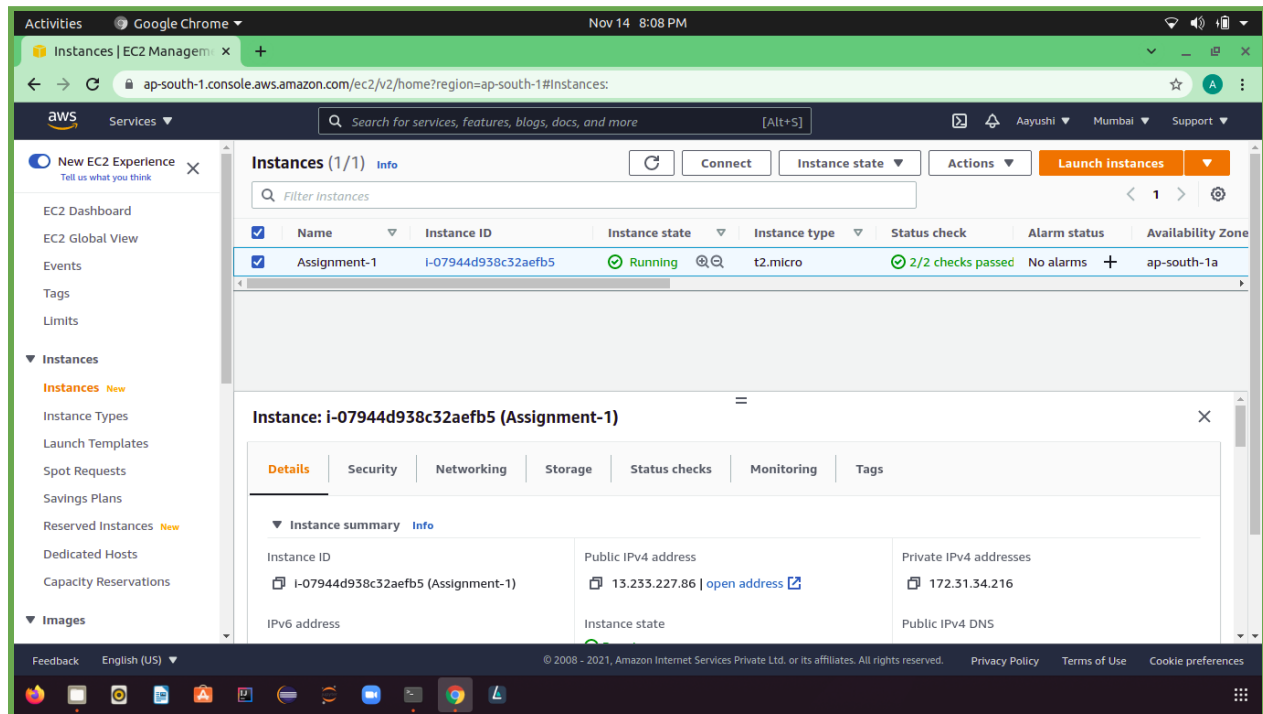
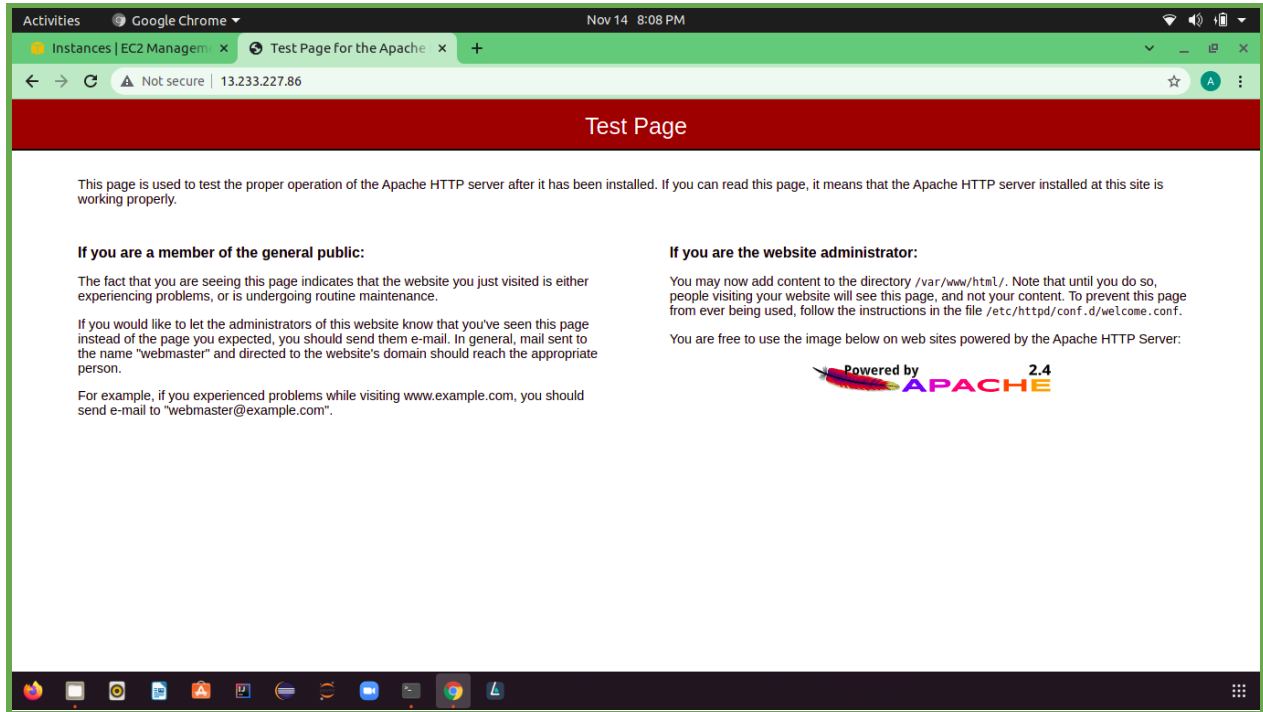


Module- 3: Auto Scaling Assignment - 1

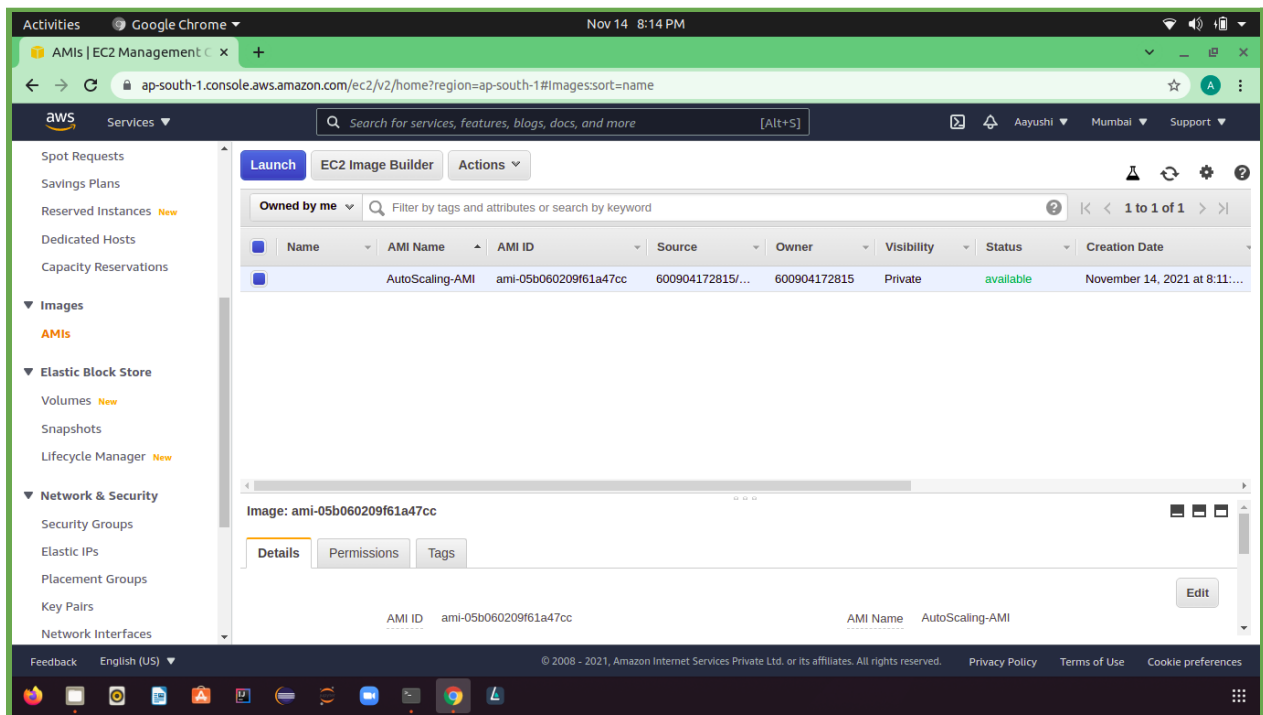
1. Create a web server AMI with apache 2 server running in it
2. Create a Launch Configuration with this AMI
3. Use this Launch Configuration to create an auto scaling group with 1 minimum and 3 maximum instance

Create an instance with apache2 server

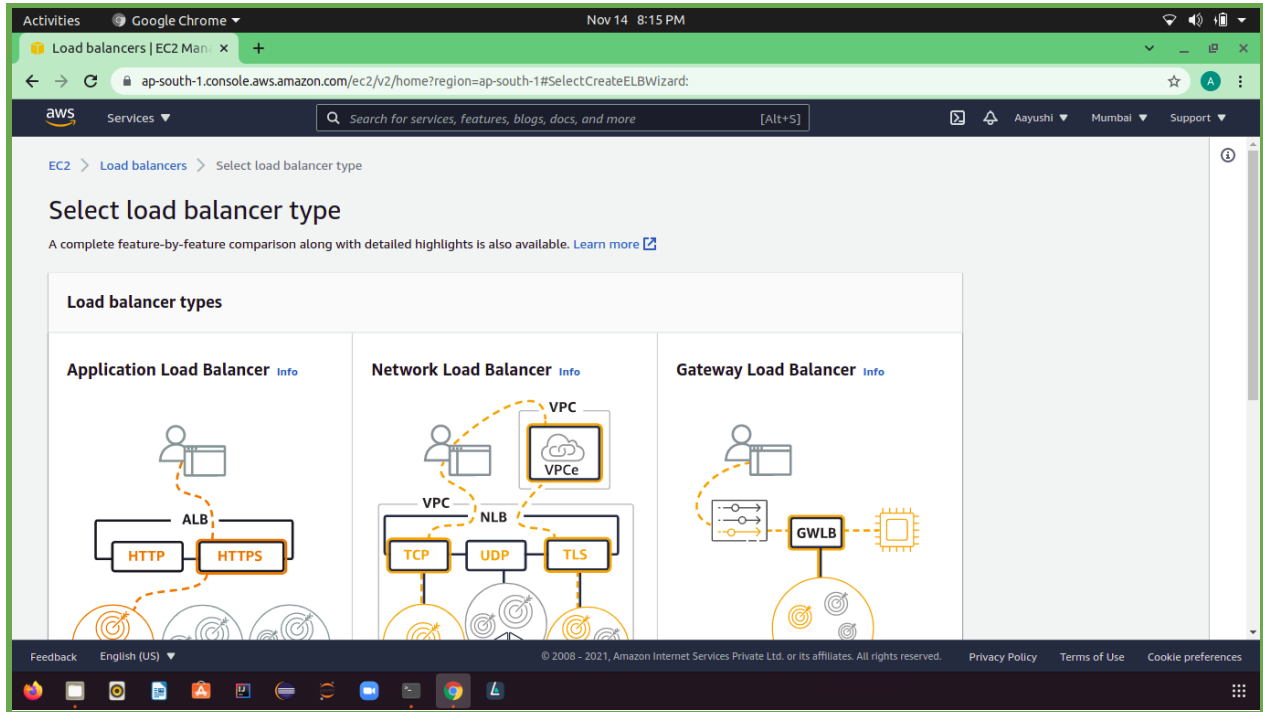




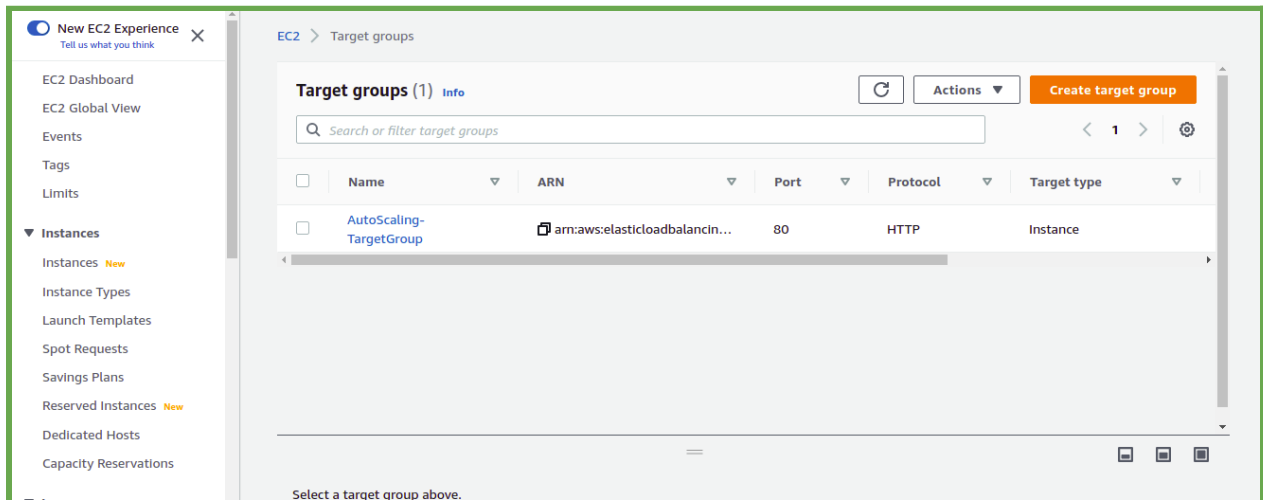
Create a AMI



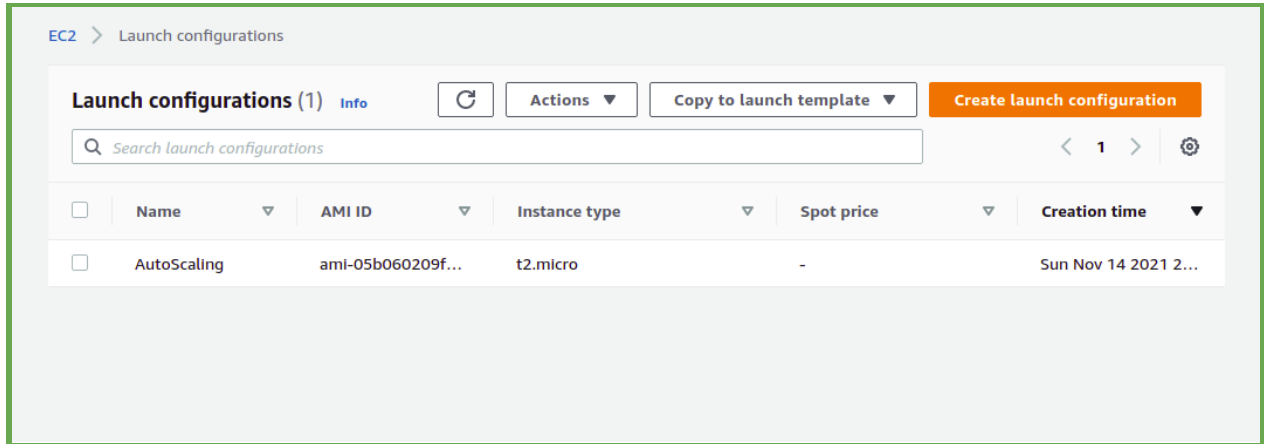
Create a Application Load balancer



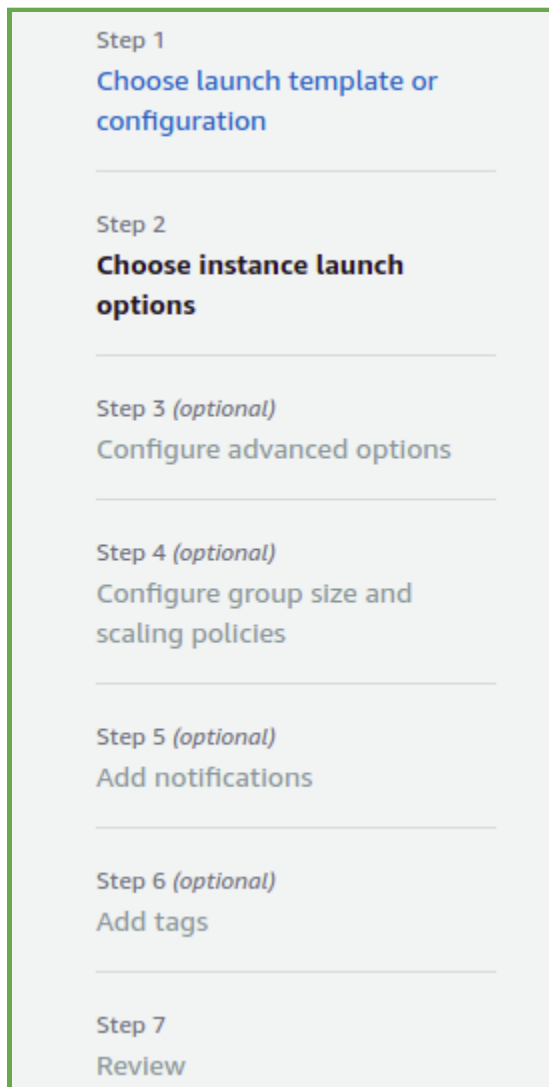
Create a target group and Attach to the ALB



Launch Configuration



Now create Auto Scaling Group by using following steps



1. Choose launch template or configuration

Choose launch template or configuration [Info](#)

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch templates.

Name

Auto Scaling group name
Enter a name to identify the group.

Must be unique to this account in the current Region and no more than 255 characters.

Launch configuration [Info](#)

[Switch to launch template](#)

Launch configuration
Choose a launch configuration that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.

[Create a launch configuration](#)

Launch configuration	AMI ID	Date created
----------------------	--------	--------------

2. Choose instance launch options

Choose instance launch options [Info](#)

Choose the VPC network environment that your instances are launched into, and customize the instance types and purchase options.

Network [Info](#)

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC
Choose the VPC that defines the virtual network for your Auto Scaling group.

172.31.0.0/16 Default

[Create a VPC](#)

Availability Zones and subnets
Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.

ap-south-1a | subnet-0ee060e593144ea13

172.31.32.0/20 Default

ap-south-1b | subnet-0a0499d11da6d664f

172.31.0.0/20 Default

3. Configure advanced options

Configure advanced options [Info](#)

Choose a load balancer to distribute incoming traffic for your application across instances to make it more reliable and easily scalable. You can also set options that give you more control over health check replacements and monitoring.

Load balancing - *optional* [Info](#)

Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

☐ **No load balancer**
Traffic to your Auto Scaling group will not be fronted by a load balancer.

☒ **Attach to an existing load balancer**
Choose from your existing load balancers.

☐ **Attach to a new load balancer**
Quickly create a basic load balancer to attach to your Auto Scaling group.

Attach to an existing load balancer

Select the load balancers that you want to attach to your Auto Scaling group.

☒ **Choose from your load balancer target groups**
This option allows you to attach Application, Network, or Gateway Load Balancers.

☐ **Choose from Classic Load Balancers**

4. Configure group size and policy

Configure group size and scaling policies [Info](#)

Set the desired, minimum, and maximum capacity of your Auto Scaling group. You can optionally add a scaling policy to dynamically scale the number of instances in the group.

Group size - *optional* [Info](#)

Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.

Desired capacity

Minimum capacity

Maximum capacity

Scaling policies - optional

Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. [Info](#)

☒ **Target tracking scaling policy**
Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

☐ None

Scaling policy name

Metric type

Average CPU utilization ▼

Target value

Instances need
 seconds warm up before including in metric

5. Add notification

Add notifications [Info](#)

Send notifications to SNS topics whenever Amazon EC2 Auto Scaling launches or terminates the EC2 instances in your Auto Scaling group.

Cancel

Previous

Skip to review

Next

6. Add tags

Add tags [Info](#)

Add tags to help you search, filter, and track your Auto Scaling group across AWS. You can also choose to automatically add these tags to instances when they are launched.

Tags (1)

Key	Value - optional	Tag new instances	
<input type="text" value="Enter key"/>	<input type="text" value="Enter value"/>	<input checked="" type="checkbox"/>	<input type="button" value="Remove"/>
<input type="button" value="Add tag"/>			

49 remaining

7. Review

Review [Info](#)

Step 1: Choose launch template or configuration

Group details

Auto Scaling group name
Assignment1-ASG

Launch configuration
[AutoScaling](#)

Create instance by auto scaling

Instances (2) Info								<input type="button" value="Refresh"/> <input type="button" value="Connect"/> <input type="button" value="Instance state"/> <input type="button" value="Actions"/> <input type="button" value="Launch instances"/>	
<input type="text" value="Filter instances"/>								< 1 > <input type="button" value="Settings"/>	
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone		
<input type="checkbox"/>	ASGroup	i-08390893596729a67	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b		