History

EC2

Certificate Manager

Console Home

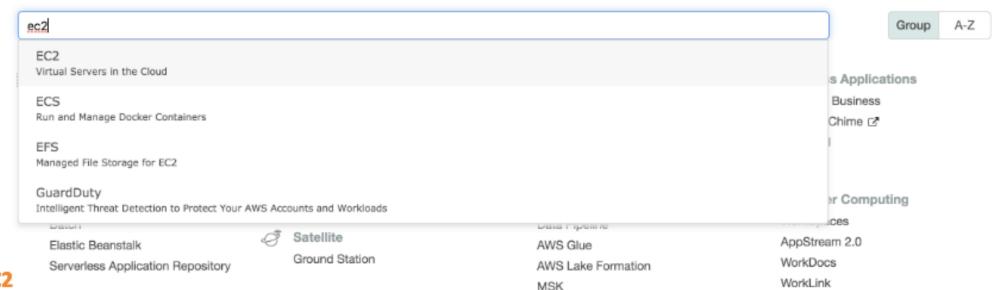CloudFormation

Lambda

IAM

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

Group | A-Z

Step 1:
- **Navigate to EC2**

Batch
Elastic Beanstalk
Serverless Application Repository

Satellite
Ground Station

Data Pipeline
AWS Glue
AWS Lake Formation
MSK

Applications
Business
Chime

Computing
ces
AppStream 2.0
WorkDocs
WorkLink

Storage
S3
EFS
FSx
S3 Glacier
Storage Gateway
AWS Backup

Management & Governance
AWS Organizations
CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services
Control Tower

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

Database
RDS
DynamoDB
ElastiCache

∧ close

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1

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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
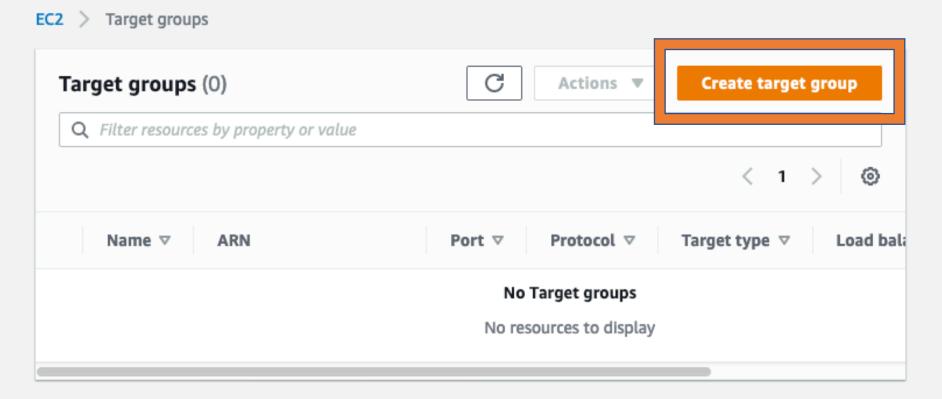Reserved Instances
Dedicated Hosts New
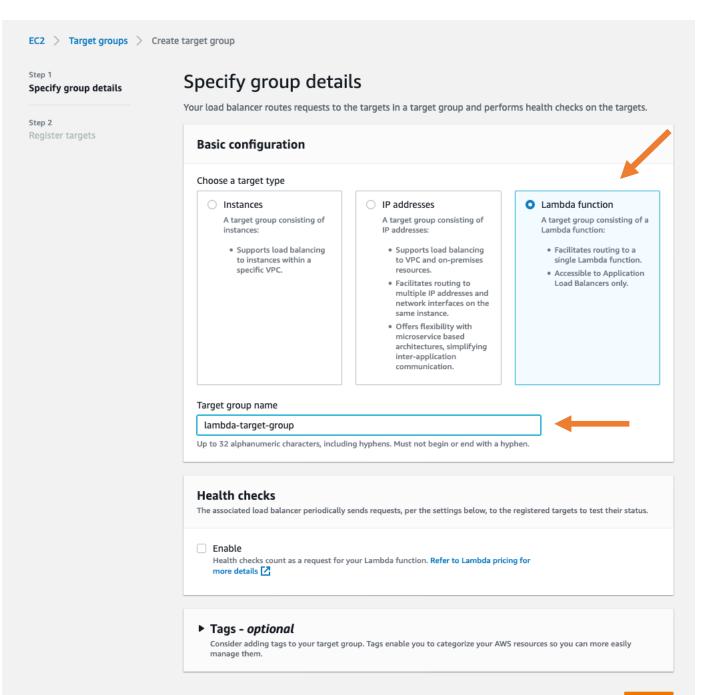Scheduled Instances
Capacity Reservations

EC2 > Target groups

Target groups (0)

Actions ▼

Create target group

Q Filter resources by property or value

< 1 > ⚙

Name ▽	ARN	Port ▽	Protocol ▽	Target type ▽	Load bal

No Target groups

No resources to display

Step 2:
- **Select "Create target group"**

EC2 > Target groups > 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 5:
- Navigate to 'Load Balancers'
- Go to Listeners Tab
- Click on 'Add listener'

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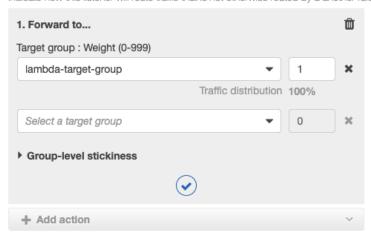
Protocol : port
Select the protocol for connections from the client to your load balancer, and enter a port number from which to listen to for traffic.

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 ▼

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

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 ⧉

Quiz : (please open the quiz in a new browser tab)

In the previous step you attached the private certificate to the HTTPS listener of the ALB. Click on the link below for the quiz :

https://bit.ly/2Hh1lin