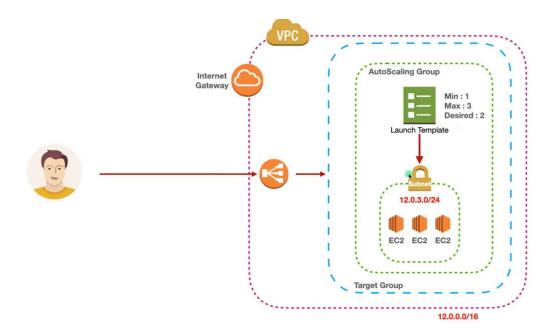
# Cloud Computing TA - 1

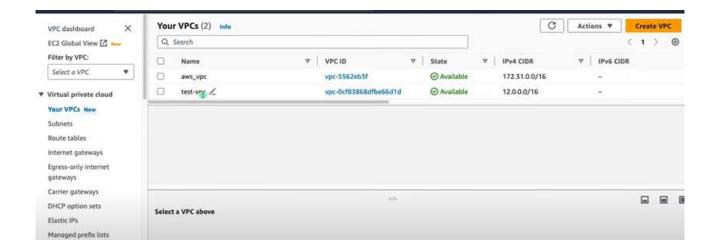
Name: Dhanshree Dharpure

Roll no.: 03 Batch: B1

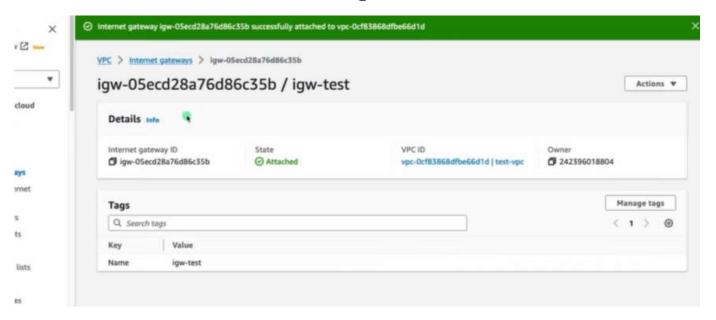
# Building a Fully Scalable and Secure AWS Infrastructure from scratch.



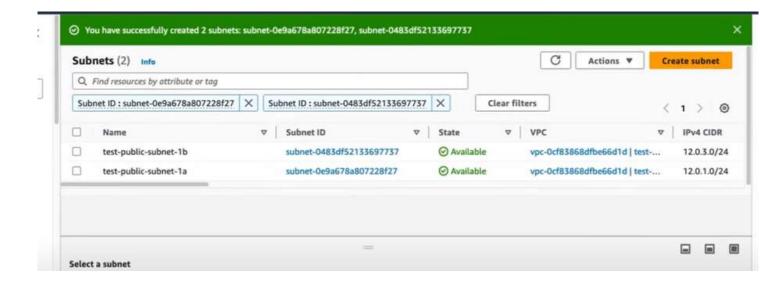
### Creating VPC



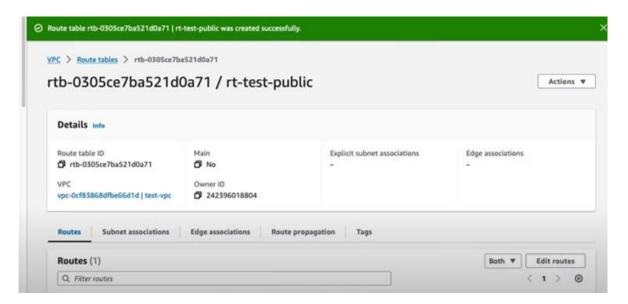
Created an internet gateway and attached it to vpc for internet traffic inside the vpc.



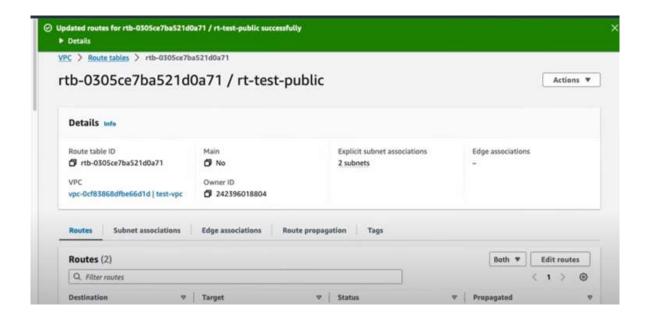
Created subnets in 2 availability zones.



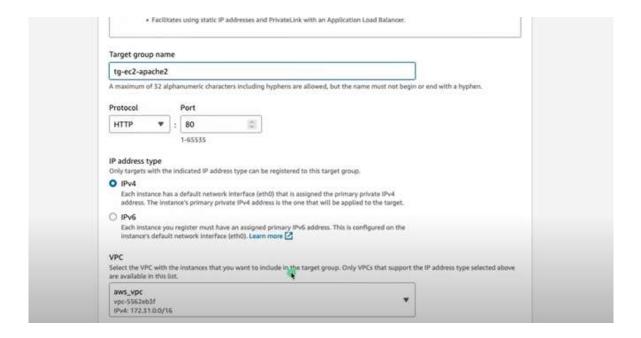
#### Created route table names as rtb

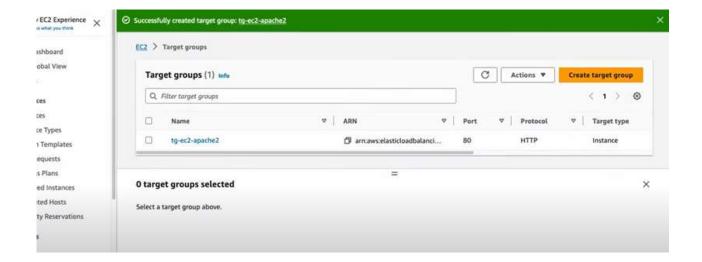


Updated the routes for internet gateway.

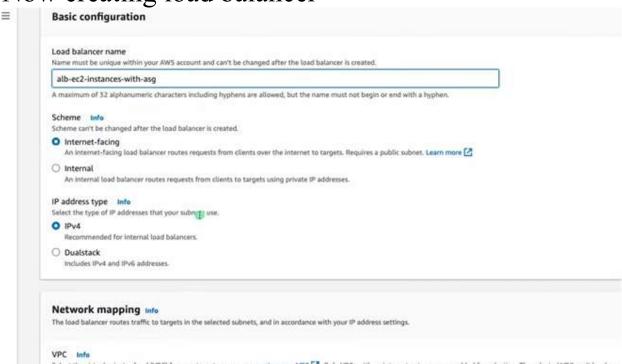


### Now configuring the target group for load balancer

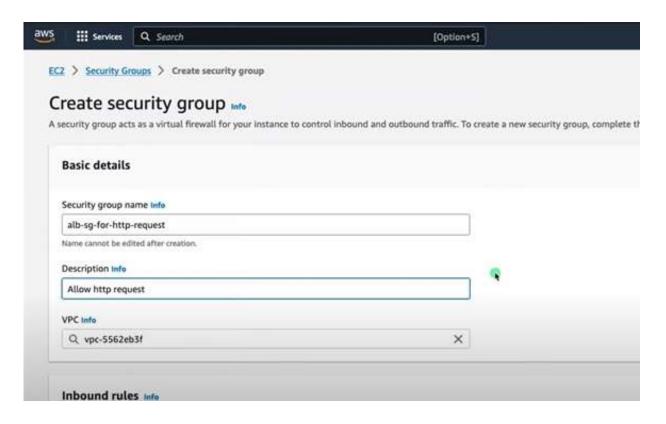


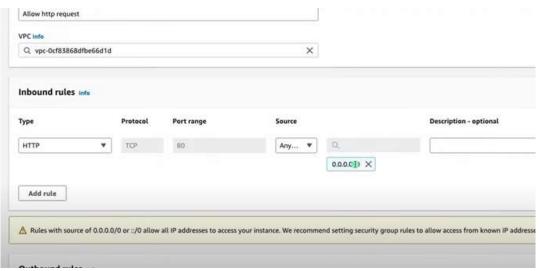


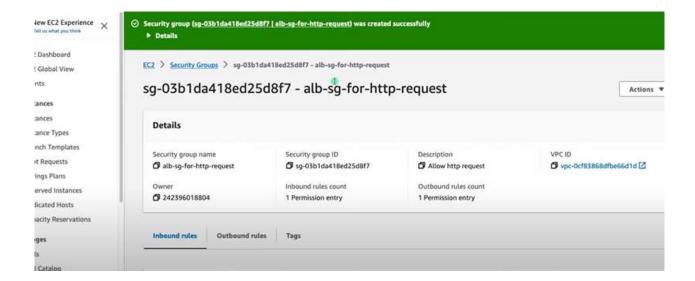
Now creating load balancer



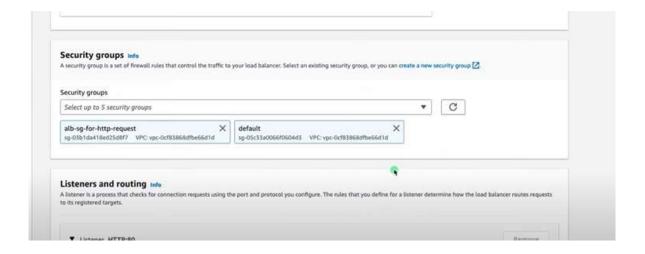
For load balancer creating customized security group



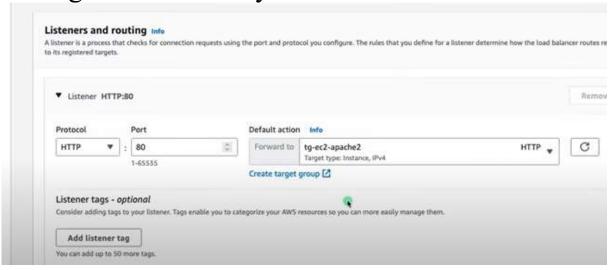




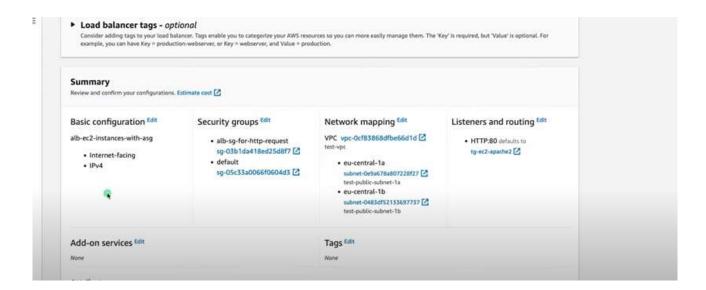
### Attaching the customized security group to load balancer



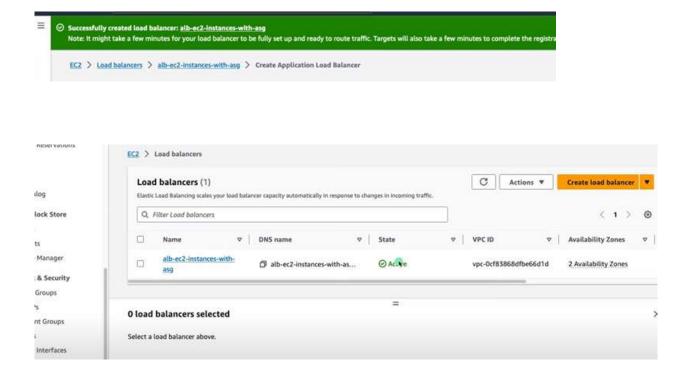
Setting listeners for my load balancer



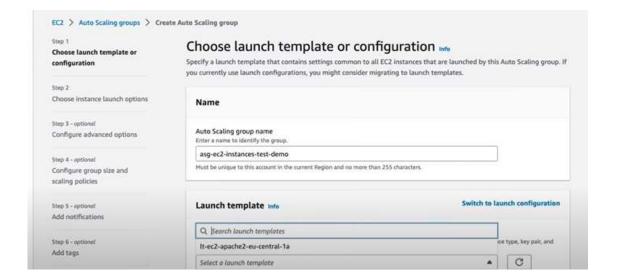
### Summary of load balancer



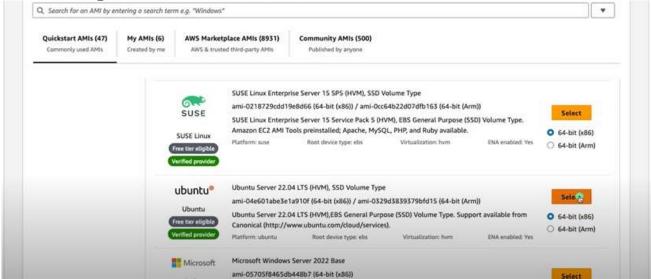
### Load balancer created successfully



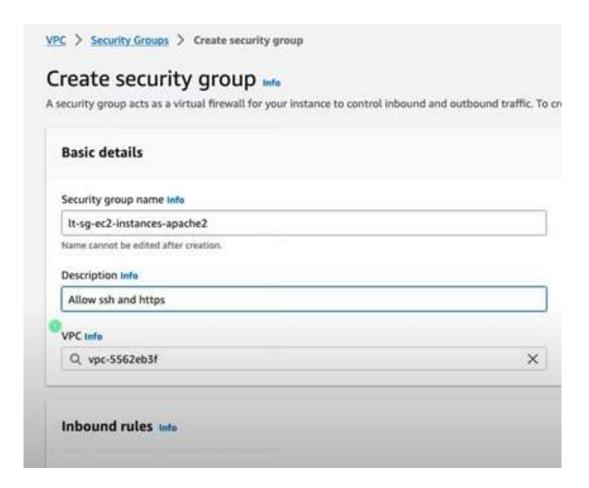
Now configuring the autoscaling groups named as Asg-ec2-instances-test-demo

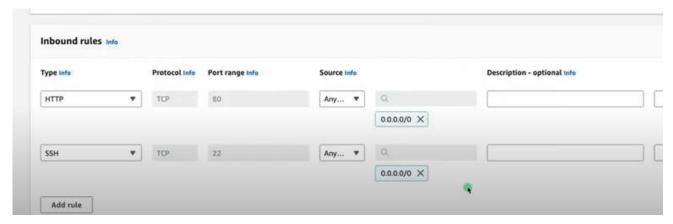


Selecting ubuntu ami



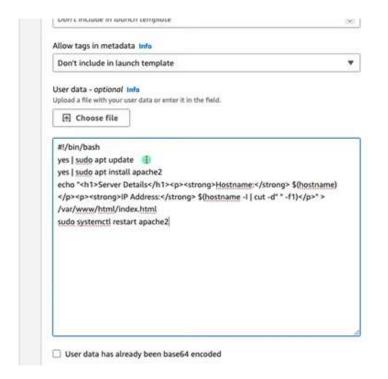
Creating customized security group for autoscaling groups which allow ssh and http traffic

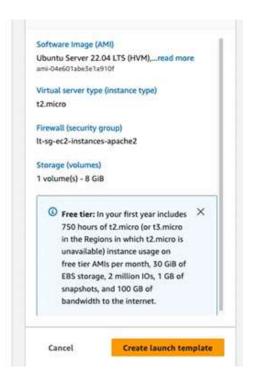






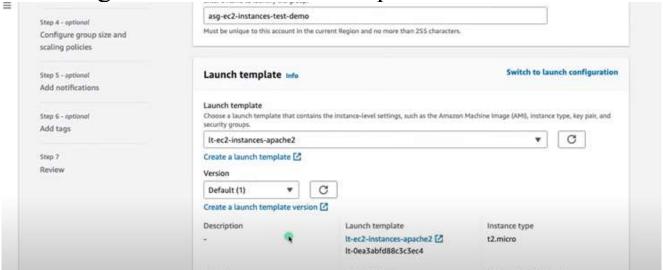
# Now creating template for autoscaling group with Initial scripts to run for ec2 instances.



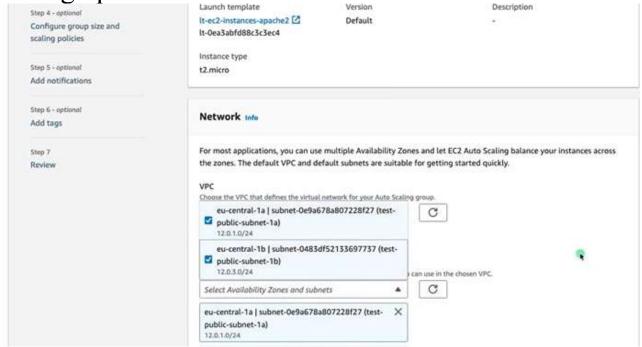




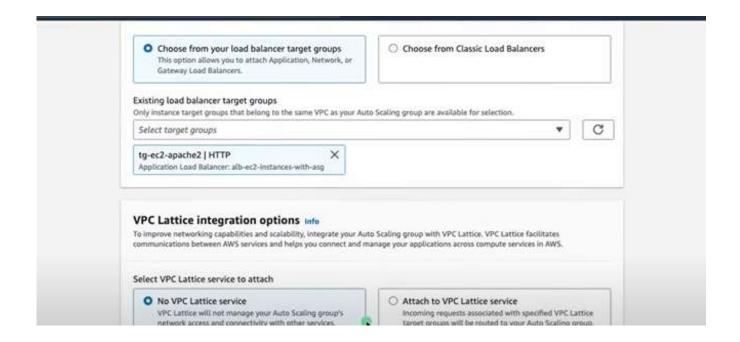
Choosing the created launch template



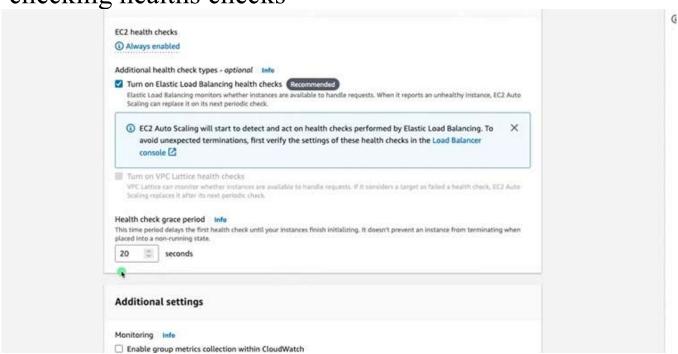
Setting up subnets



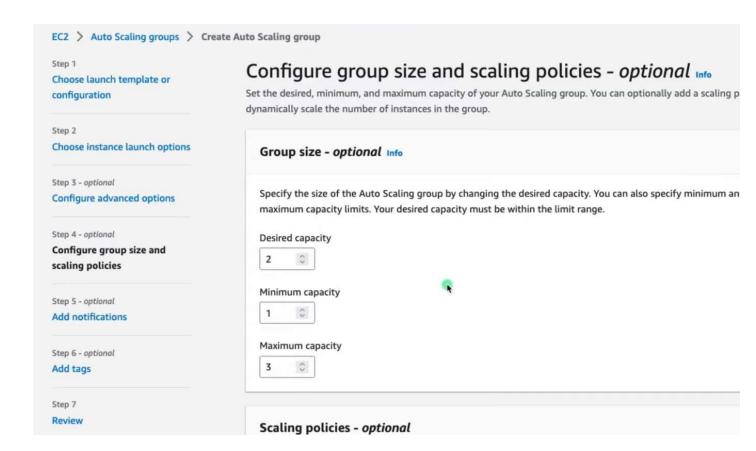
Attaching load balancer to autoscaling groups



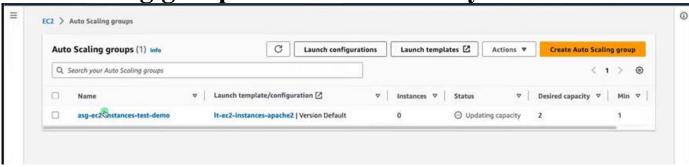
checking healths checks

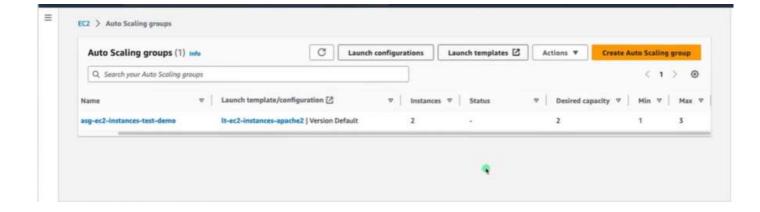


### Configuring the capacity



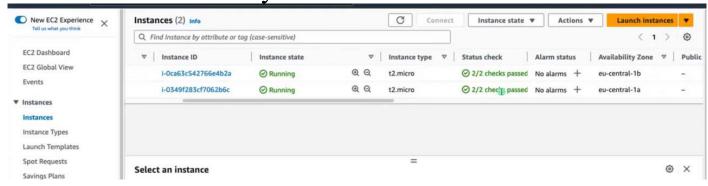
Auto scaling group created successfully





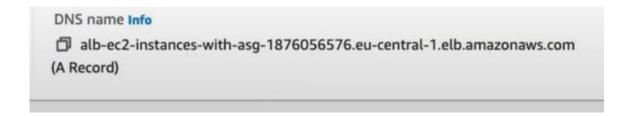
Auto scaling successfully lauched and it created desired

instances automatically.

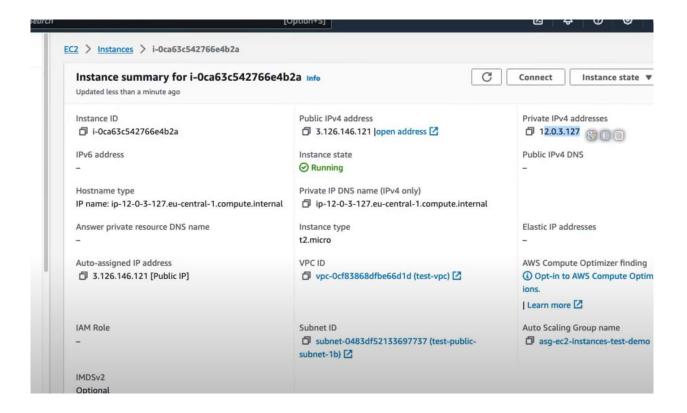


### Checking if the load balancer is setup correctly or not

### Accessing the servers using dns of load balancer

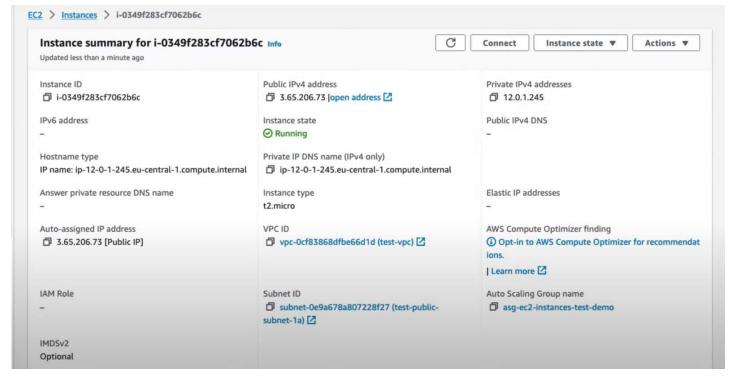


#### Private id of instance 1 is 12.0.3.127





#### Private id of instance 2

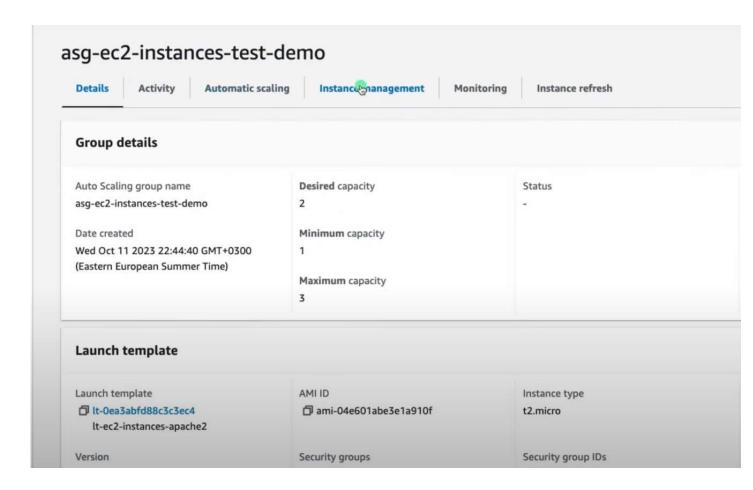


## **Server Details**

**Hostname:** ip-12-0-1-245

**IP Address:** 12.0.1.245

### Now checking the autoscaling group



Even if I manually terminated the ec2 instance it will automatically relaunch to maintain the desired capacity here 2

