

Assignment ELB

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Problem Statement

You work for XYZ Corporation that uses on-premise solutions and a limited number of systems. With the increase in requests in their application, the load also increases. So, to handle the load, the corporation has to buy more systems almost on a regular basis. Realizing the need to cut down the expenses on systems, they decided to move their infrastructure to AWS.

Tasks To Be Performed:

1. Manage the scaling requirements of the company by:
 - a. Deploying multiple compute resources on the cloud as soon as the load increases and the CPU utilization exceeds 80%
 - b. Removing the resources when the CPU utilization goes under 60%
 2. Create a load balancer to distribute the load between compute resources.
 3. Route the traffic to the company's domain.
-

Step-by-Step Setup

STEP 1: Create a Launch Template

Go to EC2 → Launch Templates → Create launch template

- Name: mytemplate
- AMI: Amazon Linux 2 (x86_64)
- Instance type: t3
- Key pair: vik-87
- Security group: create a new one:
 - Allow HTTP (80) from 0.0.0.0/0
 - Allow SSH (22) from 0.0.0.0/0

- User data: paste this script:

```
#!/bin/bash

yum update -y

yum install -y httpd

systemctl enable httpd

systemctl start httpd

echo "<h1>Welcome to my App - $(hostname)</h1>" > /var/www/html/index.html

Click Create launch template
```

The screenshot shows the AWS Launch Templates console interface. At the top, there is a search bar and a table listing existing launch templates. One entry is selected: "mytemplate" (ID: lt-09e28694f9178645c). Below this, a detailed view of the "mytemplate" launch template is shown. The "Details" tab is selected, displaying configuration settings like Tenancy affinity, License configurations, Token hop limit, Instance Configurable Bandwidth, User data, and more. The "User data" section contains the script provided in the instructions.

Launch Template ID	Launch Template Name	Default Version	Latest Version	Create Time	Created By
lt-09e28694f9178645c	mytemplate	1	1	2025-10-16T05:17:47.000Z	arn:aws:iam::062250062838:root

mytemplate (lt-09e28694f9178645c)

Launch template details

Launch template ID lt-09e28694f9178645c	Launch template name mytemplate	Default version 1	Owner arn:aws:iam::062250062838:root
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Details **Versions** **Template tags**

mytemplate

Tenancy affinity: - **RAM disk ID**: - **Kernel ID**: - **Enclave**: -

License configurations: - **Core count**: - **Threads per core**: - **Metadata accessible**: enabled

Token hop limit: 2 **Metadata version**: V2 only (token required) **Metadata IPv6 endpoint**: - **Allow tags in metadata**: -

Instance Configurable Bandwidth: -

User data:

```
#!/bin/bash
yum update -y
yum install -y httpd
systemctl enable httpd
systemctl start httpd
echo "<h1>Welcome to my App - $(hostname)</h1>" > /var/www/html/index.html
```

Base64-encoded user data has been decoded for readability.

STEP 2: Create an Auto Scaling Group

Go to EC2 → Auto Scaling Groups → Create Auto Scaling Group

- Choose launch template: mytemplate
- Name: my asg
- Choose your VPC and Subnets: (select at least 2 in different AZs)
- Group size:
 - Desired capacity → 2
 - Minimum capacity → 1
 - Maximum capacity → 5
- Advanced options: leave defaults

Click Next → Next → Create Auto Scaling group

The screenshot shows the AWS Auto Scaling Groups page. At the top, there's a search bar and navigation links for EC2 and Auto Scaling groups. The main table lists one Auto Scaling group: "my-asg". The details for "my-asg" are as follows:

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
my-asg	mytemplate Version Default	0	Updating capacity...	2	1	5	2 Availability Zones

Below the table, the "Details" tab is selected for the "my-asg" group. The "Capacity overview" section shows the following values:

Desired capacity	Scaling limits (Min - Max)	Desired capacity type	Status
2	1 - 5	Units (number of instances)	Updating capacity

STEP 3: Create an Application Load Balancer (ALB)

Go to EC2 → Load Balancers → Create Load Balancer

- Choose: Application Load Balancer
- Name: my alb
- Scheme: Internet-facing
- IP type: IPv4
- Choose the same VPC and subnets: (2 AZs)
- Security group: create one:
 - Allow HTTP (80) from 0.0.0.0/0
- Listener: HTTP:80

Create a new target group:

- Target type: Instances
- Name: my-targets
- Health check path: /

Click Create Load Balancer

After creation, go to the Target Group → Targets tab and click Edit → Add instances

Select the instances from your Auto Scaling Group → Include as pending → Save

Now attach the load balancer to your Auto Scaling Group

Go to EC2 → Auto Scaling Groups → my asg → Edit → Load balancing → Attach to an existing load balancer target group and choose my-targets.

Save the configuration.

The screenshot shows the AWS CloudFormation console with a green success message: "Successfully created stack: my-alb". It also includes a blue info message about URL rewrite. The main table displays the stack details, including its ARN, status, VPC, and creation date.

Stack Name	Region	Status	Creation Time
my-alb	us-east-1	CREATE_COMPLETE	Oct 16, 2025, 11:10 (UTC+05:30)

Details

Parameter	Value
Load balancer type	Application
Status	Provisioning
Scheme	Internet-facing
Hosted zone	Z35SXDOTRQ7X7K
VPC	vpc-03af9fa3d1eb0c8bf
Availability Zones	subnet-08edadf26eb5b0fe (us-east-1a), subnet-0c0f78808cbf67247 (us-east-1b)
Load balancer IP address type	IPv4
Date created	October 16, 2025, 11:10 (UTC+05:30)

Load balancer ARN: arn:aws:elasticloadbalancing:us-east-1:062250062838:loadbalancer/app/my-alb/ee7a8cbe0516bfed

DNS name: my-alb-301098659.us-east-1.elb.amazonaws.com (A Record)

my-targets

Actions ▾

Details

[arn:aws:elasticloadbalancing:us-east-1:062250062838:targetgroup/c9d324f867b0648a](#)

Target type

Instance

Protocol : Port

HTTP: 80

Protocol version

HTTP1

VPC

vpc-03af9fa3d1eb0c8bf

IP address type
IPv4

Load balancer

[None associated](#)

2
Total targets

2

Healthy

0

Unhealthy

0

Unused

0

Initial

0

Draining

0 Anomalous

► Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

[Targets](#) | [Monitoring](#) | [Health checks](#) | [Attributes](#) | [Tags](#)

my-asg



[Details](#) | [Integrations](#) | [Automatic scaling](#) | [Instance management](#) | [Instance refresh](#) | [Activity](#) | [Monitoring](#) | [Tags - moved](#)

Load balancing

Load balancer target groups
[my-targets](#)

Classic Load Balancers

[Edit](#)

VPC Lattice integration options

VPC Lattice target groups

[Edit](#)

Application Recovery Controller (ARC) zonal shift - new

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

ARC zonal shift
Disabled

[Edit](#)

my-targets



IP address type
IPv4

Load balancer
[my-alb](#)

1
Total targets

1

Healthy

0

Unhealthy

0

Unused

0

Initial

0

Draining

► Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

[Targets](#) | [Monitoring](#) | [Health checks](#) | [Attributes](#) | [Tags](#)

Health check settings

[Edit](#)

Protocol
HTTP

Path
/

Port
Traffic port

Healthy threshold
5 consecutive health check successes

Unhealthy threshold
2 consecutive health check failures

Timeout
5 seconds

Interval
30 seconds

Success codes
200

The screenshot shows the AWS Elastic Load Balancing (ALB) configuration for a load balancer named 'my-alb'. Key details include:

- Load balancer ARN:** arn:aws:elasticloadbalancing:us-east-1:062250062838:loadbalancer/app/my-alb/ee7a8cbe0516bfed
- DNS name:** my-alb-301098659.us-east-1.elb.amazonaws.com (A Record)
- Listeners and rules (1):** One rule exists for port 80, which forwards traffic to the target group 'my-targets'.
- Target group:** my-targets (1 target, 100% weight), Target group stickiness: Off.

STEP 4: Configure Dynamic Scaling Policies

PART A — Create the Scale Out Policy (CPU > 80%)

Step 1 — Open Your Auto Scaling Group

- Go to EC2 Console → Auto Scaling Groups
- Click on your my asg name
- Go to the Automatic scaling tab
- Under Dynamic scaling policies, click Create dynamic scaling policy

Step 2 — Choose Policy Type

- Policy type: Simple scaling
- Policy name: ScaleOut-80

Step 3 — Create the Alarm (CloudWatch)

We'll now connect this policy to a CloudWatch Alarm that monitors CPU.

- Under CloudWatch alarms, click Create a new alarm
- A new tab opens for CloudWatch → Create Alarm

Step 4 — Select Metric

- Click Select metric
- Navigate like this:
EC2 → By Auto Scaling Group → my asg → CPUUtilization
- Check the box next to CPUUtilization
- Click Select metric

Step 5 — Configure Metric

- Statistic: Average
- Period: 5 minutes
- Click Next

Step 6 — Define the Alarm Condition

- Threshold type: Static
- Whenever CPUUtilization is... → Greater than
- Threshold value: 80
- Datapoints to alarm: 2 of 2 (two 5-min periods = 10 mins sustained high CPU)
- Click Next

Step 7 — Notification (Optional)

- You can skip SNS notification → click Next

Step 8 — Name the Alarm

- Alarm name: ASG-CPUHigh-80
- Click Create alarm

You'll automatically return to the ASG policy creation screen.

Step 9 — Define Scaling Action

- Take the action: Add
- Number of instances: 1
- Cooldown period: 300 seconds (default)
- Click Create

Now your ScaleOut-80 policy is ready!

CloudWatch > Alarms > Create alarm

Step 1

Specify metric and conditions

Step 2
Configure actions

Step 3
Add alarm details

Step 4
Preview and create

Metric

Graph

Preview of the metric or metric expression and the alarm threshold.

Select metric

You need to select a metric or a math expression.

Cancel **Next**

Browse (20) Multi source query Graphed metrics (0/1) Options Source

Add math ▾ Add query ▾

Alarm recommendations Graph with SQL Graph search

Search for any metric, dimension, resource id or account id

ASG

EC2 > By Auto Scaling Group 20

Browse (20) Multi source query Graphed metrics (1/2) Options Source

Add math ▾ Add query ▾

Alarm recommendations Graph with SQL Graph search

All > EC2 > By Auto Scaling Group

Search for any metric, dimension, resource id or account id

ASG Clear filters

AutoScalingGroupName	Metric name	Alarms
my-asg	EBSByteBalance% ⓘ	No alarms
mv-asg	FRS10Balance% ⓘ	No alarms

Select metric

Browse (20) Multi source query Graphed metrics (1/2) Options Source

Add math ▾ Add query ▾

my-asg	EBSIOBalance%	No alarms
my-asg	MetadataNoToken	No alarms
my-asg	EBSReadBytes	No alarms
my-asg	CPUUtilization	No alarms
my-asg	EBSWriteBytes	No alarms
my-asg	EBSReadOps	No alarms

Cancel Select metric

Specify metric and conditions

Metric

Graph
This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.

Namespace
AWS/EC2

Metric name
CPUUtilization

AutoScalingGroupName
my-asg

Statistic
Average

Period
5 minutes

Edit

Conditions

Threshold type

Static
Use a value as a threshold

Anomaly detection
Use a band as a threshold

Whenever CPUUtilization is...

Define the alarm condition.

Greater
> threshold

Greater/Equal
>= threshold

Lower/Equal
<= threshold

Lower
< threshold

than...

Define the threshold value.

80

Must be a number.

▼ Additional configuration

Datapoints to alarm

Define the number of datapoints within the evaluation period that must be breaching to cause the alarm to go to ALARM state.

2

out of

2

Add alarm details

Name and description

Alarm name

Alarm description - optional [View formatting guidelines](#)

[Edit](#) [Preview](#)

```
# This is an H1  
**double asterisks will produce strong character**  
This is [an example](https://example.com/) inline link.
```

Up to 1024 characters (0/1024)

⌚ Successfully created alarm ASG-CPUHigh-80.

[View alarm](#)

X

Alarms (1)

Hide Auto Scaling alarms

[Clear selection](#)



[Create composite alarm](#)

[Actions ▾](#)

[Create alarm](#)

Search

Alarm state: Any

Alarm type: Any

Actions status: Any

< 1 >



Name



State



Last state update (UTC)



Conditions

Actions



[ASG-CPUHigh-80](#)

Insufficient data

2025-10-16 06:19:51

CPUUtilization > 80 for 2 datapoints within 10 minutes

No actions

Create dynamic scaling policy

Policy type

Simple scaling

Scaling policy name

ScaleOut-80

CloudWatch alarm

Choose an alarm that can scale capacity whenever:

ASG-CPUHigh-80



[Create a CloudWatch alarm](#)

breaches the alarm threshold: CPUUtilization > 80 for 2 consecutive periods of 300 seconds for the metric dimensions:

AutoScalingGroupName = my-asg

Take the action

Add

▼

1

capacity units

▼

And then wait

300

seconds before allowing another scaling activity

my-asg

Dynamic scaling policy created or edited successfully.

my-asg Capacity overview

arn:aws:autoscaling:us-east-1:062250062838:autoScalingGroup:d51507df-6a8c-4315-ac06-a11790d7c560:autoScalingGroupName/my-asg

Desired capacity	Scaling limits (Min - Max)	Desired capacity type	Status
2	1 - 5	Units (number of instances)	-

Date created
Thu Oct 16 2025 11:05:03 GMT+0530 (India Standard Time)

Details Integrations **Automatic scaling** Instance management Instance refresh Activity Monitoring Tags - moved

Scaling policies resize your Auto Scaling group to meet changes in demand. With reactive dynamic scaling policies, you can track specific CloudWatch metrics and take action when the CloudWatch alarm threshold is met. Use predictive scaling policies along with dynamic scaling policies in the following situations: when your application demand changes quickly, but with a recurring pattern, or when your EC2 instances require more time to initialize.

PART B — Create the Scale In Policy (CPU < 60%)

Step 1 — Add Another Policy

- In the same Automatic scaling tab, click Add policy again.
- Policy type: Simple scaling
- Policy name: ScaleIn-60

Step 2 — Create Another Alarm

- Click Create a new alarm
- You'll go to CloudWatch again.

Step 3 — Select Metric

- Same path:
EC2 → By Auto Scaling Group → my asg → CPUUtilization
- Select it → Click Select metric

Step 4 — Define Condition

- Threshold type: Static
- Whenever CPUUtilization is... → Less than
- Threshold value: 60
- Datapoints to alarm: 2 of 2
- Period: 5 minutes
- Statistic: Average
- Click Next → Skip notification → Next

Step 5 — Name the Alarm

- Alarm name: ASG-CPULow-60
- Click Create alarm

Step 6 — Define Scaling Action

- Back on the ASG screen:
 - Action: Remove
 - Number of instances: 1
 - Cooldown period: 300 seconds
 - Click Create

Done — both scaling policies are now active.

The screenshot shows the 'Specify metric and conditions' step of creating a new alarm in the CloudWatch Metrics console. The top navigation bar includes 'CloudWatch' > 'Alarms' > 'Create alarm'. On the left, a sidebar lists steps: Step 1 (selected), Step 2 (Configure actions), Step 3 (Add alarm details), and Step 4 (Preview and create). The main area has a 'Metric' section with a 'Graph' preview and a 'Select metric' button. A red error message says 'You need to select a metric or a math expression.' Below this are tabs for 'Browse (20)', 'Multi source query', 'Graphed metrics (0/1)', 'Options', and 'Source'. To the right are buttons for 'Cancel' (gray) and 'Next' (orange). At the bottom, there's a search bar with placeholder text 'Search for any metric, dimension, resource id or account id', and a 'Source' dropdown set to 'ASG'. A footer bar at the bottom contains 'EC2 > By Auto Scaling Group' and the number '20'.

Browse (20) Multi source query Graphed metrics (1/2) Options Source

Add math ▾ Add query ▾

All > EC2 > By Auto Scaling Group

Alarm recommendations

Graph with SQL Graph search

Search for any metric, dimension, resource id or account id

ASG X Clear filters

AutoScalingGroupName 20/20 Metric name Alarms

my-asg	EBSByteBalance% ⓘ	No alarms
mv-asg	FSNIORBalance% ⓘ	No alarms

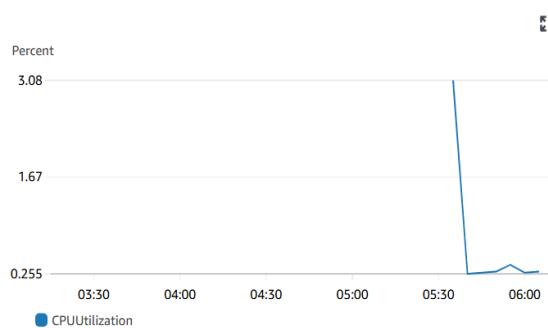
Select metric

Specify metric and conditions

Metric

Graph

This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.



Namespace
AWS/EC2

Metric name

CPUUtilization

AutoScalingGroupName

my-asg

Statistic

Average

Period

5 minutes

Edit

Conditions

Threshold type

Static

Use a value as a threshold

Anomaly detection

Use a band as a threshold

Whenever CPUUtilization is...

Define the alarm condition.

Greater

> threshold

Greater/Equal

\geq threshold

Lower/Equal

\leq threshold

Lower

< threshold

than...

Define the threshold value.

60

Must be a number.

Additional configuration

Datapoints to alarm

Define the number of datapoints within the evaluation period that must be breaching to cause the alarm to go to ALARM state.

2

▼

out of

2

Missing data treatment

How to treat missing data when evaluating the alarm.

Add alarm details

Name and description

Alarm name
ASG-CPULow-60

Alarm description - optional [View formatting guidelines](#)

Edit **Preview**

This is an H1
double asterisks will produce strong character
This is [an example](https://example.com/) inline link.

Up to 1024 characters (0/1024)

Info Markdown formatting is only applied when viewing your alarm in the console. The description will remain in plain text in the alarm notifications.

Successfully created alarm ASG-CPULow-60.

Alarms (2)

Hide Auto Scaling alarms Clear selection Create composite alarm Actions ▾ **Create alarm**

Search

Alarm state: Any ▾

Alarm type: Any ▾

Actions status: Any ▾

◀ 1 ▶ ⚙

<input type="checkbox"/>	Name	State	Last state update (UTC)	Conditions	Actions
<input type="checkbox"/>	ASG-CPULow-60	Insufficient data	2025-10-16 06:25:11	CPUUtilization < 60 for 2 datapoints within 10 minutes	No actions
<input type="checkbox"/>	ASG-CPUHigh-80	OK	2025-10-16 06:21:08	CPUUtilization > 80 for 2 datapoints within 10 minutes	Actions enabled

Create dynamic scaling policy

Policy type

Simple scaling

Scaling policy name

ScaleIn-60

CloudWatch alarm

Choose an alarm that can scale capacity whenever:

ASG-CPULow-60



[Create a CloudWatch alarm](#)

breaches the alarm threshold: CPUUtilization < 60 for 2 consecutive periods of 300 seconds for the metric dimensions:

AutoScalingGroupName = my-assg

Take the action

Remove

1

capacity units

And then wait

300

seconds before allowing another scaling activity

my-asg

Dynamic scaling policy created or edited successfully.

my-asg

my-asg Capacity overview

arn:aws:autoscaling:us-east-1:062250062838:autoScalingGroup:d51507df-6a8c-4315-ac06-a11790d7c560:autoScalingGroupName/my-asg

Desired capacity	Scaling limits (Min - Max)	Desired capacity type	Status
2	1 - 5	Units (number of instances)	-

Date created
Thu Oct 16 2025 11:05:03 GMT+0530 (India Standard Time)

Details Integrations Automatic scaling Instance management Instance refresh Activity Monitoring Tags - moved

Scaling policies resize your Auto Scaling group to meet changes in demand. With reactive dynamic scaling policies, you can track specific CloudWatch metrics and take action when the CloudWatch alarm threshold is met. Use predictive scaling policies along with dynamic scaling policies in the following situations: when your application demand changes quickly, but with a recurring pattern, or when your EC2 instances require more time to initialize.

Dynamic scaling policies (2) Info

Actions ▾ [Create dynamic scaling policy](#)

1

ScaleIn-60 Policy type Simple scaling Enabled or disabled Enabled Execute policy when ASG-CPULow-60 breaches the alarm threshold: CPUUtilization < 60 for 2 consecutive periods of 300 seconds for the metric dimensions: AutoScalingGroupName = my-asg Take the action Remove 1 capacity units And then wait 300 seconds before allowing another scaling activity	ScaleOut-80 Policy type Simple scaling Enabled or disabled Enabled Execute policy when ASG-CPUHigh-80 breaches the alarm threshold: CPUUtilization > 80 for 2 consecutive periods of 300 seconds for the metric dimensions: AutoScalingGroupName = my-asg Take the action Add 1 capacity units And then wait 300 seconds before allowing another scaling activity
---	--

STEP 5: Test the Setup

Open the ALB DNS name in your browser — you'll see:

Welcome to my App - ip-xx-xx-xx-xx

SSH into an instance:

```
sudo yum install stress -y
```

```
stress --cpu 4 --timeout 300
```

Go to EC2 → Auto Scaling → Activity tab.

You'll see new instances launch when CPU > 80%

They'll terminate when CPU < 60%



Welcome to my App - ip-10-0-1-167.ec2.internal

```
[root@ip-10-0-1-167 ~]# stress --cpu 4 --timeout 300
-----
Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing           :
  Installing         : stress-1.0.7-2.amzn2023.0.1.x86_64
  Running scriptlet: stress-1.0.7-2.amzn2023.0.1.x86_64
  Verifying          : stress-1.0.7-2.amzn2023.0.1.x86_64

Installed:
  stress-1.0.7-2.amzn2023.0.1.x86_64

Complete!
stress: info: [30102] dispatching hogs: 4 cpu, 0 io, 0 vm, 0 hdd
stress: info: [30102] successful run completed in 300s
```

Status	Description	Cause	Start time	End time
Successful	Updating load balancers/target groups: Successful. Status Reason: Added: arn:aws:elasticloadbalancing:us-east-1:062250062838:targetgroup/my-targets/c9d324f867b0648a (Target Group).		2025 October 16, 01:20:45 PM +05:30	2025 October 16, 01:20:45 PM +05:30
Successful	Terminating EC2 instance: i-0e9ab004324bb621f	At 2025-10-16T06:27:07Z a monitor alarm ASG-CPULow-60 in state ALARM triggered policy ScaleIn-60 changing the desired capacity from 2 to 1. At 2025-10-16T06:27:13Z an instance was taken out of service in response to a difference between desired and actual capacity, shrinking the capacity from 2 to 1. At 2025-10-16T06:27:14Z instance i-0e9ab004324bb621f was selected for termination.	2025 October 16, 11:57:14 AM +05:30	2025 October 16, 11:57:14 AM +05:30
Successful	Launching a new EC2 instance: i-0e9ab004324bb621f	At 2025-10-16T05:35:03Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2025-10-16T05:35:05Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 0 to 2.	2025 October 16, 11:05:07 AM +05:30	2025 October 16, 11:05:07 AM +05:30
Successful	Launching a new EC2 instance: i-	At 2025-10-16T05:35:03Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2025-10-16T05:35:05Z an instance was started in response to a difference between	2025 October 16, 11:05:07	2025 October 16, 11:05:07

STEP 6: Routing (No Domain Version)

Route the Company Domain

Since no custom domain was available, I used the default AWS Load Balancer DNS name to access the application.

Example: <http://XYZ-ALB-1234567890.ap-south-1.elb.amazonaws.com>

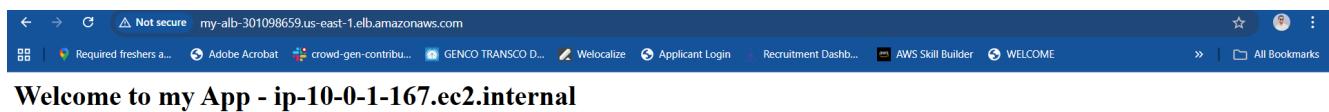
This DNS name is automatically managed by AWS and routes traffic to the EC2 instances via the Application Load Balancer.



Welcome to my App - ip-10-0-1-167.ec2.internal

Final Verification

- Open the Load Balancer DNS name — it should display your EC2 web page (Welcome to my App - <hostname>).
- Refresh multiple times — you should see different instance hostnames, confirming load balancing.
- During high CPU load, Auto Scaling automatically adds new instances based on your scaling policies.
- When the load decreases, Auto Scaling terminates the extra instances automatically.



Activity history (3)				
Status	Description	Cause	Start time	End time
 Successful	Terminating EC2 instance: i-0e9ab004324bb621f	At 2025-10-16T06:27:07Z a monitor alarm ASG-CPULow-60 in state ALARM triggered policy ScaleIn-60 changing the desired capacity from 2 to 1. At 2025-10-16T06:27:13Z an instance was taken out of service in response to a difference between desired and actual capacity, shrinking the capacity from 2 to 1. At 2025-10-16T06:27:14Z instance i-0e9ab004324bb621f was selected for termination.	2025 October 16, 11:57:14 AM +05:30	2025 October 16, 11:57:14 AM +05:30
 Successful	Launching a new EC2 instance: i-0e9ab004324bb621f	At 2025-10-16T05:35:03Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2025-10-16T05:35:05Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 0 to 2.	2025 October 16, 11:05:07 AM +05:30	2025 October 16, 11:05:07 AM +05:30
 Successful	Launching a new EC2 instance: i-0232dfcdeb9b89832	At 2025-10-16T05:35:03Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2025-10-16T05:35:05Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 0 to 2.	2025 October 16, 11:05:07 AM +05:30	2025 October 16, 11:05:07 AM +05:30

 Successfully created alarm ASG-CPULow-60.

[View alarm](#) [X](#)

Alarms (2)

Hide Auto Scaling alarms [Clear selection](#)  [Create composite alarm](#) [Actions](#) [Create alarm](#)

<input type="checkbox"/>	Name	State	Last state update (UTC)	Conditions	Actions
<input type="checkbox"/>	ASG-CPULow-60	 In alarm	2025-10-16 07:27:07	CPUUtilization < 60 for 2 datapoints within 10 minutes	 Actions enabled
<input type="checkbox"/>	ASG-CPUHigh-80	 OK	2025-10-16 06:21:08	CPUUtilization > 80 for 2 datapoints within 10 minutes	 Actions enabled

Status	Description	Cause	Start time	End time
Successful	Updating load balancers/target groups: Successful. Status Reason: Added: arn:aws:elasticloadbalancing:us-east-1:062250062838:targetgroup/my-targets/c9d324f867b0648a (Target Group).		2025 October 16, 01:20:45 PM +05:30	2025 October 16, 01:20:45 PM +05:30
Successful	Terminating EC2 instance: i-0e9ab004324bb621f	At 2025-10-16T06:27:07Z a monitor alarm ASG-CPULow-60 in state ALARM triggered policy ScaleIn-60 changing the desired capacity from 2 to 1. At 2025-10-16T06:27:13Z an instance was taken out of service in response to a difference between desired and actual capacity, shrinking the capacity from 2 to 1. At 2025-10-16T06:27:14Z instance i-0e9ab004324bb621f was selected for termination.	2025 October 16, 11:57:14 AM +05:30	2025 October 16, 11:57:14 AM +05:30
Successful	Launching a new EC2 instance: i-0e9ab004324bb621f	At 2025-10-16T05:35:03Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2025-10-16T05:35:05Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 0 to 2.	2025 October 16, 11:05:07 AM +05:30	2025 October 16, 11:05:07 AM +05:30
Successful	Launching a new EC2 instance: i-	At 2025-10-16T05:35:03Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 2. At 2025-10-16T05:35:05Z an instance was started in response to a difference between	2025 October 16, 11:05:07	2025 October 16, 11:05:07

my-asg

my-asg Capacity overview

arn:aws:autoscaling:us-east-1:062250062838:autoScalingGroup:d51507df-6a8c-4315-ac06-a11790d7c560:autoScalingGroupName/my-asg

Desired capacity 1	Scaling limits (Min - Max) 1 - 5	Desired capacity type Units (number of instances)	Status -
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Date created
Thu Oct 16 2025 11:05:03 GMT+0530 (India Standard Time)

Details Integrations Automatic scaling **Instance management** Instance refresh Activity Monitoring Tags - moved

Instances (1)

Instance ID	Lifecycle	Instance Type	Weighted Capacity	Launch Configuration	Availability Zone	Health Status	Protect From Scaling
i-0232dfcdeb9b89832	InService	t3.micro	-	mytemplate	use1-az6 (...)	Healthy	<input checked="" type="checkbox"/>