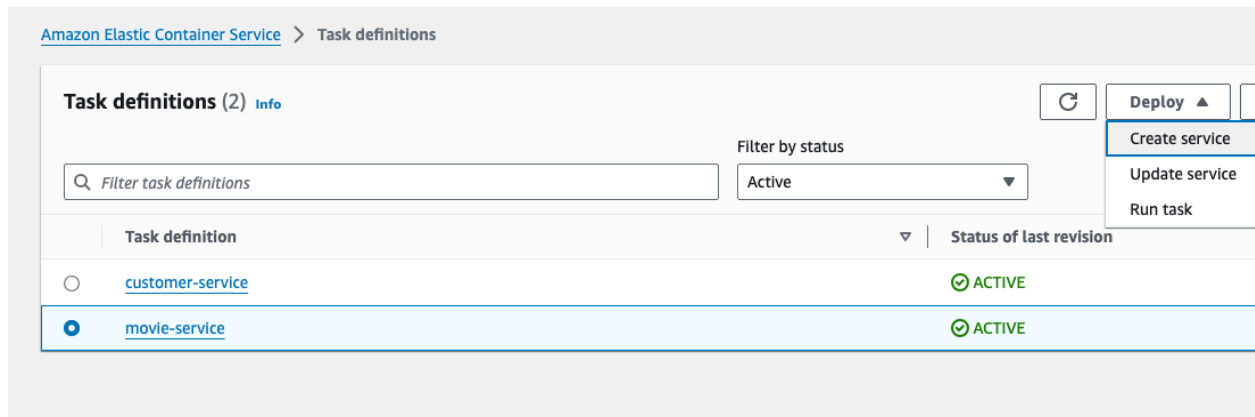


Creating Services

- Go to Tasks Definition
- Create a service for **movie-service**



- Service name can be **movie-service**

The screenshot shows the 'Create service' form. The heading is 'Create service' with an 'Info' link. Under 'Service details', the 'Task definition family' section has a text input field containing 'movie-service'. The 'Task definition revision' section has a 'Latest' button and a text input field containing '3'. The 'Service name' section has a text input field containing 'movie-service' and a note: 'Up to 255 letters (uppercase and lowercase), numbers, underscores, and hyphens are allowed.'

- Select **prod** cluster and **FARGATE** Launch Type

Environment

Existing cluster

prod

▼ Compute configuration - *advanced*

Compute options | [Info](#)

To ensure task distribution across your compute types, use appropriate compute options.

☐ **Capacity provider strategy**
Specify a launch strategy to distribute your tasks across one or more capacity providers.

☒ **Launch type**
Launch tasks directly without the use of capacity providers.

Launch type | [Info](#)

Select either managed capacity (Fargate), or custom capacity (EC2 or user-managed, External instances). External instances are registered to the cluster.

FARGATE

Platform version | [Info](#)

Specify the platform version on which to run your service.

LATEST

- Deployment Configuration
 - 0 desired tasks. We will change it to 2 later.

Deployment configuration

Scheduling strategy | [Info](#)

☒ **Replica**
Place and maintain a desired number of tasks across your cluster.

Desired tasks

Specify the number of tasks to launch.

0

Availability Zone rebalancing | [Info](#)

☒ **Turn on Availability Zone rebalancing**
Amazon ECS automatically detects Availability Zone imbalances in task distributions across your cluster.

- Health check grace period

Health check grace period | [Info](#)

90

seconds

- Rolling update deployment

▼ Deployment options

Deployment controller type

ECS

Deployment strategy | [Info](#)

How you want to deliver new versions of the service.

☒ **Rolling update**

Replace tasks one at a time, updating from previous to new versions.

☐ **Canary**

Shift traffic to the new version in two stages - first with a specified percentage for testing, then the remainder.

Min running tasks % | [Info](#)

Specify the minimum percent of running tasks allowed during a service deployment.

100

values in %

Max running tasks % | [Info](#)

Specify the maximum percent of running tasks allowed during a service deployment.

200

values in %

- Networking
 - Select vpc, private subnets, app security group, public ip turned off

▼ Networking

VPC [Info](#)

Select a VPC to use for your Amazon ECS resources.

vpc-0fa6dbb2623191631
netflux-vpc

Subnets

Choose the subnets within the VPC that the task scheduler should consider for placement.

Choose subnets

subnet-064738021715c413f ✕
netflux-subnet-private1-us-east-1a
us-east-1a 10.0.3.0/24

subnet-046bcd258d9f79e69 ✕
netflux-subnet-private2-us-east-1b
us-east-1b 10.0.4.0/24

Security group [Info](#)

Choose an existing security group or create a new security group.

- ☒ Use an existing security group
☐ Create a new security group

Security group name

Choose an existing security group.

Choose security groups

sg-09e944635188d6ffe ✕
netflux-app-sg

Public IP [Info](#)

Choose whether to auto-assign a public IP to the task's elastic network interface (ENI).

- ☐ Turned off

- We need service connect for internal service discovery

▼ Service Connect - optional [Info](#)

Service Connect allows for service-to-service communications with automatic discovery using short names and standard ports.

- ☒ Use Service Connect
Configure the namespaces, and the services to interconnect.

Service Connect configuration

Client mode connects to other services in the namespace, and client-server mode provides endpoints for this service. If no port mappings are supplied in the task definition, client mode will be used. This will redeploy the service.

☐ Client side only
Connects to other services in the namespace

☒ Client and server
Provides endpoints for this service and connects to other services in the namespace

Namespace

Select the namespace to specify a group of services that make up your application.

🔍 Select a namespace



Create a new namespace [↗](#)

prod
Private Cloud Map namespace for production
ns-5riSzjqhntnaolj DNS_PRIVATE prod Default namespace

Change will redeploy the existing service.

- Provide discovery name and DNS etc
 - The discovery name is optional. If it is ignored, port-alias would be used
 - DNS is also optional. If it is ignored, it will use **movie-service.prod**

Service Connect Service - 1

Remove

Port alias

movie-service-8080 ▼

Discovery

movie-service

DNS

movie-service

Port

8080

☐ Turn on traffic encryption

- Load Balancing Configuration
 - Our application will receive traffic from the application load balancer.

▼ Load balancing - optional

Configure load balancing using Amazon Elastic Load Balancing to distribute traffic evenly across the healthy tasks in your service.

☒ Use load balancing

VPC

The VPC for your load balancing resources must be the same as the VPC for your service with awsvpc.

vpc-0fa6dbb2623191631

Load balancer type | Info

Specify the load balancer type to distribute incoming traffic across the tasks running in your service.

☒ **Application Load Balancer**
An Application Load Balancer makes routing decisions at the application layer (HTTP/HTTPS), supports path-based routing, and can route requests to one or more ports.

☐ **Network Load Balancer**
A Network Load Balancer makes routing decisions at the transport layer (TCP/UDP).

Container

The container and port to load balance the incoming traffic to

movie-service 8080:8080 ▼

Host port:Container port

- Select the ALB and the listener details

Application Load Balancer

Specify whether to create a new load balancer or choose an existing one.

- ☐ Create a new load balancer
- ☒ Use an existing load balancer

Load balancer

Choose an existing load balancer to distribute traffic. View existing load balancers and create new one in [EC2 Console](#).

netflux-alb
netflux-alb-1748571092.us-east-1.elb.amazonaws.com

internet-facing

Listener [Info](#)

Specify the port and protocol that the load balancer will listen for connection requests on.

- ☐ Create new listener
- ☒ Use an existing listener

Listener

HTTP:80

Listener rules for [80:HTTP](#) (2)

Traffic received by the listener is routed according to its rules. Rules are evaluated in priority order, from the lowest value to the highest value. The default rule is evaluated last.

< 1 >

Priority	Rule path	Target group
500	/api/movies*	movie-service-containers
1000	/api/customers/*	customer-service-containers

- Select the target groups

Target group [Info](#)

Specify whether to create a new target group or choose an existing one that the load balancer will use to route requests to the tasks in your service.

- ☐ Create new target group
- ☒ Use an existing target group

Target group name

movie-service-containers

Health check path

/actuator/health

Health check protocol [Info](#)

HTTP

- Let's go with default settings for others and Create.
- Repeat the same for customer-service