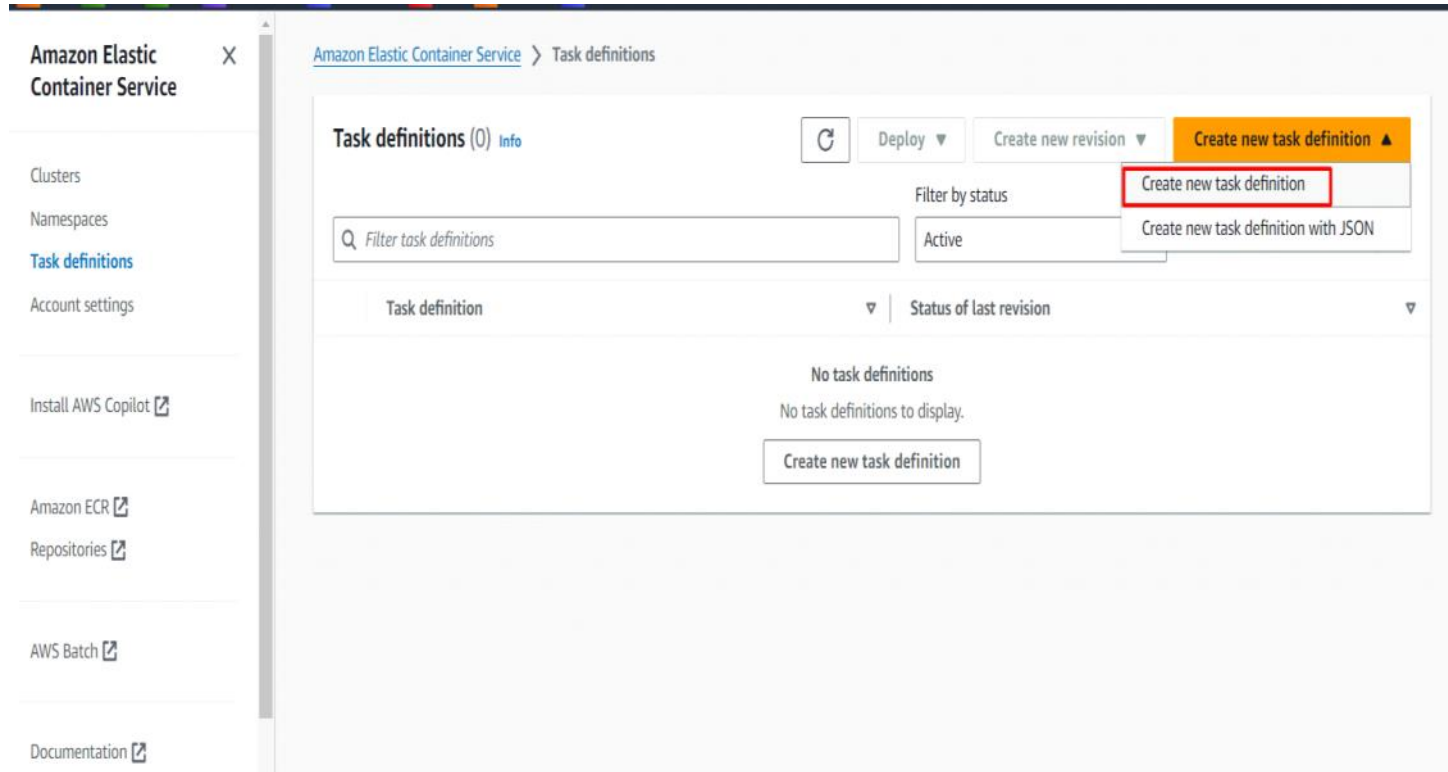


## Lab 2: Create an ECS Task Definition

### Step 1: Define Your Task

In the ECS Dashboard, click **Task Definitions** > **Create new Task Definition**.



Choose **Launch Type** (EC2 or Fargate).

**▼ Infrastructure requirements**  
Specify the infrastructure requirements for the task definition.

**Launch type** [Info](#)  
Selection of the launch type will change task definition parameters.

☐ AWS Fargate  
Serverless compute for containers.

☒ Amazon EC2 instances  
Self-managed infrastructure using Amazon EC2 instances.

**OS, Architecture, Network mode**  
Network mode is used for tasks and is dependent on the compute type selected.

**Operating system/Architecture** [Info](#)  
Linux/X86\_64

**Network mode** [Info](#)  
awsipc

**Task size** [Info](#)  
Specify the amount of CPU and memory to reserve for your task.

**CPU**  
1 vCPU

**Memory**  
3 GB

**▼ Task roles - conditional**

**Task role** [Info](#)  
A task IAM role allows containers in the task to make API requests to AWS services. You can create a task IAM role from the [IAM console](#).

None

**Configure Task Definition:**

- Provide a name for your task definition.
- **Task Size:** Specify CPU and memory resources.
- **Container Definitions:** Click **Add container**, specify the container name and image (e.g., nginx:latest).
- Define port mappings, environment variables, and log configurations (CloudWatch).
- Add additional containers if necessary.

▼ Container - 1
Info

Essential container
Remove

Container details

Specify a name, container image, and whether the container should be marked as essential. Each task definition must have at least one essential container.

Name

Image URI

Essential container

ecs-container-1

nginx:latest

Yes

Up to 255 letters (uppercase and lowercase), numbers, hyphens, and underscores are allowed.

Up to 255 letters (uppercase and lowercase), numbers, hyphens, underscores, colons, periods, forward slashes, and number signs are allowed.

Private registry
Info

Store credentials in Secrets Manager, and then use the credentials to reference images in private registries.

☒ Private registry authentication

Port mappings
Info

Add port mappings to allow the container to access ports on the host to send or receive traffic. For port name, a default will be assigned if left blank.

Container port

Protocol

Port name

App protocol

Remove

80

TCP

container-port-protocol

HTTP

Add port mapping

Read only root file system
Info

When this parameter is turned on, the container is given read-only access to its root file system.

☐ Read only

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Click **Create** to save the task definition.

## Step 2: Review Your Task Definition

1. Go back to the **Task Definitions** section.
2. Ensure your task definition is created with the correct configurations.

✔ Task definition successfully created

ecs-task-1:1 has been successfully created. You can use this task definition to deploy a service or run a task.

[View task definition](#)

[Amazon Elastic Container Service](#) > [Task definitions](#) > [ecs-task-1](#) > [Revision 1](#) > Containers

## ecs-task-1:1

Deploy ▼

Actions ▼

Create new revision ▼

### Overview [Info](#)

ARN

arn:aws:ecs:ap-south-1:565393072:task-definition/ecs-task-1:1

Status

✔ ACTIVE

Time created

August 26, 2024 at 16:11 (UTC+5:30)

App environment

EC2

Task role

-

Task execution role

-

Operating system/Architecture

Linux/X86\_64

Network mode

awsvpc

[Containers](#)

[JSON](#)

[Task placement](#)

[Volumes \(0\)](#)

[Requires attributes](#)

[Tags](#)

[Containers](#)

[JSON](#)

[Task placement](#)

[Volumes \(0\)](#)

[Requires attributes](#)

[Tags](#)

### Task size

Task CPU

1024 units (1 vCPU)

Task CPU maximum allocation for containers

CPU (unit)

0 100 200 300 400 500 600 700 800 900 1000

ecs-container-1 Shared task CPU

Task memory

3072 MiB (3 GB)

Task memory maximum allocation for container memory reservation

Memory (MiB)

0 500 1000 1500 2000 2500 3000

ecs-container-1 Shared task memory

### Containers [Info](#)

Container name	Image	Private registry	Essential	CPU	Memory hard/s...	GPU
<a href="#">ecs-container-1</a>	nginx:latest	-	Yes	0	-/-	-