

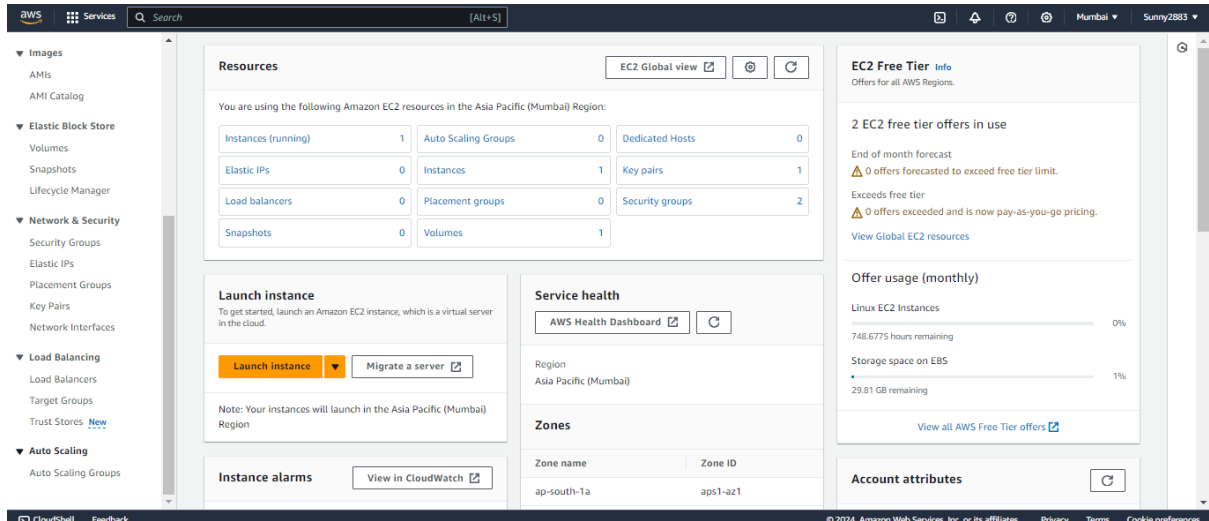
Assignment:2

Task:5

Create an ASG with minimum 1 and maximum 2 instance requirement.

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

Step1: Select Auto Scaling group.



Step2: choose launch template.


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.

Step3: Choose Instance launch option and click create a launch template.

Launch template [Info](#)





For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

Launch template

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

Select a launch template



[Create a launch template](#) 


Cancel

Next

Step4: launch template name and description.

aws

Services

 Search

[Alt+S]

EC2 > Launch templates > Create launch 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*

DemoASGTemplate

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

Template version description

A prod webserver for MyApp

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

Step5: launch template contents.

Template tags

Source template

Launch template contents

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 linux 2

X

AMI from catalog

Recents

Quick Start

Amazon Machine Image (AMI)

amzn2-ami-kernel-5.10-hvm-2.0.20240124.0-x86_64-gp2

ami-039e1f129f345d75f

Verified provider

Free tier eligible

Q

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Catalog	Published	Architecture	Virtualization	Root device type	ENA Enabled
Quickstart AMIs	2024-01-24T01:57:10.000Z	x86_64	hvm	ebs	Yes

▼ Network settings

Info

Subnet

Info

Don't include in launch template

▼

Create new subnet

When you specify a subnet, a network interface is automatically added to your template.

Firewall (security groups)

Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Select existing security group

☐ Create security group

Security groups

Info

Select security groups

▼

launch-wizard-1 sg-08b19ac9411cdc024 X

VPC: vpc-06988e5057435e138

Create

Compare security group rules

► Advanced network configuration

Step6:select create launch template.

▼ Summary

Software Image (AMI)

Amazon Linux 2 AMI (HVM) - Ker...read more

ami-039e1f129f345d75f

Virtual server type (instance type)

t2.micro

Firewall (security group)

launch-wizard-1

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, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

✕

Cancel

Create launch template

Step7: Select the launch template.

aws

Services

Search

[Alt+S]

🔍

🔔

🛑

⚙️

Mumbai ▼

Sunny2883 ▼

Step 7

Review

available via the CLI and API until December 31, 2023.

Launch template

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

DemoASGTemplate

Create a launch template

Version

Default (1)

Create a launch template version

Description

-

Launch template

DemoASGTemplate

lt-0fb96777cb945f4e

Instance type

t2.micro

AMI ID

ami-039e1f129f345d75f

Security groups

-

Request Spot Instances

No

Key pair name

-

Security group IDs

sg-08b19ac9411cd024

Additional details

Storage (volumes)

-

Date created

Sat Jan 27 2024 12:45:03 GMT+0530 (India Standard Time)

Cancel

Next

Step7: Choose instance launch option.

This screenshot shows the 'Configure advanced options' step in the AWS Management Console. The left sidebar contains navigation links for Steps 3 through 7. The main content area is divided into two sections: 'Launch template' and 'Network info'.

Launch template section:

Launch template	Version	Description
DemoASGTemplate ↗ lt-0ffb9677cb945f4e	Default	-

Instance type: t2.micro

Network info section:

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.

vpc-06988e5057435e138
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.

Select Availability Zones and subnets [↗](#)

[Create a subnet](#) [↗](#)

Buttons at the bottom: Cancel, Skip to review, Previous, Next.

Step8: Choose availability zones

This screenshot shows the 'Network info' step in the AWS Management Console. The left sidebar contains navigation links for Steps 6 and 7. The main content area is divided into two sections: 'VPC' and 'Availability Zones and subnets'.

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

vpc-06988e5057435e138
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.

Select Availability Zones and subnets [↗](#)

ap-south-1a | subnet-0e6cdf2a06c9753a9 [✕](#)
172.31.32.0/20 Default

ap-south-1b | subnet-09f49a063032e5715 [✕](#)
172.31.0.0/20 Default

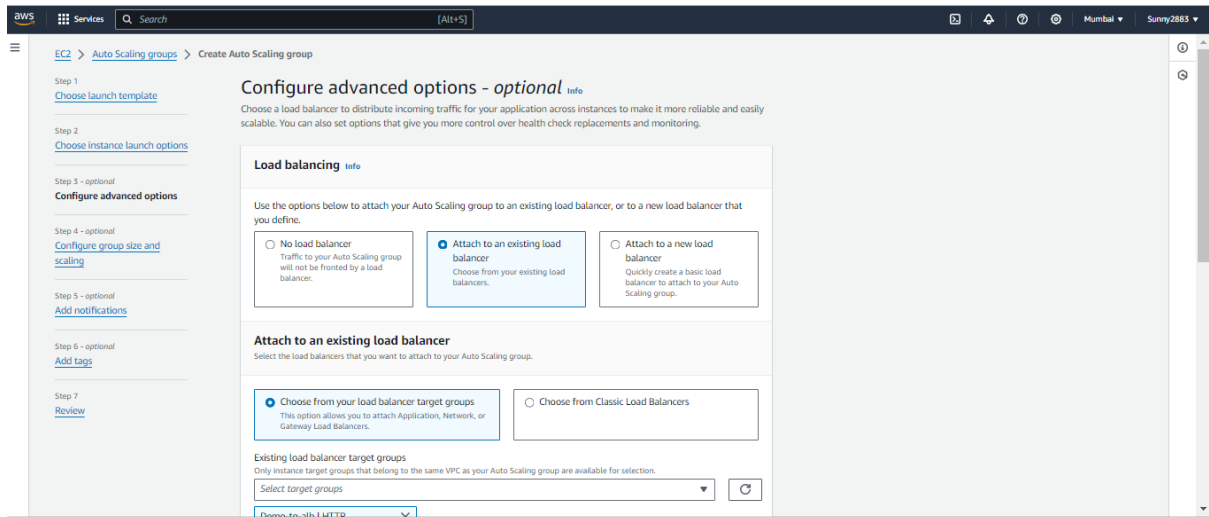
ap-south-1c | subnet-0c714c65c4325ac96 [✕](#)
172.31.16.0/20 Default

[Create a subnet](#) [↗](#)

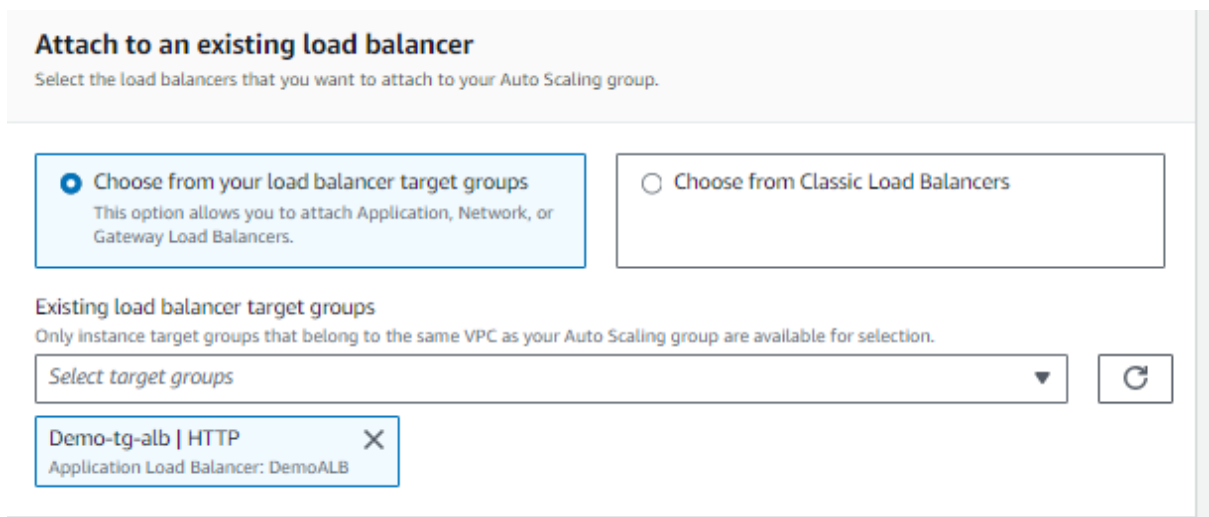
Warning: Your requested instance type (t2.micro) is not available in 1 Availability Zone. You may need to change the instance type or choose other Availability Zones for better resiliency. [Learn more](#) [↗](#)

Buttons at the bottom: Cancel, Skip to review, Previous, Next.

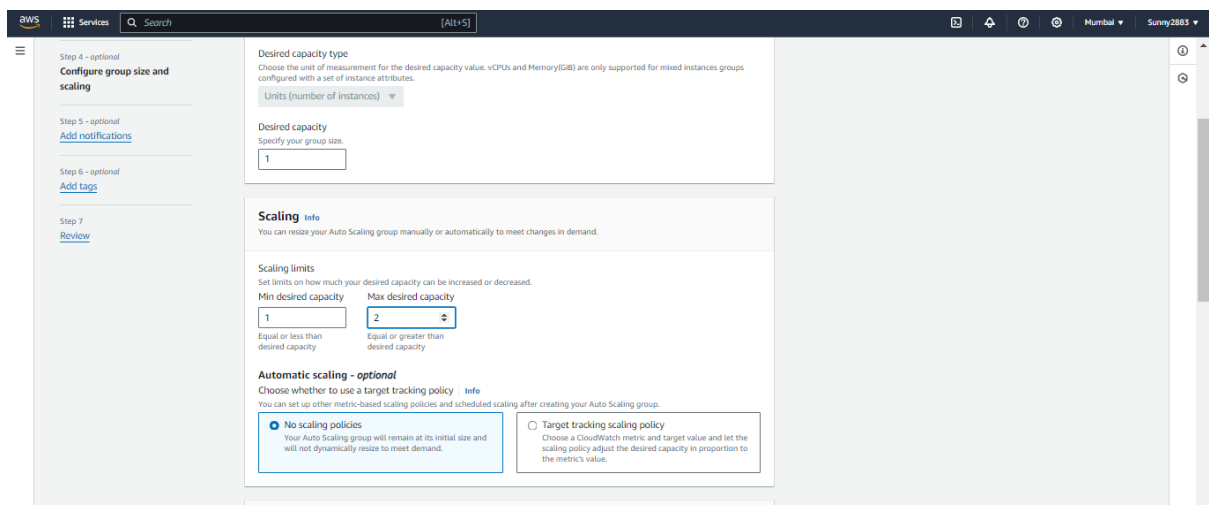
Step9: choose attach to an existing load balancer and select choose from your load balancer target group.



Step10: Select Demo-tg-alb (DemoALB).



Step11: Select the desired capacity and set the minimum and maximum capacity.



Step11: choose next.

Control availability and cost during replacement events
✕

An instance maintenance policy determines how much availability your application has when EC2 Auto Scaling replaces instances. It also establishes guardrails that limit the amount of capacity that can be added or removed when replacing instances.

Choose a replacement behavior depending on your availability requirements

Mixed behavior

☒

No policy
 For rebalancing events, new instances will launch before terminating others. For all other events, instances terminate and launch at the same time.

Prioritize availability

☐

Launch before terminating
 Launch new instances and wait for them to be ready before terminating others. This allows you to go above your desired capacity by a given percentage and may temporarily increase costs.

Control costs

☐

Terminate and launch
 Terminate and launch instances at the same time. This allows you to go below your desired capacity by a given percentage and may temporarily reduce availability.

Flexible

☐

Custom behavior
 Set custom values for the minimum and maximum amount of available capacity. This gives you greater flexibility in setting how far below and over your desired capacity EC2 Auto Scaling goes when replacing instances.

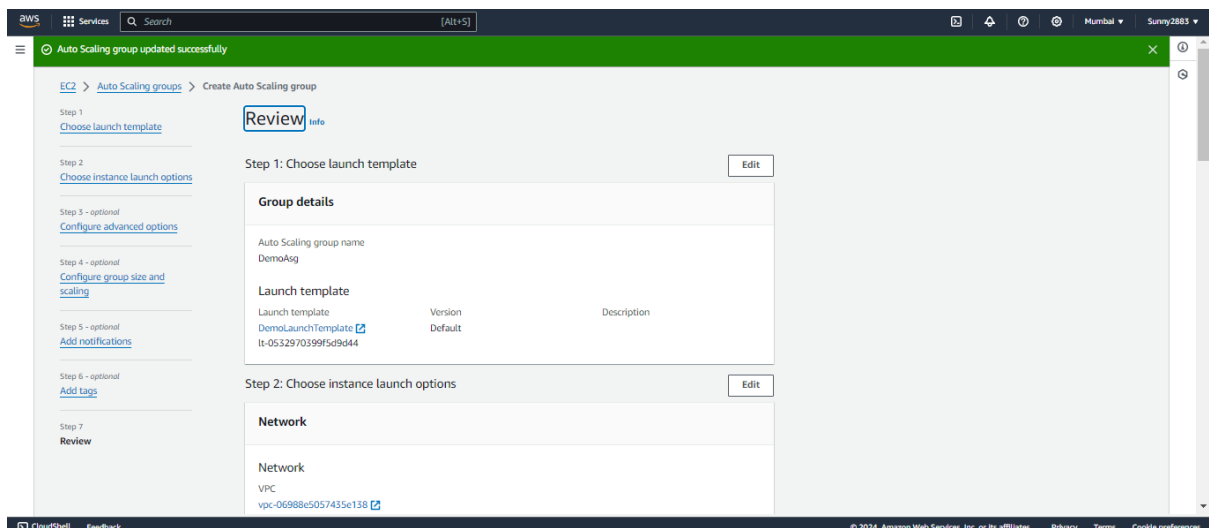
Instance scale-in protection

Scale-in protection prevents newly launched instances from being terminated by scaling activities. Make sure to remove scale-in protection for the group or individual instances when instances are ready to be terminated.

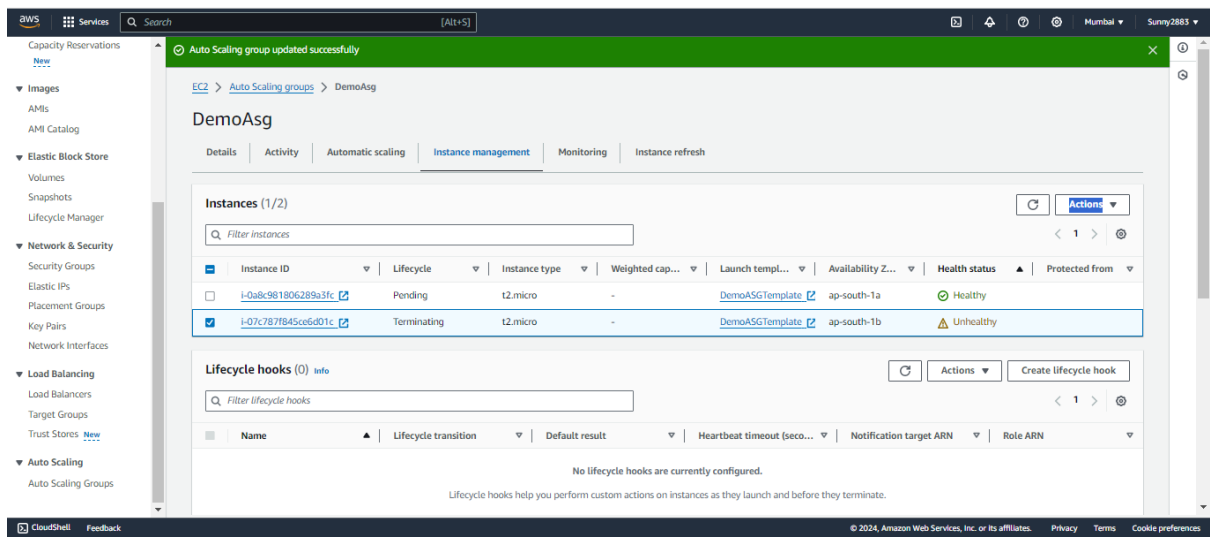
☐

Enable instance scale-in protection

Cancel
Skip to review
Previous
Next

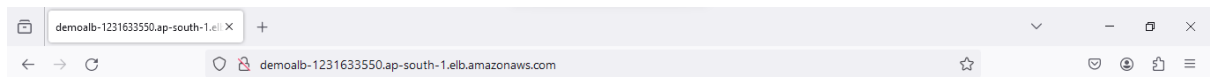


Step13: Instance launched successfully.



Step16: DNS name

DemoALB-1231633550.ap-south-1.elb.amazonaws.com



hello world from ip-172-31-38-166.ap-south-1.compute.internal