

# Target Groups

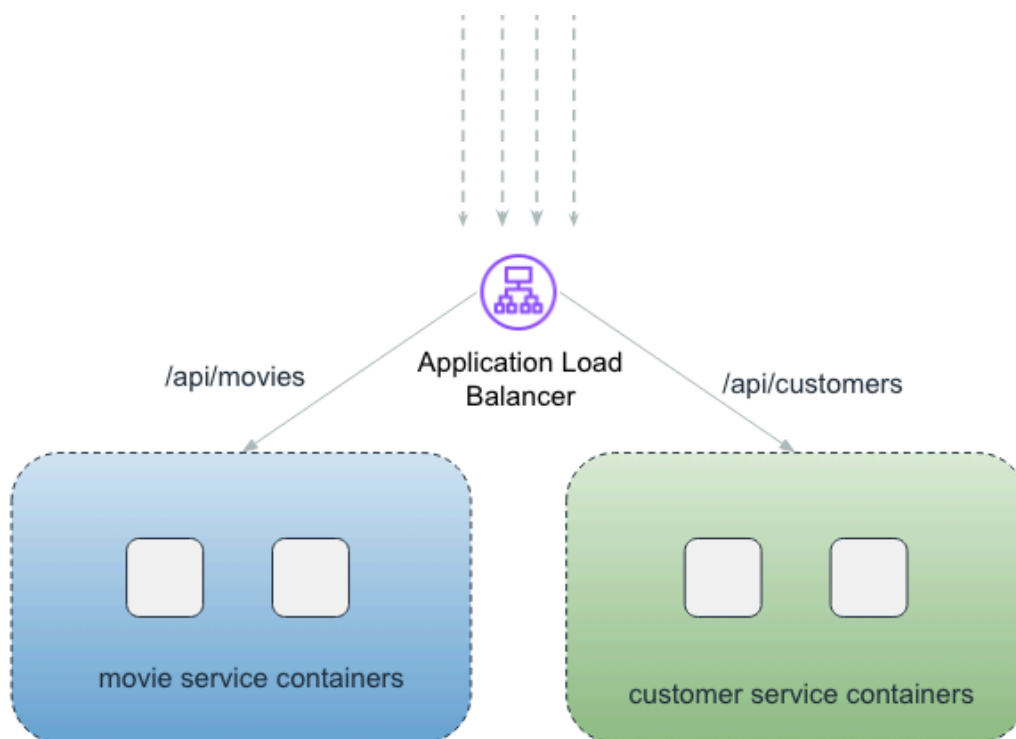
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We have 2 backend applications!

- customer-service
- movie-service

We will receive all the traffic via our Application Load Balancer. Based on the Path, we would route the requests to appropriate applications!



## Movie Service Targets / Containers

- Go to the **Target Groups** section.
- Click on “Create Target Group”
- Select the target type as **IP addresses**

#### Target type

Indicate what resource type you want to target. Only the selected resource type can be registered to this target group.

☐ **Instances**  
 Supports load balancing to instances in a VPC. Integrate with Auto Scaling Groups or ECS services for automatic management.  
 Suitable for: ALB NLB GWLB

☒ **IP addresses**  
 Supports load balancing to VPC and on-premises resources. Facilitates routing to IP addresses and network interfaces on the same instance. Supports IPv6 targets.  
 Suitable for: ALB NLB GWLB

☐ **Lambda function**  
 Supports load balancing to a single Lambda function. ALB required as traffic source.  
 Suitable for: ALB

☐ **Application Load Balancer**  
 Allows use of static IP addresses and PrivateLink with an Application Load Balancer. NLB required as traffic source.  
 Suitable for: NLB

- The name can be **movie-service-containers**. Listening port will be 8080

#### Target group name

movie-service-containers

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

#### Protocol : Port

Choose a protocol for your target group that corresponds to the Load Balancer type that will route traffic to it. Some protocols now include anomaly detection for the targets and you can set mitigation options once your target group is created. This choice cannot be changed after creation

HTTP

8080

1-65535

- Select the VPC and the application protocol

#### VPC

Select the VPC that hosts the load balancer. Only VPCs that support the IP address type selected above are available in this list. On the **Register targets** page, you can register IP addresses from this VPC, or from private IP addresses located outside of this load balancer's VPC (such as a peered VPC, EC2-Classic, or on-premises targets that are reachable over Direct Connect or VPN).

netflux-vpc

vpc-057e4b12c96c3791e  
IPv4 VPC CIDR: 10.0.0.0/16

#### 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.

- Enter the health check details

## Health checks

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

### Health check protocol

HTTP



### Health check path

Use the default path of "/" to perform health checks on the root, or specify a custom path if preferred.

/actuator/health

Up to 1024 characters allowed.

- advanced health check settings

Healthy Threshold	3
Unhealthy Threshold	3
Timeout	5 seconds
Interval	30 seconds
Success codes	200

## ▼ Advanced health check settings

[Restore defaults](#)

### Health check port

The port the load balancer uses when performing health checks on targets. By default, the health check port is the same as the target group's traffic port. However, you can specify a different port as an override.

- ☒ Traffic port  
☐ Override

### Healthy threshold

The number of consecutive health checks successes required before considering an unhealthy target healthy.

2-10

### Unhealthy threshold

The number of consecutive health check failures required before considering a target unhealthy.

2-10

### Timeout

The amount of time, in seconds, during which no response means a failed health check.

seconds

2-120

### Interval

The approximate amount of time between health checks of an individual target

seconds

5-300

### Success codes

The HTTP codes to use when checking for a successful response from a target. You can specify multiple values (for example, "200,202") or a range of values (for example, "200-299").

- Click "Next"
- We can remove the IP addresses as we do not know them. When the app starts, they will register themselves!

#### Step 1: Choose a network

You can add IP addresses from the VPC selected for your target group or from outside the VPC. Note that you can assemble a mix of targets from multiple network sources by returning to this step and choosing another network.

##### Network

netflux-vpc

vpc-057e4b12c96c3791e

IPv4 VPC CIDR: 10.0.0.0/16



#### Step 2: Specify IPs and define ports

You can manually enter IP addresses from the selected network.

Enter an IPv4 address from a VPC subnet.

[Remove](#)[Add IPv4 address](#)

You can add up to 4 more IP addresses.

Remove IP address 10.0.0. on row 1

- Click “Next” to go to the review screen and finally Click on “Create Target Group”.
- Once created, Go to “Attributes” and “Edit”

Targets	Monitoring	Health checks	Attributes	Tags
<div> <div>Attributes</div> <div>Edit</div> </div> <div> <div>Target deregistration management</div> <div> Deregistration delay (draining interval)  300 seconds </div> </div>				

- Reduce the time to 30 seconds as 5 mins would be too much!

## Target deregistration management

### Deregistration delay (draining interval)

The time to wait for in-flight requests to complete while deregistering a target. During this time, the state of the target is draining.

seconds

0-3600 seconds

- Click on “Save Changes”

## Customer Service Targets / Containers

- Repeat the above steps for “customer-service-containers”

Target group name

customer-service-containers

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Targets

Monitoring

Health checks

Attributes

Tags

Attributes

Edit

Target deregistration management

Deregistration delay (draining interval)

30 seconds