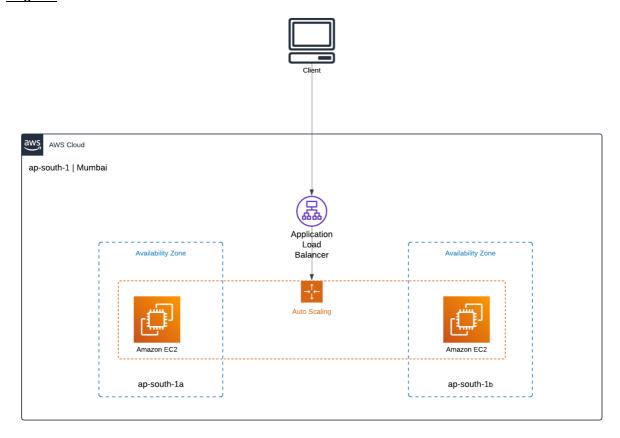
Project: Load Balancing with Auto Scaling in Multi-AZ

Key Takeaways:

- Deployed Application load balancer with target groups pointing to Auto scaling group in Multi-AZ
- configured security groups of ALB & ASG -EC2 to allow inbound from internet and ALB's Security Groups respectively.
- enabled auto scaling target tracking policy to auto scale out and in with appropriate min, max & desired no. of instances.

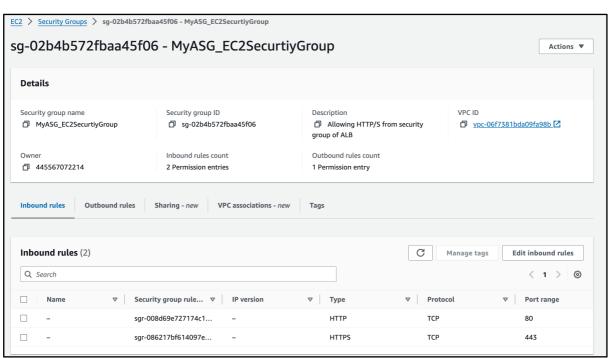
Diagram:

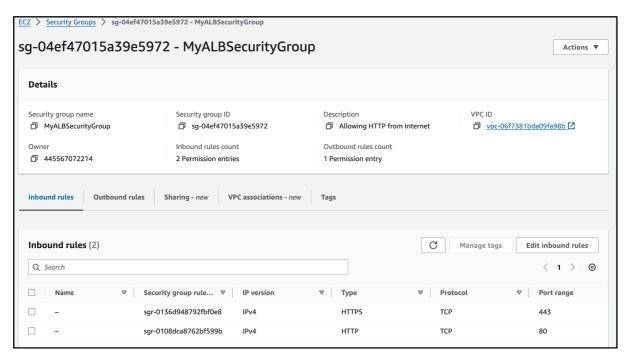


Workflow:

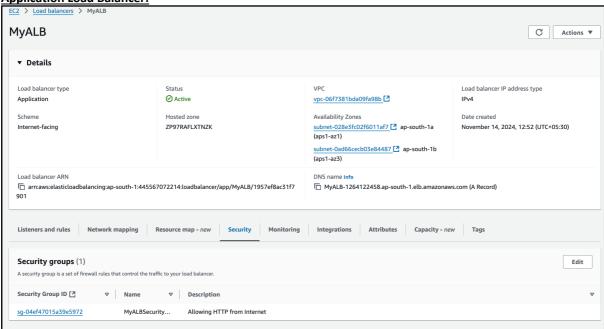
Security Groups



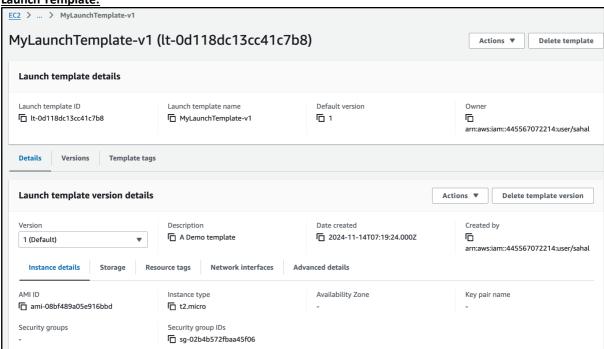




Application Load Balancer:



Launch Template:



EC2 User data Script:

#!/bin/bash

Use this for your user data (script from top to bottom)

install httpd (Linux 2 version)

yum update -y

yum install -y httpd

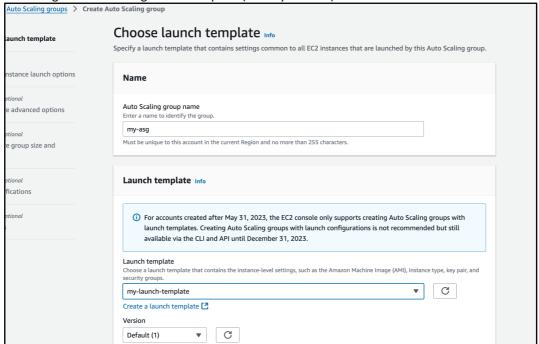
systemctl start httpd

systemctl enable httpd

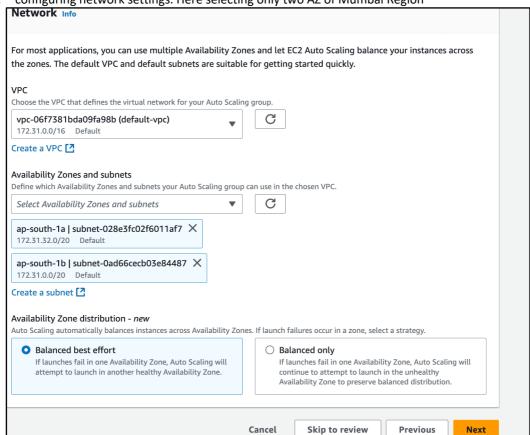
echo "<h1>Sahal's: Instance hostname: \$(hostname -f)</h1>" > /var/www/html/index.html

Auto Scaling Groups:

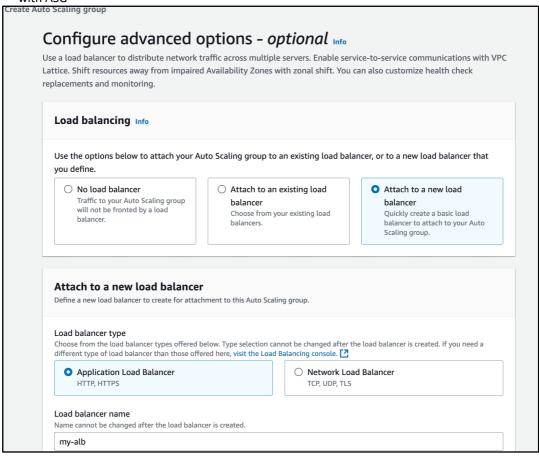
1. naming ASG & choosing launch template (already created)



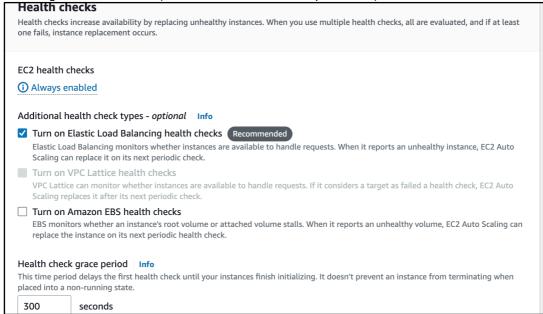
2. configuring network settings. Here selecting only two AZ of Mumbai Region



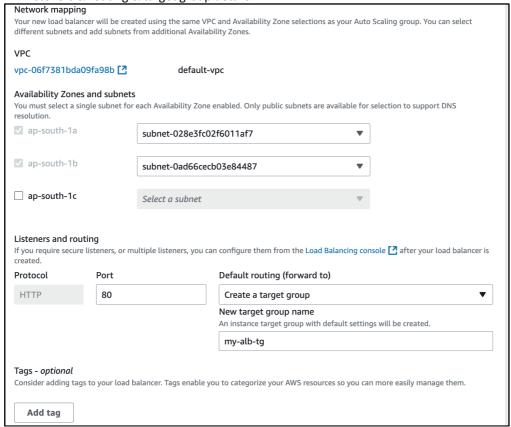
3. creating & attaching ALB | although we can manually create load balancer and create target groups with ASG



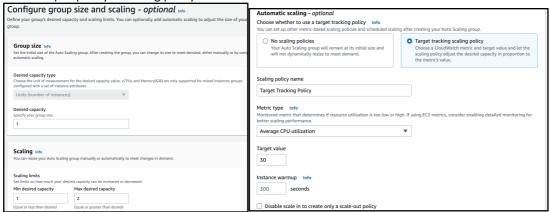
4. enabling ALB health checks (to auto terminate unhealthy instances)



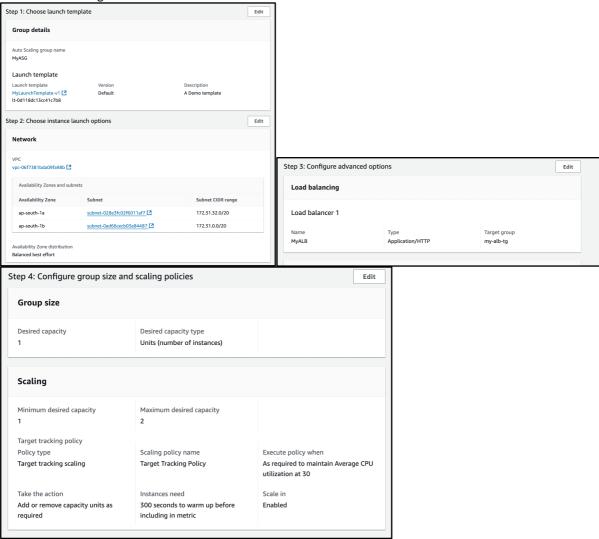
5. ALB listeners & routing & target group details



Group capacity & scaling policy



7. Reviewing



Output:

