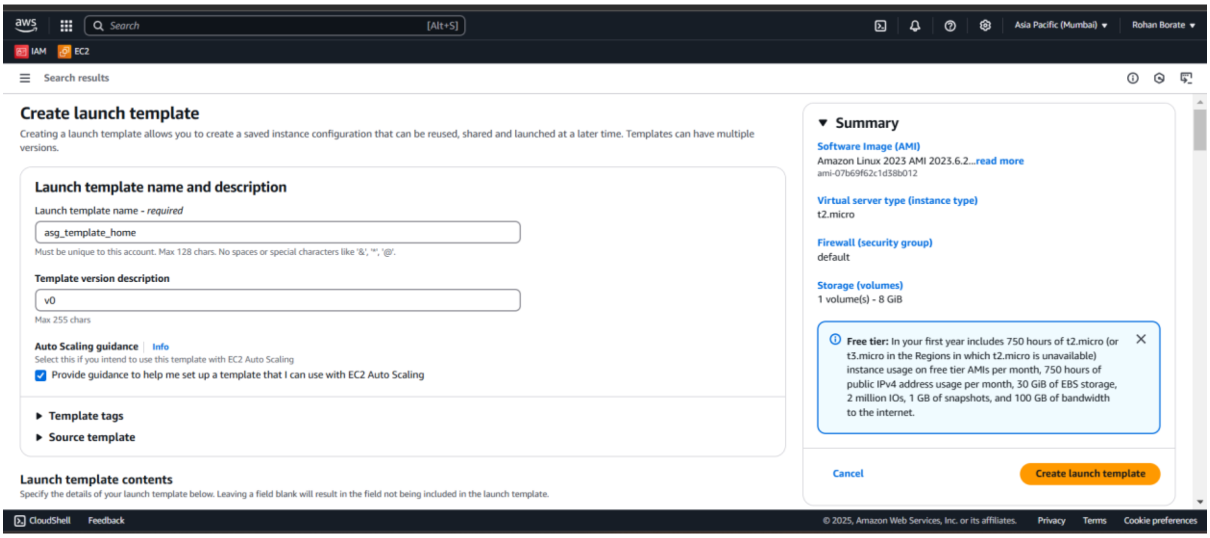
Autoscaling group →

1. Create launch Template (to create instances during autoscaling), here we are creating the three launch template for the three services like shopping application (home page , mobile section , laptop section).for each service we provide one EC2 instance.
2. Created template for the home section



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*

asg_template_home

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

Template version description

v0

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

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.

▾ **Summary**

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-07b69f62c1d38b012

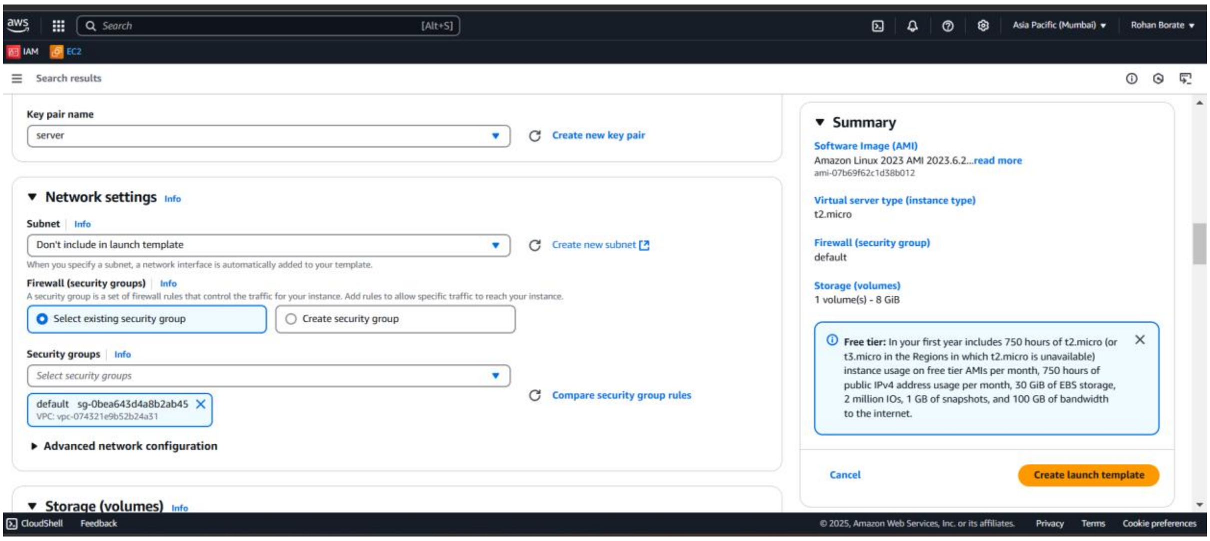
Virtual server type (instance type)
t2.micro

Firewall (security group)
default

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 public IPv4 address usage 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



Key pair name

server ▾ | Create new key pair

▾ **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 ▾ | Compare security group rules

default sg-0bea643d4a8b2ab45
VPC: vpc-074321e9b52b24a31

▸ Advanced network configuration

▾ **Storage (volumes)** Info

▾ **Summary**

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-07b69f62c1d38b012

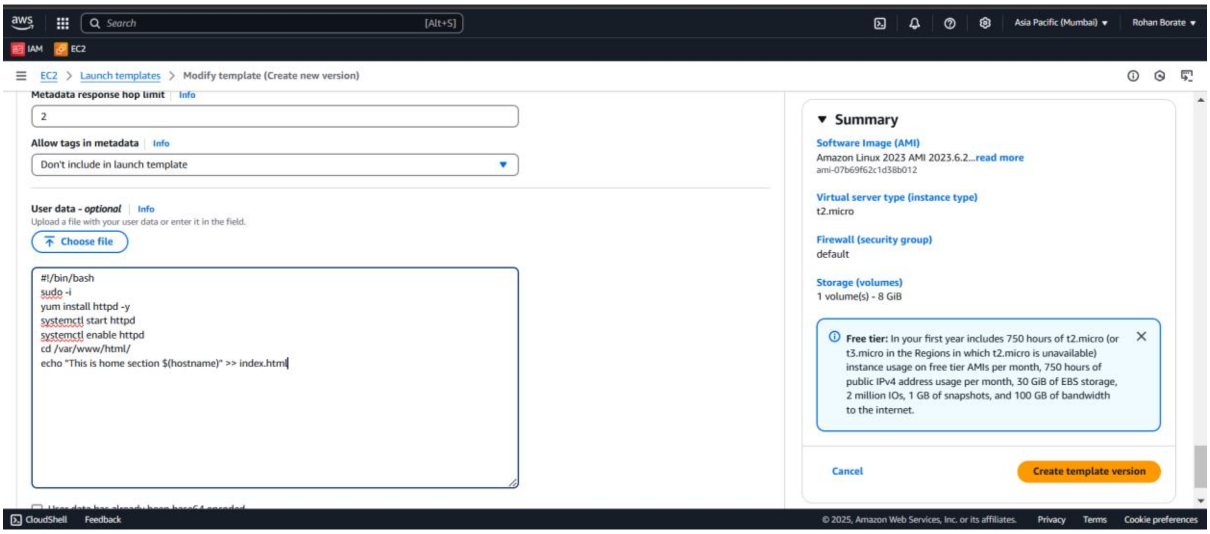
Virtual server type (instance type)
t2.micro

Firewall (security group)
default

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 public IPv4 address usage 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



EC2 > Launch templates > Modify template (Create new version)

Metadata response hop limit | Info

2

Allow tags in metadata | Info

Don't include in launch template

User data - *optional* | Info

Upload a file with your user data or enter it in the field.

Choose file

```
#!/bin/bash
sudo -i
yum install httpd -y
systemctl start httpd
systemctl enable httpd
cd /var/www/html/
echo "This is home section $(hostname)" >> index.html
```

Summary

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-07b69f62c1d38b012

Virtual server type (instance type)
t2.micro

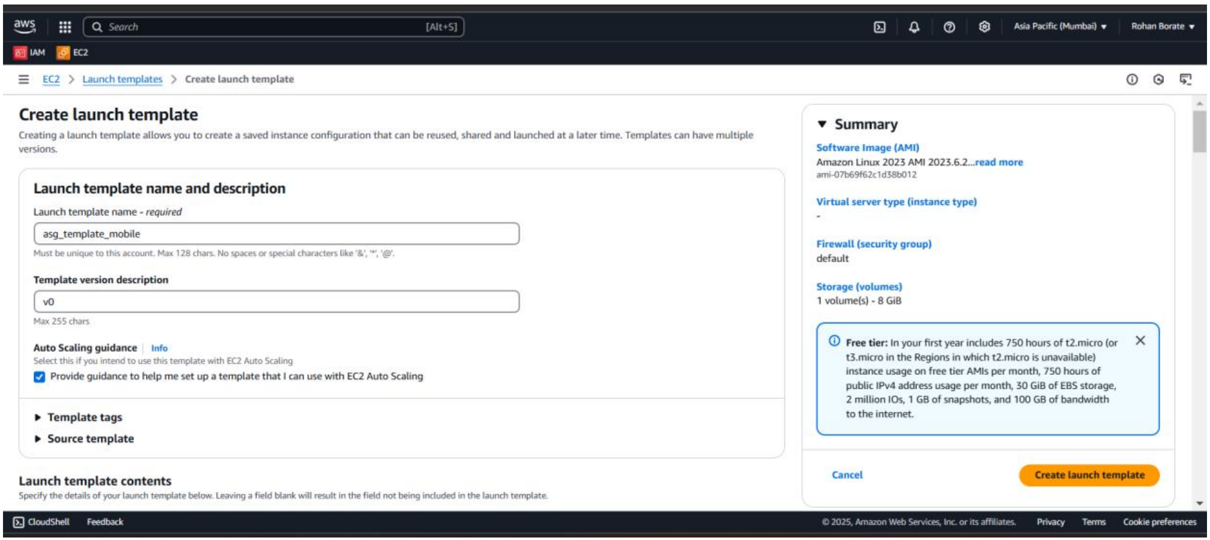
Firewall (security group)
default

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 public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel | Create template version

3. Template for mobile section



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*

asg_template_mobile

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

Template version description

v0

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

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.

Summary

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-07b69f62c1d38b012

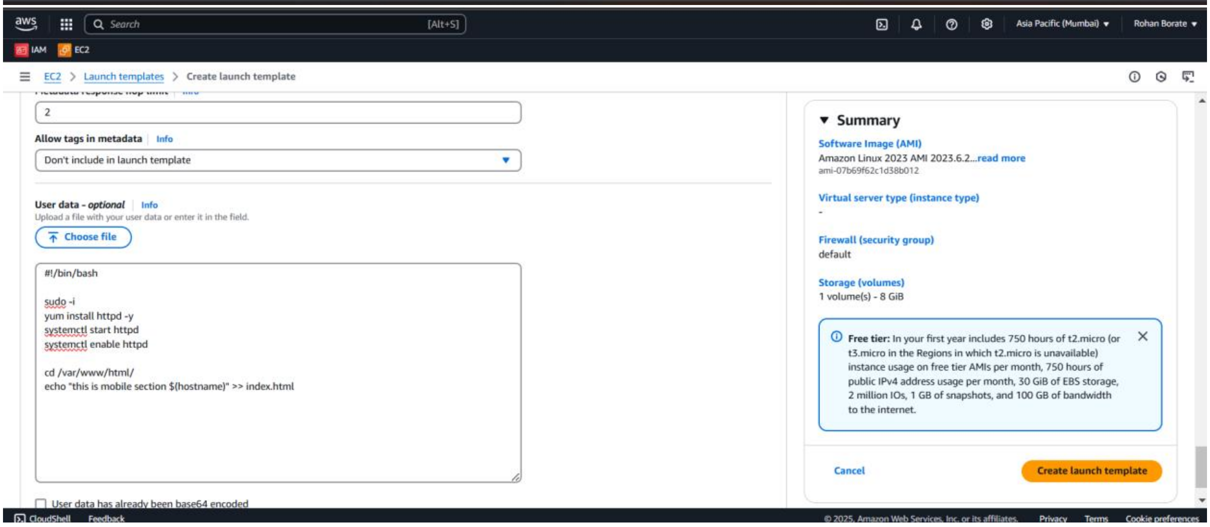
Virtual server type (instance type)
-

Firewall (security group)
default

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 public IPv4 address usage 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



EC2 > Launch templates > Create launch template

2

Allow tags in metadata | Info

Don't include in launch template

User data - *optional* | Info

Upload a file with your user data or enter it in the field.

Choose file

```
#!/bin/bash

sudo -i
yum install httpd -y
systemctl start httpd
systemctl enable httpd

cd /var/www/html/
echo "this is mobile section $(hostname)" >> index.html
```

□ User data has already been base64 encoded

Summary

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-07b69f62c1d38b012

Virtual server type (instance type)
-

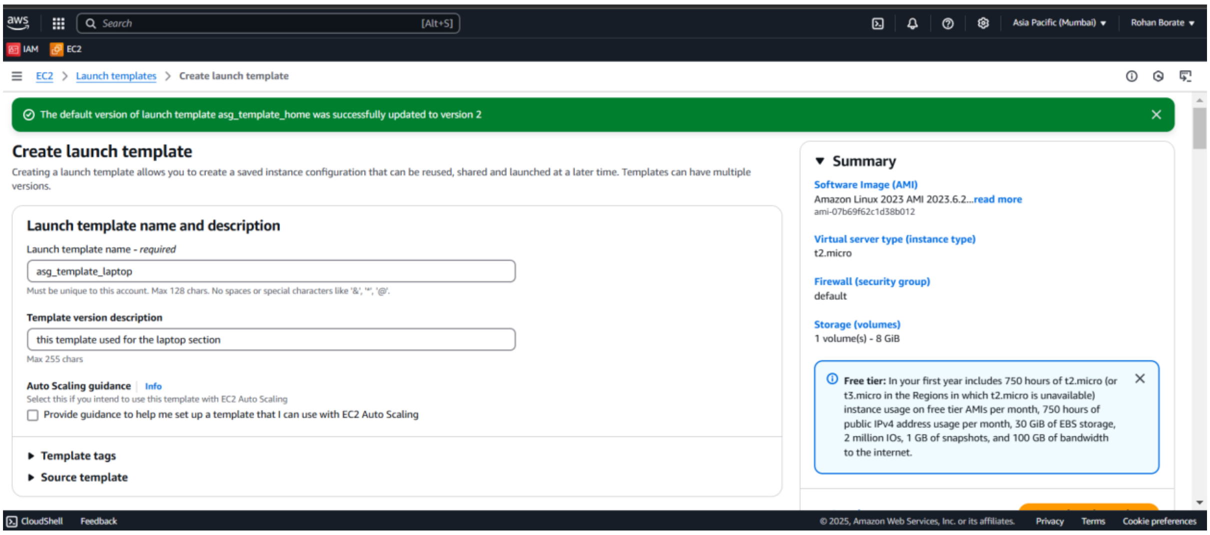
Firewall (security group)
default

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 public IPv4 address usage 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

4. Template for the laptop section



The default version of launch template asg_template_home was successfully updated to version 2

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*

asg_template_laptop

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

Template version description

this template used for the laptop section

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**

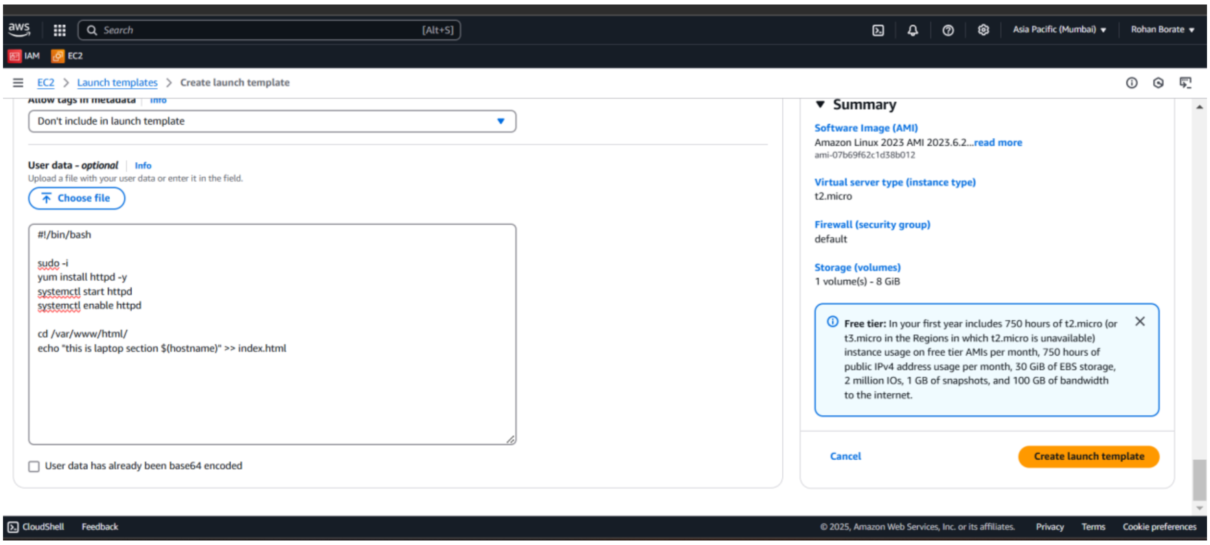
Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-07b69f62c1d38b012

Virtual server type (instance type)
t2.micro

Firewall (security group)
default

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 public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.



Allow tags in metadata | Info

Don't include in launch template ▾

User data - *optional* | Info

Upload a file with your user data or enter it in the field.

```
#!/bin/bash

sudo -i
yum install httpd -y
systemctl start httpd
systemctl enable httpd

cd /var/www/html/
echo "this is laptop section $(hostname)" >> index.html
```

□ User data has already been base64 encoded

▾ **Summary**

Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-07b69f62c1d38b012

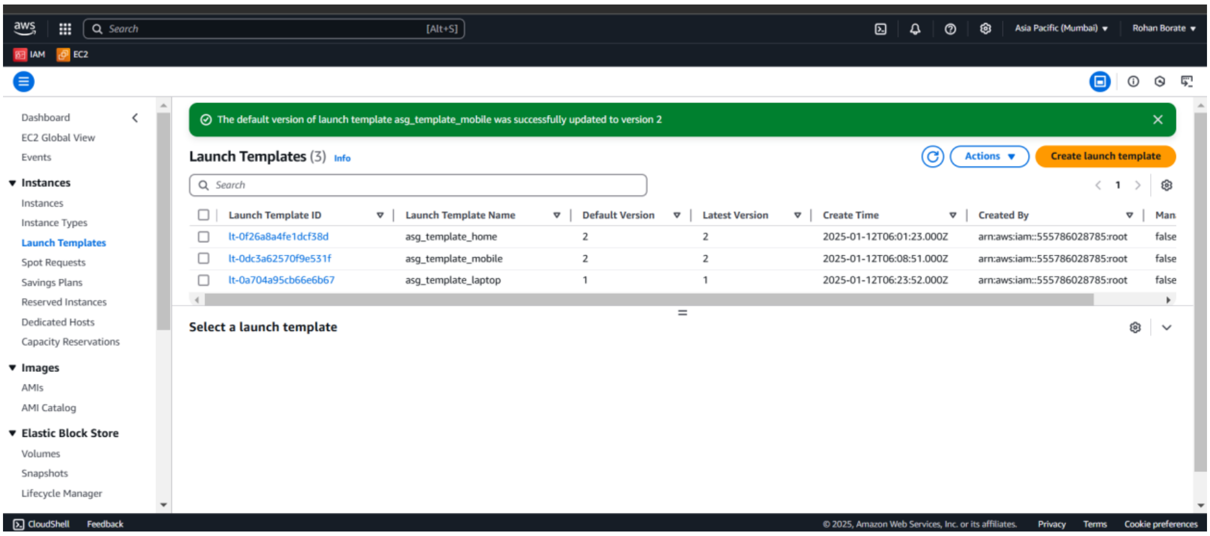
Virtual server type (instance type)
t2.micro

Firewall (security group)
default

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 public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

All launch templates are created successfully



The default version of launch template asg_template_mobile was successfully updated to version 2

Launch Templates (3) Info

□	Launch Template ID	Launch Template Name	Default Version	Latest Version	Create Time	Created By	Man
□	lt-0f26a8a4fe1dcf38d	asg_template_home	2	2	2025-01-12T06:01:23.000Z	arn:aws:iam::555786028785:root	false
□	lt-0dc3a62570f9e531f	asg_template_mobile	2	2	2025-01-12T06:08:51.000Z	arn:aws:iam::555786028785:root	false
□	lt-0a704a95cb66e6b67	asg_template_laptop	1	1	2025-01-12T06:23:52.000Z	arn:aws:iam::555786028785:root	false

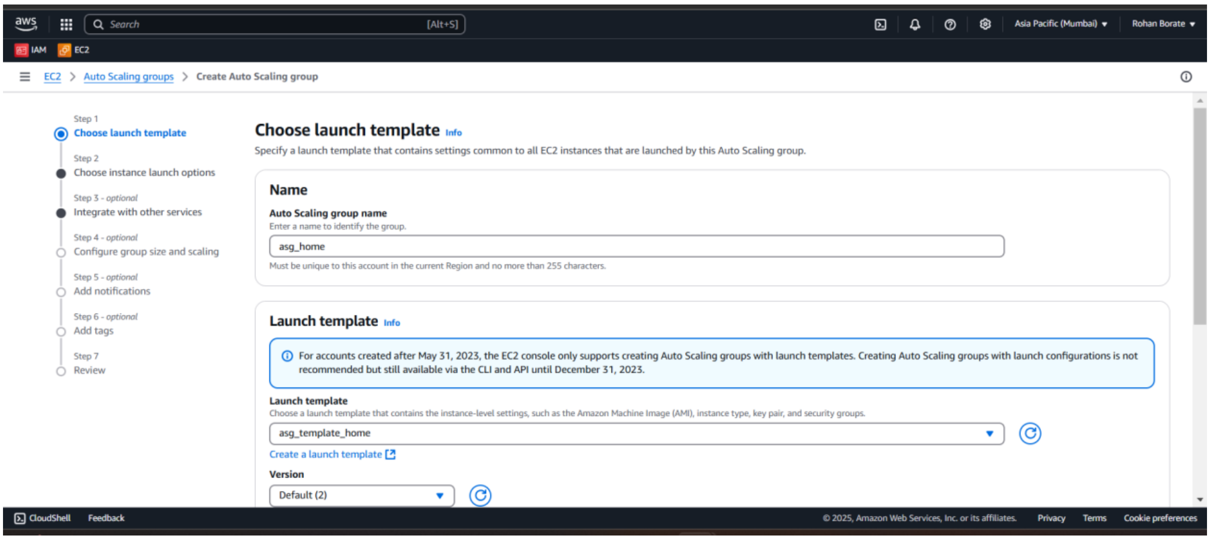
Select a launch template

Now we are creating the autoscaling group for the each instance means for each section (home , laptop,mobile).

Autoscaling group requires
load balancer and Target groups

So we are also creating this while creating the autoscaling group

Creating autoscaling group for the home section.



Step 1
Choose launch template

Step 2
Choose instance launch options

Step 3 - optional
Integrate with other services

Step 4 - optional
Configure group size and scaling

Step 5 - optional
Add notifications

Step 6 - optional
Add tags

Step 7
Review

Choose launch template Info

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group.

Name

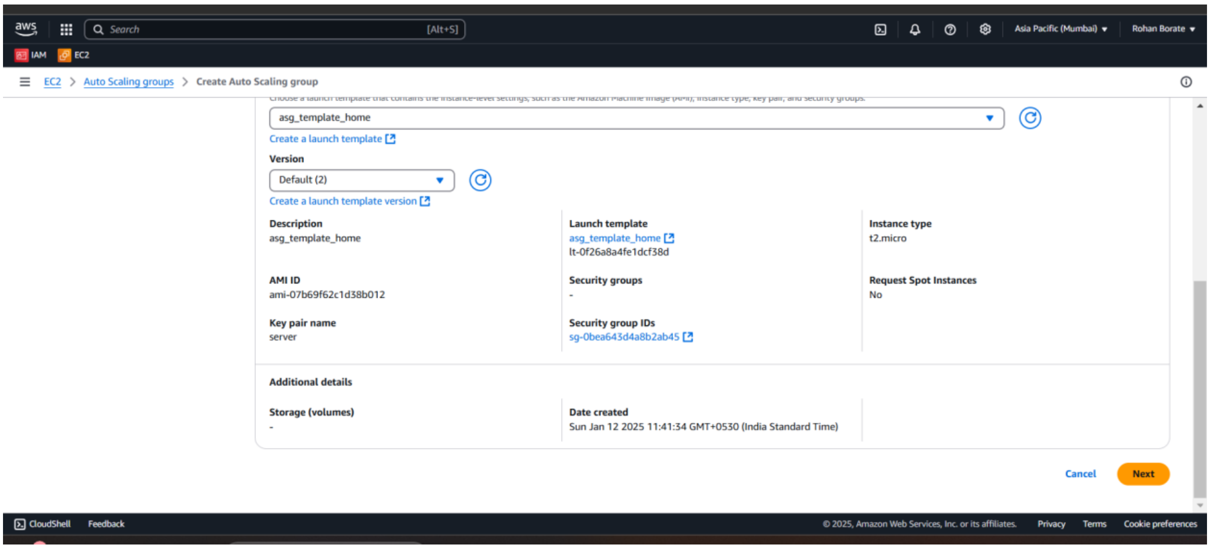
Auto Scaling group name
Enter a name to identify the group.
asg_home
Must be unique to this account in the current Region and no more than 255 characters.

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.
asg_template_home ▾
Create a launch template

Version
Default (2) ▾



asg_template_home ▾

Create a launch template

Version

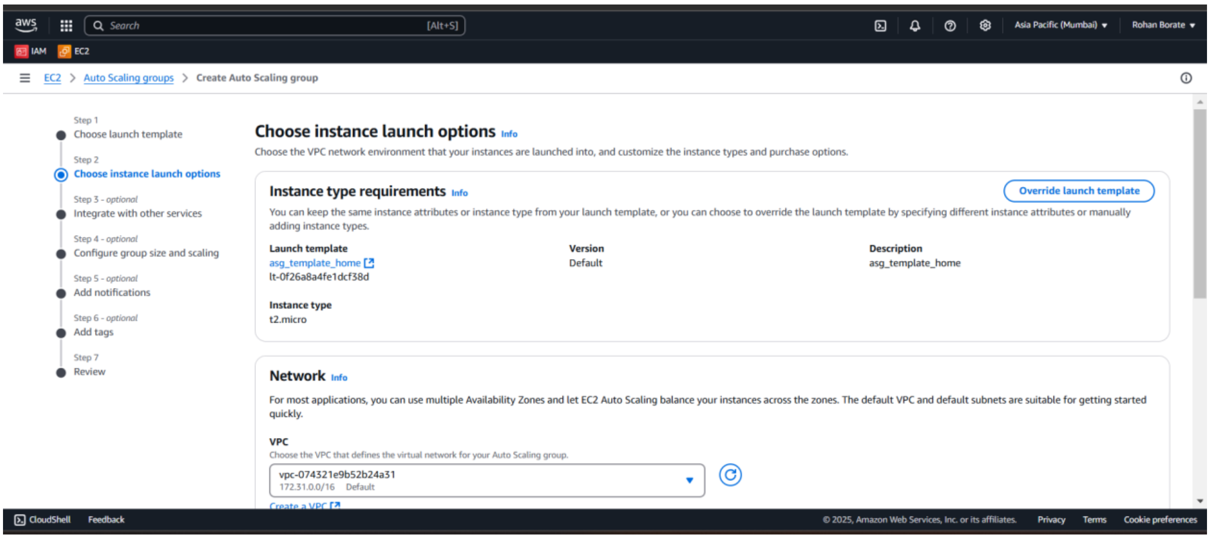
Default (2) ▾

Create a launch template version

Description	Launch template	Instance type
asg_template_home	asg_template_home lt-0f26a8a4fe1dcf38d	t2.micro
AMI ID	**Security groups**	**Request Spot Instances**
ami-07b69f62c1d38b012	-	No
Key pair name	**Security group IDs**	
server	sg-0bea643d4a8b2ab45	

Additional details

Storage (volumes)	Date created
-	Sun Jan 12 2025 11:41:34 GMT+0530 (India Standard Time)



Choose instance launch options Info

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

Instance type requirements Info

Override launch template

You can keep the same instance attributes or instance type from your launch template, or you can choose to override the launch template by specifying different instance attributes or manually adding instance types.

Launch template	Version	Description
asg_template_home lt-0f26a8a4fe1dcf38d	Default	asg_template_home

Instance type

t2.micro

Network Info

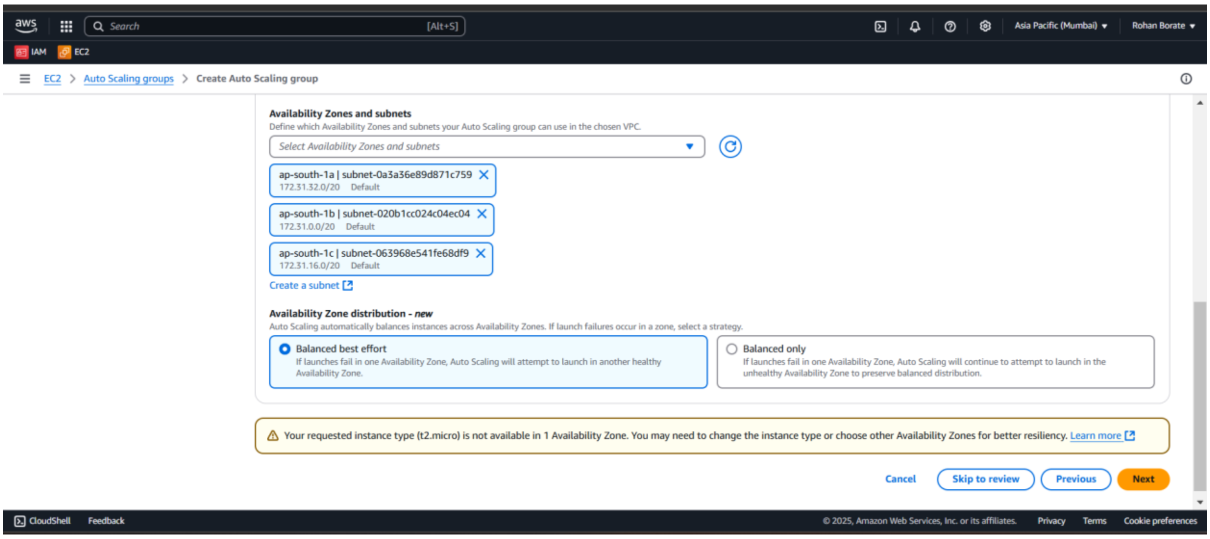
For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC

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

vpc-074321e9b52b24a31
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-0a3a36e89d871c759 ✕
172.31.32.0/20 Default

ap-south-1b | subnet-020b1cc024c04ec04 ✕
172.31.0.0/20 Default

ap-south-1c | subnet-063968e541fe68df9 ✕
172.31.16.0/20 Default

Create a subnet

Availability Zone distribution - *new*

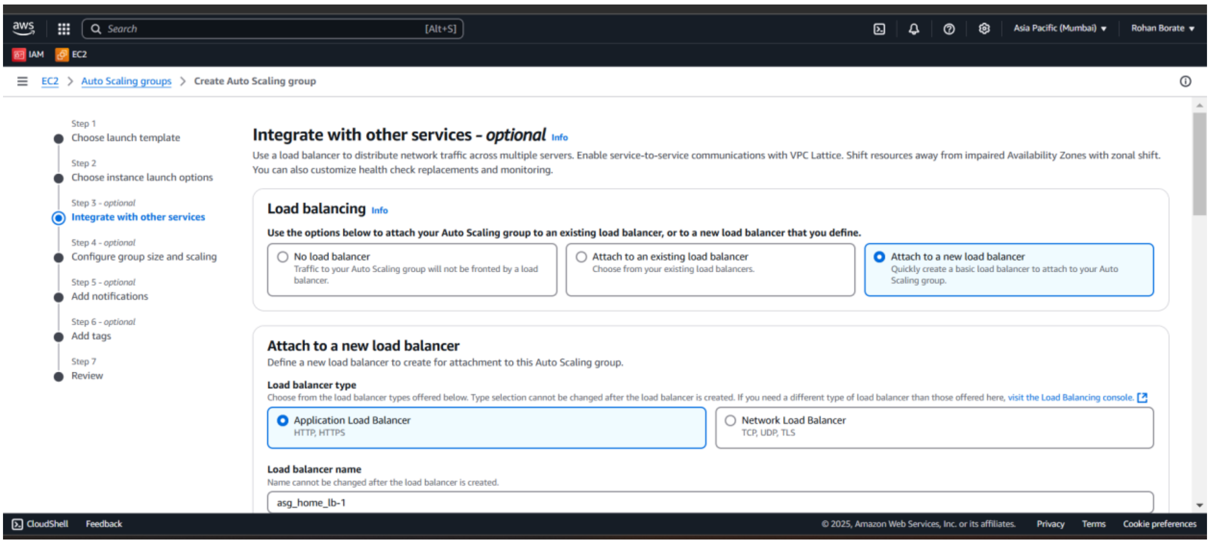
Auto Scaling automatically balances instances across Availability Zones. If launch failures occur in a zone, select a strategy.

● Balanced best effort
If launches fail in one Availability Zone, Auto Scaling will attempt to launch in another healthy Availability Zone.

○ Balanced only
If launches fail in one Availability Zone, Auto Scaling will continue to attempt to launch in the unhealthy Availability Zone to preserve balanced distribution.

⚠ 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

Now we have to integrate the ASG to other services , like load balancer and Target groups



Integrate with other services - *optional* Info

Use a load balancer to distribute network traffic across multiple servers. Enable service-to-service communications with VPC Lattice. Shift resources away from impaired Availability Zones with zonal shift. You can also customize health check replacements and monitoring.

Load balancing 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 a new load balancer

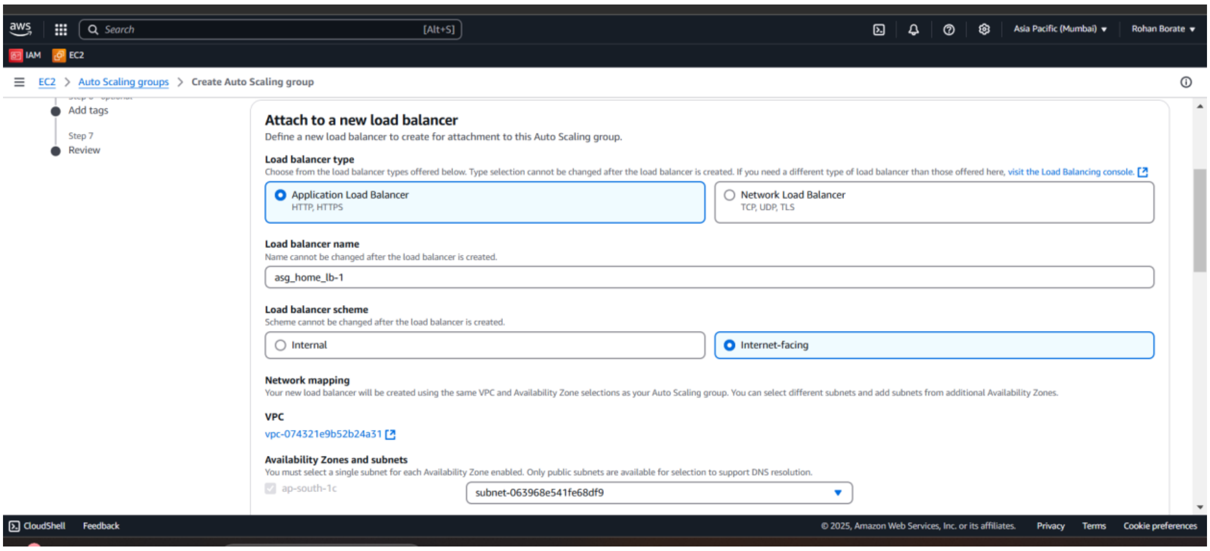
Define a new load balancer to create for attachment to this Auto Scaling group.

Load balancer type
Choose from the load balancer types offered below. Type selection cannot be changed after the load balancer is created. If you need a different type of load balancer than those offered here, visit the Load Balancing console.

● Application Load Balancer
HTTP, HTTPS

○ Network Load Balancer
TCP, UDP, TLS

Load balancer name
Name cannot be changed after the load balancer is created.
asg_home_lb-1



Attach to a new load balancer

Define a new load balancer to create for attachment to this Auto Scaling group.

Load balancer type
Choose from the load balancer types offered below. Type selection cannot be changed after the load balancer is created. If you need a different type of load balancer than those offered here, visit the Load Balancing console.

● Application Load Balancer
HTTP, HTTPS

○ Network Load Balancer
TCP, UDP, TLS

Load balancer name
Name cannot be changed after the load balancer is created.
asg_home_lb-1

Load balancer scheme
Scheme cannot be changed after the load balancer is created.

○ Internal

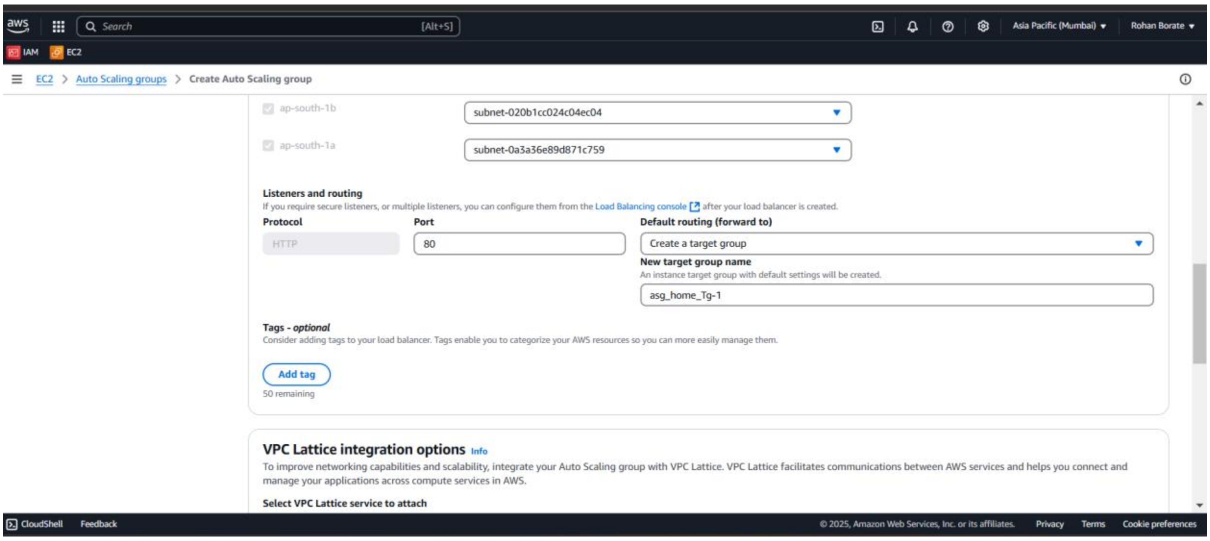
● Internet-facing

Network mapping
Your new load balancer will be created using the same VPC and Availability Zone selections as your Auto Scaling group. You can select different subnets and add subnets from additional Availability Zones.

VPC
vpc-074321e9b52b24a31

Availability Zones and subnets
You must select a single subnet for each Availability Zone enabled. Only public subnets are available for selection to support DNS resolution.

☑ ap-south-1c subnet-063968e541fe68df9 ▼



☑ ap-south-1b subnet-020b1cc024c04ec04 ▼

☑ ap-south-1a subnet-0a3a36e89d871c759 ▼

Listeners and routing
If you require secure listeners, or multiple listeners, you can configure them from the Load Balancing console after your load balancer is created.

Protocol	Port	Default routing (forward to)
HTTP	80	Create a target group ▼

New target group name
An instance target group with default settings will be created.
asg_home_Tg-1

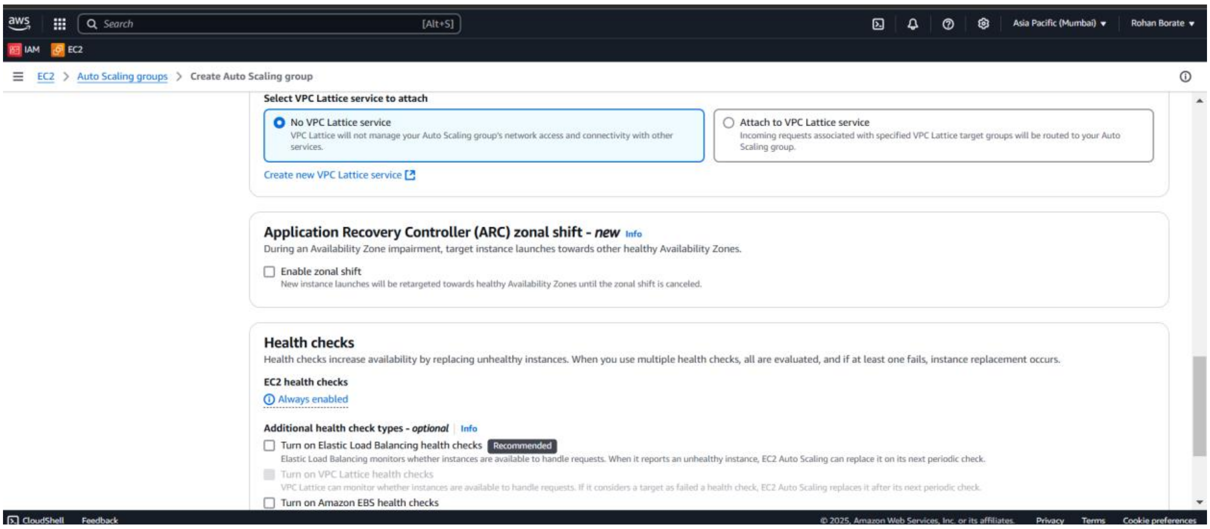
Tags - *optional*
Consider adding tags to your load balancer. Tags enable you to categorize your AWS resources so you can more easily manage them.

Add tag
50 remaining

VPC Lattice integration options Info

To improve networking capabilities and scalability, integrate your Auto Scaling group with VPC Lattice. VPC Lattice facilitates communications between AWS services and helps you connect and manage your applications across compute services in AWS.

Select VPC Lattice service to attach


aws
Search [Alt+S]
Asia Pacific (Mumbai)
Rohan Borate
IAM
EC2
EC2 > Auto Scaling groups > Create Auto Scaling group
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Select VPC Lattice service to attach

● No VPC Lattice service
VPC Lattice will not manage your Auto Scaling group's network access and connectivity with other services.

○ Attach to VPC Lattice service
Incoming requests associated with specified VPC Lattice target groups will be routed to your Auto Scaling group.

Create new VPC Lattice service

Application Recovery Controller (ARC) zonal shift - *new* Info

During an Availability Zone impairment, target instance launches towards other healthy Availability Zones.

□ Enable zonal shift
New instance launches will be retargeted towards healthy Availability Zones until the zonal shift is canceled.

Health checks

Health checks increase availability by replacing unhealthy instances. When you use multiple health checks, all are evaluated, and if at least one fails, instance replacement occurs.

EC2 health checks

Always enabled

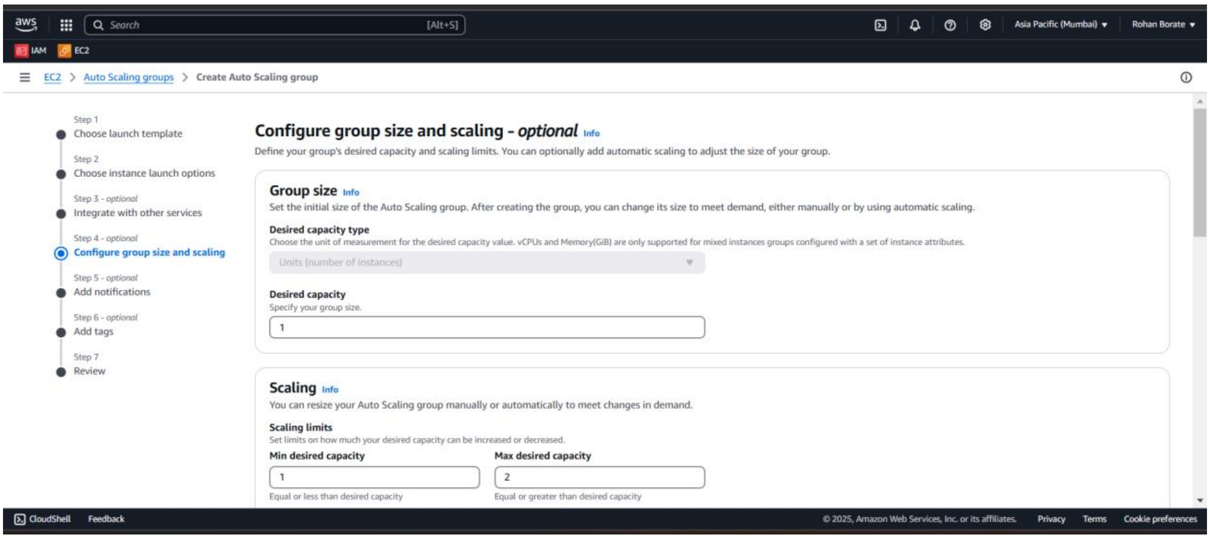
Additional health check types - *optional* Info

□ Turn on Elastic Load Balancing health checks Recommended
Elastic Load Balancing monitors whether instances are available to handle requests. When it reports an unhealthy instance, EC2 Auto Scaling can replace it on its next periodic check.

□ Turn on VPC Lattice health checks
VPC Lattice can monitor whether instances are available to handle requests. If it considers a target as failed a health check, EC2 Auto Scaling replaces it after its next periodic check.

□ Turn on Amazon EBS health checks

Configure group size and scaling options


aws
Search [Alt+S]
Asia Pacific (Mumbai)
Rohan Borate
IAM
EC2
EC2 > Auto Scaling groups > Create Auto Scaling group
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Step 1
Choose launch template

Step 2
Choose instance launch options

Step 3 - *optional*
Integrate with other services

Step 4 - *optional*
Configure group size and scaling

Step 5 - *optional*
Add notifications

Step 6 - *optional*
Add tags

Step 7
Review

Configure group size and scaling - *optional* Info

Define your group's desired capacity and scaling limits. You can optionally add automatic scaling to adjust the size of your group.

Group size Info

Set the initial size of the Auto Scaling group. After creating the group, you can change its size to meet demand, either manually or by using automatic scaling.

Desired capacity type
Choose the unit of measurement for the desired capacity value. vCPUs and Memory(GiB) are only supported for mixed instances groups configured with a set of instance attributes.
Units (number of instances)

Desired capacity
Specify your group size.
1

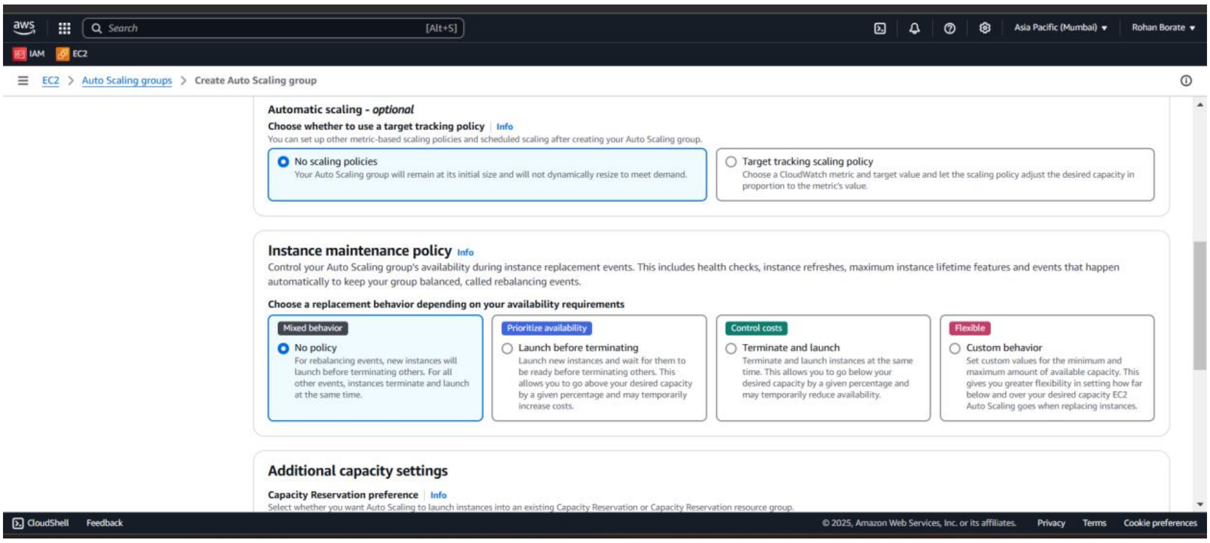
Scaling Info

You can resize your Auto Scaling group manually or automatically to meet changes in demand.

Scaling limits
Set limits on how much your desired capacity can be increased or decreased.

Min desired capacity
1
Equal or less than desired capacity

Max desired capacity
2
Equal or greater than desired capacity


aws
Search [Alt+S]
Asia Pacific (Mumbai)
Rohan Borate
IAM
EC2
EC2 > Auto Scaling groups > Create Auto Scaling group
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Automatic scaling - *optional*

Choose whether to use a target tracking policy Info
You can set up other metric-based scaling policies and scheduled scaling after creating your Auto Scaling group.

● No scaling policies
Your Auto Scaling group will remain at its initial size and will not dynamically resize to meet demand.

○ Target tracking scaling policy
Choose a CloudWatch metric and target value and let the scaling policy adjust the desired capacity in proportion to the metric's value.

Instance maintenance policy Info

Control your Auto Scaling group's availability during instance replacement events. This includes health checks, instance refreshes, maximum instance lifetime features and events that happen automatically to keep your group balanced, called rebalancing events.

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.

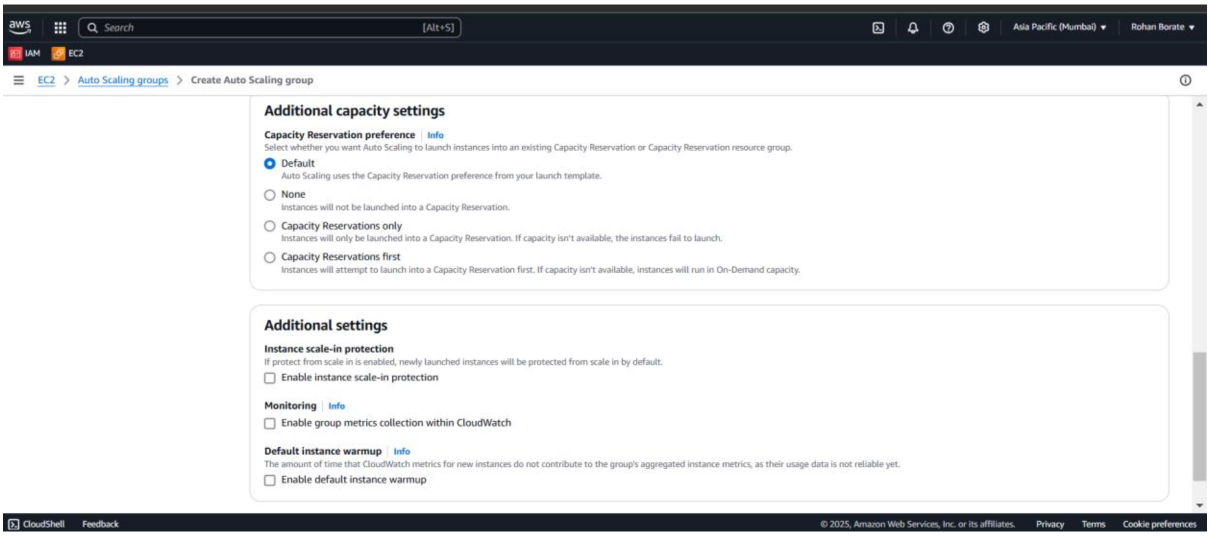
Prioritize availability
○ Launch before terminating
Launch new instances and wait for them to be ready before terminating others. This allows you to go above your desired capacity by a given percentage and may temporarily increase costs.

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.

Additional capacity settings

Capacity Reservation preference Info
Select whether you want Auto Scaling to launch instances into an existing Capacity Reservation or Capacity Reservation resource group.



EC2 > Auto Scaling groups > Create Auto Scaling group

Additional capacity settings

Capacity Reservation preference Info

Select whether you want Auto Scaling to launch instances into an existing Capacity Reservation or Capacity Reservation resource group.

● Default
Auto Scaling uses the Capacity Reservation preference from your launch template.

○ None
Instances will not be launched into a Capacity Reservation.

○ Capacity Reservations only
Instances will only be launched into a Capacity Reservation. If capacity isn't available, the instances fail to launch.

○ Capacity Reservations first
Instances will attempt to launch into a Capacity Reservation first. If capacity isn't available, instances will run in On-Demand capacity.

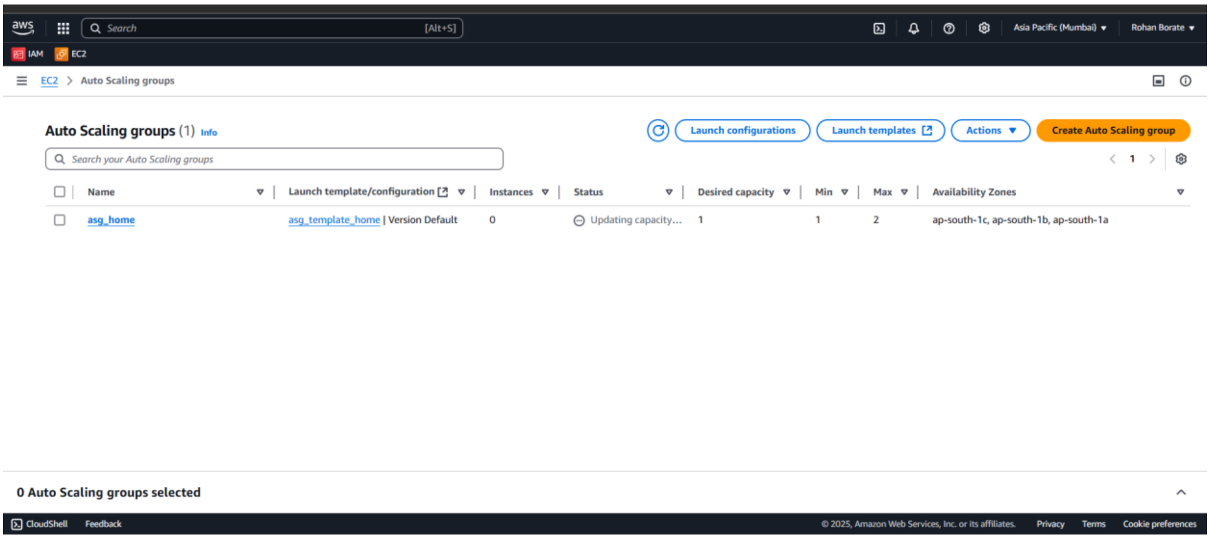
Additional settings

Instance scale-in protection
If protect from scale in is enabled, newly launched instances will be protected from scale in by default.
□ Enable instance scale-in protection

Monitoring Info
□ Enable group metrics collection within CloudWatch

Default instance warmup Info
The amount of time that CloudWatch metrics for new instances do not contribute to the group's aggregated instance metrics, as their usage data is not reliable yet.
□ Enable default instance warmup

Now our autoscaling group is created successfully



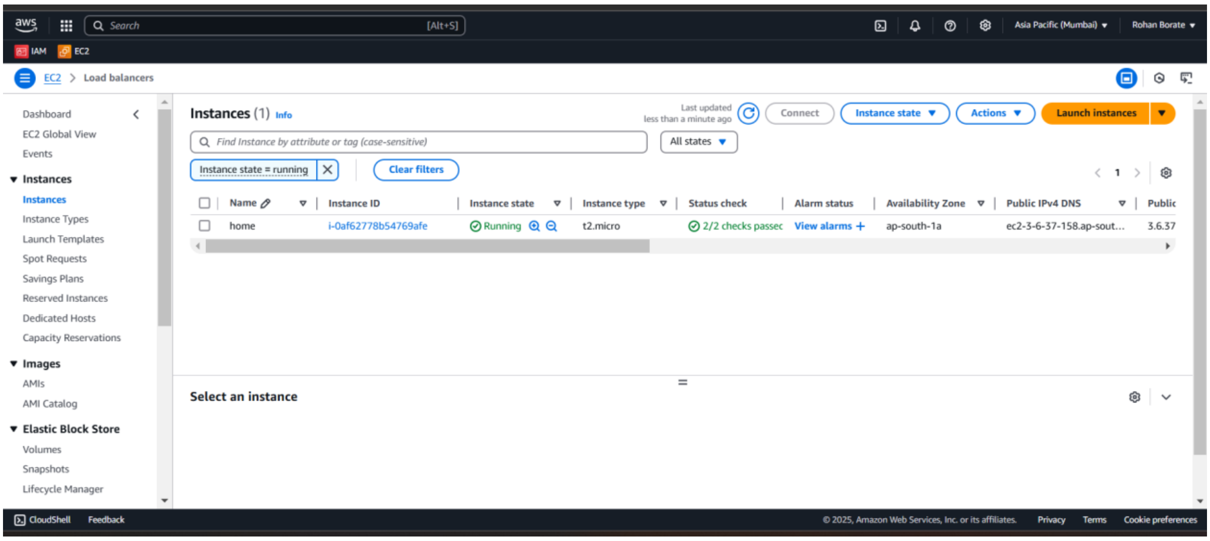
EC2 > Auto Scaling groups

Auto Scaling groups (1) Info

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
asg_home	asg_template_home | Version Default	0	Updating capacity...	1	1	2	ap-south-1c, ap-south-1b, ap-south-1a

0 Auto Scaling groups selected

After successful creation of the ASG , instance is launched successfully for home section.



EC2 > Load balancers

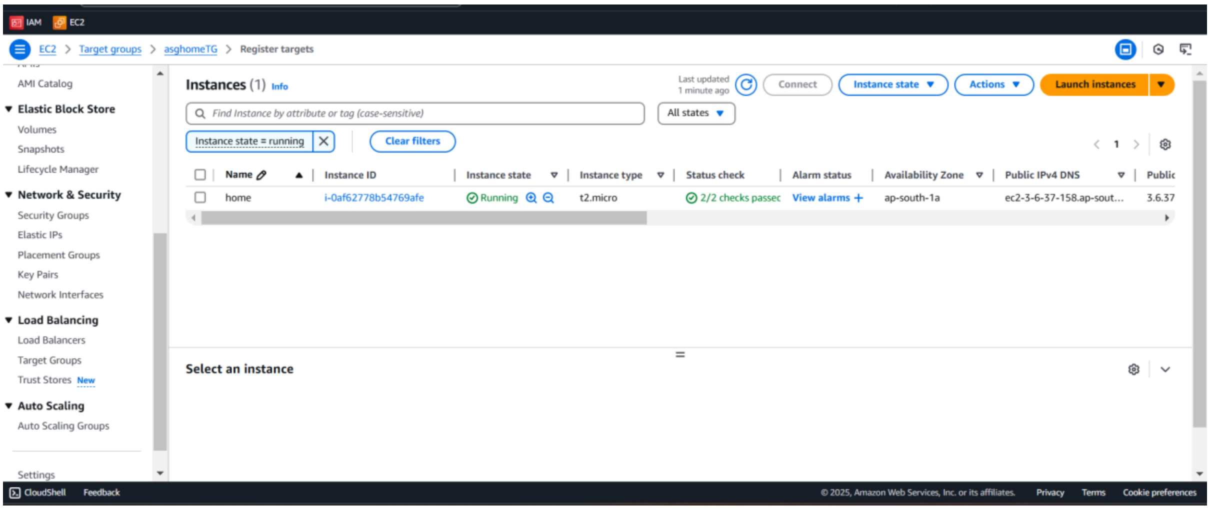
Instances (1) Info

Instance state = running

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
home	i-0af62778b54769afe	Running	t2.micro	2/2 checks passec	View alarms +	ap-south-1a	ec2-3-6-37-158.ap-sout...	3.6.37

Select an instance

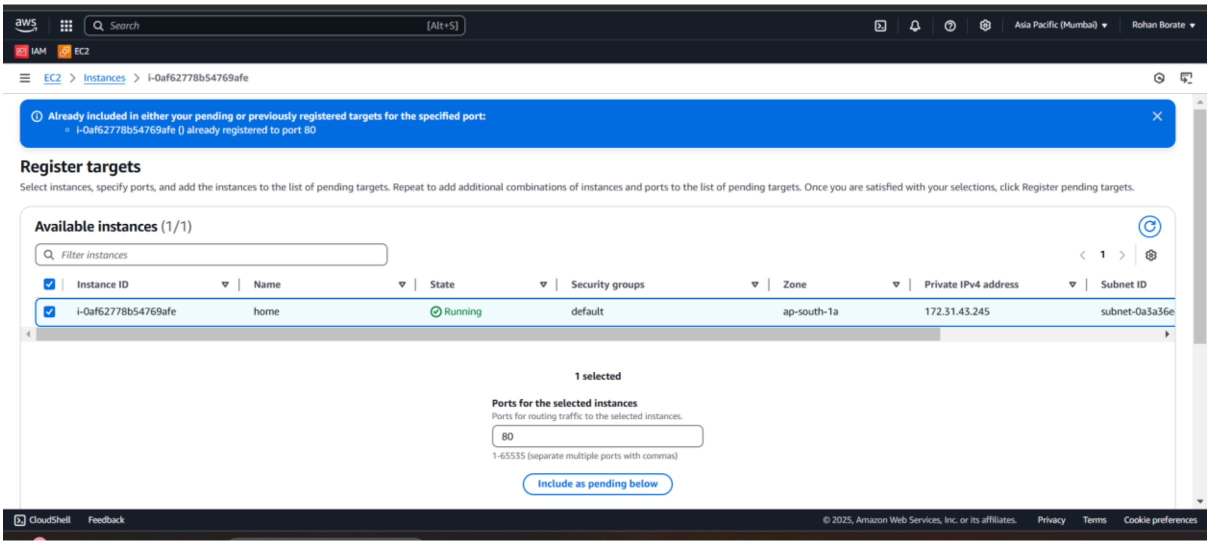
We have created the Target group, in previous sections but then we have to register the our running instance , so go to target group and register the instance



Instances (1) Info

□	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
□	home	i-0af62778b54769afe	Running	t2.micro	2/2 checks passec	View alarms +	ap-south-1a	ec2-3-6-37-158.ap-sout...	3.6.37

Select an instance



Already included in either your pending or previously registered targets for the specified port:
- i-0af62778b54769afe () already registered to port 80

Register targets

Select instances, specify ports, and add the instances to the list of pending targets. Repeat to add additional combinations of instances and ports to the list of pending targets. Once you are satisfied with your selections, click Register pending targets.

Available instances (1/1)

☑	Instance ID	Name	State	Security groups	Zone	Private IPv4 address	Subnet ID
☑	i-0af62778b54769afe	home	Running	default	ap-south-1a	172.31.43.245	subnet-0a3a36e

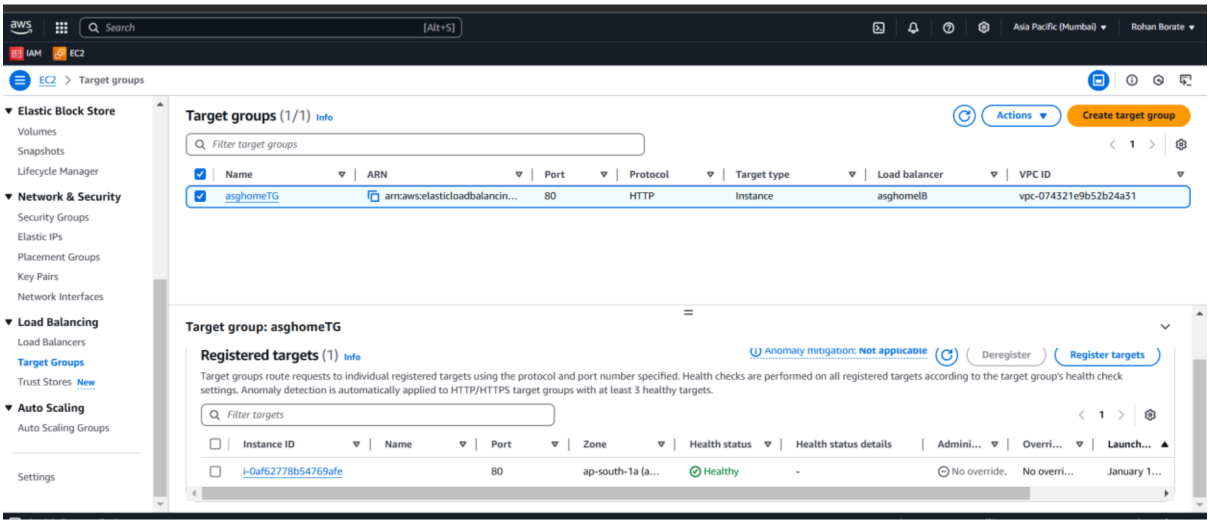
1 selected

Ports for the selected instances

Ports for routing traffic to the selected instances.

80

1-65535 (separate multiple ports with commas)



Target groups (1/1) Info

☑	Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
☑	asghomeTG	arn:aws:elasticloadbalancin...	80	HTTP	Instance	asghomelB	vpc-074321e9b52b24a31

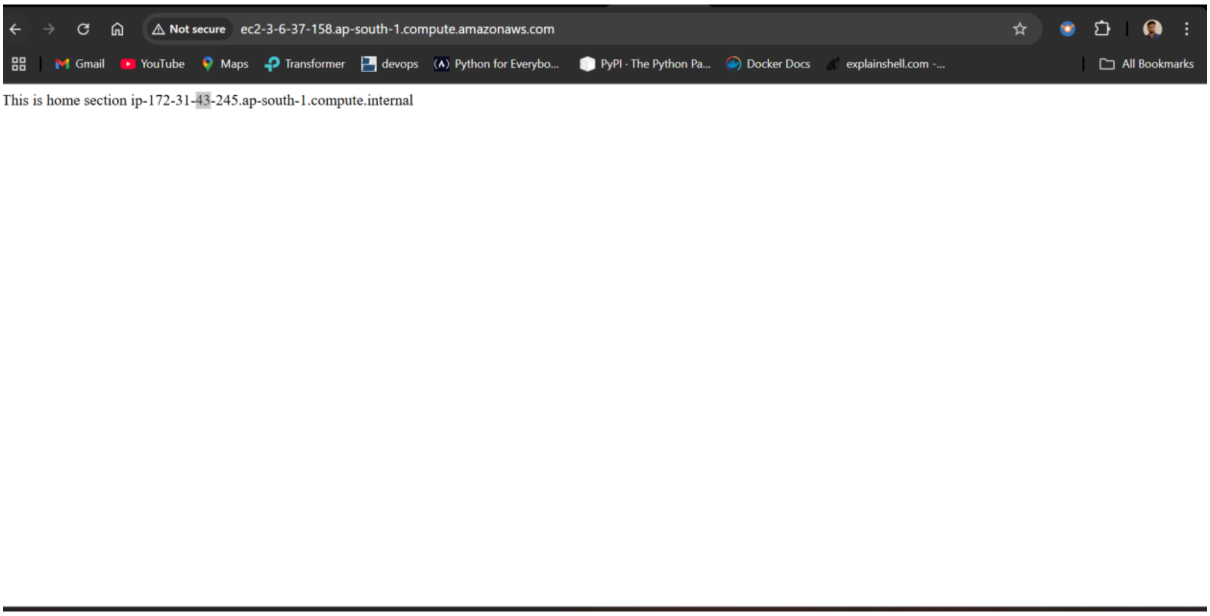
Target group: asghomeTG

Registered targets (1) Info

Target groups route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.

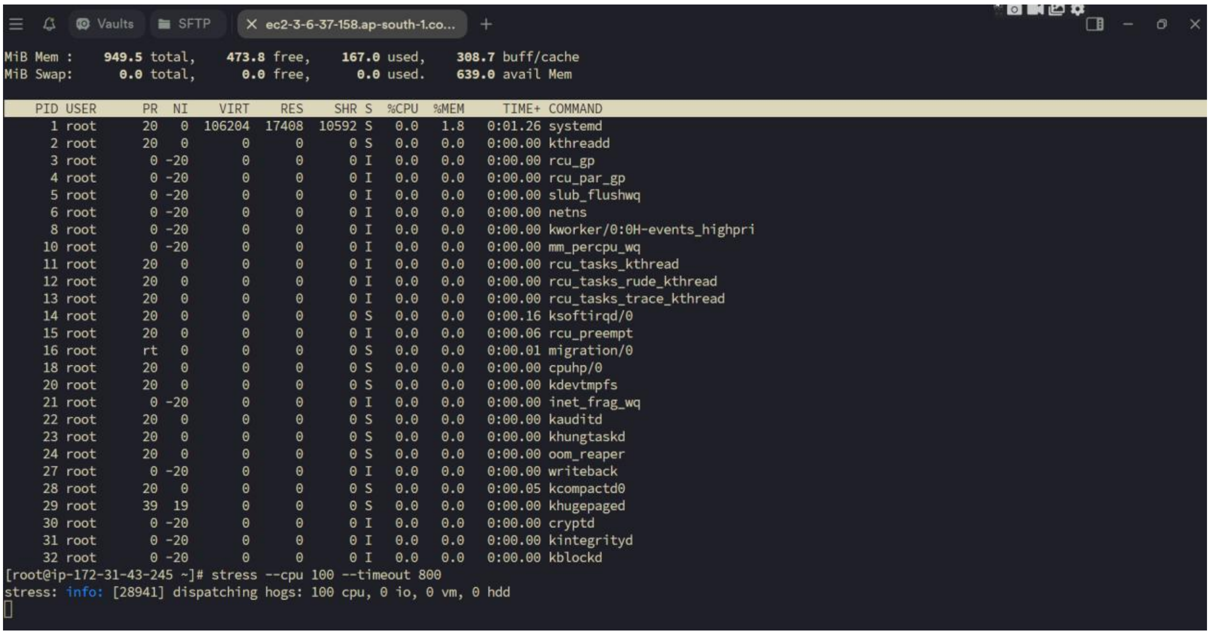
□	Instance ID	Name	Port	Zone	Health status	Health status details	Admini...	Overri...	Launch...
□	i-0af62778b54769afe		80	ap-south-1a (a...	Healthy	-	No override.	No overri...	January 1...

Now check that the httpd server is running on the instance , and the instance is accessible



This is home section ip-172-31-43-245.ap-south-1.compute.internal

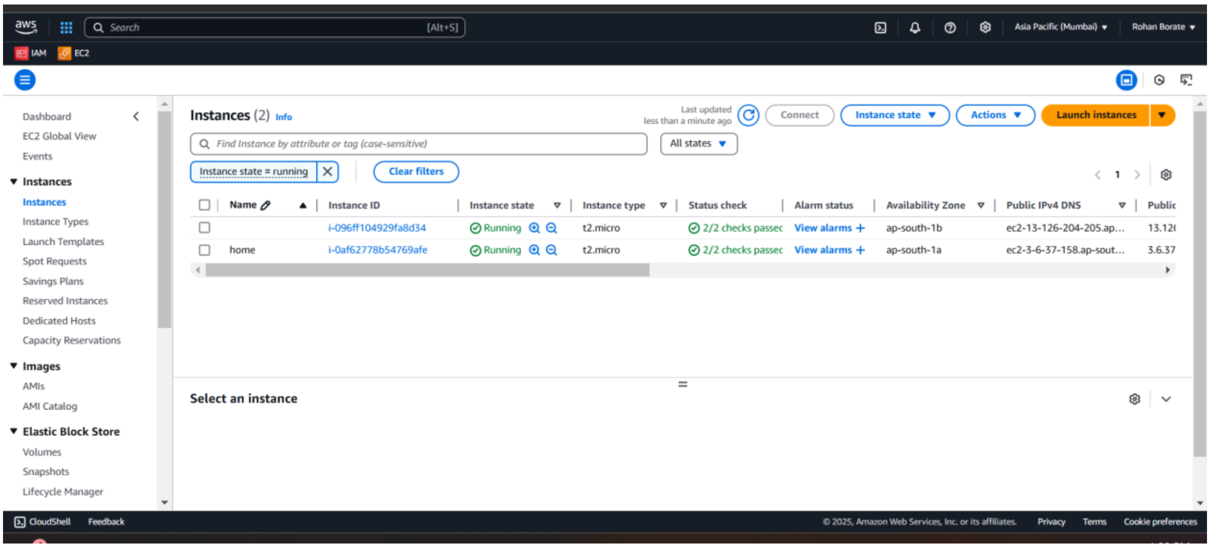
Increase the CPU utilization by using stress command , to check the ASG functionality



```
MiB Mem :    949.5 total,    473.8 free,    167.0 used,    308.7 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.    639.0 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
      1 root      20   0  106204  17408  10592 S   0.0   1.8   0:01.26 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_flushwq
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
      8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
     10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
     11 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_kthread
     12 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
     13 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
     14 root      20   0       0      0      0 S   0.0   0.0   0:00.16 ksoftirqd/0
     15 root      20   0       0      0      0 I   0.0   0.0   0:00.06 rcu_preempt
     16 root      rt   0       0      0      0 S   0.0   0.0   0:00.01 migration/0
     18 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     20 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kdevtmpfs
     21 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 inet_frag_wq
     22 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kauditd
     23 root      20   0       0      0      0 S   0.0   0.0   0:00.00 khungtaskd
     24 root      20   0       0      0      0 S   0.0   0.0   0:00.00 oom_reaper
     27 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 writeback
     28 root      20   0       0      0      0 S   0.0   0.0   0:00.05 kcompactd0
     29 root      39  19       0      0      0 S   0.0   0.0   0:00.00 khugepaged
     30 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 cryptd
     31 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kintegrityd
     32 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kblockd
[root@ip-172-31-43-245 ~]# stress --cpu 100 --timeout 800
stress: info: [28941] dispatching hogs: 100 cpu, 0 io, 0 vm, 0 hdd
```

After increasing the CPU utilization, after some time automatically one instance is created



Instances (2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public
	i-096ff104929fa8d34	Running	t2.micro	2/2 checks passec	View alarms +	ap-south-1b	ec2-13-126-204-205.ap...	13.12(
home	i-0af62778b54769afe	Running	t2.micro	2/2 checks passec	View alarms +	ap-south-1a	ec2-3-6-37-158.ap-sout...	3.6.37