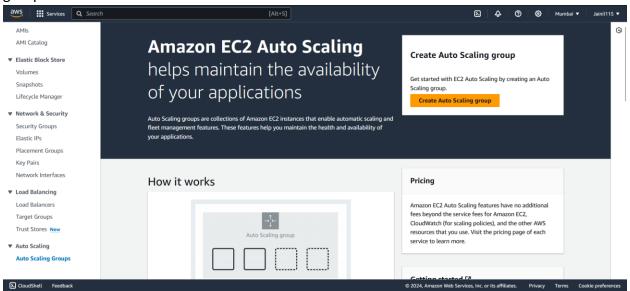
# TASK 5: Create an ASG with minimum 1 and maximum 2 instance requirement.

1. Use "Stress" command for increasing CPU utilization and it should create 2nd instance automatically

# **Steps to create Auto Scaling Group:**

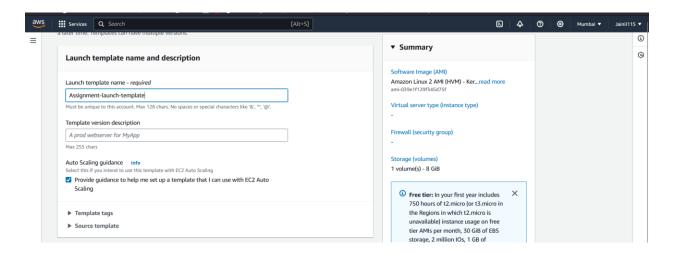
1. Click on Auto Scaling Groups from EC2 Dashboard. Then click on "Create Auto Scaling group".



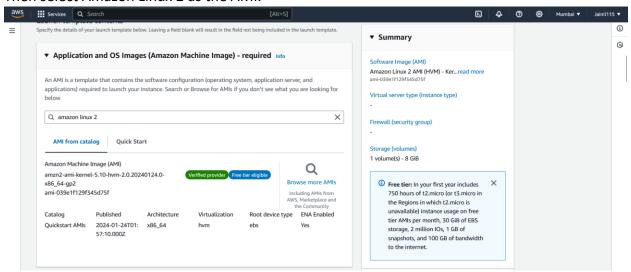
2. Then we need to enter ASG name and then click on "create a launch template".



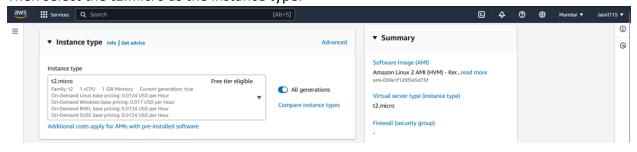
3. Then create launch template by first entering the template name "Assignment-launch-template"



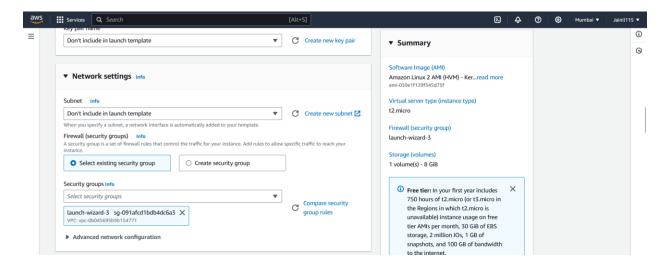
4. Then select Amazon Linux 2 as the AMI.



5. Then select the t2.micro as the instance type.

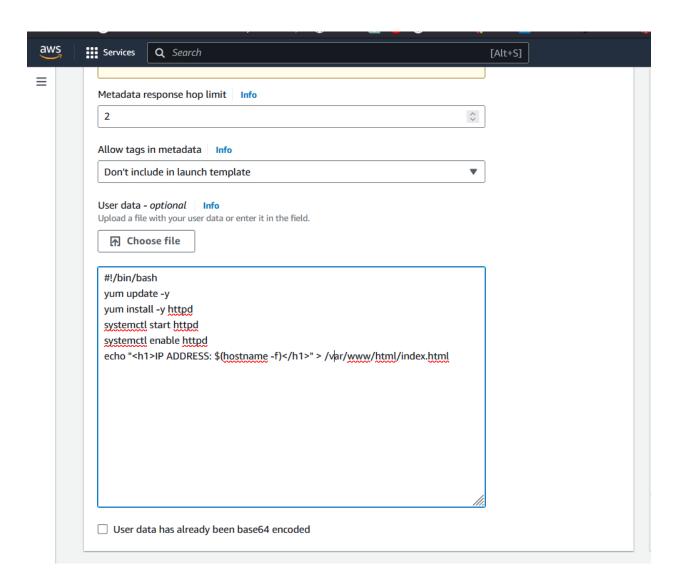


6. No need create key pair for this task, select launch-wizard-3 as the security group.

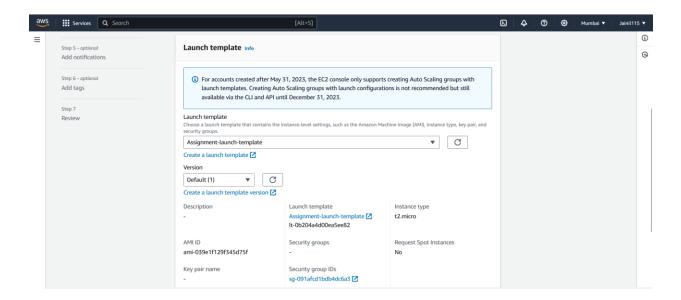


7. Keep everything as default, then add the following as user data:

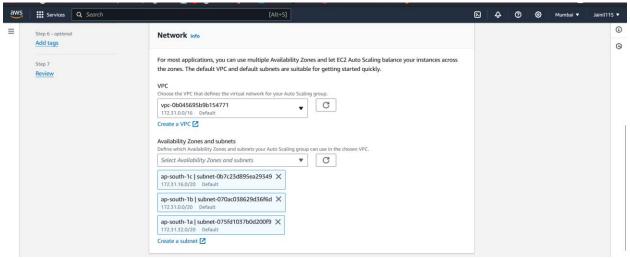
```
#!/bin/bash
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd
echo "<h1>IP ADDRESS: $(hostname -f)</h1>" >
/var/www/html/index.html
```



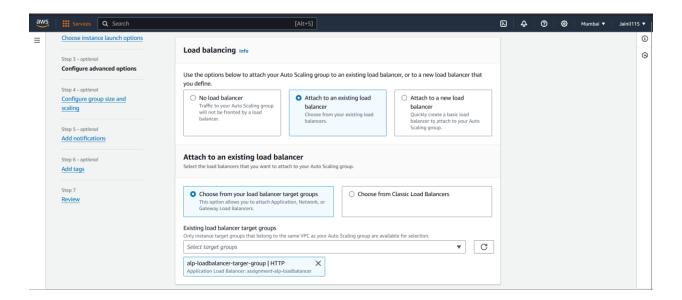
8. Then click on create launch template to create this template, Now select Assignment-launch-template in Launch Template, then click on next.



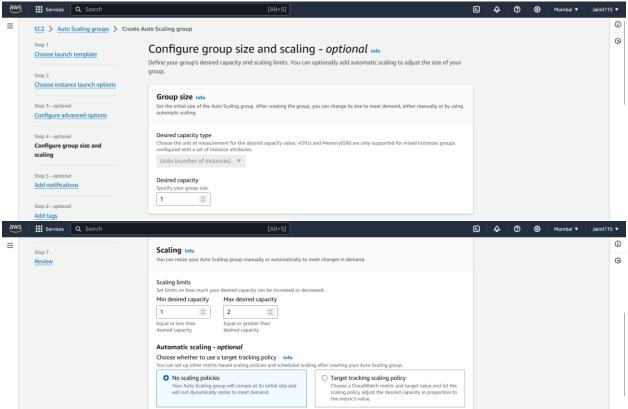
9. Now inside Network select multiple availability zones, Then click on next.

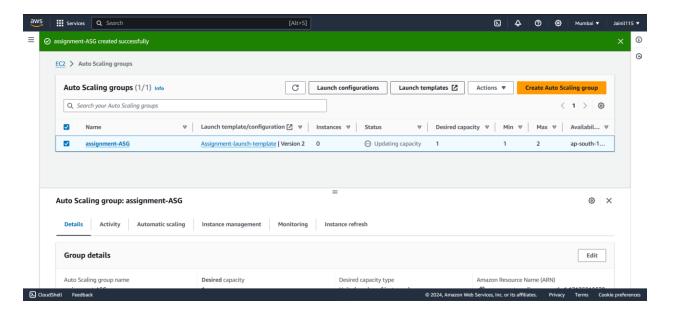


10. Now inside load balancer choose Attach to an existing load balancer. Select alploadbalancer-targer-group from existing load balancer groups. Then click on next.



11. Now desired group size should be 1 and set minimum group size to 1 and maximum group size to 2, then click on skip for review. Then click on create Auto Scaling group.





## Using stress command:

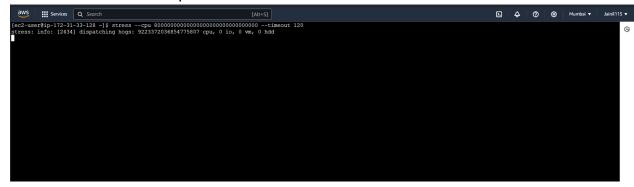
- 1. To install stress connect to ec2 instance and enter the following command:
  - sudo amazon-linux-extras install epel



- sudo yum install stress

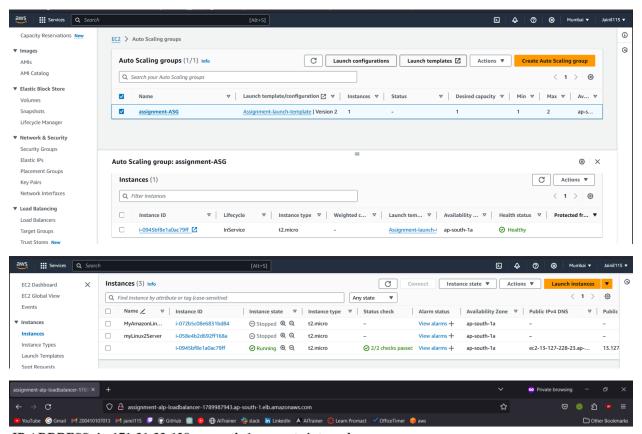


- 1. To run stress command in order to max out CPU utilization use the following command:
  - sudo stress --cpu 80000000000000000 --timeout 120



### **Results of stress command:**

#### Before:



IP ADDRESS: ip-171-31-33-128.ap-south-1.compute.internal

#### After:

