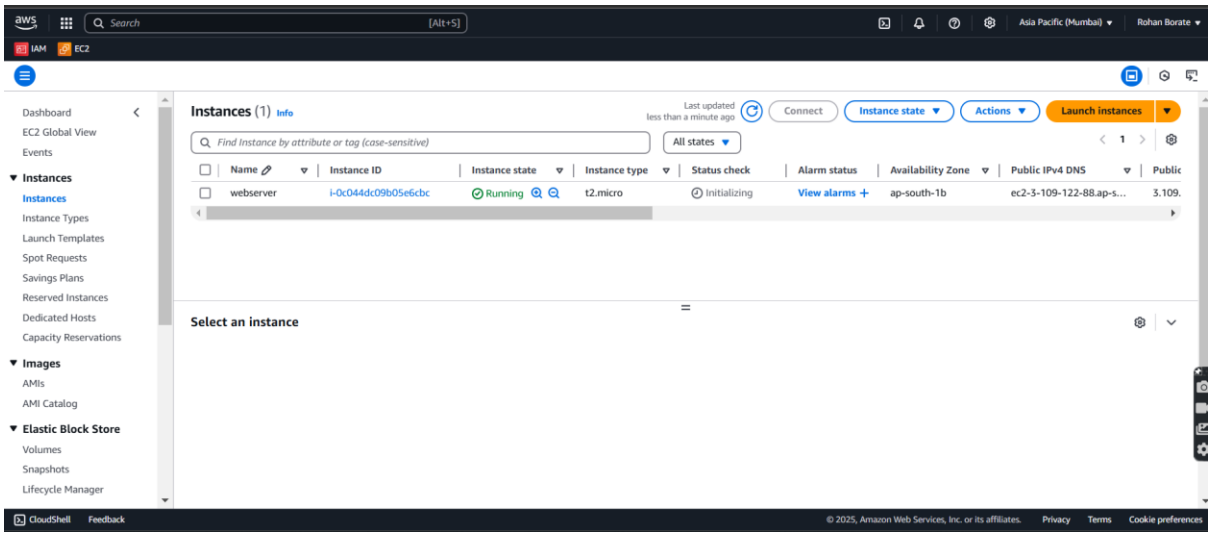
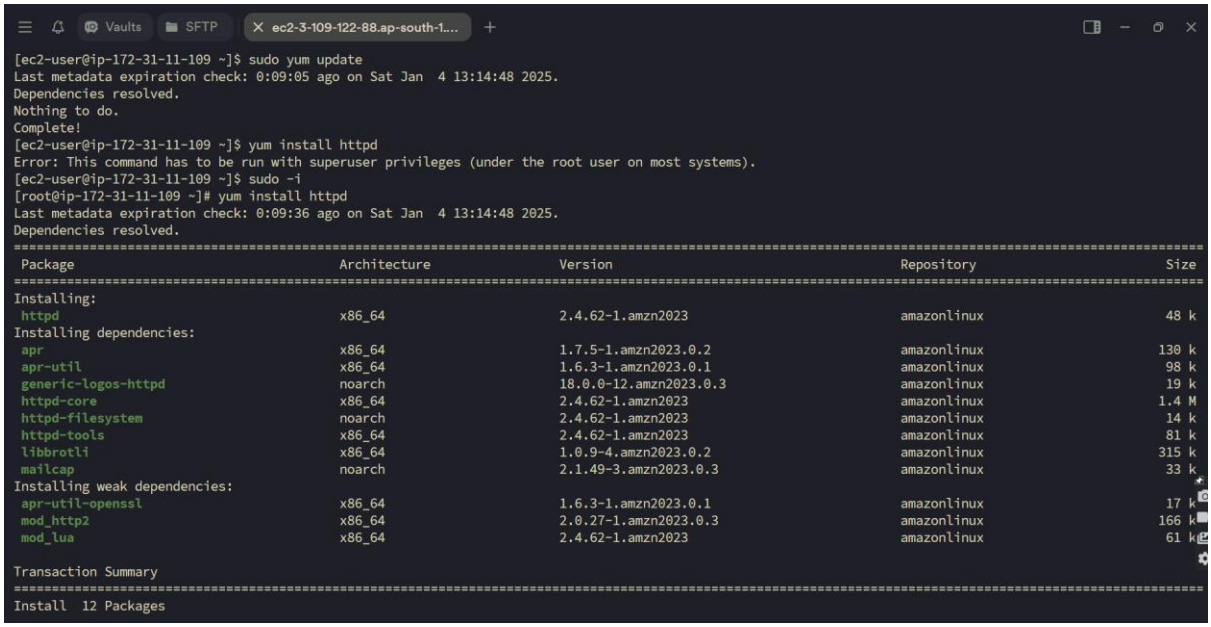
AMAZON MACHINE IMAGE (AMI)

Create EC2 instance



Connect to instance and install apache2 in it , for aws linux instance it termed as httpd

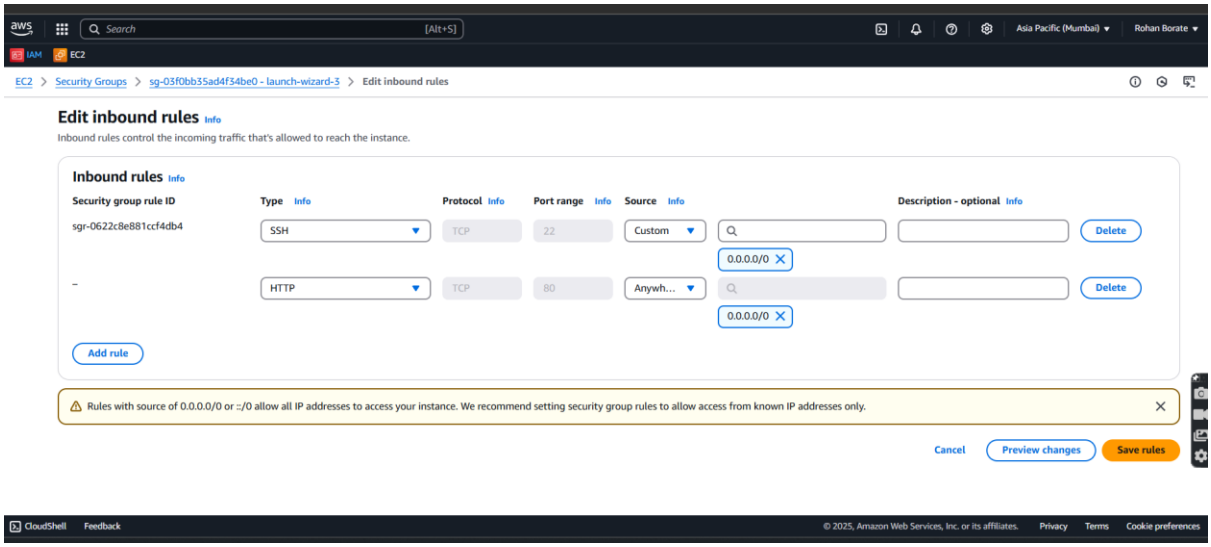


Start the apache2 server

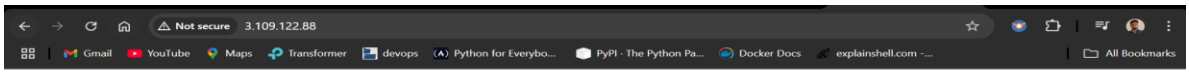
```
[root@ip-172-31-11-109 ~]# systemctl status httpd
○ httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
     Active: inactive (dead)
       Docs: man:httpd.service(8)
[root@ip-172-31-11-109 ~]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-11-109 ~]# systemctl status httpd
○ httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: inactive (dead)
       Docs: man:httpd.service(8)
[root@ip-172-31-11-109 ~]# systemctl start httpd
[root@ip-172-31-11-109 ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Sat 2025-01-04 13:26:23 UTC; 5s ago
       Docs: man:httpd.service(8)
   Main PID: 26287 (httpd)
     Status: "Started, listening on: port 80"
      Tasks: 177 (limit: 1111)
     Memory: 12.9M
        CPU: 51ms
     CGroup: /system.slice/httpd.service
             ├─26287 /usr/sbin/httpd -DFOREGROUND
             ├─26304 /usr/sbin/httpd -DFOREGROUND
             ├─26306 /usr/sbin/httpd -DFOREGROUND
             ├─26307 /usr/sbin/httpd -DFOREGROUND
             └─26308 /usr/sbin/httpd -DFOREGROUND

Jan 04 13:26:22 ip-172-31-11-109.ap-south-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Jan 04 13:26:23 ip-172-31-11-109.ap-south-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Jan 04 13:26:23 ip-172-31-11-109.ap-south-1.compute.internal httpd[26287]: Server configured, listening on: port 80
```

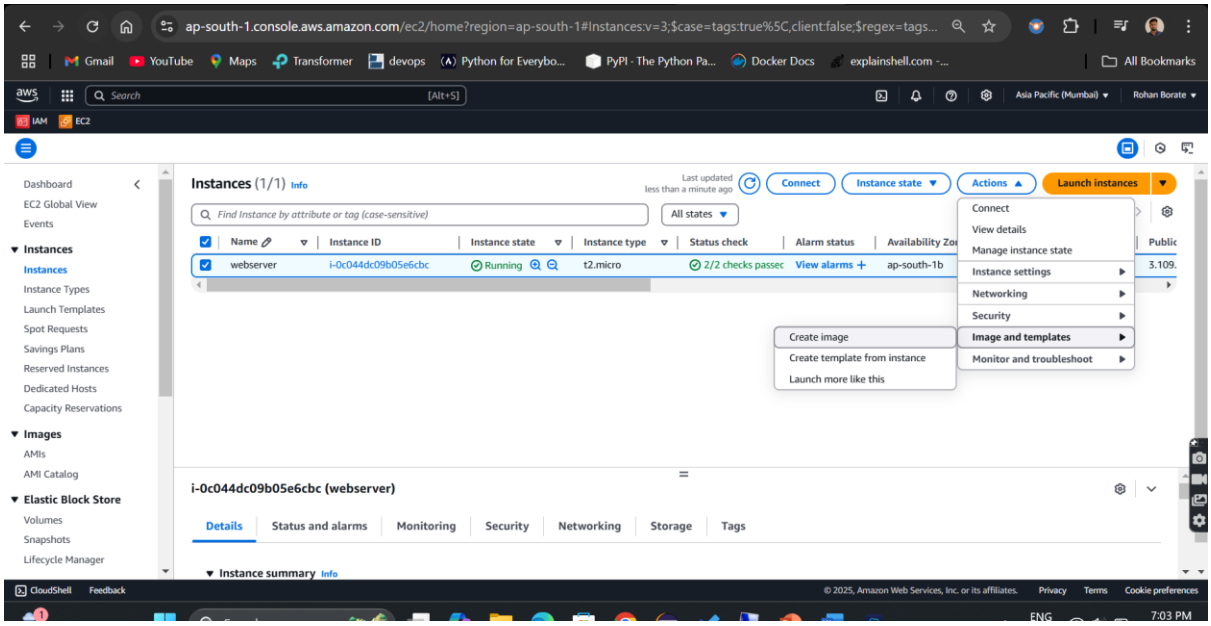
Check in the webserver is accessible through browser , aapche works on port no 80 ,so we have to enable this port In security groups inbound rules

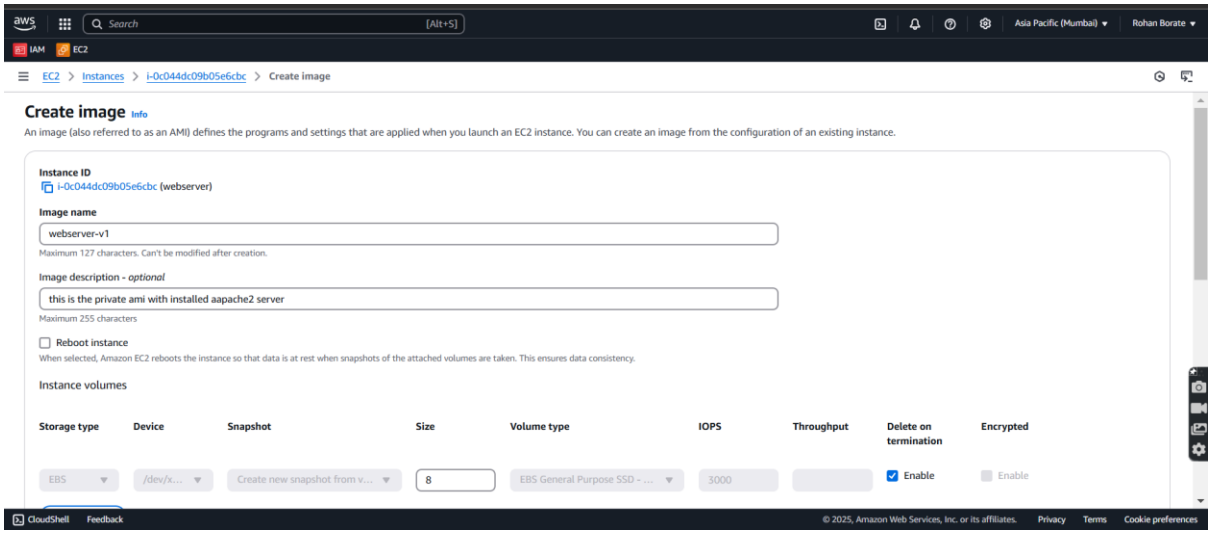


It is working now

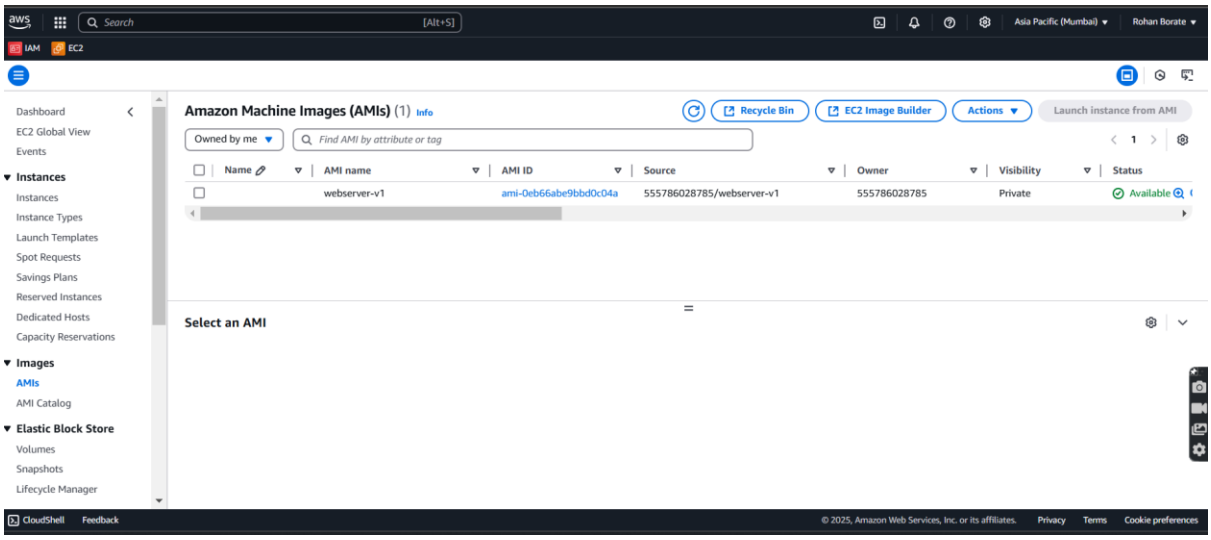


Now create the AMI for this instance ,

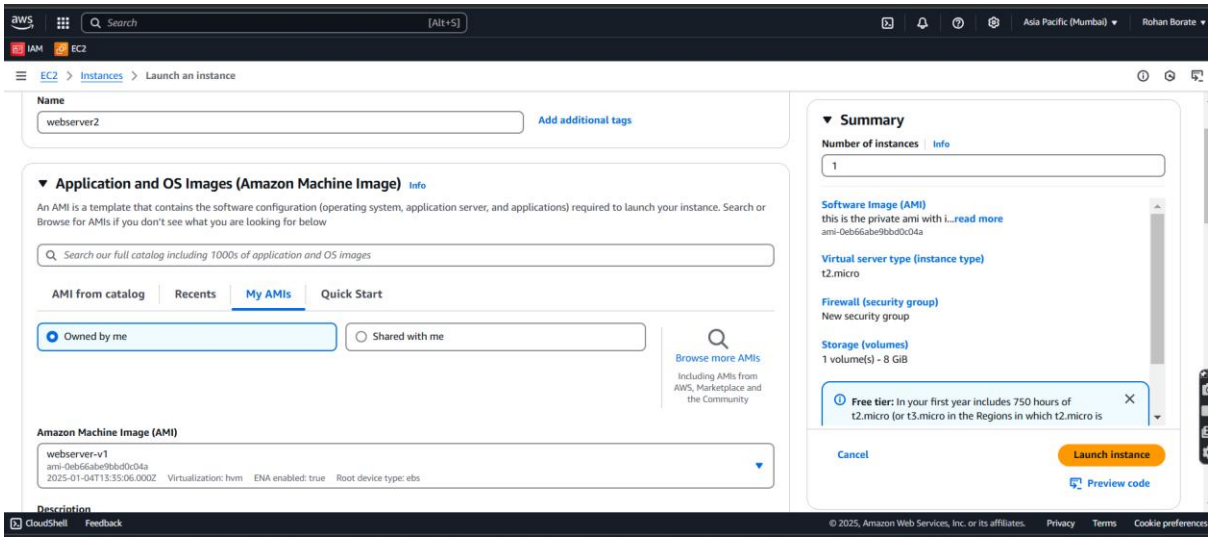




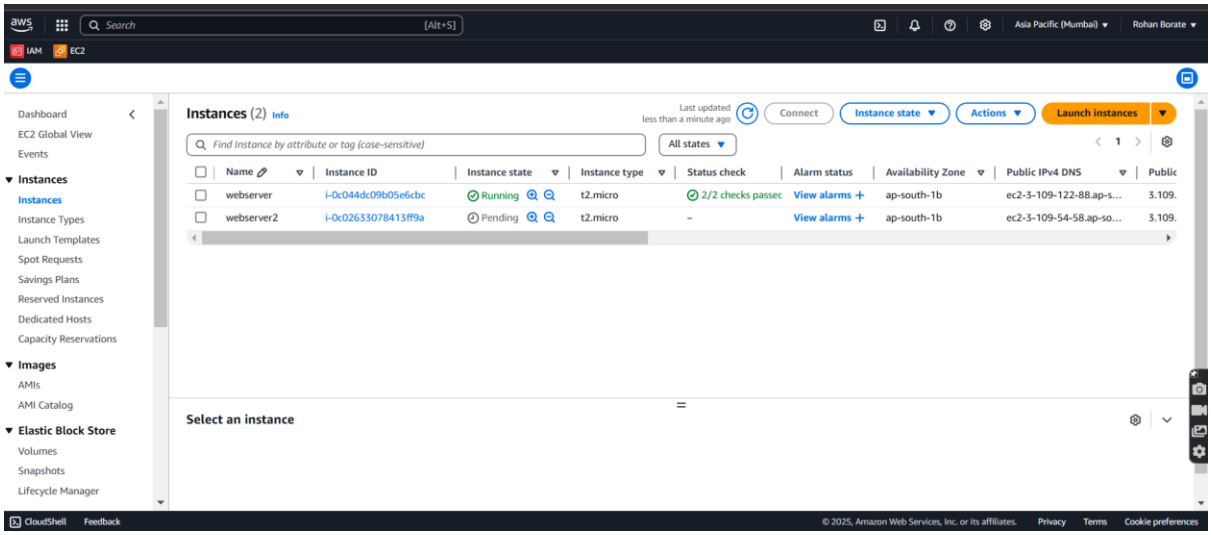
Check the image→ AMI , that ami is available



Now create the another instance using this AMI , named as webserver2 , select the created AMI (webserver-v1) and launch the instance



Instance is created



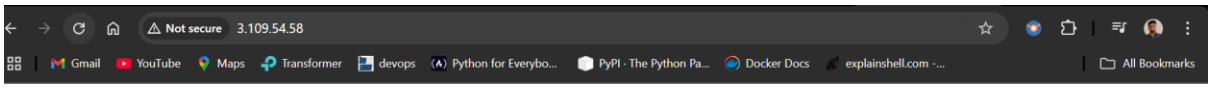
Then set the inbound rules and then check that the apache server is running or not

URL → public ip of instance : 80 (http port)
apach2 is running , because we are using the AMI we have created this instance ,

In AMI we already have an apache2 server installed.

Basically AMI is useful to create an multiple instances with the same configuration,

And also for the backup and recovery purpose



Note →

AMI's are the region dependent so if we create AMI in one region we cannot use this in another region , but it can be explicitly copied to any specific region

Steps to copy AMI → choose AMI want to copy → action → copy AMI → select region