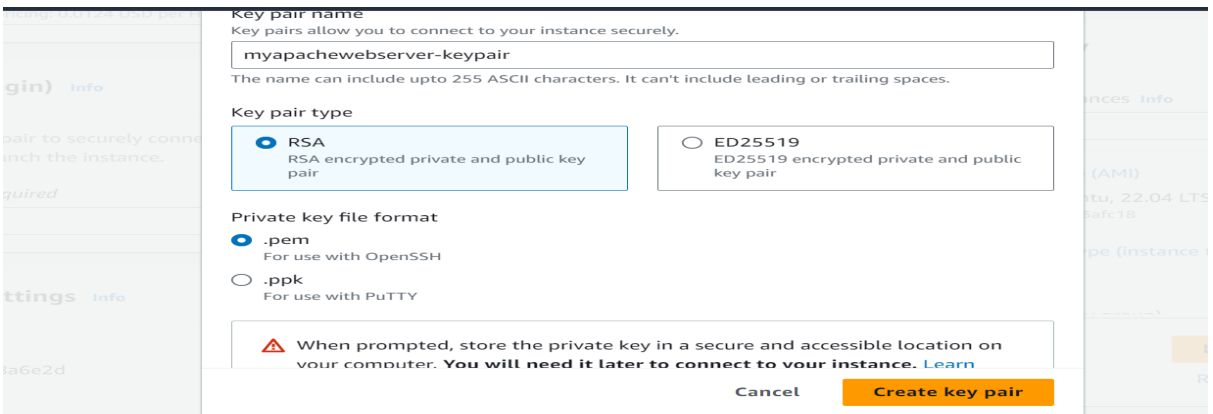


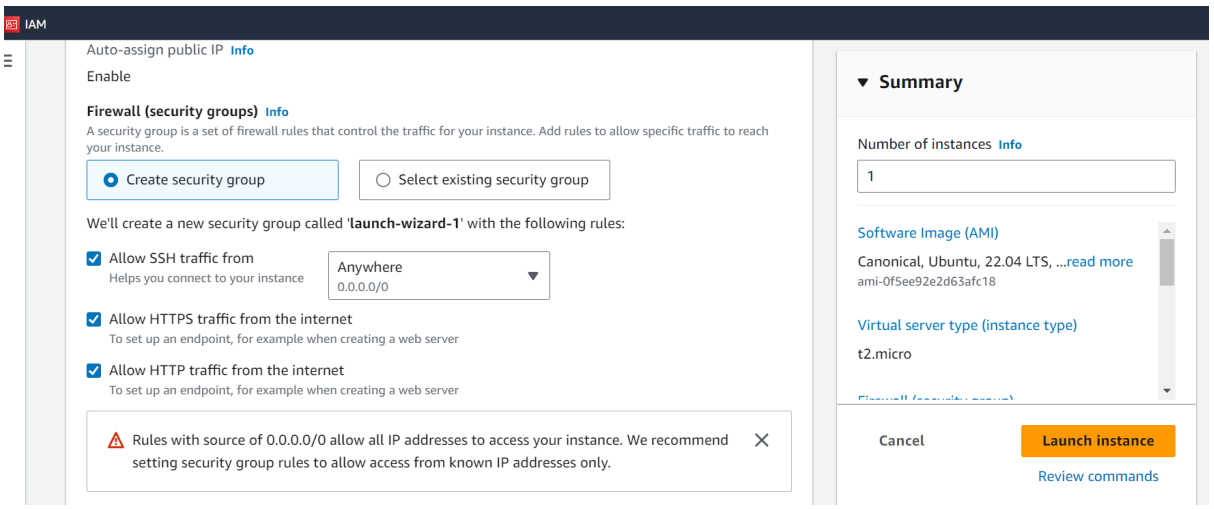
Give EC2 instance name as “myapachewebserver”



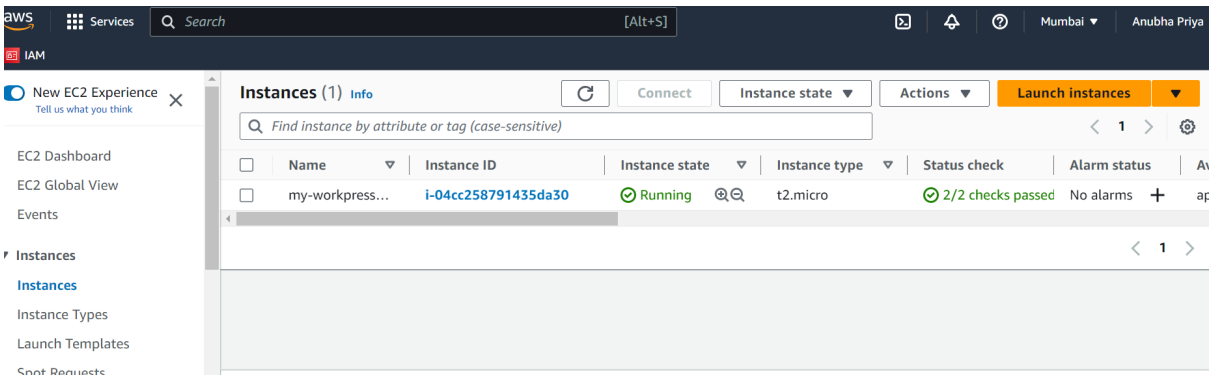
Select Ubuntu OS type

After that generate a key pair for Ubuntu EC2 instance which will help us to SSH to our EC2 server remotely.



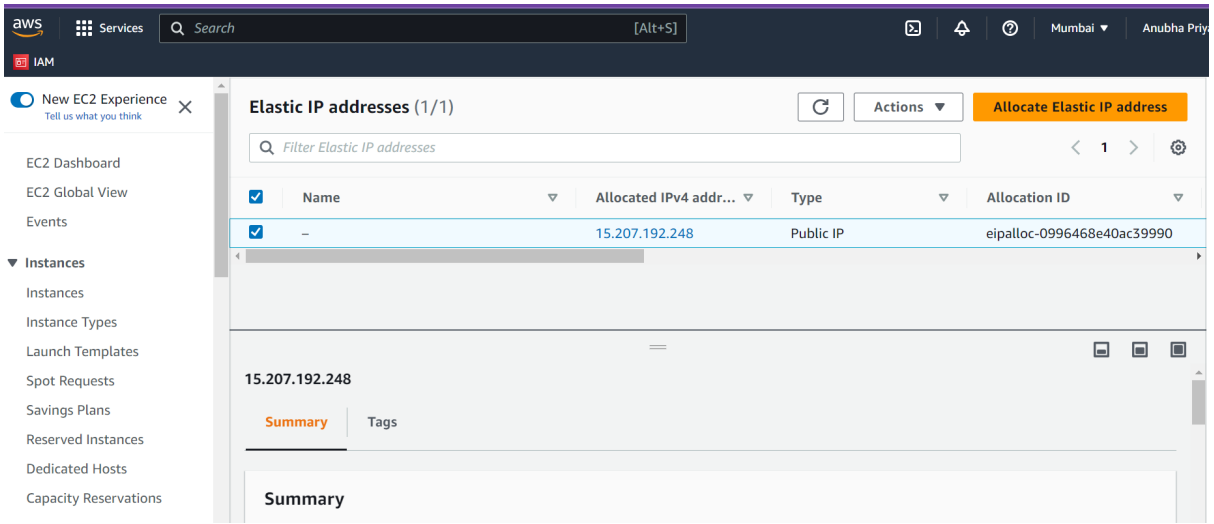


Allow all firewall security groups and from anywhere. Click on launch instance.



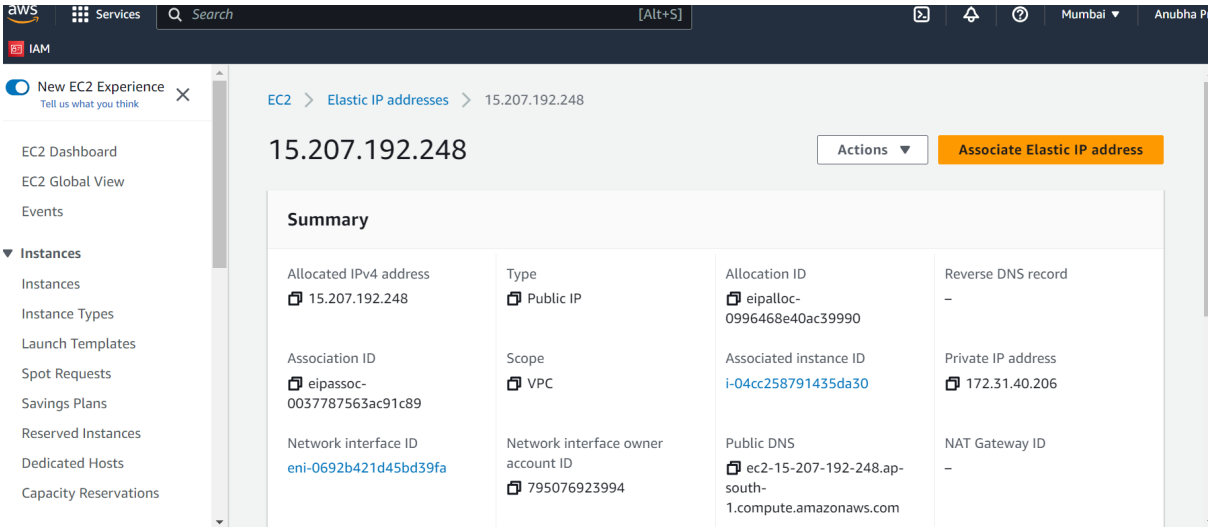
No, we have to assign elastic IP to our EC2 server or else Public IP V4 will keep on changing after restarting the instance.

Go to EC2 instance dashboard -> Elastic IP



Click on allocate elastic IP address and allocate elastic IP with all the default settings.

Now assign this elastic IP to our EC2 instance by associating the Elastic IP option -> Save



2> SSH to EC2

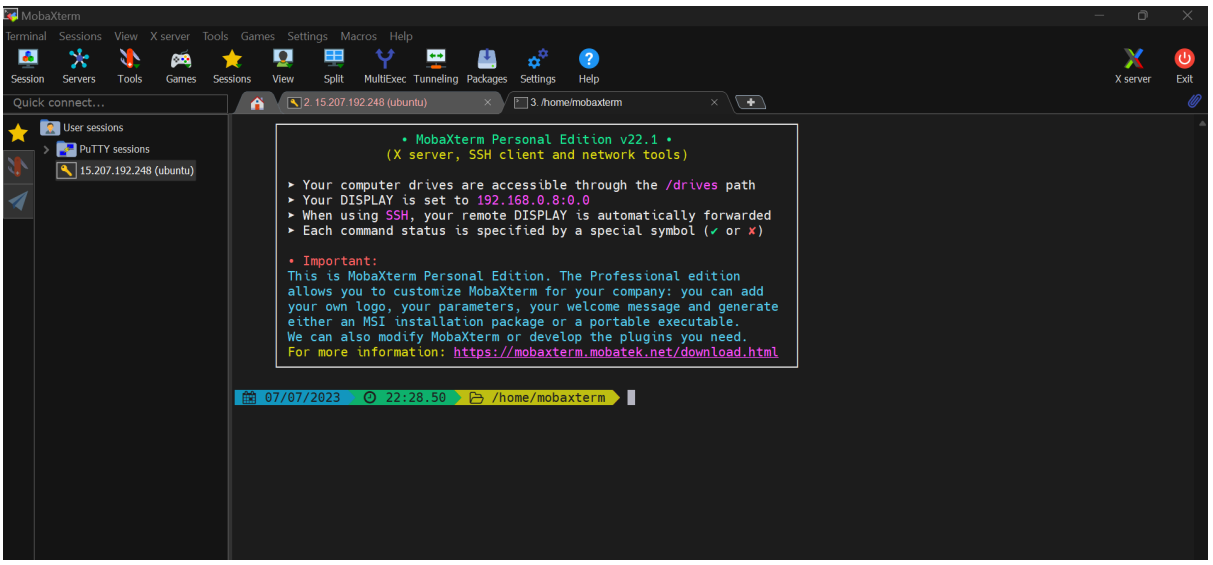
Go to our EC2 instance and copy Public IP V4 which will be the same to elastic IP this time.

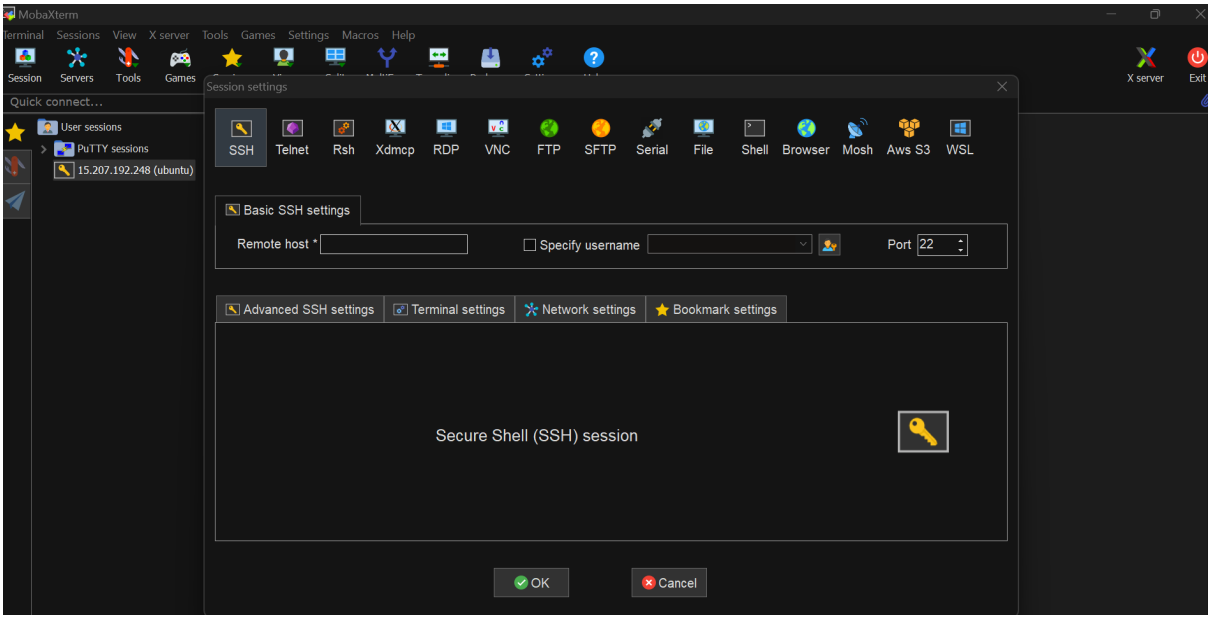
SSH: SSH (Secure Shell) is a network protocol that provides a secure and encrypted means of accessing and managing remote systems. It allows you to securely connect to a remote server or computer over an unsecured network, such as the internet.

Now in order to SSH to our EC2 instance we need one SSH agent if we are windows users. I am using MobaXterm here. It provides access to a Linux terminal on a Windows PC, allowing you to work with the Linux OS without downloading it on your system.

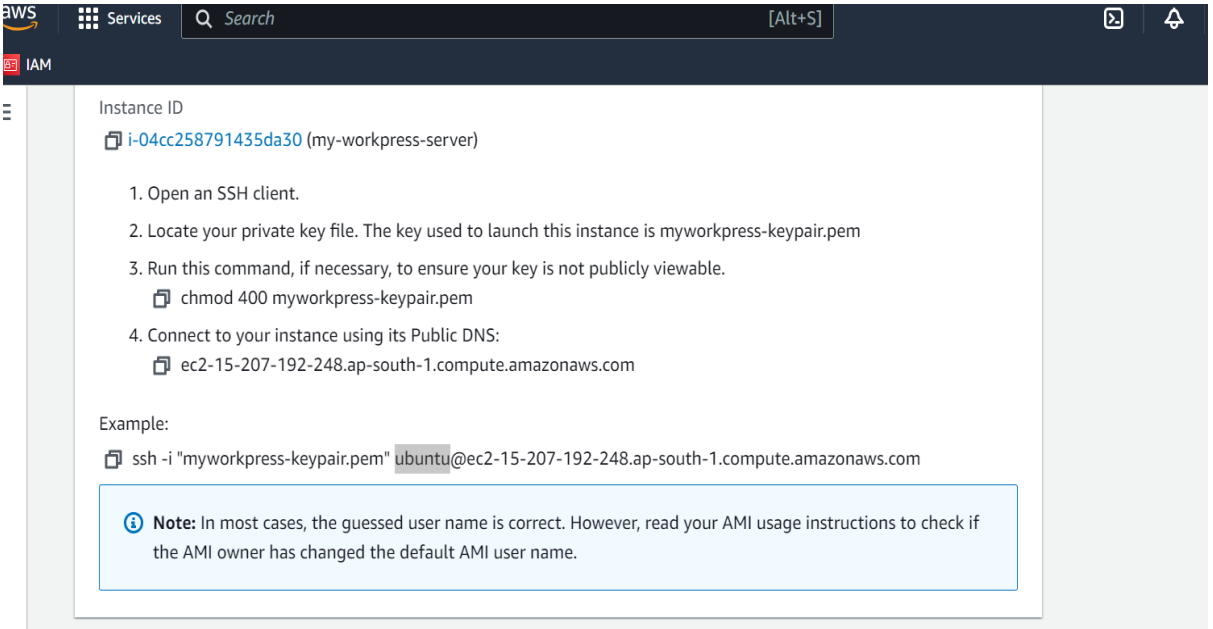
URL to download MobaXterm: https://downloads.digitaltrends.com/moba/windows

After installing it ->open ->session





Session -> SSH -> Remote host: Public IPV4 of our EC2 instance and Specify username: ubuntu -> Okay and it will connect to our EC2 instance.



3> Install Apache 2

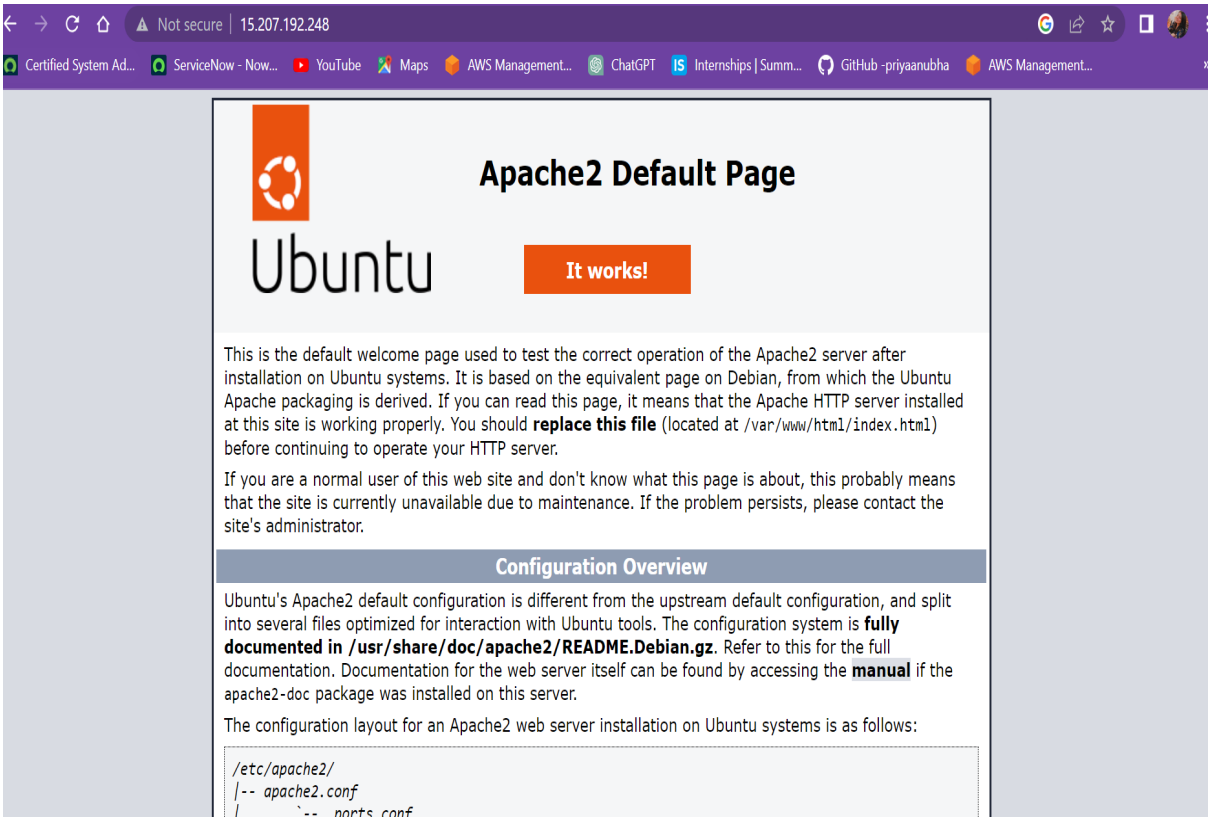
Command to install Apache 2 web server on our EC2 instance:

sudo apt install apache2

Here we have installed Apache 2 web server successfully to our EC2 instance which we can check via the public IPV4 of our EC2 instance

URL: http:// <<Public IPV4 of EC2 instance>>

Output:



So we have successfully created our EC2 server and installed Apache 2 web server on it via SSH.