

## AUTO SCALLING GROUP:

An Auto Scaling group contains a collection of EC2 instances that are treated as a logical grouping for the purposes of automatic scaling and management.

## STEPS TO CREATE AUTO SCALLING GROUP:

**STEP1**-->Create elastic load balancer --->classic load balancer--->create-->next-->define load balancer --->local balancer name(any)--->next

The screenshot shows the 'Step 1: Define Load Balancer' wizard in the AWS Management Console. The wizard has seven steps: 1. Define Load Balancer, 2. Assign Security Groups, 3. Configure Security Settings, 4. Configure Health Check, 5. Add EC2 Instances, 6. Add Tags, and 7. Review. The current step is 'Define Load Balancer'.

**Basic Configuration**

This wizard will walk you through setting up a new load balancer. Begin by giving your new load balancer a unique name so that you can identify it from other load balancers you might create. You will also need to configure ports and protocols for your load balancer. Traffic from your clients can be routed from any load balancer port to any port on your EC2 instances. By default, we've configured your load balancer with a standard web server on port 80.

**Load Balancer name:** seelan

**Create LB Inside:** My Default VPC (172.31.0.0/16)

**Create an internal load balancer:** ☐ (what's this?)

**Enable advanced VPC configuration:** ☐

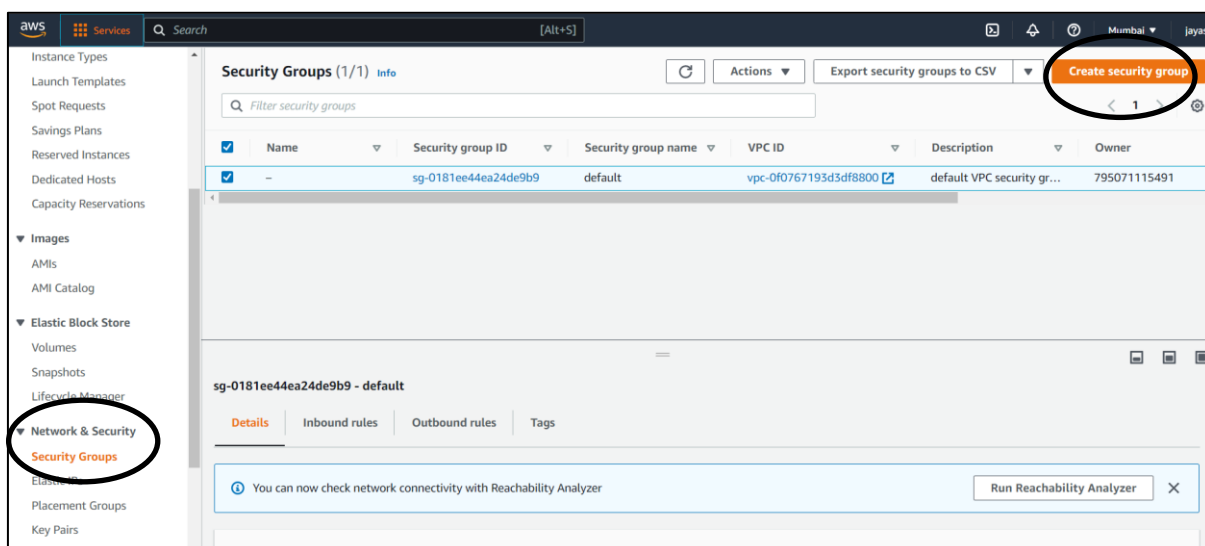
**Listener Configuration:**

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port
HTTP	80	HTTP	80

**Add**

[Cancel](#) [Next: Assign Security Groups](#)

**STEP2**--->network and security --->security group---->create new security group



**Step3**--->create security group--->basic details-->name(seelan)--->description(SSH)--->vpc

## Create security group [Info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

### Basic details

Security group name [Info](#)

Name cannot be edited after creation.

Description [Info](#)

VPC [Info](#)

×

**Step4**---> inbound rule---->add(ssh&http)--->create security group

Security group name [Info](#)

seelan

Name cannot be edited after creation.

Description [Info](#)

Allows SSH access to developers

VPC [Info](#)

Inbound rules [Info](#)

Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>
SSH	TCP	22	Anywh... <div><div></div><div>0.0.0.0/0</div><div></div></div>	<div></div> <div>Delete</div>
HTTP	TCP	80	Anywh... <div><div></div><div>0.0.0.0/0</div><div></div></div>	<div></div> <div>Delete</div>

Add rule

Security group id copy separate in notepad

Security Groups (1/2)
Info

Filter security groups

<

1

>

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	-	sg-0181ee44ea24de9b9	default	vpc-0f0767193d3df8800	default VPC security gr...	795071115491
<input checked="" type="checkbox"/>	-	sg-04fb4db9a7724df70	seelan	vpc-0f0767193d3df8800	ssh	795071115491

Details

Security group name

seelan

Security group ID

sg-04fb4db9a7724df70

Description

ssh

VPC ID

vpc-0f0767193d3df8800

Owner

795071115491

Inbound rules count

2 Permission entries

Outbound rules count

1 Permission entry

**Step5**---> come elastic load balacer page -->security group page-->

automatically created security group shown--->select--->next

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. Configure Health Check 5. Add EC2 Instances 6. Add Tags 7. Review

### Step 2: Assign Security Groups

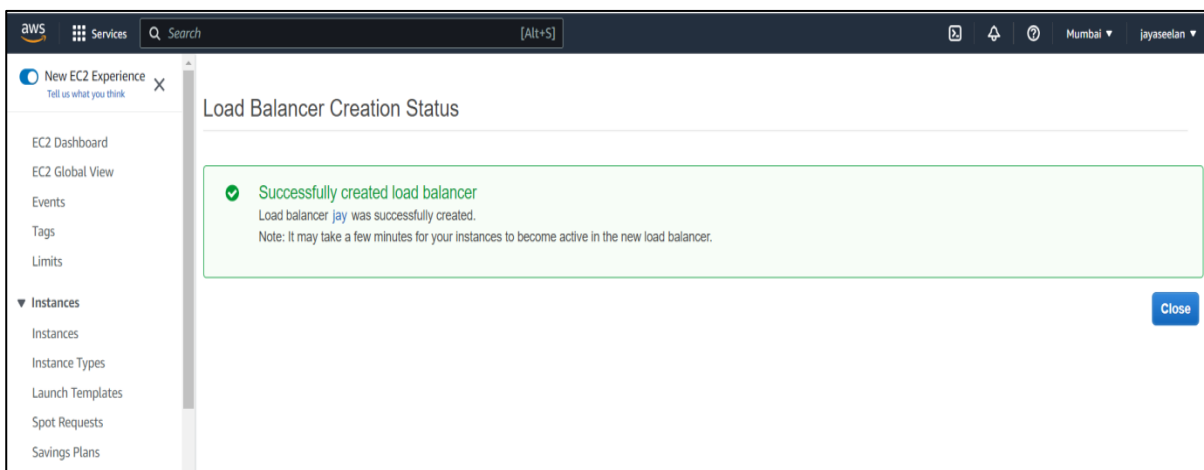
You have selected the option of having your Elastic Load Balancer inside of a VPC, which allows you to assign security groups to your load balancer. Please select the security groups to assign to this load balancer. This can be changed at any time.

**Assign a security group:** ☐ Create a new security group ☒ Select an existing security group

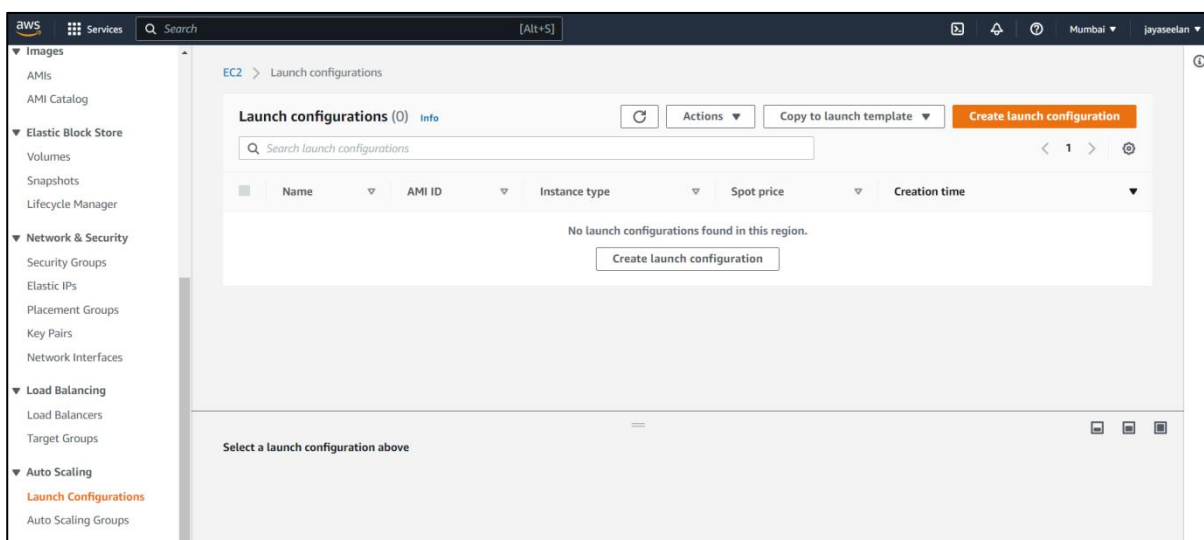
Filter: VPC security groups

Security Group ID	Name	Description	Actions
<input checked="" type="checkbox"/> sg-0181ee44ea24de9b9	default	default VPC security group	<a href="#">Copy to new</a>
<input checked="" type="checkbox"/> sg-04fb4db9a7724df70	seelan	ssh	<a href="#">Copy to new</a>

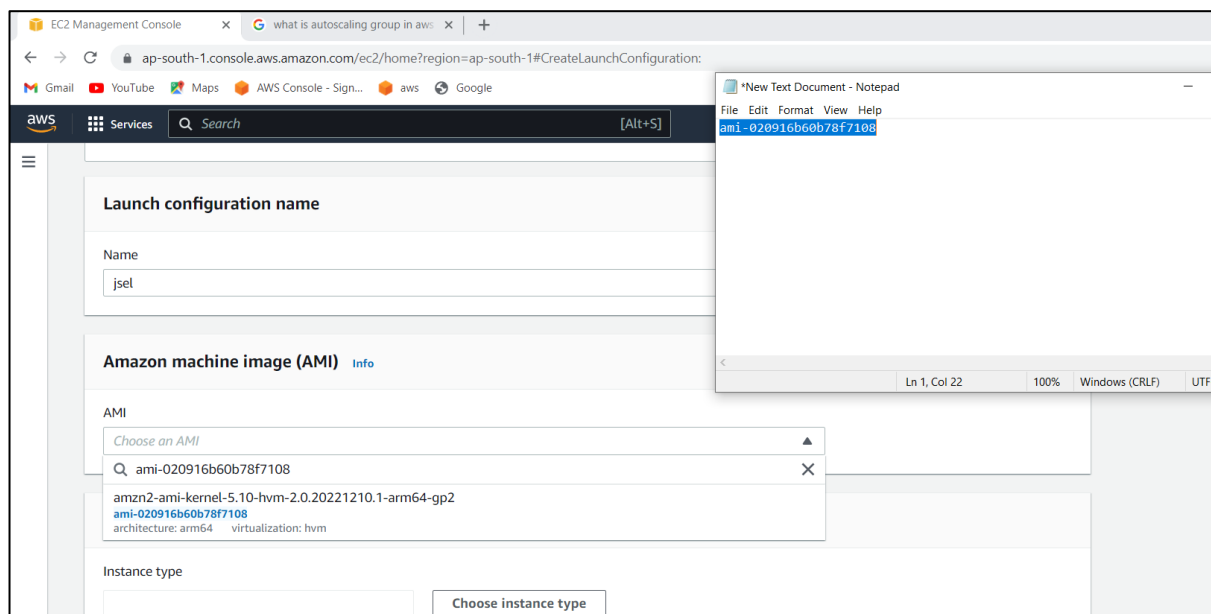
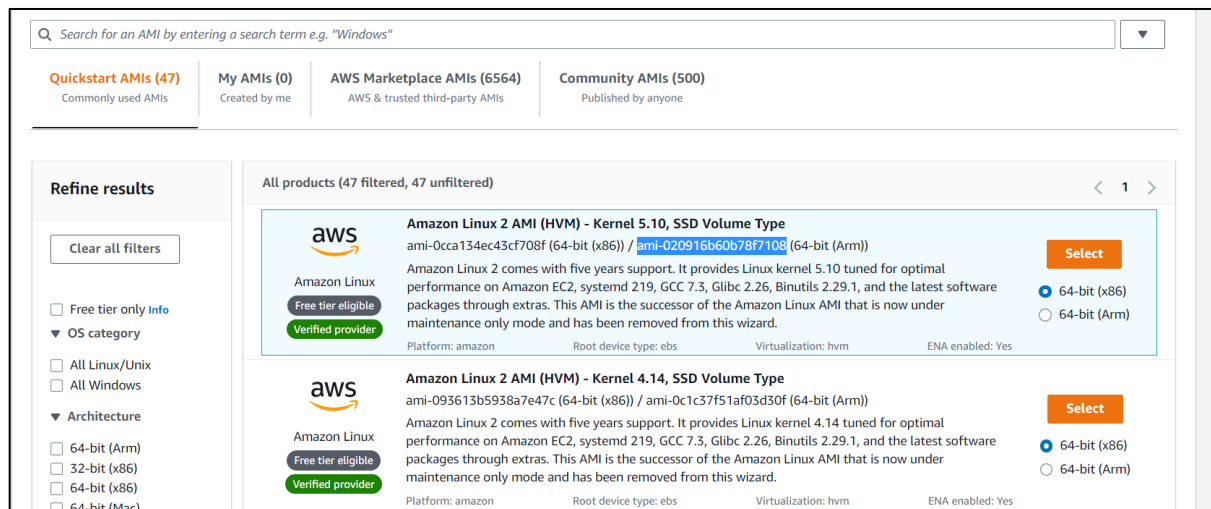
**Step6**--->follow next 5 steps and creat elastic load balacer



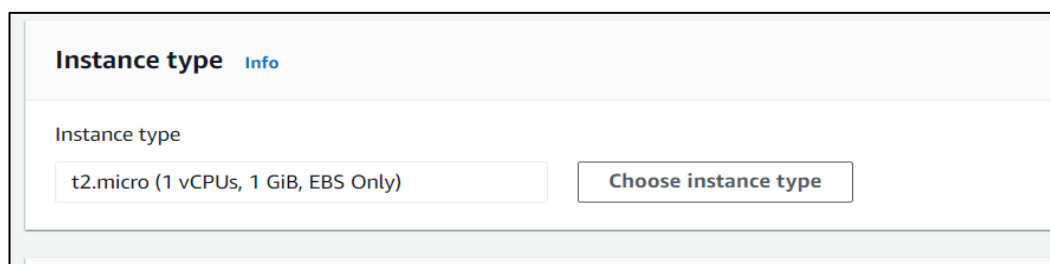
**Step7**--->Auto scalling ---->launch configuration--->create launch configuration

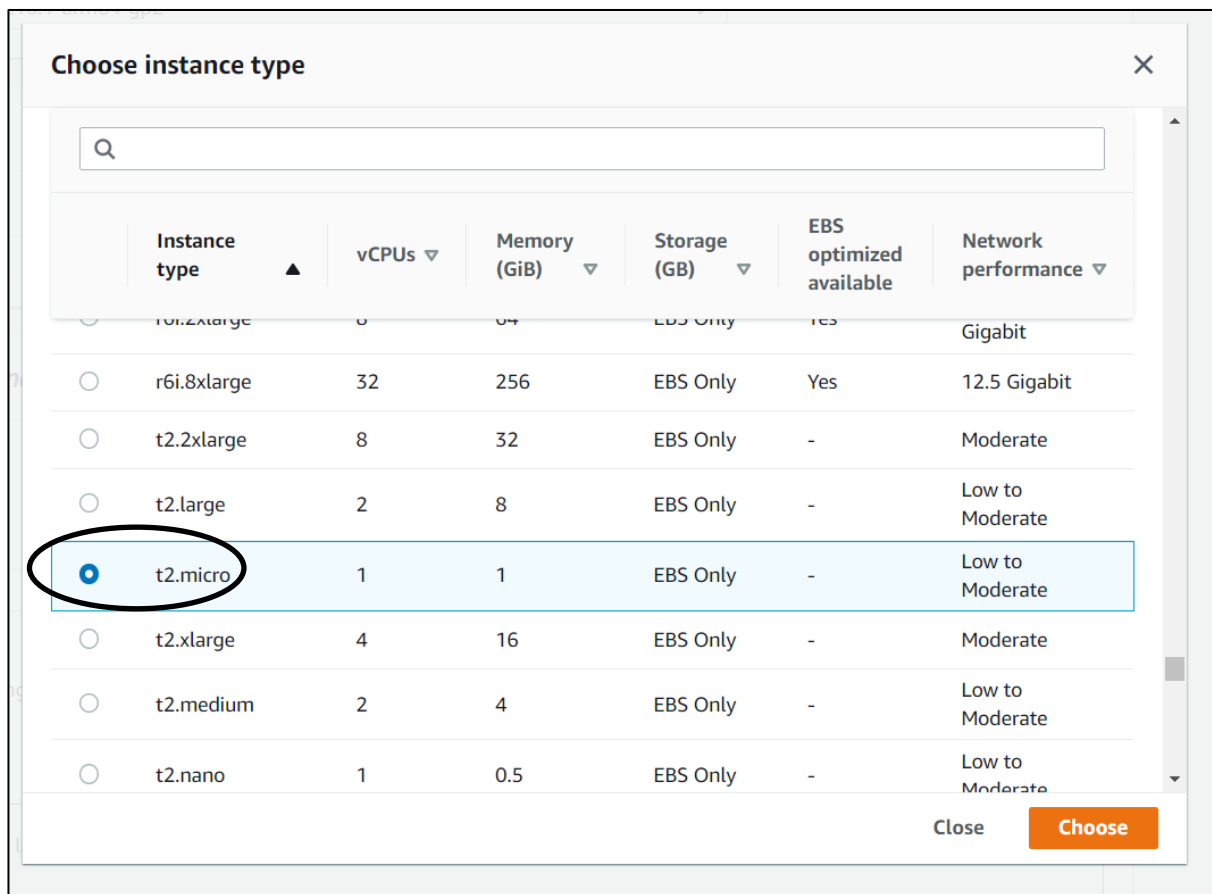


## Step8--->create launch configuration--->(name -->any)--->AMI select instance

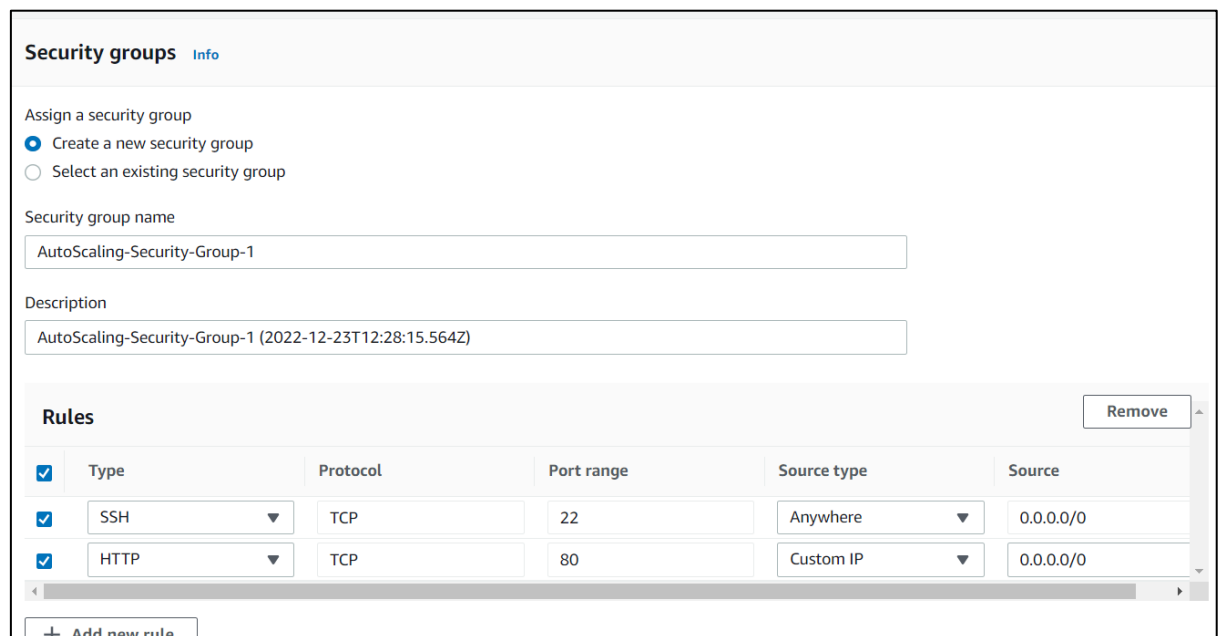


## Step9--->select instance type





**Step10**--->add security group rules --->HTTP---->source type(any where)



**Step11**--->Choose exiting key pair--->create launch configuration

**Key pair (login)** [Info](#)

Key pair options

Choose an existing key pair ▼

Existing key pair

mumbai1810 ▼

☒ I acknowledge that I have access to the selected private key file (mumbai1810.pem), and that without this file, I won't be able to log into my instance.

Cancel **Create launch configuration**

**Step12**--->launch configuration--->select scaling group--->action--->creat auto scaling group

EC2 > Launch configurations

**Launch configurations (1/1)** [Info](#)

Search launch configurations

☒ Name ▼ AMI ID ▼ Instance type ▼ Creation time ▼

<input checked="" type="checkbox"/>	jse	ami-020916b60b...	t2.micro	-	Fri Dec 23 2022 18:14:34 GMT+0530 (India St...
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Actions ▲ Copy to launch template ▼ **Create launch configuration**

- Create Auto Scaling group
- Delete launch configuration
- Copy launch configuration ▼

**Step13**--->choose launch template or configuration---->name(any)--->next

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1  
**Choose launch template or configuration**

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.

seel

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

**Launch configuration** [Info](#) [Switch to launch template](#)

**Warning** Instead of using launch configurations to create your EC2 Auto Scaling groups, we recommend that you use launch templates and make use of the Auto Scaling guidance option. For more information on migrating launch configurations and using launch templates, [see the documentation](#).

**Step14**--->network-->vpc--->availibilty zone(select 3 same zone)--->next

**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-0f0767193d3df8800  
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-1c | subnet-0e10626f93e73fef4 ✕  
172.31.16.0/20 Default

ap-south-1b | subnet-0391a184a9bd0a54b ✕  
172.31.0.0/20 Default

ap-south-1a | subnet-0bf35d27ce078df43 ✕  
172.31.32.0/20 Default

**Step15**--->load balancing--->attach to an exiting load balancer--->choose from classic load balancer ---->select load balacer(already create)--->select-->next

**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

**Classic Load Balancers**

Select Classic Load Balancers

↻

↻

jay ✕  
Classic Load Balancer

**Step16**--->group size optional---->2,2,3-->next

### 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

**Step17**--->add notification --->next

### Add notifications [Info](#)

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

Add notification

[Cancel](#) [Previous](#) [Skip to review](#) [Next](#)

**Step18**--->tags-->next

### 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.

You can optionally choose to add tags to instances (and their attached EBS volumes) by specifying tags in your launch template. We recommend caution, however, because the tag values for instances from your launch template will be overridden if there are any duplicate keys specified for the Auto Scaling group.

#### Tags (0)

Add tag

50 remaining

[Cancel](#) [Previous](#) [Next](#)



## Step19--->review--->create auto scalling group

Step 5: Add notifications Edit

**Notifications**

No notifications

Step 6: Add tags Edit

**Tags (0)**

Key	Value	Tag new instances
No tags		

Cancel Create Auto Scaling group

## Auto scalling group create completed...

seel created successfully

EC2 > Auto Scaling groups

**Auto Scaling groups (1/1)** [Info](#) Refresh Edit Delete Create an Auto Scaling group

Search your Auto Scaling groups

<input checked="" type="checkbox"/>	Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availabil...
<input checked="" type="checkbox"/>	seel	jse	0	Updating capacity...	2	2	3	ap-south-1...



