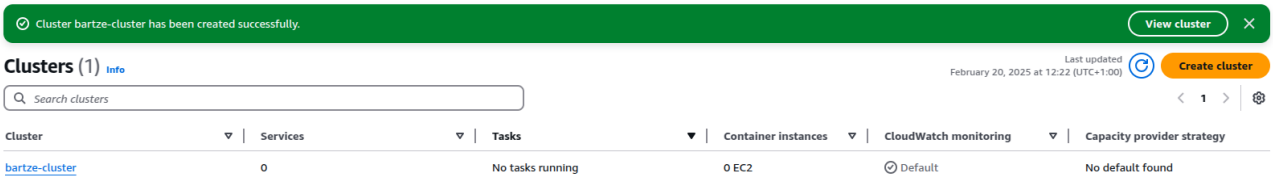
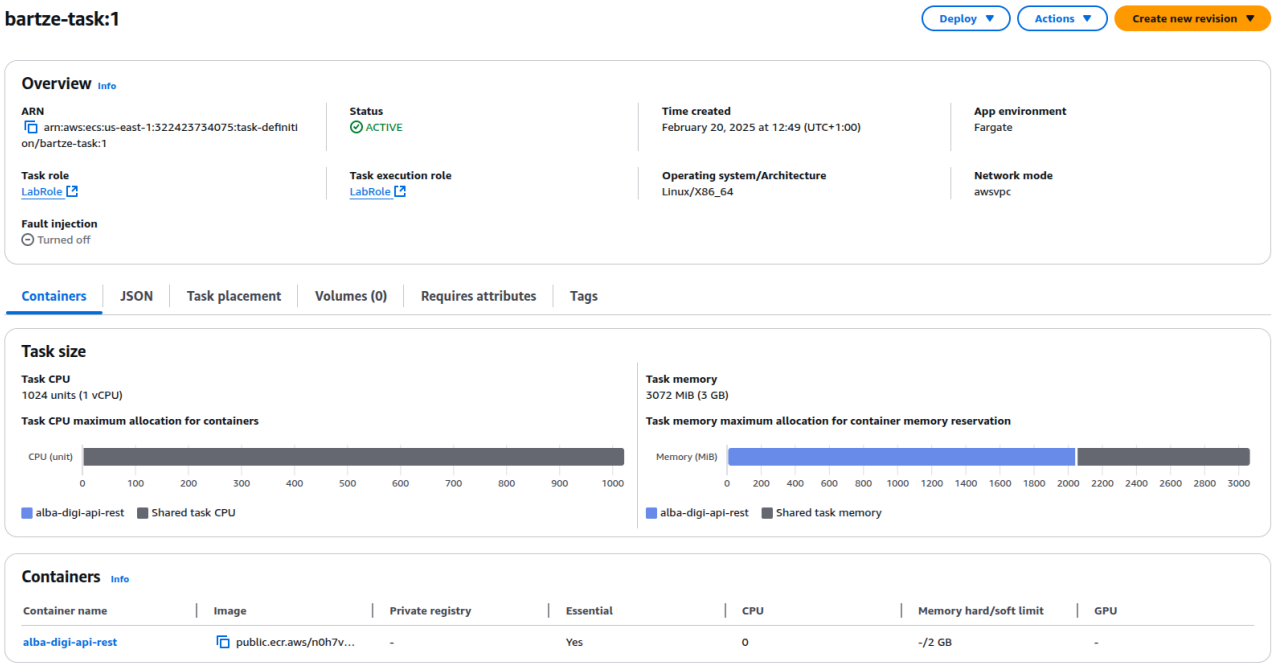
Orquestación de Contenedores

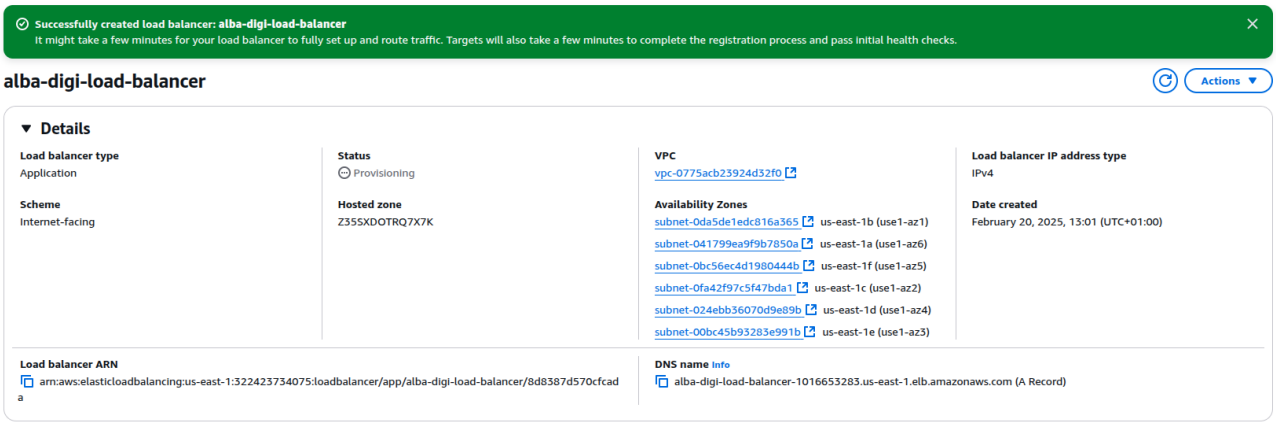
1. Crear un Cluster



2. Crear un tipo de tarea para el servicio (task definition)



3. Crear un balanceador de carga



4. Crear el servicio

Create Info

Environment

AWS Fargate

Existing cluster

bartze-cluster

▼ **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 a capacity provider strategy.

Launch type | Info

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

FARGATE ▼

Platform version | Info

Specify the platform version on which to run your service.

LATEST ▼

Deployment configuration

Application type | Info

Specify what type of application you want to run.

- ◉ **Service**
  Launch a group of tasks handling a long-running computing work that can be stopped and restarted. For example, a web application.
- ○ **Task**
  Launch a standalone task that runs and terminates. For example, a batch job.

Task definition

Select an existing task definition. To create a new task definition, go to Task definitions.

☐ Specify the revision manually

Manually input the revision instead of choosing from the 100 most recent revisions for the selected task definition family.

Family

bartze-task ▼

Revision

1 (LATEST) ▼

Service name

Assign a service name that is unique for this cluster.

alba-digi-service

Up to 255 letters (uppercase and lowercase), numbers, underscores, and hyphens are allowed. Service names must be unique within a cluster.

Service type | Info

Specify the service type that the service scheduler will follow.

- ◉ **Replica**
  Place and maintain a desired number of tasks across your cluster.
- ○ **Daemon**
  Place and maintain one copy of your task on each container instance.

Desired tasks

Specify the number of tasks to launch.

2

▼ Deployment options

Deployment type | Info

Select a deployment controller type for the service.

- ◉ Rolling update
- ○ Blue/green deployment (powered by AWS CodeDeploy)

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 %

▼ Deployment failure detection Info

⚠ Deployment protection settings have been turned off.

☐ Use the Amazon ECS deployment circuit breaker

If the service can't reach a steady state because a task failed to launch, the deployment fails.

☐ Use CloudWatch alarm(s)

If the CloudWatch alarm or alarms that you specify transition to the ALARM state, the deployment fails.

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

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

alba-digi-api-rest 5050:5050

Host port:Container port

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

Select the load balancer you wish to use to distribute incoming traffic across the tasks running in your service.

alba-digi-load-balancer

Health check grace period | Info

30

seconds

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

80:HTTP

Listener rules for 80:HTTP (1)

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

Evaluation order	Rule path	Target group
default	/	alba-digi-target-group

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

alba-digi-target-group

Health check path

/alive

Health check protocol

HTTP

alba-digi-service has been deployed successfully. View service ×

bartze-cluster

Last updated February 20, 2025 at 13:31 (UTC+1:00) Update cluster Delete cluster

Cluster overview

ARN	Status	CloudWatch monitoring	Registered container instances
arn:aws:ecs:us-east-1:322423734075:cluster/bartze-cluster	Active	Default	-

Services

Draining	Active
-	-

Tasks

Pending	Running
-	-

Services | Tasks | Infrastructure | Metrics | Scheduled tasks | Configuration | Tags

Services (1) Info

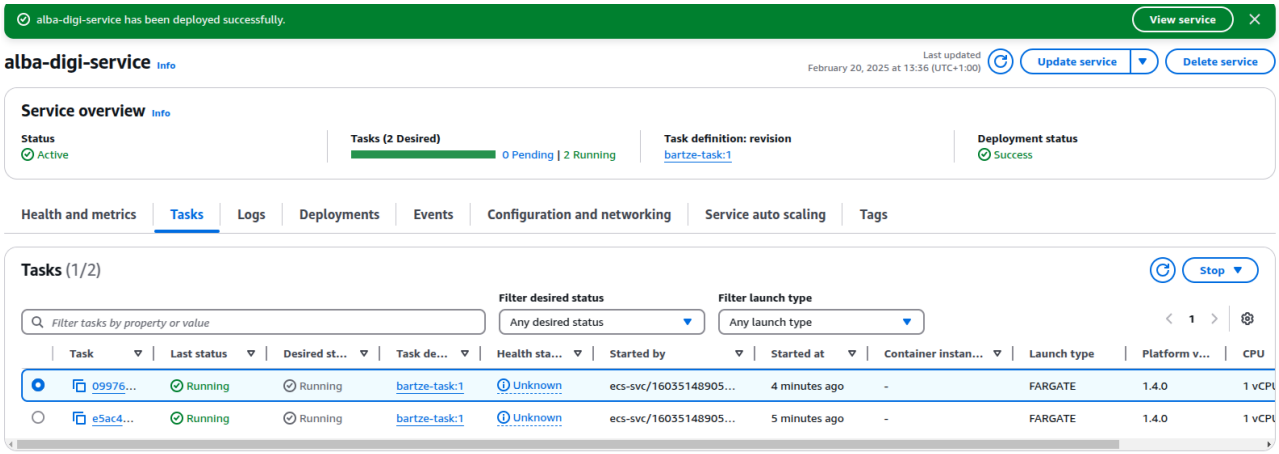
Manage tags | Update | Delete service | Create

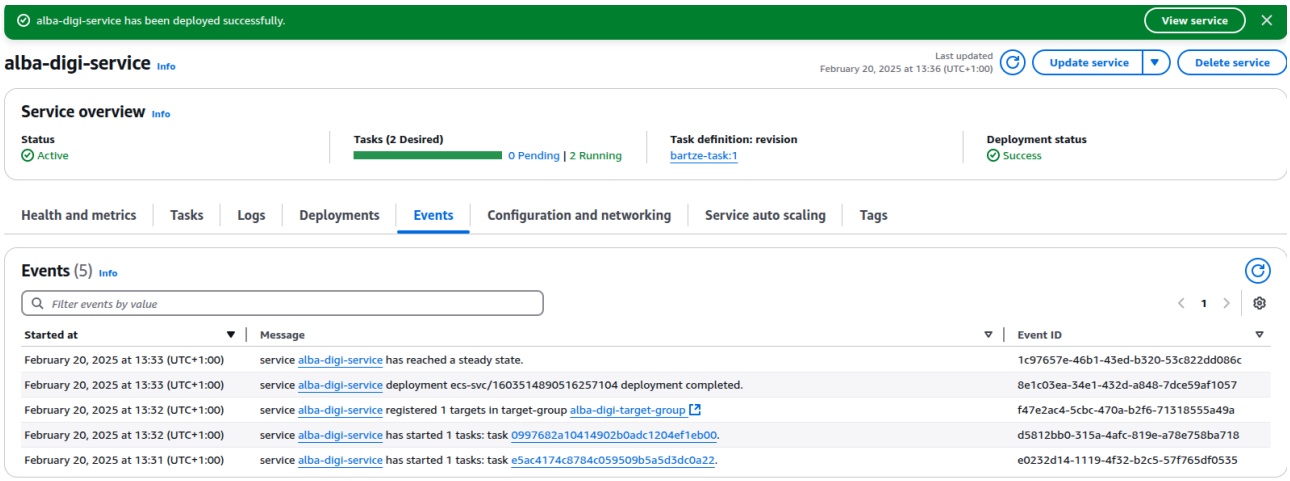
Filter services by value | Filter launch type: Any launch type | Filter service type: Any service type

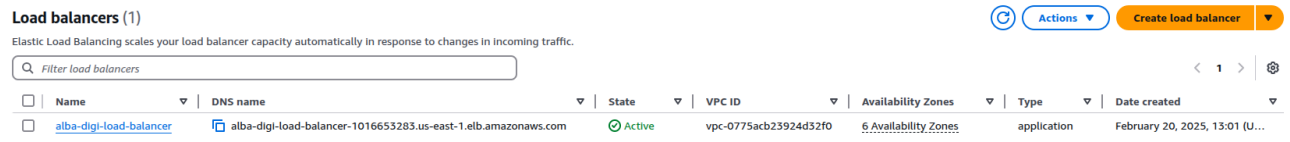
1

Service name	ARN	Status	Service type	Deployments and tasks	Last deployment	Task definition	La...
alba-digi-service	arn:aws:ecs:us-e	Active	REPLICA	2/2 Tasks running	Completed	bartze-task:1	FAR...

5. Probar el servicio








```
curso@video9:~/projects/workspace$ curl -v http://alba-digi-load-balancer-1016653283.us-east-1.elb.amazonaws.com/alive
* Host alba-digi-load-balancer-1016653283.us-east-1.elb.amazonaws.com:80 was resolved.
* IPv6: (none)
* IPv4: 52.203.192.121, 52.205.219.199, 184.73.54.209
*   Trying 52.203.192.121:80...
```

```
curso@video9:~/projects/workspace$ curl -v http://alba-digi-load-balancer-1016653283.us-east-1.elb.amazonaws.com/alive
* Host alba-digi-load-balancer-1016653283.us-east-1.elb.amazonaws.com:80 was resolved.
* IPv6: (none)
* IPv4: 52.205.219.199, 52.203.192.121, 184.73.54.209
*   Trying 52.205.219.199:80...
* Connected to alba-digi-load-balancer-1016653283.us-east-1.elb.amazonaws.com (52.205.219.199) port 80
> GET /alive HTTP/1.1
> Host: alba-digi-load-balancer-1016653283.us-east-1.elb.amazonaws.com
> User-Agent: curl/8.5.0
> Accept: */*
>
< HTTP/1.1 504 Gateway Time-out
< Server: awselb/2.0
< Date: Thu, 20 Feb 2025 12:50:23 GMT
< Content-Type: text/html
< Content-Length: 132
< Connection: keep-alive
<
<html>
<head><title>504 Gateway Time-out</title></head>
<body>
<center><h1>504 Gateway Time-out</h1></center>
</body>
</html>
* Connection #0 to host alba-digi-load-balancer-1016653283.us-east-1.elb.amazonaws.com left intact
```