

STEP 1 CREATE INSTANCE GIVE INSTANCE NAME

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: facebook

Application and OS Images (Amazon Machine Image)

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.

Summary

Number of instances	Info
1	(edit)

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...
ami-074dc0a6fc764218

Virtual server type (instance type)
t2.micro

Firewall (security group)
New 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, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel Launch Instance

STEP 2 CHOOSE AMI

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Network & Security

- Security Groups
- Elastic IPs
- Placement Groups
- Key Pairs
- Network Interfaces

Load Balancing

- Load Balancers
- Target Groups

Feedback

Looking for language selection? Find it in the new Unified Settings.

Summary

Number of instances	Info
1	(edit)

Software Image (AMI)
Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type
ami-074dc0a6fc764218 (64-bit (x86)) / ami-019774ec5cfdf1685 (64-bit (arm))
Virtualization type: hvm ENA enabled: true Root device type: ebs

Virtual server type (instance type)
t2.micro

Firewall (security group)
None

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 I/Os, 1 GB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel Launch Instance

Instance type

t2.micro	Family: t2	1 vCPU	1 GiB Memory	Free tier eligible
	On-Demand Linux pricing: 0.0124 USD per Hour			
	On-Demand Windows pricing: 0.017 USD per Hour			

Compare instance types

EC2 Management Console

t2.micro Free tier eligible

Instances

Key pair (login) You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required linuxkeypair

Network settings

Subnet No preference (Default subnet in any availability zone)

Auto-assign public IP Enable

Firewall (security group) 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.

Create security group Select existing security group

Security groups info Select security groups hk

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 where t2.micro is unavailable) instead of 1 hour on Free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

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EC2 Management Console

t2.micro Free tier eligible

Instances

License configurations Info

Select a license configuration

Specify CPU options The selected instance type does not support CPU options.

Metadata accessible Info

Select

Metadata version Info

Select

Metadata response hop limit Info

Select

Allow tags in metadata Info

Select

User data Info

```
#!/bin/bash
yum install httpd -y
service httpd start
mkdir /var/www/html/facebook
echo "Application 1 is Working" > /var/www/html/facebook/index.html
```

User data has already been base64 encoded

Summary

Number of instances Info

1

Software Image (AMI) Amazon Linux 2 Kernel 5.10 AMI...read more ami-074dec0f6c764218

Virtual server type (instance type) t2.micro

Firewall (security group) hk

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 where t2.micro is unavailable) instead of 1 hour on Free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

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EC2 Management Console EC2 Management Console Billing Management Console

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#instances

New EC2 Experience Tell us what you think

Instances (2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 IP	Elastic IP
instagram	i-01312a230dbdf79c8	Running	t2.micro	2/2 checks passed	No alarms	+ ap-south-1b	ec2-43-204-102-249.ap...	43.204.102.249	-
facebook	i-0247955525226eabb	Running	t2.micro	2/2 checks passed	No alarms	+ ap-south-1b	ec2-65-0-176-186.ap.s...	65.0.176.186	-

Connect Instance state Actions Launch instances

Select an instance

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Target groups | EC2 Management Console EC2 Management Console Billing Management Console

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#targetGroups

New EC2 Experience Tell us what you think

EC2 > Target groups

Target groups (0) Info

Search or filter target groups

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
No target groups						

You don't have any target groups in ap-south-1

Create target group

0 target groups selected

Select a target group above.

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EC2 > Target groups > Create target group

Specify group details

Your load balancer routes requests to the targets in a target group and performs health checks on the targets.

Step 1: Specify group details

Basic configuration
Settings in this section cannot be changed after the target group is created.

Choose a target type

Instances
Supports load balancing to instances within a specific VPC.
Facilitates the use of Amazon EC2 Auto Scaling to manage and scale your EC2 capacity.

IP addresses
Supports load balancing to VPC and on-premises resources.
Facilitates routing to multiple IP addresses and network interfaces on the same instance.
Offers flexibility with microservice based architectures, simplifying inter-application communication.
Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.

Lambda function
Facilitates routing to a single Lambda function.
Accessible to Application Load Balancers only.

Application Load Balancer
Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.
Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.

Target group name

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Protocol version

HTTP1
Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.

HTTP2
Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.

gRPC
Send requests to targets using gRPC. Supported when the request protocol is gRPC.

Health checks
The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.

Health check protocol

Health check path
Use the default path of "/" to ping the root, or specify a custom path if preferred.

Up to 1024 characters allowed.

Advanced health check settings

Attributes

Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.

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

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The screenshot shows the AWS EC2 Management Console interface for creating a target group. It consists of three vertically stacked windows.

Top Window: Step 1: Specify group details. Under "Register targets", it shows "Available instances (1/2)". There are two instances listed: "instagram" (Instance ID: i-01312a250dbdf79c8, State: running, Security groups: hk, Zone: ap-south-1b, Subnet ID: subnet-0d615778e43fcf276) and "facebook" (Instance ID: i-024795552526eebb, State: running, Security groups: hk, Zone: ap-south-1b, Subnet ID: subnet-0d615778e43fcf276). A port range of "80" is selected for routing traffic. An "Include as pending below" button is present.

Instance ID	Name	State	Security groups	Zone	Subnet ID
i-01312a250dbdf79c8	instagram	running	hk	ap-south-1b	subnet-0d615778e43fcf276
i-024795552526eebb	facebook	running	hk	ap-south-1b	subnet-0d615778e43fcf276

Middle Window: Step 2: Register targets. It shows the "Review targets" section with a table header: Targets (0), Instance ID, Name, Port, State, Security groups, Zone, Subnet ID. A message indicates "No instances added yet".

Targets (0)	Instance ID	Name	Port	State	Security groups	Zone	Subnet ID
No instances added yet							

Bottom Window: EC2 > Target groups. It shows the "Target groups (1) Info" table with one entry: "facebook-tg". The table columns include Name, ARN, Port, Protocol, Target type, Load balancer, and VPC ID. The "Load balancer" column shows "None associated".

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
facebook-tg	arn:aws:elasticloadbalancing:ap-south-1:123456789012:targetgroup/facebook-tg/123456789012345678	80	HTTP	Instance	None associated	vpc-020a4bc761caab313

A green banner at the top of the bottom window says "Successfully created target group: facebook-tg".

Target groups | EC2 Management Console

Successfully created target group: **Instagram-tg**

EC2 > Target groups

Target groups (2) Info

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
facebook-tg	arn:aws:elasticloadbalancing:ap-south-1:123456789012:targetgroup/facebook-tg/5678901234567890	80	HTTP	Instance	None associated	vpc-020a4bc761cab513
Instagram-tg	arn:aws:elasticloadbalancing:ap-south-1:123456789012:targetgroup/Instagram-tg/5678901234567890	80	HTTP	Instance	None associated	vpc-020a4bc761cab513

0 target groups selected

Select a target group above.

Create Application Load Balancer

The Application Load Balancer distributes incoming HTTP and HTTPS traffic across multiple targets such as Amazon EC2 instances, microservices, and containers, based on request attributes. When the load balancer receives a connection request, it evaluates the listener rules in priority order to determine which rule to apply, and if applicable, it selects a target from the target group for the rule action.

How Elastic Load balancing works

Basic configuration

Load balancer name: **appn-lb**

Scheme: **Internet-facing**

IP address type: **IPv4**

Network mapping:

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Screenshot of the AWS CloudFront console showing the creation of a new distribution.

Mappings Info

Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.

ap-south-1a

Subnet: subnet-036fc2256d0a45410

IPv4 settings

Assigned by AWS

ap-south-1b

Subnet: subnet-0d615778e45fc276

IPv4 settings

Assigned by AWS

ap-south-1c

Subnet: subnet-0e0cd480f0de994af

IPv4 settings

Assigned by AWS

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Security groups Info

A security group is a set of firewall rules that control the traffic to your load balancer.

Security groups: Select up to 5 security groups

hk sg-0cb1411e3549837f

VPC: vpc-020a4bc70caed313

Listeners and routing Info

A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

▼ Listener HTTP:80

Protocol: HTTP Port: 80 Default action: Select a target group

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The screenshot shows two separate browser windows for the AWS EC2 Management Console.

Top Window: Create new security group

- Region:** ap-south-1
- Name:** hkB6113549837F
- VPC:** vpc-020a4bc761cab313
- Listeners and routing info:** Listener HTTP:80 (Protocol: HTTP, Port: 80, Default action: Forward to facebook-tg, Target type: Instance, IPv4 1-65535)
- Listener tags - optional:** Add listener tag (You can add up to 50 more tags).
- Add-on services - optional:** AWS Global Accelerator Info (Create an accelerator to get static IP addresses and improve the performance and availability of your applications. Additional charges apply.)

Bottom Window: Load Balancers

- Region:** ap-south-1
- Load Balancers:** search = appn-lb (1 result found)

Name	DNS name	State	VPC ID	Availability Zones	Type	Created At	Monitoring
appn-lb	appn-lb-1640305811.ap-sout...	Provisioning	vpc-020a4bc761cab313	ap-south-1a, ap-south-1b	application	November 24, 2022 at 6:02:3...	
- Load balancer details:** appn-lb
 - Description:** appn-lb
 - Listeners:** appn-lb
 - Monitoring:** appn-lb
 - Integrated services:** appn-lb
 - Tags:** appn-lb
 - Basic Configuration:**

Name	Value
Name	appn-lb
ARN	arn:aws:elasticloadbalancing:ap-south-1:1832823375801:loadbalancer/app/appn-lb/09117ddacc29628
DNS name	appn-lb-1640305811.ap-south-1.elb.amazonaws.com

Target groups | EC2 Management Console | Rules | EC2 Management Console

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ELBRules:type=application&loadBalancerName=appln-lb&loadBalancerId=09117ddacc29628;listenerId=e467bb5d29af8e5;accountId=832823375801

Mumbai Harkirat Singh

Click a location for your new rule. Each rule must include one action of type forward, redirect, fixed response.

appnlb | HTTP:80 (3 rules)

Rule limits for condition values, wildcards, and total rules

Insert Rule

RULE ID	IF (all match)	THEN
1	A rule ID (ARR) is generated when you save your rule. Path... IS /instagram* OR Value	1. Forward to... Target group: Weight (0-999) instagram-tg Traffic distribution: 100% Select a target group Group-level stickiness Add action
2	am..dc45 IF Path is /facebook*	THEN Forward to facebook-tg: 1 (100%) Group-level stickiness: Off
last	HTTP 80: default action This rule cannot be moved or deleted	THEN Forward to facebook-tg: 1 (100%) Group-level stickiness: Off

Cancel Save

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Target groups | EC2 Management Console | Rules | EC2 Management Console

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ELBRules:type=application&loadBalancerName=appln-lb&loadBalancerId=09117ddacc29628;listenerId=e467bb5d29af8e5;accountId=832823375801

Mumbai Harkirat Singh

Click a location for your new rule. Each rule must include one action of type forward, redirect, fixed response.

appnlb | HTTP:80 (3 rules)

Rule limits for condition values, wildcards, and total rules

Insert Rule

RULE ID	IF	THEN
1	am..dc45 IF Path is /instagram*	Forward to instagram-tg: 1 (100%) Group-level stickiness: Off
2	am..dc45 IF Path is /facebook*	Forward to facebook-tg: 1 (100%) Group-level stickiness: Off
last	HTTP 80: default action This rule cannot be moved or deleted	Forward to facebook-tg: 1 (100%) Group-level stickiness: Off

New rule was created successfully.

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Amazon EC2 Auto Scaling

helps maintain the availability of your applications

Auto Scaling groups are collections of Amazon EC2 instances that enable automatic scaling and fleet management features. These features help you maintain the health and availability of your applications.

How it works

An Auto Scaling group is a collection of Amazon EC2 instances that are treated as a logical unit. You configure settings for a group and its instances as well as define the group's minimum, maximum, and desired capacity. Setting different minimum and maximum capacity values forms the bounds of the group, which allows the group to scale as the load on your application spikes higher or lower, based on demand. To scale the Auto Scaling group, you can either make manual adjustments to the desired capacity or let Amazon EC2 Auto Scaling automatically add and remove capacity to meet

Create Auto Scaling group

Get started with EC2 Auto Scaling by creating an Auto Scaling group.

[Create Auto Scaling group](#)

Pricing

Amazon EC2 Auto Scaling features have no additional fees beyond the service fees for Amazon EC2, CloudWatch (for scaling policies), and the other AWS resources that you use. Visit the pricing page of each service to learn more.

Getting started

[What is Amazon EC2 Auto Scaling?](#)

[Getting started with Amazon EC2 Auto Scaling](#)

[Set up a scaled and load-balanced application](#)

[FAQ](#)

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Create launch configuration

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 [\[see the documentation\]](#)

Launch configuration name

Name

Amazon machine image (AMI)

AMI

Instance type

Instance type Choose instance type

Additional configuration - optional

Purchasing option [Info](#) Request Spot Instances

Feedback Looking for language selection? Find it in the new Unified Settings [\[Feedback\]](#)

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Screenshot of the AWS EC2 Management Console showing the creation of a launch configuration.

Purchasing option: Request Spot Instances

IAM instance profile: Select IAM role

Monitoring: Enable EC2 instance detailed monitoring within CloudWatch

EBS-optimized instance: Launch as EBS-optimized instance

Advanced details:

Later, if you want to use a different launch configuration, you can create a new one and apply it to any Auto Scaling group. Existing launch configurations cannot be edited.

Storage (volumes)

EBS volumes:

Volume type	Devices	Snapshot	Size (GiB)	Volume type
Root	/dev/xvda	snap-0f0f2d1237a0770dd	8	General purpose SSD (gp2)

+ Add new volume

Free tier eligible customers can get up to 30 GB of EBS storage. Learn more about free usage tier eligibility and usage restrictions.

Security groups: Info

Feedback: Looking for language selection? Find it in the new Unified Settings.

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Search

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LaunchConfigurations:

Recommendation to not use launch configurations: Amazon EC2 Auto Scaling no longer adds support for new EC2 features to launch configurations and will stop supporting new EC2 instances types after December 31, 2022. We recommend that customers using launch configurations migrate to launch templates. For more information, see the documentation.

Successfully created launch configuration: instagram

Launch configurations (2)

Name	AMI ID	Instance type	Spot price	Creation time
instagram	ami-074dc0a6fc...	t2.micro	-	Thu Nov 24 2022 18:19:19 GMT+0530 (India Standard Time)
facebook-lg	ami-074dc0a6fc...	t2.micro	-	Thu Nov 24 2022 18:18:18 GMT+0530 (India Standard Time)

Select a launch configuration above

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Search

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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

⚠ 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. [see the documentation](#)

Launch configuration
Select 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 info

Launch configuration facebook-lg	AMI ID ami-074dc0a6f6c764218	Date created Thu Nov 24 2022 18:18:18 GMT+0530 (India Standard Time)
Security groups sg-0fc61411e35498371	Instance type t2.micro	Key pair name linuskeypair

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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
Select which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.
 Create a subnet

ap-south-1a subnet-036f2256d0a43410	172.31.32.0/20 Default
ap-south-1b subnet-0d615778e43cf276	172.31.0/20 Default
ap-south-1c subnet-0e0cd480f0de994af	172.31.16/20 Default

Cancel Previous Skip to review **Next**

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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

Existing load balancer target groups

Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.

Select target groups

facebook-tg | HTTP X
Application Load Balancer: appn-lb

Health checks - optional

Health check type Info

EC2 Auto Scaling automatically replaces instances that fail health checks. If you enabled load balancing, you can enable ELB health checks in

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: 2

Minimum capacity: 1

Maximum capacity: 4

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

Instance scale-in protection - optional

Instance scale-in protection

Instances that scale-in a custom-defined launched instances will be protected from scale-in by default.

The screenshot shows the AWS EC2 Management Console with the URL <https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#AutoScalingGroups>. The page displays the 'Auto Scaling groups (1) info' section. A single Auto Scaling group named 'facebook-asg' is listed. The group details are as follows:

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
facebook-asg	facebook-lg	0	Updating capacity	2	1	4	ap-south-1c, ap-south-1b, ap-south-1a

The screenshot shows the AWS EC2 Management Console with the URL <https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#AutoScalingGroups>. The page displays the 'Auto Scaling groups (2) info' section. Two Auto Scaling groups are listed: 'facebook-asg' and 'instagram-asg'. The group details are as follows:

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
facebook-asg	facebook-lg	2	-	2	1	4	ap-south-1c, ap-south-1b, ap-south-1a
instagram-asg	instagram	2	-	2	1	4	ap-south-1c, ap-south-1b, ap-south-1a