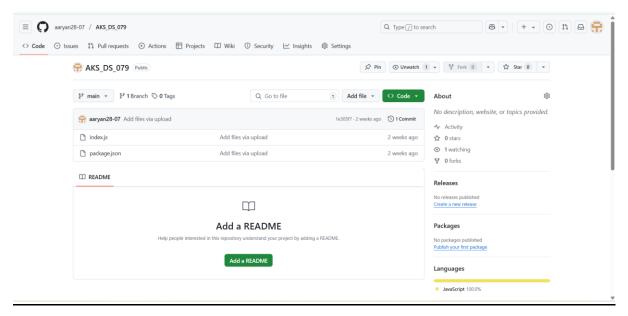
Assignment No:11

<u>Title:</u> Build scaling plans in AWS that balance the load on different EC2 instances.

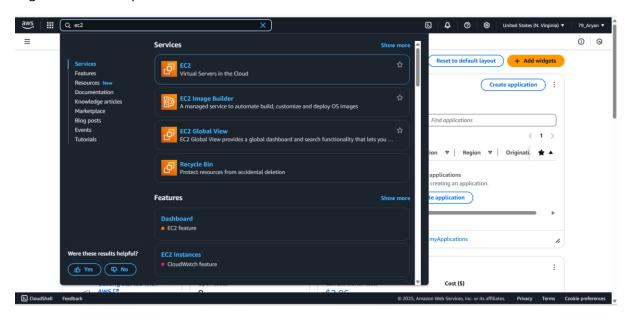
Step-1:

Upload required files to github



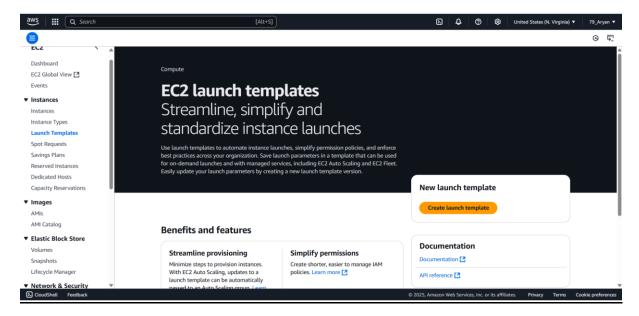
Step-2:

Log into AWS and open EC2.



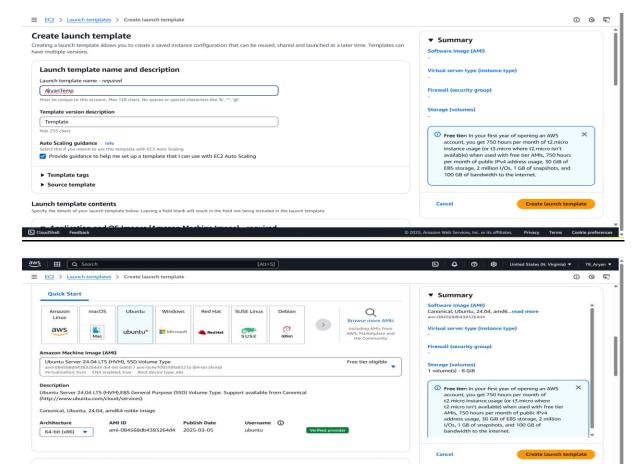
Step-3:

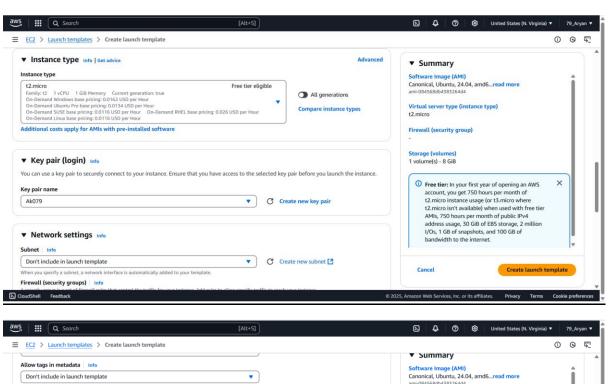
Open the launch templates from left side.

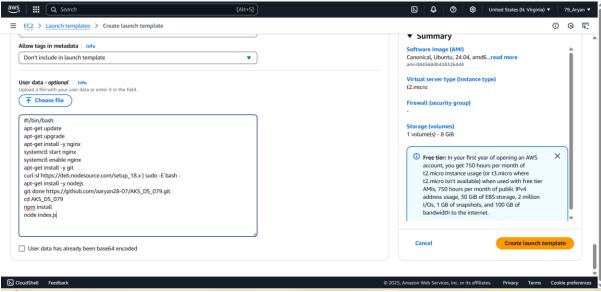


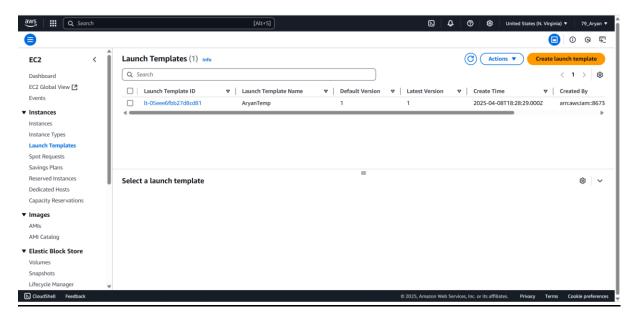
Step-4:

Give name and description to the template and then check Provide guidance to help me setup a template that I can use with EC2 auto scaling then open the quick start in the os image then select instance type, key pair and security group. After that additional details scroll down to user data and provide all the required commands then click on create launch template.



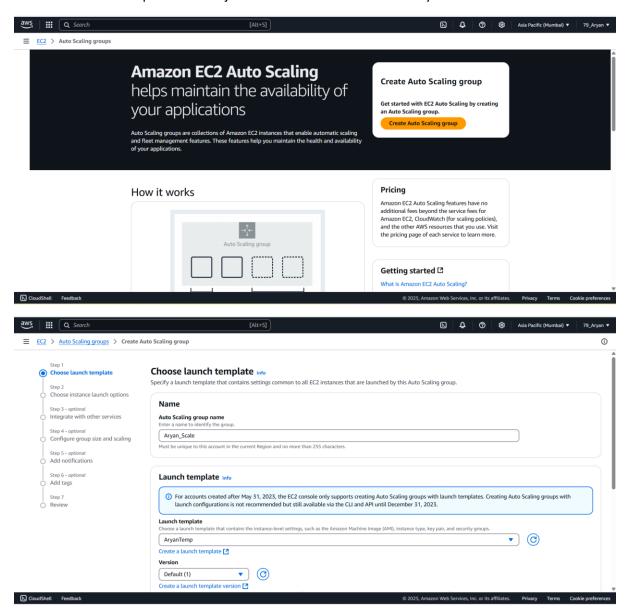


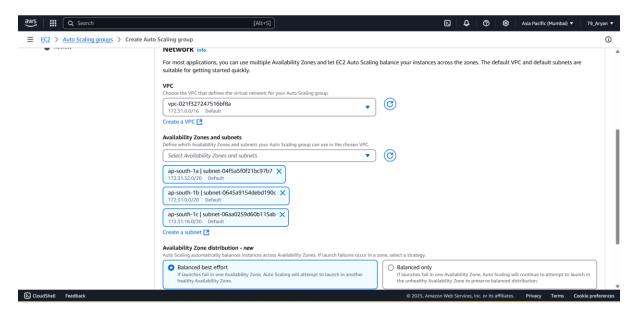




Step-5:

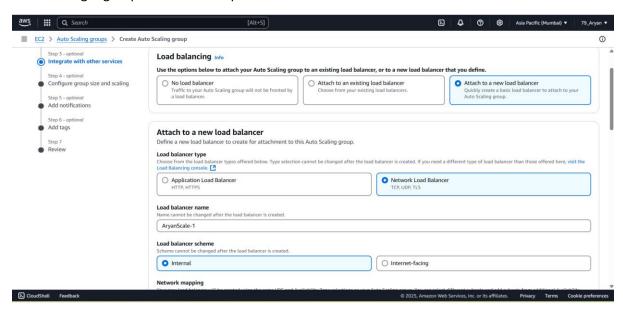
Next open the auto scaling groups and click on create auto scaling group. Then name the group then select the launch template that we just created then select availability zones then click next.

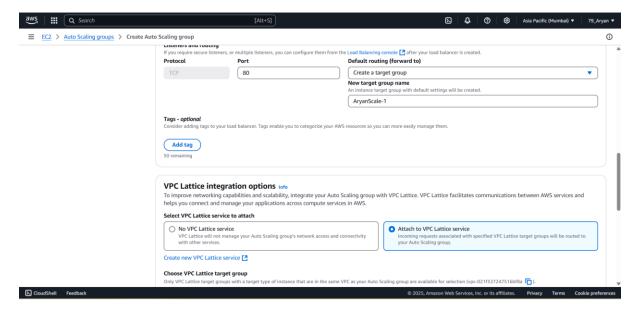




Step-6:

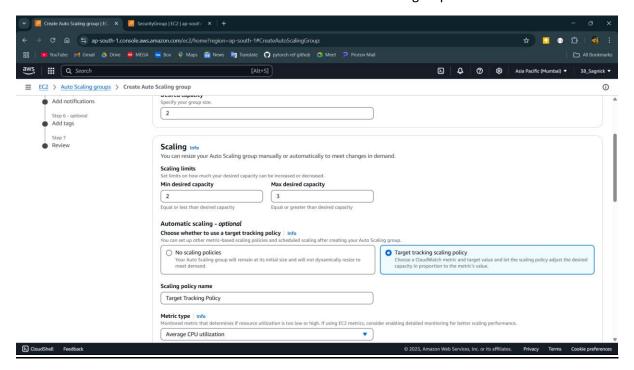
Here attach a load balancer then network layer balancer after that name the load balancer and create a target group then attach a vpc lattice service and next.

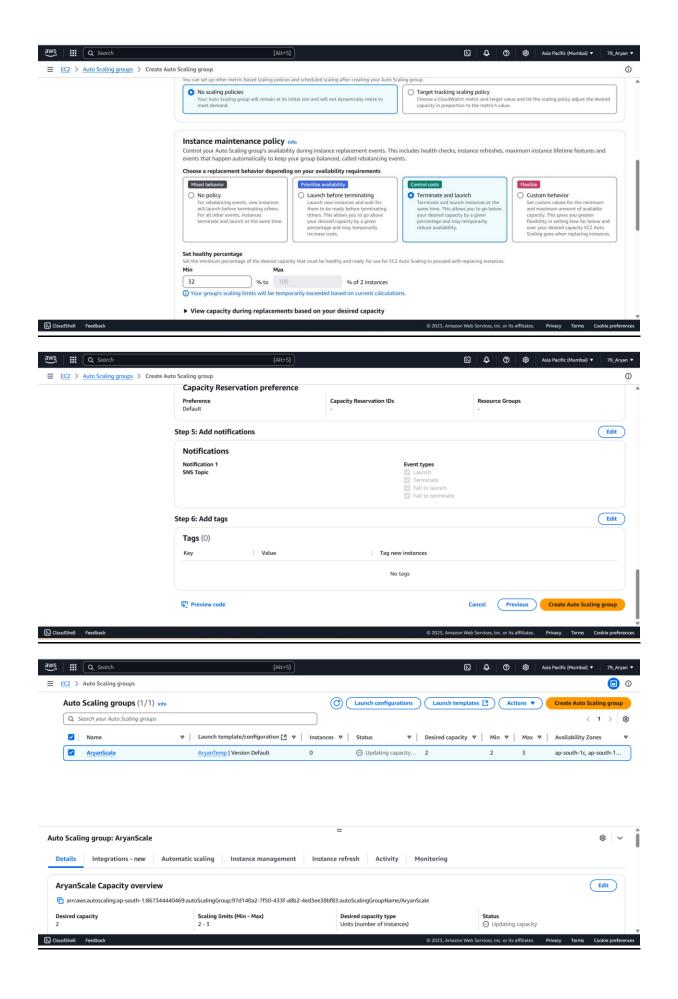




Step-7:

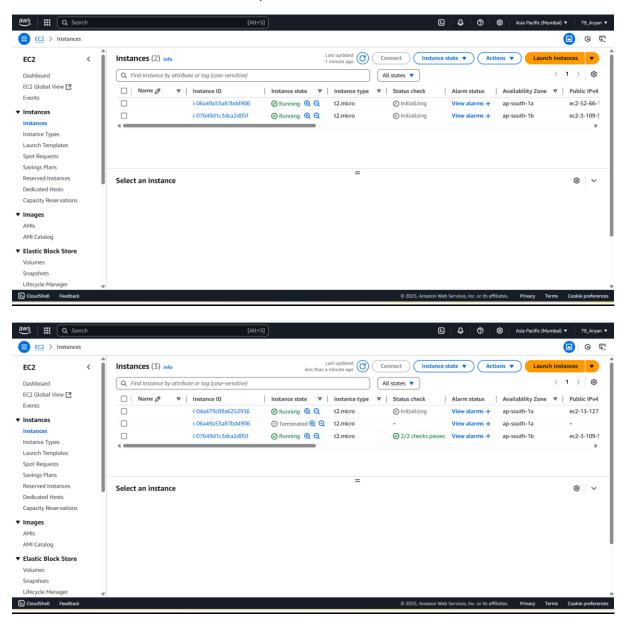
After that specify the desired capacity (here 2) then give min and max desired capacity and then select target tracking scaling policy and give the policy a name then select the policy for createing new server minimum load. Next and then review it and create the group.





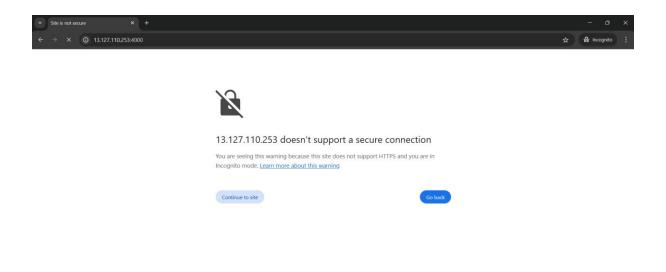
Step-8:

Now goto the instances and notice there are 2 instances automatically created. If we try to delete them new instances created automatically within few seconds.



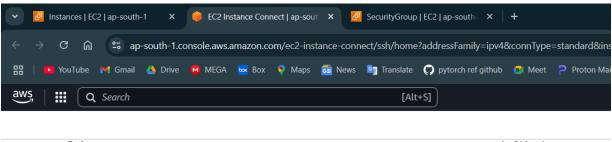
Step-9:

Copy public IPv4 of any of the running instances and open it to see the website opened.

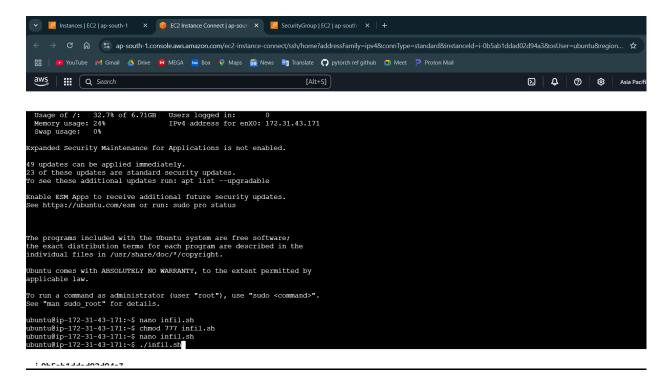


Step-10:

Now open both instances and write the below bash or shell code and run it in them. It will increase the load in the servers.







Step-11:

After a certain threshold the servers will over load and the auto scaling group will create a new server to handle the load. Open CPU utilization graph of the

