

## History

EC2

Certificate Manager

Console Home

CloudFormation

Lambda

IAM

## Step 1:

- **Navigate to EC2**

ec2

### EC2

Virtual Servers in the Cloud

### ECS

Run and Manage Docker Containers

### EFS

Managed File Storage for EC2

### GuardDuty

Intelligent Threat Detection to Protect Your AWS Accounts and Workloads

#### Batch

Elastic Beanstalk

Serverless Application Repository



### Storage

S3

EFS

FSx

S3 Glacier

Storage Gateway

AWS Backup



### Database

RDS

DynamoDB

ElastiCache



### Satellite

Ground Station



### Management & Governance

AWS Organizations

CloudWatch

AWS Auto Scaling

CloudFormation

CloudTrail

Config

OpsWorks

Service Catalog

Systems Manager

Trusted Advisor

Managed Services

Control Tower

#### Data Pipeline

AWS Glue

AWS Lake Formation

MSK



### Security, Identity, & Compliance

IAM

Resource Access Manager

Cognito

Secrets Manager

GuardDuty

Inspector

Amazon Macie

AWS Single Sign-On

Certificate Manager

Key Management Service

CloudHSM



### Internet Of Things

IoT Core

Amazon FreeRTOS

IoT 1-Click

IoT Analytics

IoT Device Defender

IoT Device Management

IoT Events

IoT Greengrass

IoT SiteWise

IoT Things Graph

Group

A-Z

Applications

Business

Chime

Computing

Services

AppStream 2.0

WorkDocs

WorkLink

close

EC2 Dashboard **New**

Events **New**

Tags

Reports

Limits

▼ INSTANCES

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts **New**

Scheduled Instances

Capacity Reservations

EC2 > Target groups

Target groups (0)



Actions ▼

Create target group

🔍 Filter resources by property or value

< 1 >



Name ▼

ARN

Port ▼

Protocol ▼

Target type ▼

Load balanc

No Target groups

No resources to display

Step 2:

- Select “Create target group”

Step 1  
Specify group details

Step 2  
Register targets

## Specify group details

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

### Basic configuration

Choose a target type

☐ Instances

A target group consisting of instances:

- Supports load balancing to instances within a specific VPC.

☐ IP addresses

A target group consisting of 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.

☒ Lambda function

A target group consisting of a Lambda function:

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

Target group name

lambda-target-group

Up to 32 alphanumeric characters, including hyphens. Must not begin or end with a hyphen.

### Health checks

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

☐ Enable

Health checks count as a request for your Lambda function. [Refer to Lambda pricing for more details](#)

### ► Tags - optional

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

Cancel

Next

### Step 3:

- Target type: Lambda function
- Name it: **lambda-target-group**
- Click next

Step 1

[Specify group details](#)

Step 2

**Register targets**

## Register targets

You can register and deregister targets at any time. You can leave your target group empty if you wish.

### Lambda function

You can specify a single Lambda function as the target

☒ Choose a Lambda function from list or [create function](#) 

builders-lambda-origin-one ▼

☒ Version ☐ Alias

\$LATEST ▼

☐ Enter a Lambda function ARN. [Lambda](#) 

☐ Add a function later

Step 4:

- Choose: **builders-lambda-origin-one**
- Click 'Create target group'

Cancel

Previous

Create target group

## Step 5:

- Navigate to 'Load Balancers'
- Go to Listeners Tab
- Click on 'Add listener'

New EC2 Experience  
Tell us what you think

EC2 Dashboard **New**

Events **New**

Tags

Reports

Limits

▼ INSTANCES

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts **New**

Scheduled Instances

Capacity Reservations

▼ IMAGES

AMIs

Bundle Tasks

▼ ELASTIC BLOCK STORE

Volumes

Snapshots

Lifecycle Manager

▼ NETWORK & SECURITY

Security Groups **New**

Elastic IPs **New**

Placement Groups **New**

Key Pairs **New**

Network Interfaces

▼ **LOAD BALANCING**

**Load Balancers**

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

1 to 1 of 1

Name	DNS name	State	VPC ID
acm-pca-usecase-7-alb	acm-pca-usecase-7-alb-168...	active	vpc-001a6825563931041

Load balancer: acm-pca-usecase-7-alb

Description Listeners Monitoring Integrated services Tags

A listener checks for connection requests using its configured protocol and port, and the load balancer uses the listener rules to route requests to targets. You can add, remove, or update listeners and listener rules.

Add listener Edit Delete

Listener Security policy SSL Certificate Rules



Add a new listener. Each listener must include one action of type forward, redirect, fixed response.

Add listener

## acm-pca-usecase-7-alb | Add listener

Listeners belonging to Application Load Balancers check for connection requests using the protocol and port you configure. Each listener must include a default action to ensure all requests are routed. Once you have created your listener, you can create and manage additional routing rules as needed. [Learn more](#)

### Protocol : port

Select the protocol for connections from the client to your load balancer, and enter a port number from which to listen to for traffic.

HTTPS : 443

### Default action(s)

Indicate how this listener will route traffic that is not otherwise routed by a another rule.

#### 1. Forward to...

Target group : Weight (0-999)

lambda-target-group

1



Traffic distribution 100%

Select a target group

0



Group-level stickiness



+ Add action

### Security policy

ELBSecurityPolicy-2016-08



### Default SSL certificate

From ACM (recommended)

acm-pca-usecase-7-alb-1883777602.us-west-2.elb.amazona...



[Request new ACM certificate](#)

### Step 6:

- Select protocol as **HTTPS**
- **Forward to lambda-target-group.** This is the lambda function with the HTML code that's behind the ALB
- Leave the security policy as default
- For **Default SSL Certificate** – Select **From ACM** and the private certificate that you created earlier
- Don't forget to click **Save** on top right of the screen