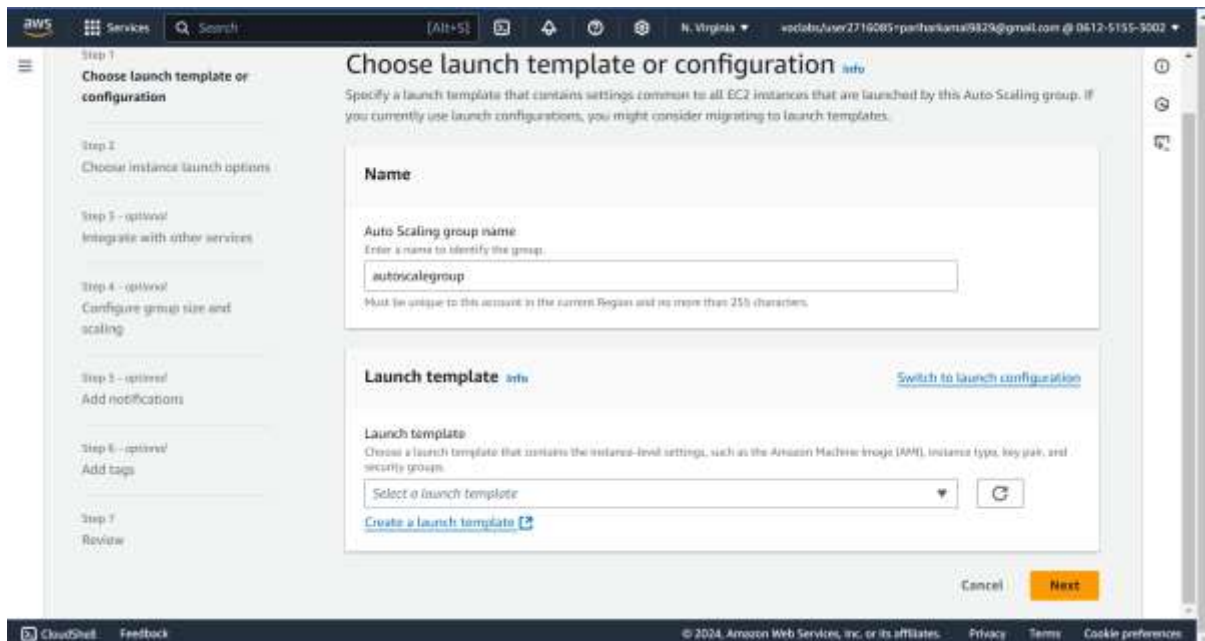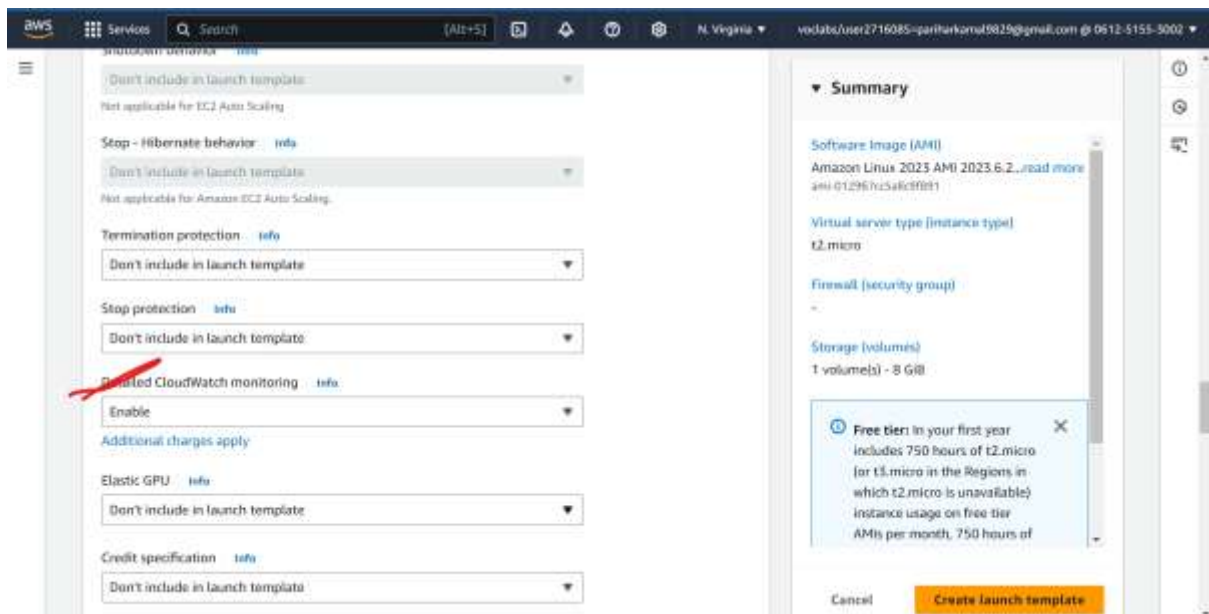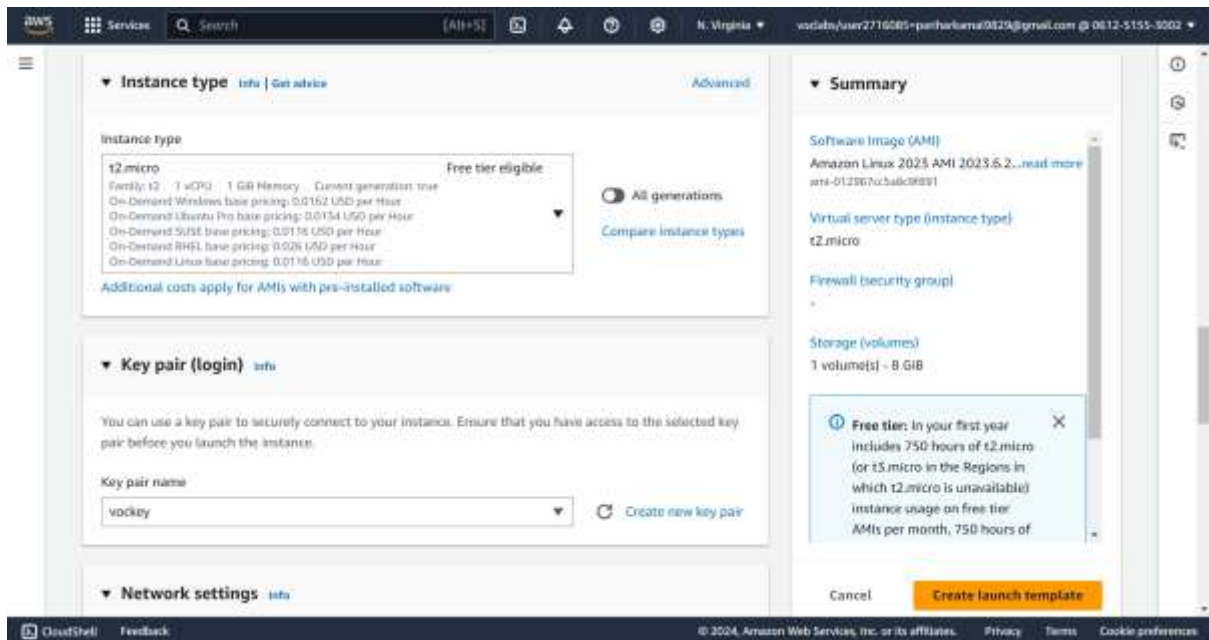Ca-3 AWS

Kamlesh parihar 12116423 Roll No. 31

Qu: your company host a web application on a single ec2 instance the application is used by customers worldwide but during peak hours the signal instance struggles to handle the load resulting in occasional downtime you are tasked with designing a highly scalable and available to handle traffic spikes automatically by minimizing cost.
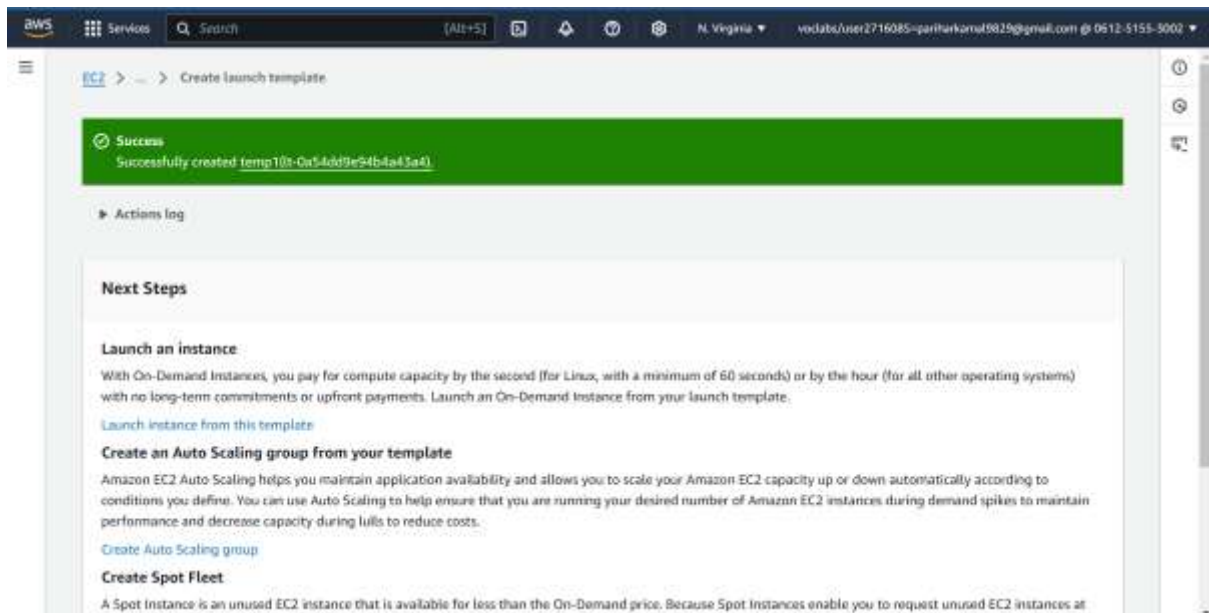
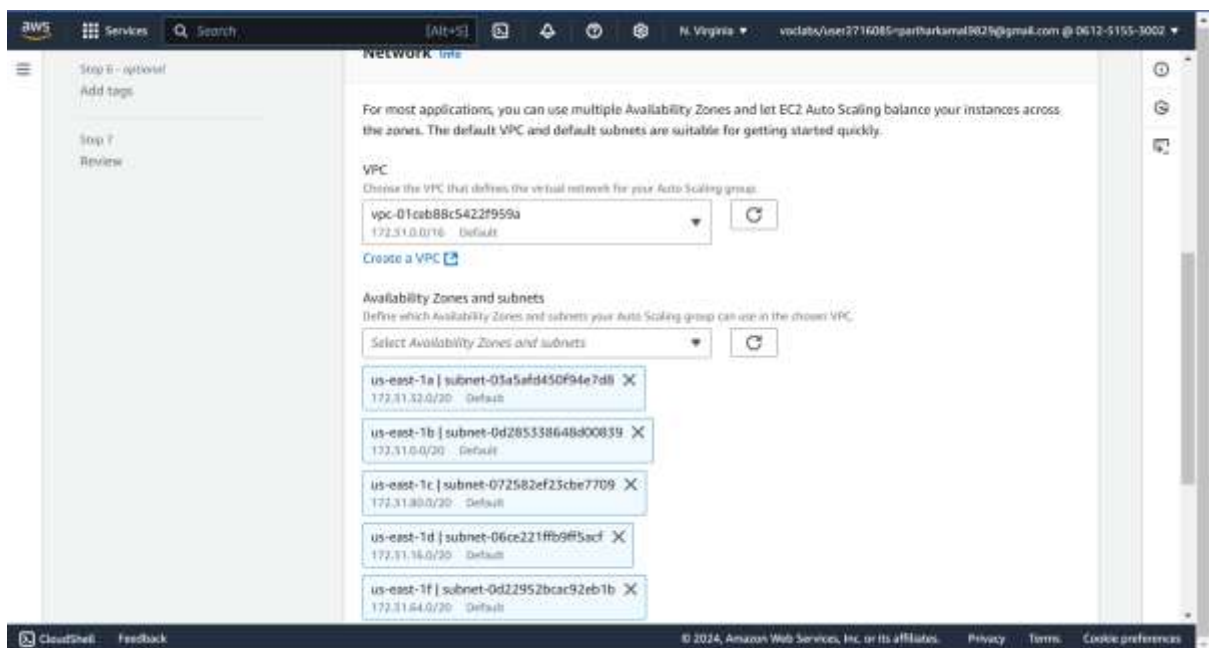Ans:- creating autoscaling group

Creating template

Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

Launch template name and description

Launch template name - required

temp1

Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.

Template version description

temp for auto scalling

Max 255 chars

Auto Scaling guidance   Info

Select this if you intend to use this template with EC2 Auto Scaling

☑ Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

▶ Template tags

▶ Source template

▼ Summary

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-012967cc5a8c9f891

Virtual server type (instance type)
t2.micro

Firewall (security group)
-

Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year   ✕
includes 750 hours of t2.micro
(or t3.micro in the Regions in
which t2.micro is unavailable)
instance usage on free tier
AMIs per month, 750 hours of

Cancel   **Create launch template**

Specify the details of your launch template below. Leaving a field blank will result in the field not being included in the launch template.

▼ Application and OS Images (Amazon Machine Image) - required Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Q Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux	macOS	Ubuntu	Windows	Red Hat		Browse more AMIs

Browse more AMIs
including AMIs from
AWS, Marketplace and
the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI   Free tier eligible
ami-012967cc5a8c9f891 (64-bit (x86), uefi-preferred) / ami-051e62b4es2fe95fd (64-bit (Arm), uefi)
Virtualization: hvm   ENA enabled: true   Root device type: ebs

▼ Summary

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-012967cc5a8c9f891

Virtual server type (instance type)
t2.micro

Firewall (security group)
-

Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year   ✕
includes 750 hours of t2.micro
(or t3.micro in the Regions in
which t2.micro is unavailable)
instance usage on free tier
AMIs per month, 750 hours of
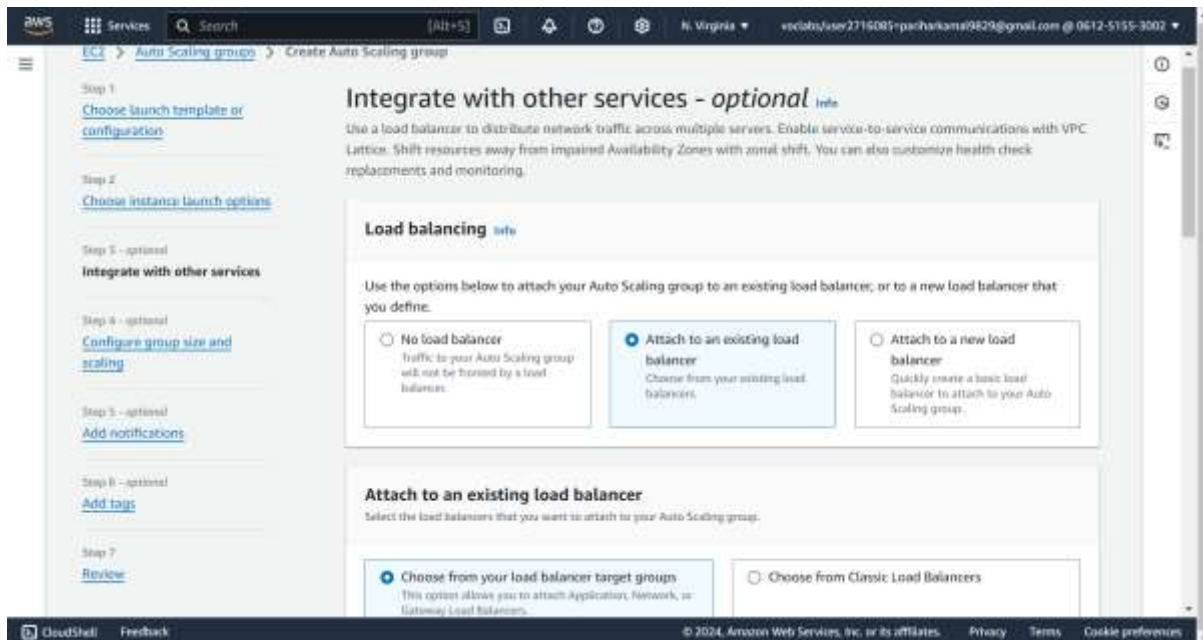
Cancel   **Create launch template**
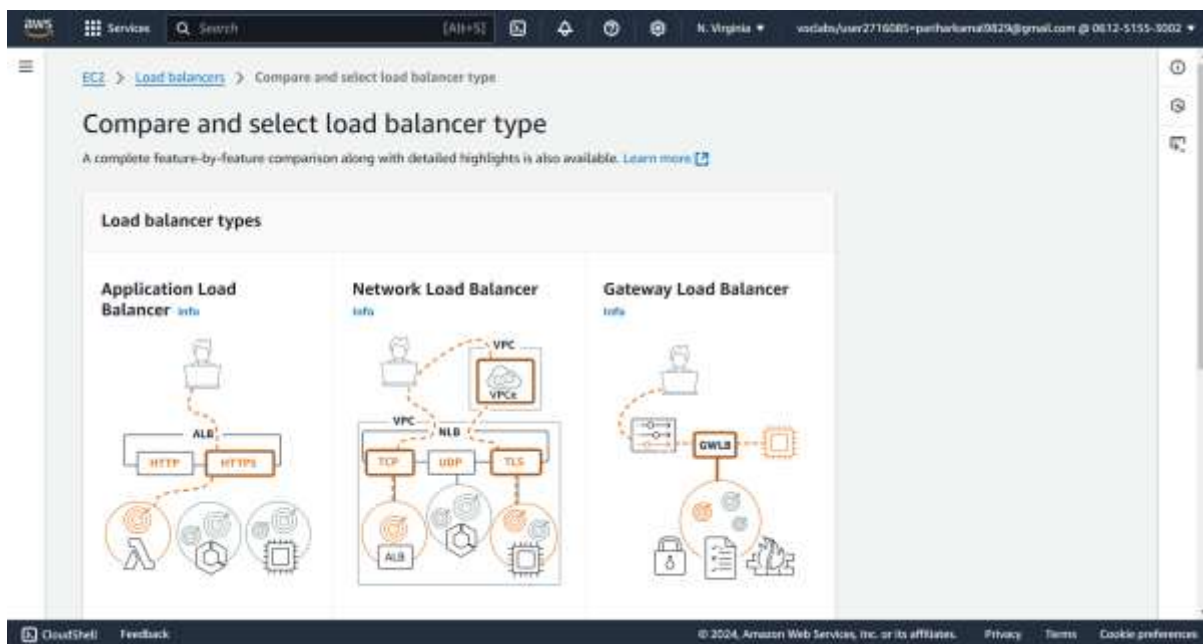
Launch template is success

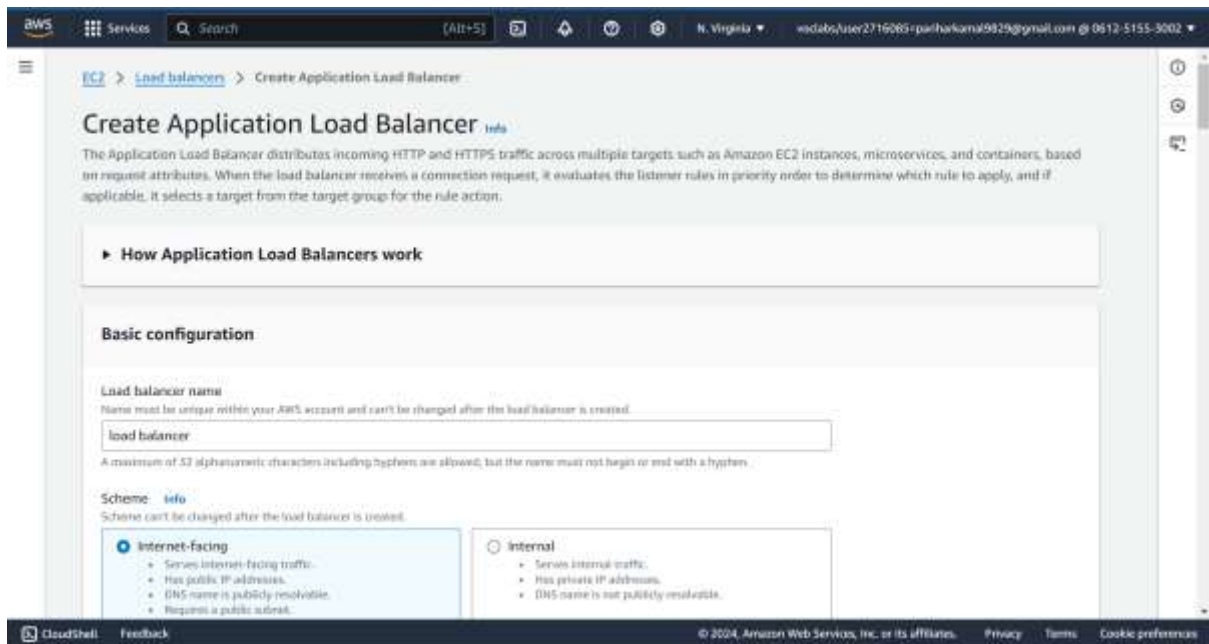After launch template added multiple zone for higher available

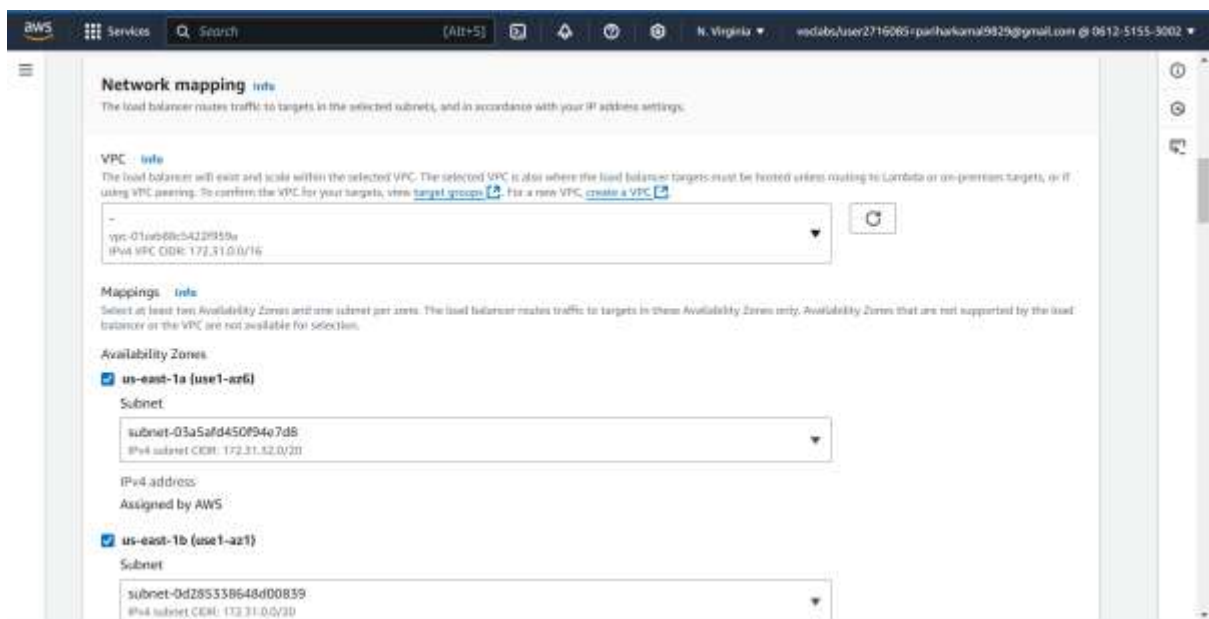After attaching load balancer to it I have to create a load balancer

Creating a application load balancer for auto scaling group

Add all 6 multiple zone in mapping section for high available

Create a new security group for aweb application

Add inbound rules

Successful of security group creation
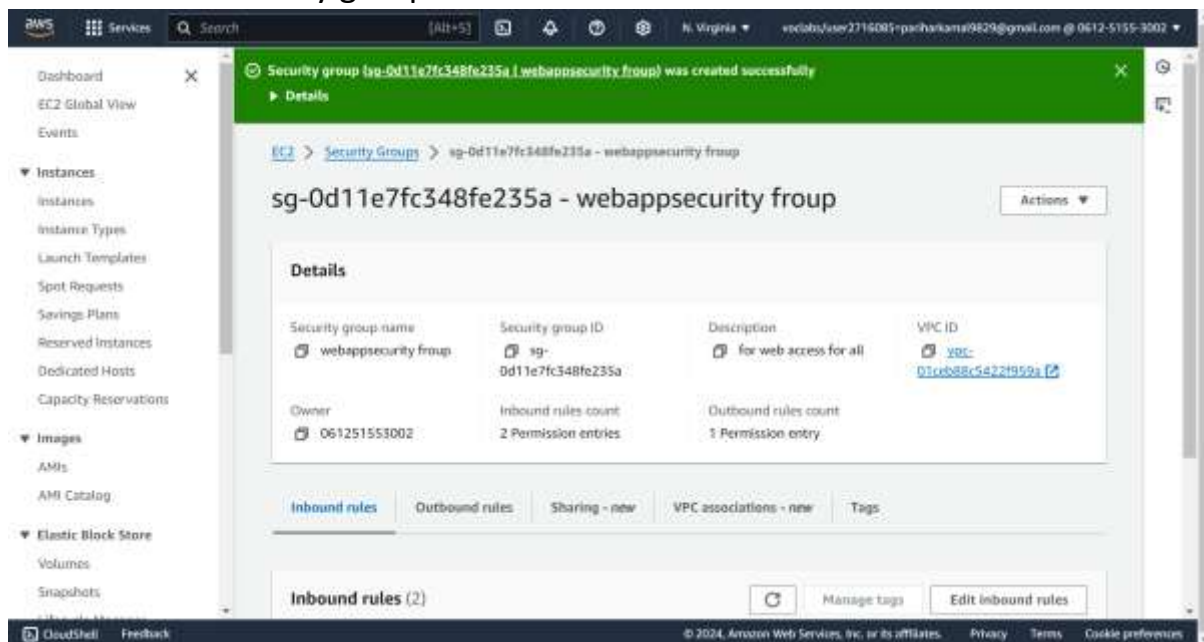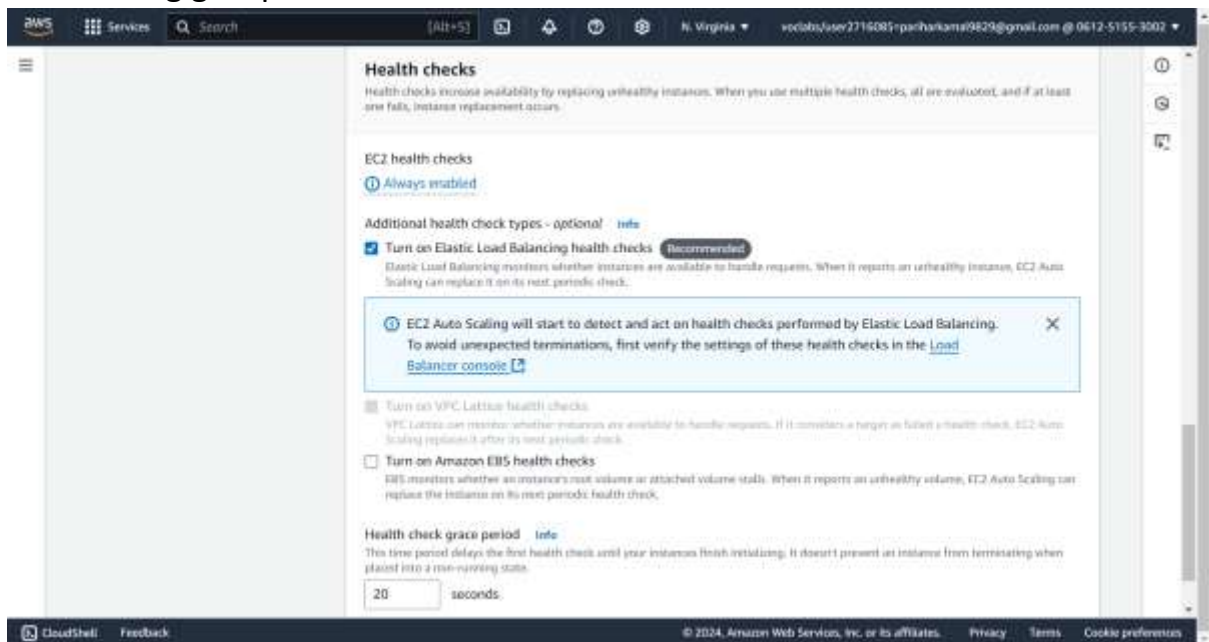

Listener and routing I create a target group
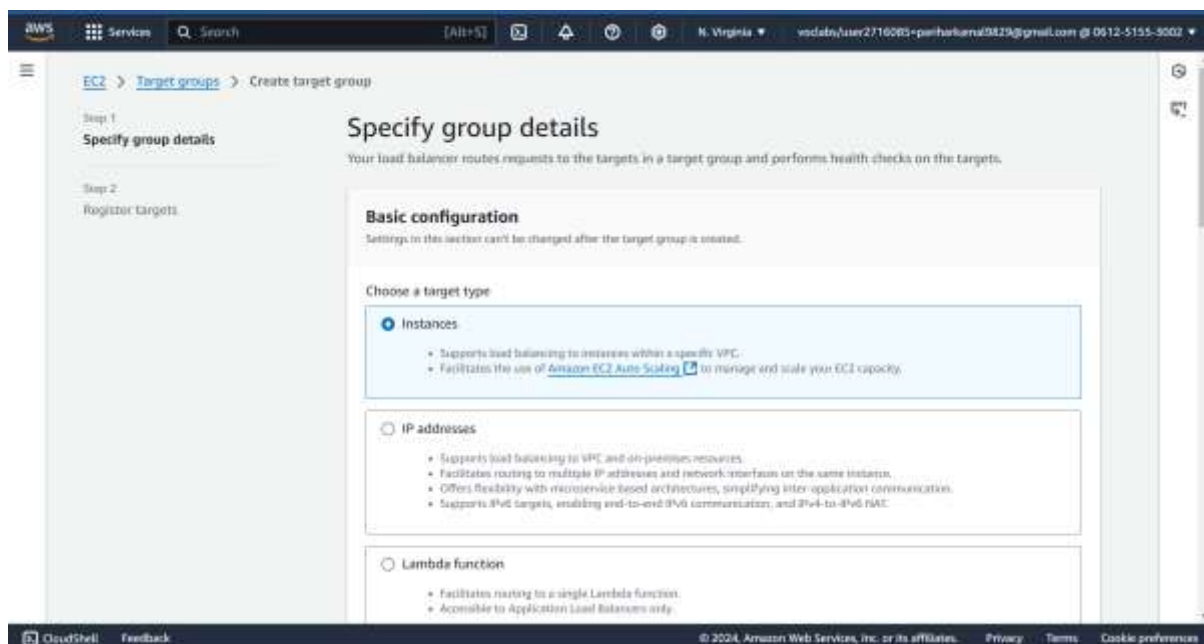
target group creation is successful
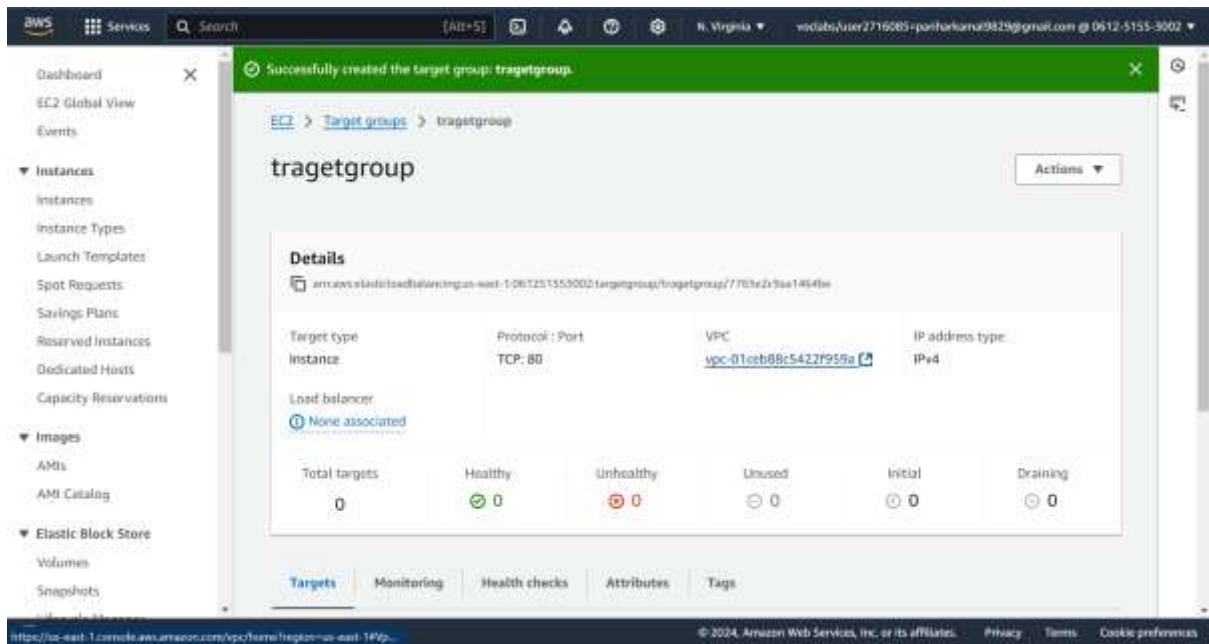
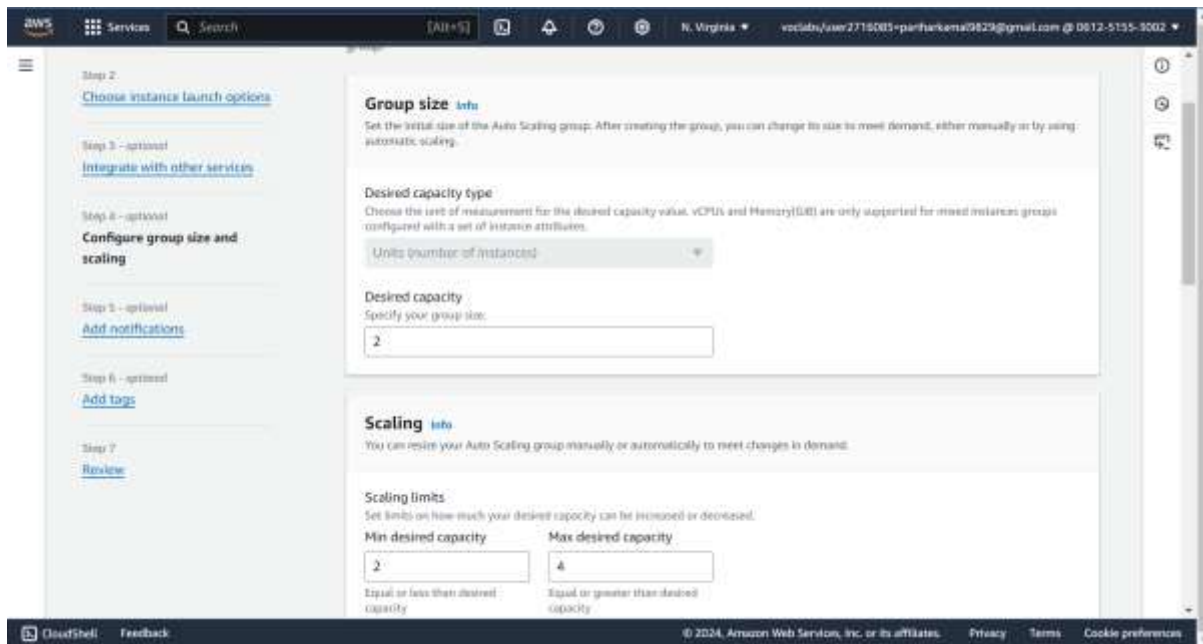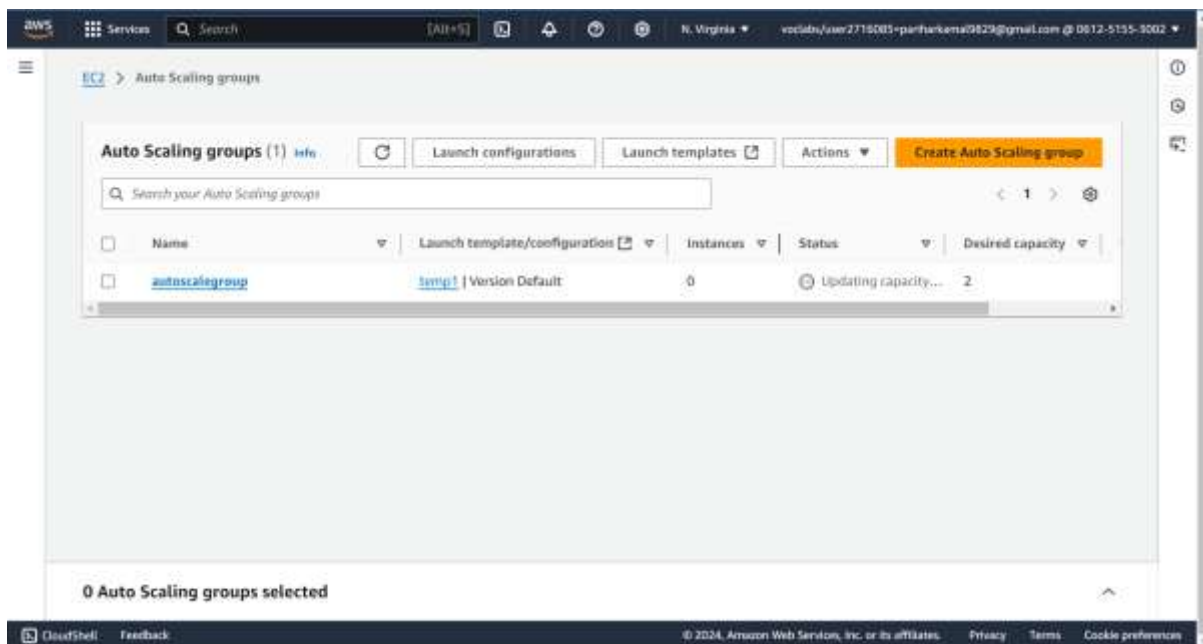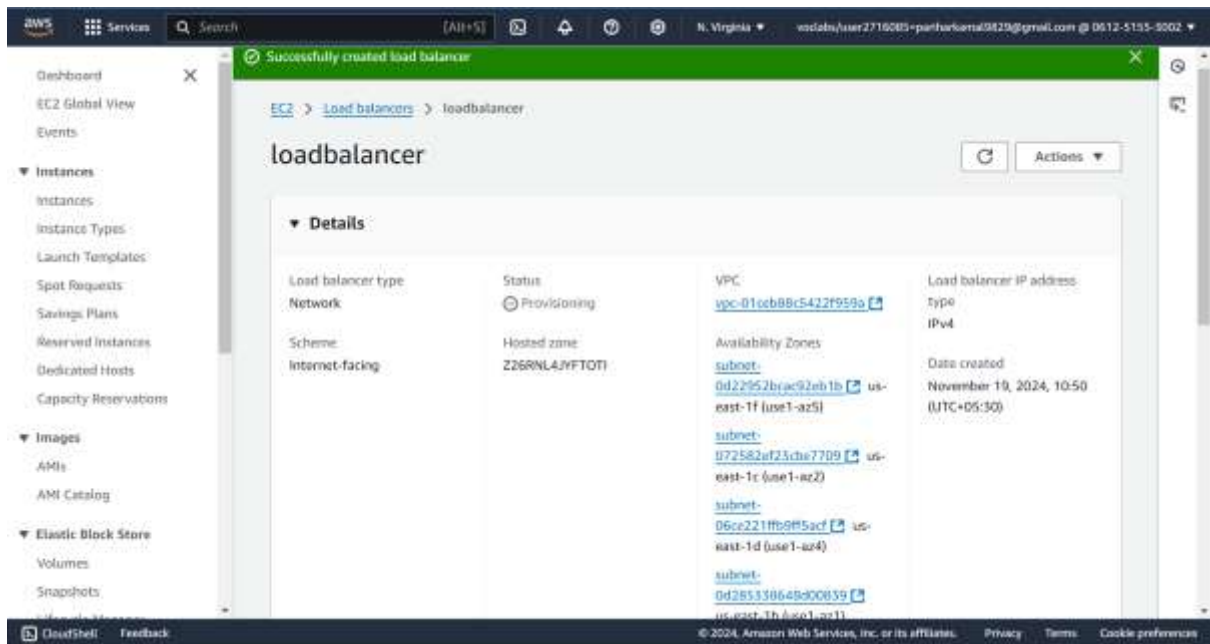Autoscaling group

Group size min or max instance

Autoscaling group creation is successful

Load balancer creation is successful

automatic