

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

Lifecycle Manager

NETWORK & SECURITY

Security Groups

Create target group

Actions ▾

Filter by tags and attributes or search by keyword

☐

Name

▲

Port

▼

Protocol

Create target group ×

Your load balancer routes requests to the targets in a target group using the target group settings that you specify, and performs health checks on the targets using the health check settings that you specify.

Target group name ⓘ

WebGroup1

Target type

☒ Instance

☐ IP

☐ Lambda function

Protocol ⓘ

HTTP ▾

Port ⓘ

80

VPC ⓘ

vpc-fe674d98 (172.31.0.0/16) (My Default V

Health check settings

Protocol ⓘ

HTTP ▾

Path ⓘ

/

▶ Advanced health check settings

Cancel

Create

Health check settings

Protocol ⓘ HTTP

Path ⓘ /index.html

▼ Advanced health check settings

Port ⓘ ☒ traffic port
☐ override

Healthy threshold ⓘ 2

Unhealthy threshold ⓘ 3

Timeout ⓘ 5 seconds

Interval ⓘ 5 seconds

Success codes ⓘ 200

Create target group



Successfully created target group

Successfully created target group [WebGroup1](#) in VPC [vpc-fe674d98](#)

Close

Description

Targets

Health checks

Monitoring

The load balancer starts routing requests to a newly registered target. If demand on your targets decreases, you can register additional targets. If demand on your targets decreases, you can



Registered targets

Instance ID

Name

Availability Zones

Register and deregister targets

Registered targets

To deregister instances, select one or more registered instances and then click Remove.

Remove

<input type="checkbox"/>	Instance	Name	Port	State	Security groups	Zone
No instances available.						

Instances

To register additional instances, select one or more running instances, specify a port, and then click Add. The default port is the port specified for the target group. If the instance is already registered on the specified port, you must specify a different port.

Add to registered on port 80

<input type="checkbox"/>	Instance	Name	State	Security groups	Zone	Subnet ID	Subnet CIDR
<input checked="" type="checkbox"/>	i-0ed7241dc41a440c0	Web01	running	WebDMZ	eu-west-1a	subnet-b69ffbd0	172.31.0.0/20
<input checked="" type="checkbox"/>	i-03d1cfc6aa54954be	Web02	running	WebDMZ	eu-west-1b	subnet-397f0871	172.31.16.0/20

Cancel Save

Select load balancer type

Elastic Load Balancing supports three types of load balancers: Application Load Balancer, Network Load Balancer, and Classic Load Balancer. Choose the one that's right for you.

Application Load Balancer

HTTP
HTTPS

Create

Choose an Application Load Balancer when you need a flexible feature set for your web applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.

[Learn more >](#)

Step 1: Configure Load Balancer

Name ⓘ

Scheme ⓘ ☒ internet-facing ☐ internal

IP address type ⓘ

Listeners

A listener is a process that checks for connection requests, using the protocol and port that you configured.

Load Balancer Protocol

Add listener

Availability Zones

Specify the Availability Zones to enable for your load balancer. The load balancer routes traffic to the targets in these Availability Zones to increase the availability of your load balancer.

VPC ⓘ <input type="text" value="vpc-fe674d98 (172.31.0.0/16) (default)"/>		
<input type="checkbox"/> Availability Zone	Subnet ID	Subnet IPv4 CIDR
<input type="checkbox"/> eu-west-1a	subnet-b69ffbd0	172.31.0.0/20
<input type="checkbox"/> eu-west-1b	subnet-397f0871	172.31.16.0/20

Availability Zones

Specify the Availability Zones to enable for your load balancer. The load balancer routes traffic to the targets in these Availability Zones to increase the availability of your load balancer.

VPC i vpc-fe674d98 (172.31.0.0/16) (default) ⌵			
<input checked="" type="checkbox"/>	Availability Zone	Subnet ID	Subnet IPv4
<input checked="" type="checkbox"/>	eu-west-1a	subnet-b69ffbd0	172.31.0.0/20
<input checked="" type="checkbox"/>	eu-west-1b	subnet-397f0871	172.31.16.0/20
<input checked="" type="checkbox"/>	eu-west-1c	subnet-a3f455f9	172.31.32.0/20

Step 4: Configure Routing

Your load balancer routes requests to the targets in this target group using the protocol and port that you specify, and per one load balancer.

Target group

Target group i	<div>Existing target group ⌵</div>
Name i	<div>WebGroup1 ⌵</div>
Target type	<div><input checked="" type="radio"/> Instance <input type="radio"/> IP <input type="radio"/> Lambda function</div>
Protocol i	<div>HTTP ⌵</div>
Port i	<div>80</div>

Health checks

Protocol i	<div>HTTP ⌵</div>
Path i	<div>/index.html</div>

► Advanced health check settings

Load Balancer Creation Status



Successfully created load balancer

Load balancer **MyALB** was successfully created.

Note: It might take a few minutes for your load balancer to be fully set up.

- Reserved Instances
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- NETWORK & SECURITY
- Security Groups
- Elastic IPs
- Placement Groups
- Key Pairs
- Network Interfaces
- LOAD BALANCING
- Load Balancers**
- Target Groups
- AUTO SCALING
- Launch Configurations
- Auto Scaling Groups
- SYSTEMS MANAGER SERVICES
- Run Command
- State Manager
- Configuration Compliance

Create Load Balancer

Actions

Filter by tags and attributes or search by keyword

<input checked="" type="checkbox"/>	Name	DNS name	State	VPC ID	Availability Zone
<input checked="" type="checkbox"/>	MyALB	MyALB-2130171902.eu-wes...	active	vpc-fe674d98	eu-west-1a

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 the target group.

Add listener

Edit

Delete

<input type="checkbox"/>	Listener ID	Security policy	SSL Certificate	Rules
<input type="checkbox"/>	HTTP : 80 arn:aws:iam::b1a430bec112ee12:role/MyALB	N/A	N/A	Default: forwarding to WebGroup1 View/edit rules

< Rules + [edit icon] [filter icon] - MyALB | HTTP:80 ↕ [refresh icon] [help icon]

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

MyALB | HTTP:80 (2 rules)

↑ Insert Rule ↓

RULE ID	IF (all match)	THEN
1 A rule ID (ARN) is generated when you save your rule.	+ Add condition	+ Add action

last

HTTP 80: default action
This rule cannot be moved or deleted

IF
✓ Requests otherwise not routed

THEN
Forward to [WebGroup1](#)

3 Different Types Of Load Balancers;

- Application Load Balancers
- Network Load Balancers
- Classic Load Balancers

- 504 Error means the gateway has timed out. This means that the application not responding within the idle timeout period.
- Trouble shoot the application. Is it the Web Server or Database Server?

- If you need the IPv4 address of your end user, look for the **X-Forwarded-For** header.

- Instances monitored by ELB are reported as ;
InService , or OutofService
- Health Checks check the instance health by talking to it.
- Load Balances have their own DNS name. You are never given an IP address.
- Read the ELB FAQ for Classic Load Balancers.