## Pandit Deendayal Energy University, Gandhinagar School of Technology

## **Department of Computer Science & Engineering**

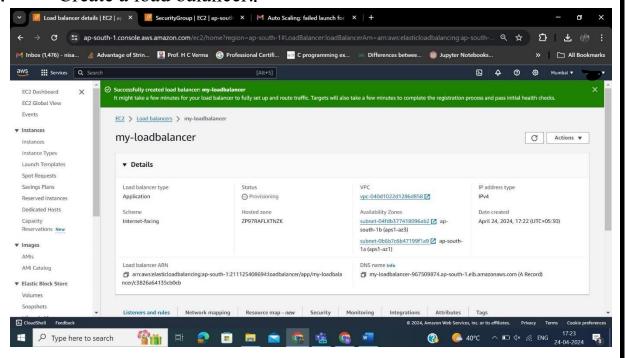
Cloud Computing Lab (20CP322P)

**B.Tech-Computer Science & Engineering (Sem-VI)** 

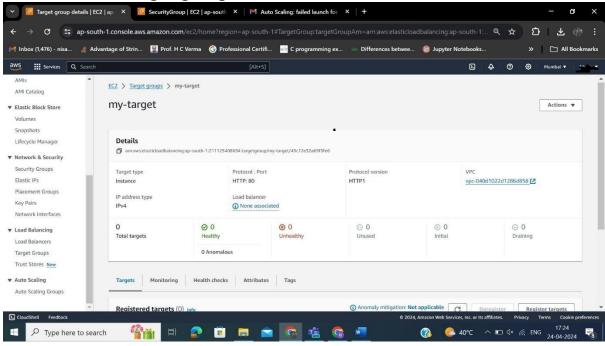
Lab 11 Assignment: Working on AWS Cloud.

Aim: Create infrastructure using auto-scaling, load balancer, SNS, cloud watch where you have to set the metrics for the CPU utilization. If CPU utilization is more than 70% for a 5 minutes than EC2 instance increases as per the requirement and if the CPU utilization goes below 40% then EC2 instances are removed one by one and send a notification to the email.

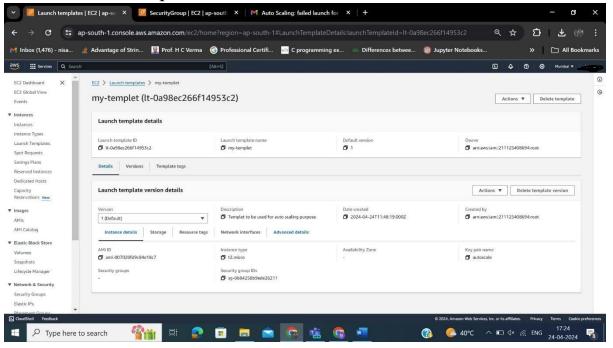
1. Create a load balancer:



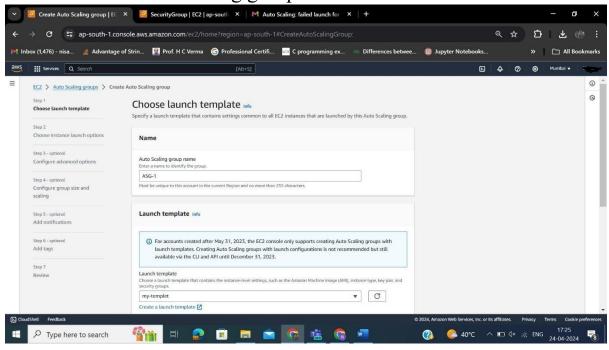
2. Create a target group:

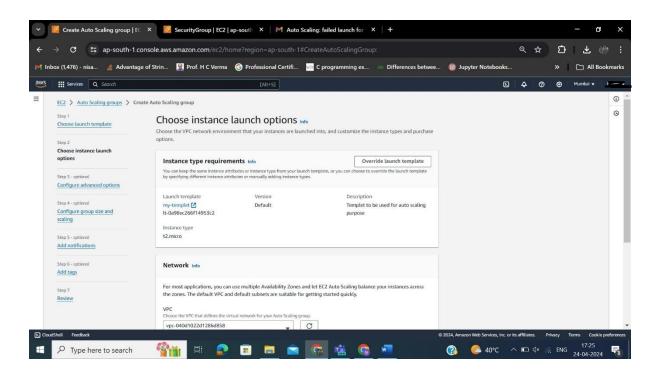


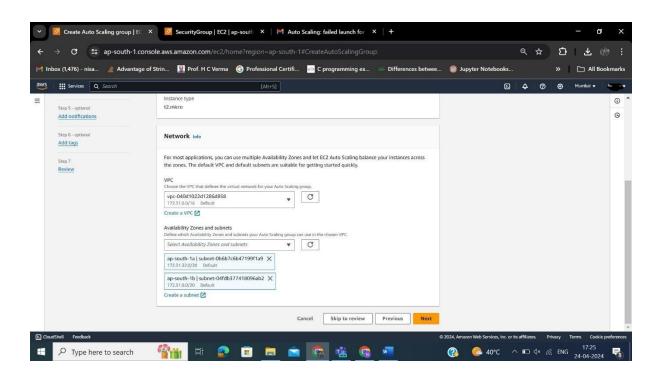
3. Create a template:



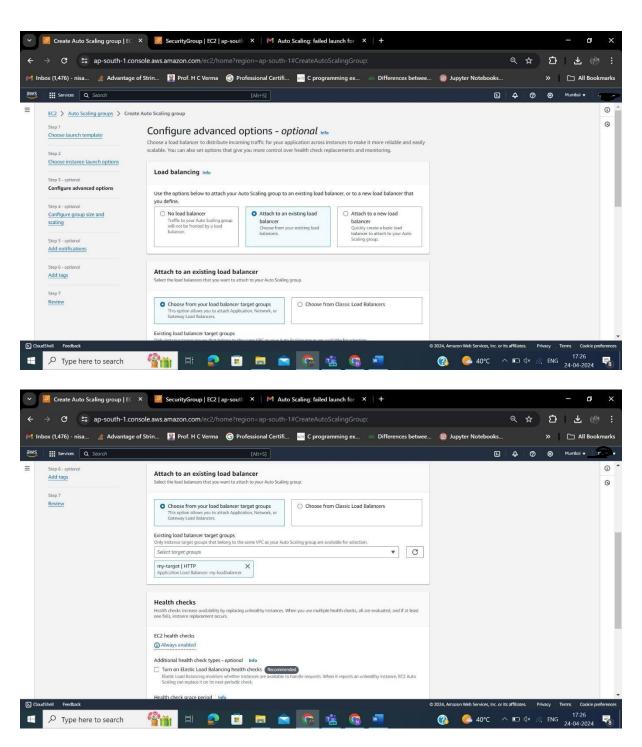
4. Create an auto scaling group:

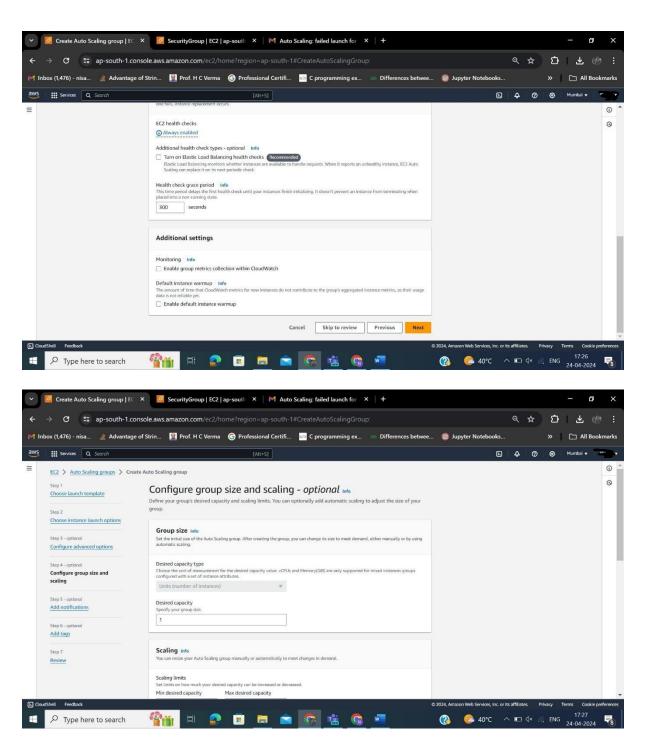


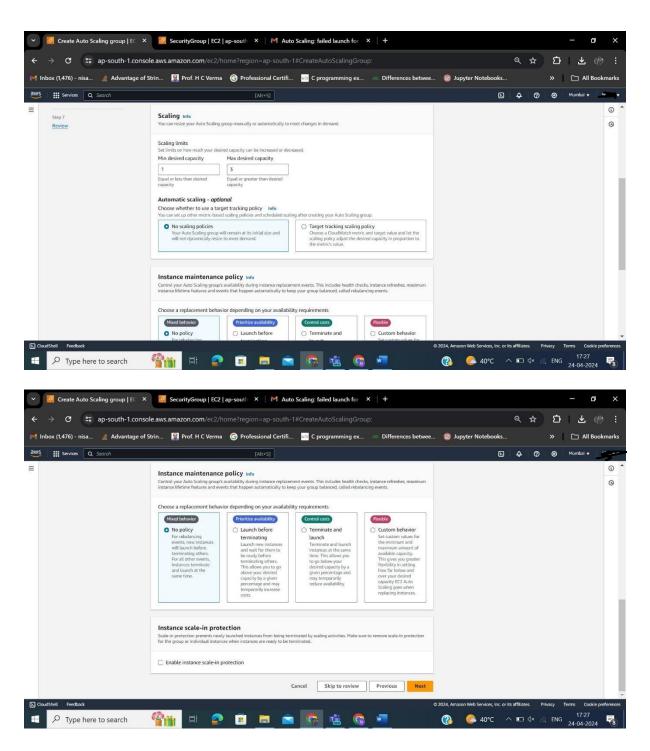


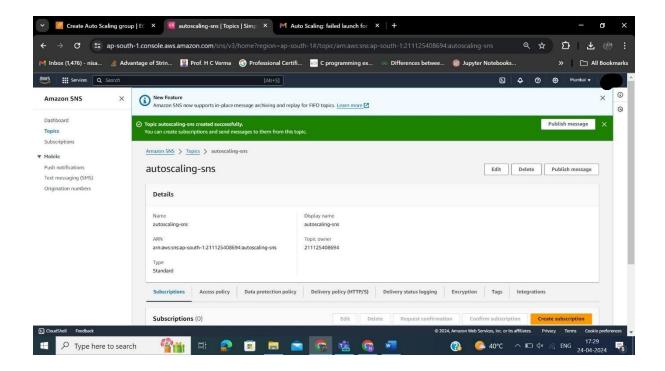


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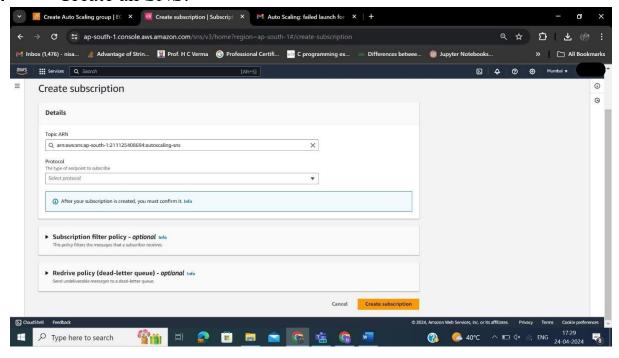


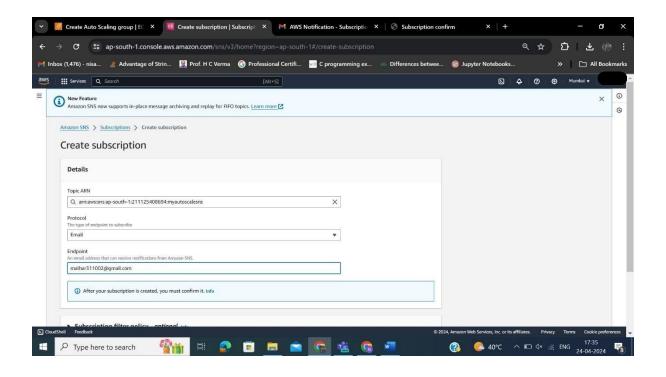


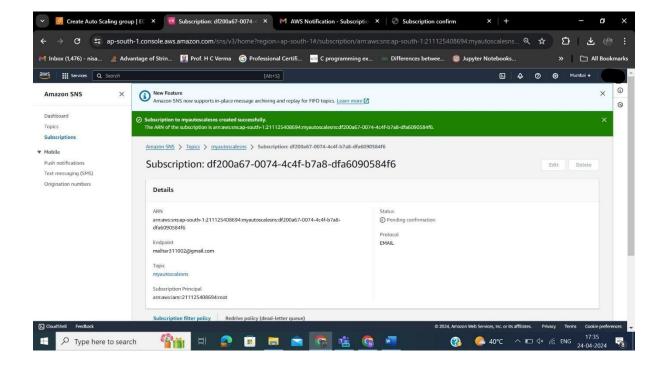




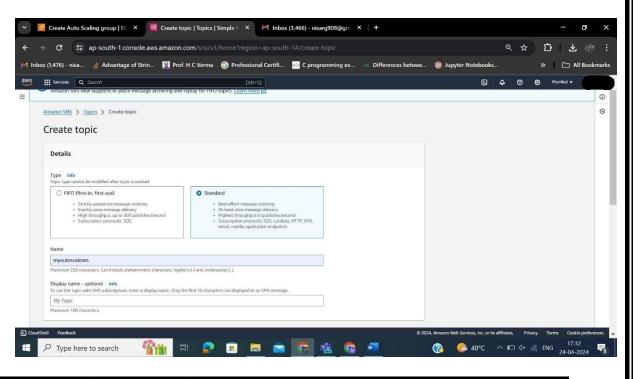
5. Create an SNS:

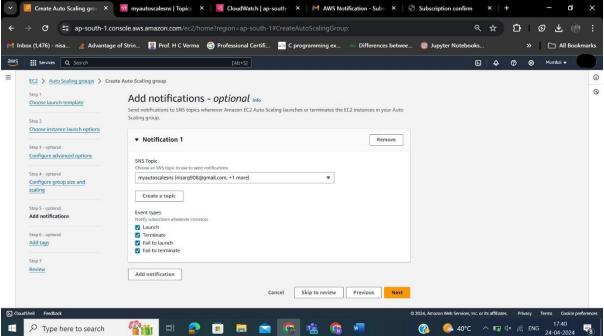


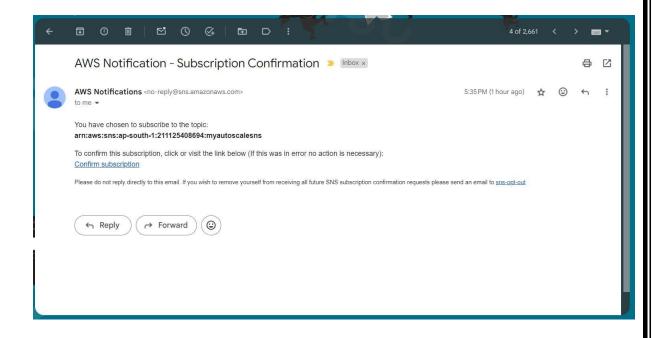




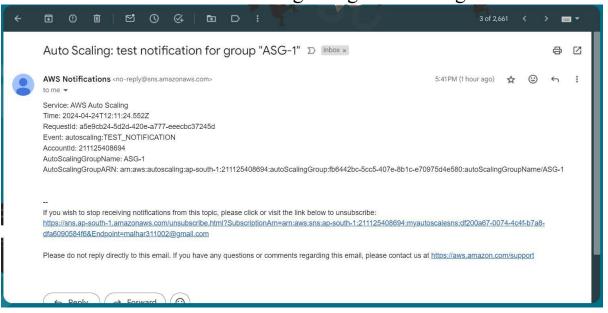
6. Create an SNS topic:



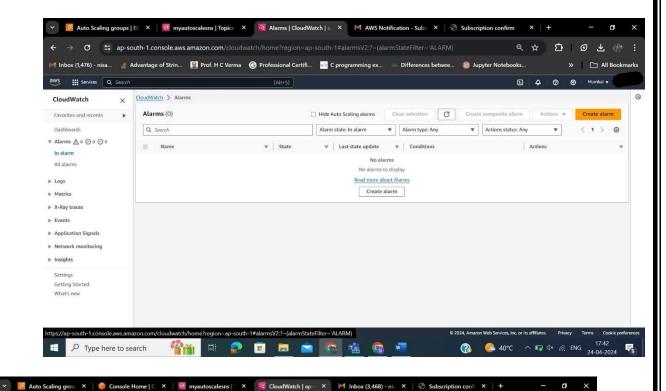


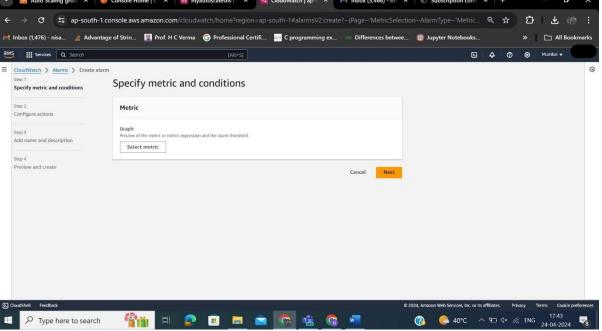


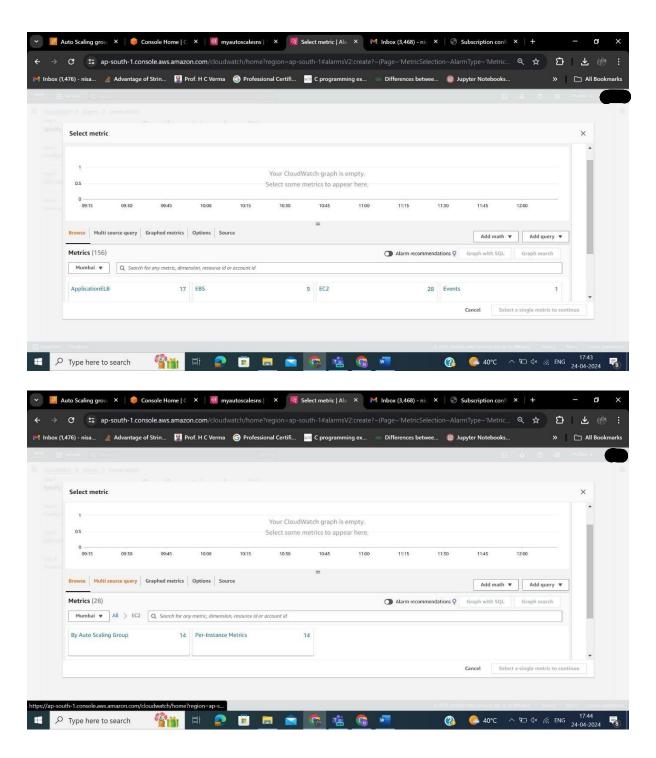
7. You will receive a mail regarding auto scaling

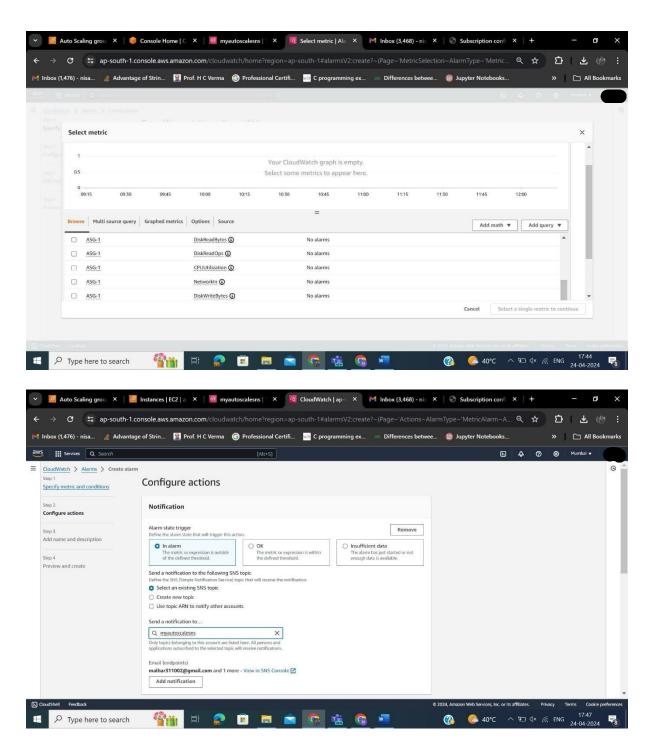


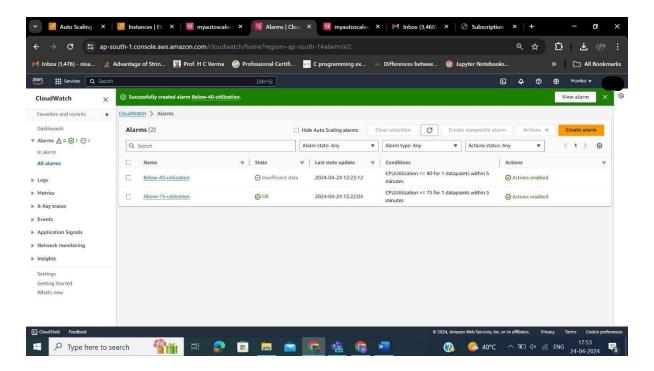
## 8. Create an alarm



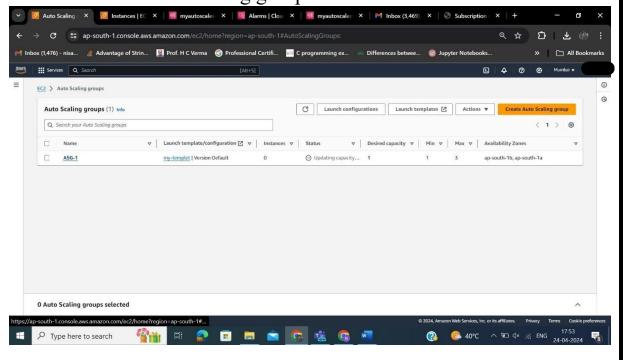


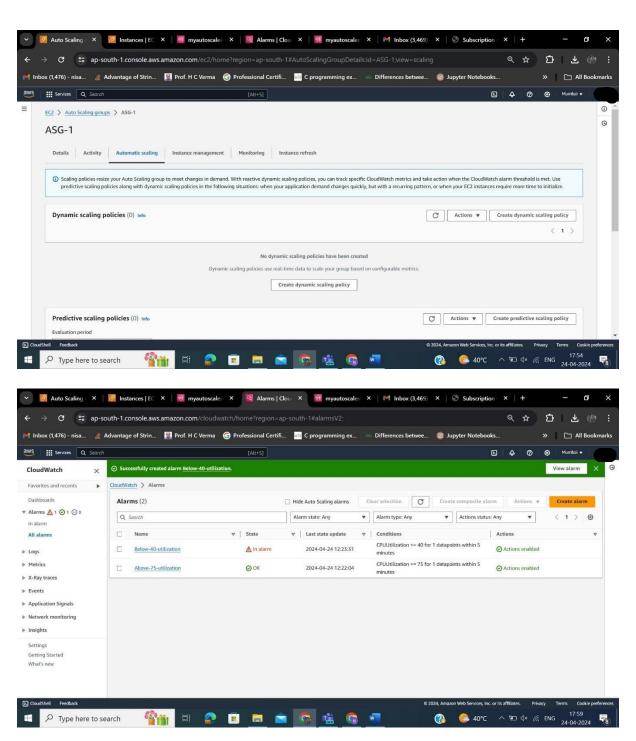


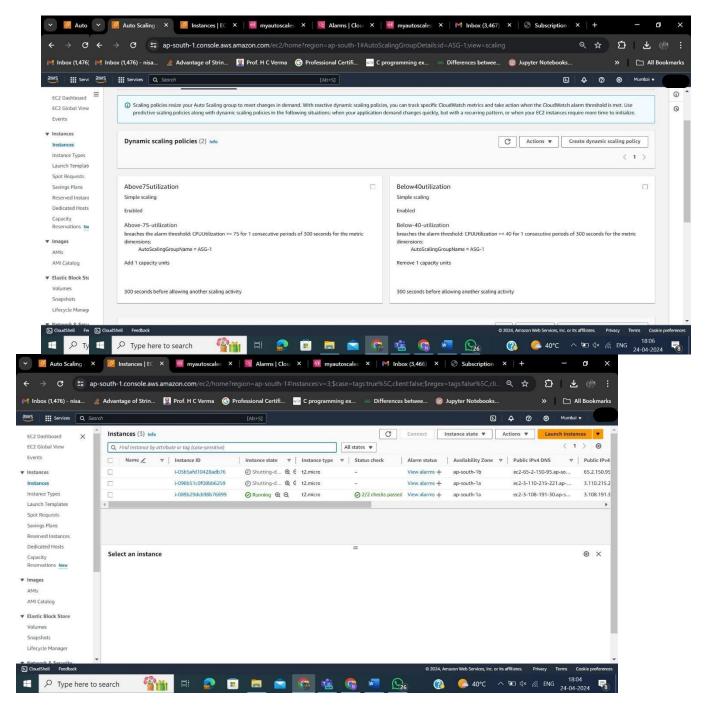




9. Check the auto scaling groups







- 10. The metrics are as follows:
- 11. As you can see, the auto scaling group has been applied in accordance to the given metrics and limits.