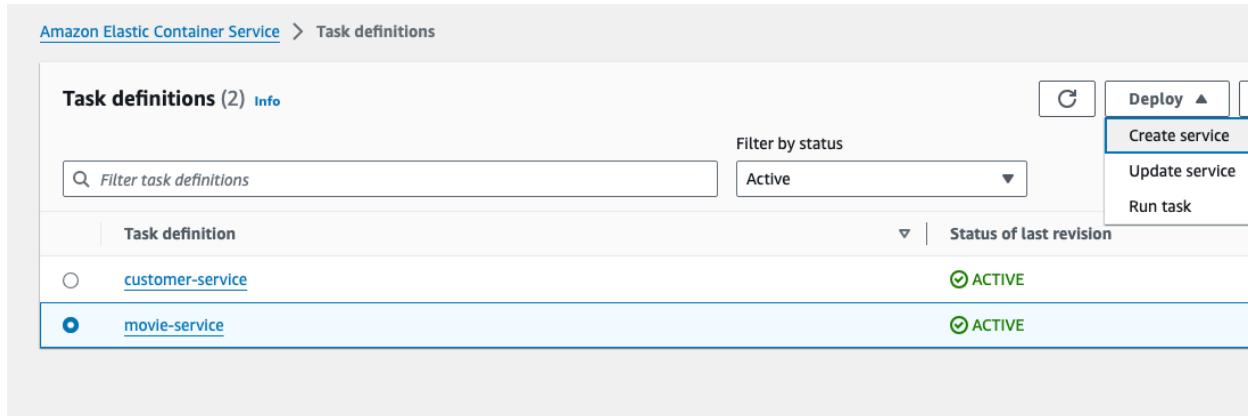


# Creating Services

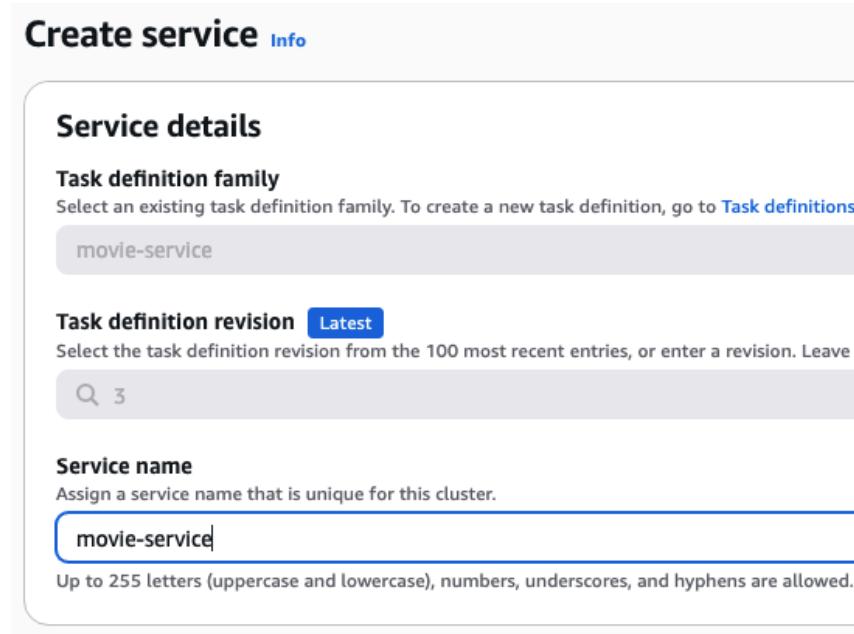
- Go to Tasks Definition
- Create a service for **movie-service**



The screenshot shows the 'Task definitions' page in the AWS Management Console. At the top, there are navigation links: 'Amazon Elastic Container Service' and 'Task definitions'. Below the header, there's a search bar labeled 'Filter task definitions' and a dropdown menu set to 'Active'. On the right, there's a 'Deploy' button with a dropdown menu containing four options: 'Create service' (which is highlighted with a blue border), 'Update service', and 'Run task'. The main table lists two task definitions:

Task definition	Status of last revision
customer-service	ACTIVE
movie-service	ACTIVE

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



The screenshot shows the 'Create service' wizard. The first step is 'Service details'. Under 'Task definition family', it says 'Select an existing task definition family. To create a new task definition, go to [Task definitions](#)' and shows 'movie-service' selected. Under 'Task definition revision', it says 'Select the task definition revision from the 100 most recent entries, or enter a revision. Leave 1' and shows 'Latest'. Under 'Service name', it says 'Assign a service name that is unique for this cluster.' and shows 'movie-service' entered. A note below says '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 service and can be used by the service to run tasks.

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 and attempts to correct them.

- 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 X

netflux-subnet-private1-us-east-1a  
us-east-1a 10.0.3.0/24

subnet-046bcd258d9f79e69 X

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 X

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 mode, 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.

Q Select a namespace



Create a new namespace ↗

prod

Private Cloud Map namespace for prod

ns-5ri5zjqhntnaojlj 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](#)

<b>Port alias</b> <input type="text" value="movie-service-8080"/>	<b>Discovery</b> <input type="text" value="movie-service"/>
<b>DNS</b> <input type="text" value="movie-service"/>	<b>Port</b> <input type="text" value="8080"/>
<input type="checkbox"/> Turn on traffic encryption	
<ul style="list-style-type: none"> <li>● Load Balancing Configuration           <ul style="list-style-type: none"> <li>○ Our application will receive traffic from the application load balancer.</li> </ul> </li> </ul>	
<p><b>▼ Load balancing - optional</b></p> <p>Configure load balancing using Amazon Elastic Load Balancing to distribute traffic evenly across the healthy tasks in your service.</p> <p><input checked="" type="checkbox"/> Use load balancing</p>	
<p><b>VPC</b></p> <p>The VPC for your load balancing resources must be the same as the VPC for your service with awsvpc.</p> <input type="text" value="vpc-0fa6dbb2623191631"/>	
<p><b>Load balancer type</b>   <a href="#">Info</a></p> <p>Specify the load balancer type to distribute incoming traffic across the tasks running in your service.</p> <div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p><input checked="" type="radio"/> <b>Application Load Balancer</b></p> <p>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.</p> </div> <div style="width: 45%;"> <p><input type="radio"/> <b>Network Load Balancer</b></p> <p>A Network Load Balancer makes routing decisions at the transport layer (TCP/UDP).</p> </div> </div>	
<p><b>Container</b></p> <p>The container and port to load balance the incoming traffic to</p> <input type="text" value="movie-service 8080:8080"/>	
<p>Host port:Container port</p>	

- 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	
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### 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*	<a href="#">movie-service-containers</a>
1000	/api/customers/*	<a href="#">customer-service-containers</a>

- 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