

Using AWS environment and Deploy Docker Image on AWS using AWS Fargate.

Step1:

Go to ECS in Aws and Create a cluster with name Cluster-2.

Step 1: Select cluster template

Step 2: Configure cluster

Select cluster template

The following cluster templates are available to simplify cluster creation. Additional configuration and integrations can be added later.

Networking only ⓘ

[Resources to be created:](#)

Cluster

VPC (optional)

Subnets (optional)

ⓘ For use with either AWS Fargate (Windows/Linux) or with External instance capacity.

EC2 Linux + Networking

[Resources to be created:](#)

Cluster

VPC

Subnets

Auto Scaling group with Linux AMI

EC2 Windows + Networking

[Resources to be created:](#)

Cluster

Step 1: Select cluster template

Step 2: Configure cluster

Configure cluster

Cluster name*

cluster2 ⓘ

Networking

Create a new VPC for your cluster to use. A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Fargate tasks.

Create VPC

☒ Create a new VPC for this cluster

CIDR block

10.0.0.0/16 ⓘ

Subnet 1

10.0.0.0/24 ⓘ ⓘ

Subnet 2

10.0.1.0/24 ⓘ

➕ Add more subnets.

Tags

Step2:

Create a task named Task1 and follow the below screenshots.

Step 2: Configure task and container definitions

A task definition specifies which containers are included in your task and how they interact with each other. You can also specify data volumes for your containers to use. [Learn more](#)

Task definition name* Task1 ⓘ

Requires compatibilities* FARGATE

Task role ecsTaskExecutionRole ⓘ
Optional IAM role that tasks can use to make API requests to authorized AWS services. Create an Amazon Elastic Container Service Task Role in the [IAM Console](#) ⓘ

Network mode awsvpc ⓘ
If you choose <default>, ECS will start your container using Docker's default networking mode, which is Bridge on Linux and NAT on Windows. Windows tasks support the <default> and awsvpc network modes.

Operating system family Linux ⓘ

Task execution role ecsTaskExecutionRole ⓘ

Task size ⓘ
The task size allows you to specify a fixed size for your task. Task size is required for tasks using the Fargate launch type and is optional for the EC2 or External launch type. Container level memory settings are optional when task size is set. Task size is not supported for Windows containers.

Task memory (GB) 3GB ⓘ
The valid memory range for 1 vCPU is: 2GB - 8GB, in 1GB increments.

Task CPU (vCPU) 1 vCPU ⓘ
The valid CPU range for 3GB memory is: 0.5 vCPU - 1 vCPU.

Task memory maximum allocation for container memory reservation
0 3072 shared of 3072 MiB

Task CPU maximum allocation for containers
0 1024 shared of 1024 CPU units

Container definitions ⓘ

[Add container](#)

Step3:

Create the Docker container and attach the docker image url with the name as shown below.

Add container



Image*



Private repository authentication* ☐



Memory Limits (MiB) Soft limit



[+ Add Hard limit](#)

Define hard and/or soft memory limits in MiB for your container. Hard and soft limits correspond to the 'memory' and 'memoryReservation' parameters, respectively, in task definitions.

ECS recommends 300-500 MiB as a starting point for web applications.

Port mappings Container port

Protocol



tcp



* Required

Cancel

Add



Services

[Alt+S]



Tokyo

Step 4: Review

tasks in your service.

Launch type ☒ FARGATE



AWS Fargate is migrating service quotas from the current Amazon ECS task count-based quotas to vCPU-based quotas. [To learn more, refer to the AWS Fargate FAQs.](#)

- ☐ EC2
☐ EXTERNAL

[Switch to capacity provider strategy](#)



Operating system family Linux



Task Definition Family

Docker-Task

Revision

1 (latest)

Revision

1 (latest)

Platform version

LATEST

Cluster

Cluster1

Service name

service1

Service type*

REPLICA

Number of tasks

3

Minimum healthy percent

100

Maximum percent

200

Deployment circuit breaker

Disabled

Step4:

Go to the cluster under the cluster you find the tasks. And click on the task link.

aws

Services

Search

[Alt+S]

Tokyo

Mayank Mankar

Amazon ECR

Repositories

AWS Marketplace

Discover software

Subscriptions

Status

ACTIVE

Pending count

0

Task definition

Docker-Task:1

Running count

3

Service type

REPLICA

Launch type

FARGATE

Service role

AWSServiceRoleForECS

Created By

arn:aws:iam::937637232309:root

Details

Tasks

Events

Auto Scaling

Deployments

Metrics

Tags

Logs

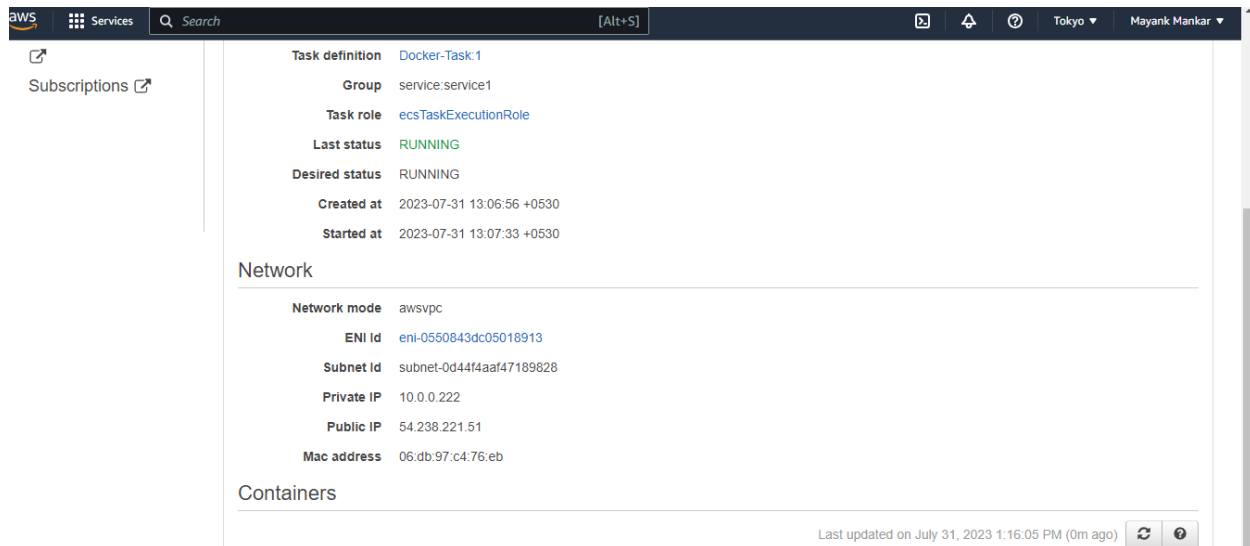
Last updated on July 31, 2023 1:15:44 PM (0m ago)

Task status: Running Stopped

Filter in this page

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Task	Task Definition	Last status	Desired status	Group	Launch type	Platform version ...
1faa1fb88c7545ec...	Docker-Task:1	RUNNING	RUNNING	service.service1	FARGATE	1.4.0
47137e874a31416...	Docker-Task:1	RUNNING	RUNNING	service.service1	FARGATE	1.4.0
48bd4579e723422...	Docker-Task:1	RUNNING	RUNNING	service.service1	FARGATE	1.4.0



Step5:

Then copy the public Ip and paste the Ip in the browser followed by 3000 port as the project based on notejs so the supported port should be applied.

