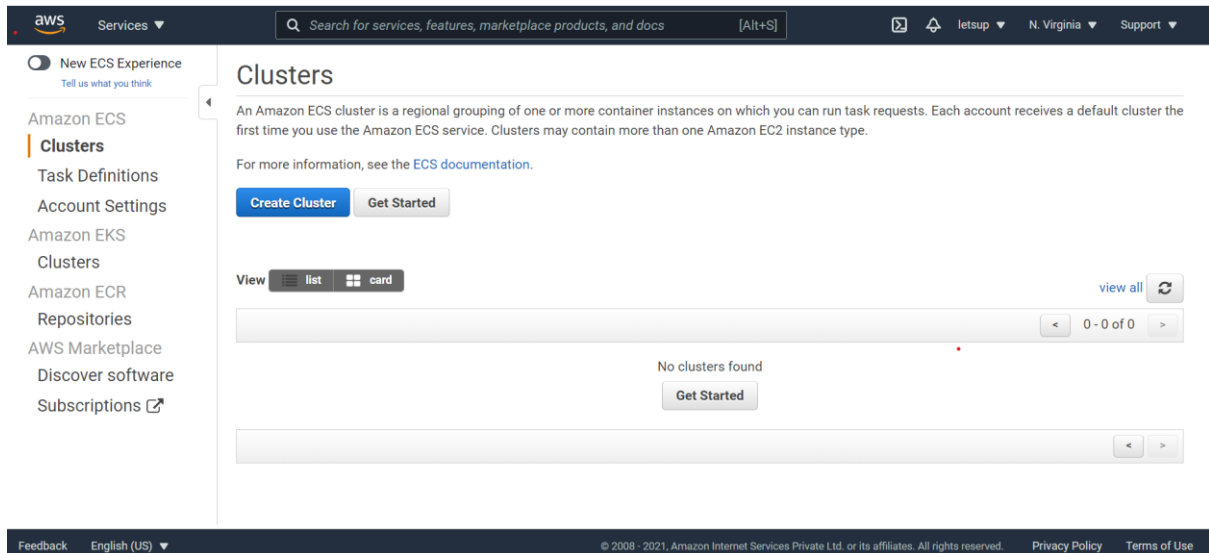


Project 2: Working with Elastic container service using Fargate

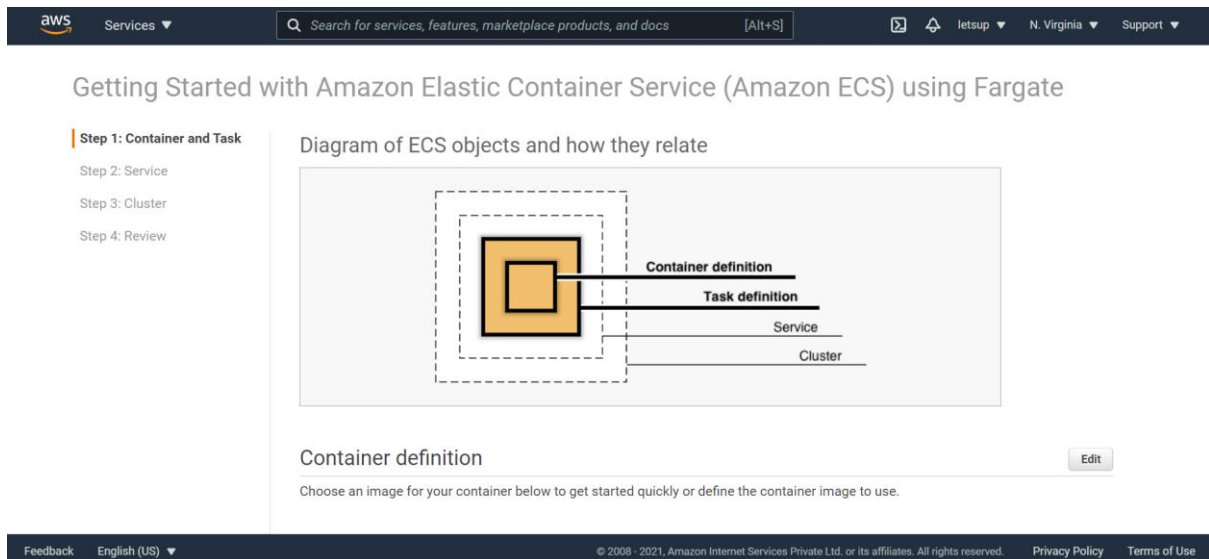
Step 1: Getting started with Amazon ECS using Fargate

SS1: ECS Console



Step 2: Creating container and task definition

SS2: 2nd panel with all options visible – Container and Task



Services

[Alt+S]

letsup
N. Virginia
Support

sample-app
image : httpd:2.4
memory : 0.5GB (512)
cpu : 0.25 vCPU (256)

nginx
image : nginx:latest
memory : 0.5GB (512)
cpu : 0.25 vCPU (256)

tomcat-webserver
image : tomcat
memory : 2GB (2048)
cpu : 1 vCPU (1024)

custom
image : --
memory : --
cpu : --

Configure

Task definition

A task definition is a blueprint for your application, and describes one or more containers through attributes. Some attributes are configured at the task level but the majority of attributes are configured per container.

Task definition name

first-run-task-definition

ⓘ

Network mode

awsvpc

ⓘ

Task execution role

Create new...

ⓘ

Edit

Feedback

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Step 3: Configuring the service

SS3: Next Panel – Service

Services

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Step 1: Container and Task

Step 2: Service

Step 3: Cluster

Step 4: Review

Diagram of ECS objects and how they relate

Define your service

A service allows you to run and maintain a specified number (the "desired count") of simultaneous instances of a task definition in an ECS cluster.

Service name

sample-app-service

Number of desired tasks

1

Edit

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Services

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Define your service

A service allows you to run and maintain a specified number (the "desired count") of simultaneous instances of a task definition in an ECS cluster.

Service name

sample-app-service

Number of desired tasks

1

Security group

Automatically create new

A security group is created to allow all public traffic to your service only on the container port specified. You can further configure security groups and network access outside of this wizard.

Load balancer type

☒ None
☐ Application Load Balancer

*Required

Cancel

Previous

Next

Feedback

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Step 4: Configuring the cluster

SS4: Next Panel - Configure Cluster

aws

Services

Search for services, features, marketplace products, and docs

[Alt+S]

letsup

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Support

Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate

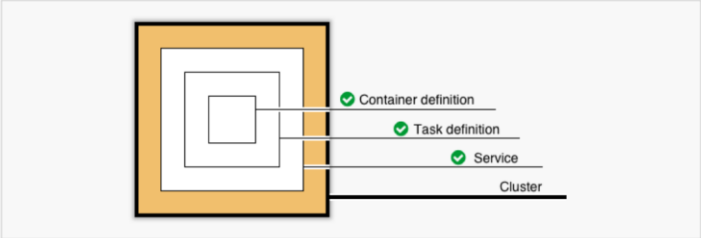
Step 1: Container and Task

Step 2: Service

Step 3: Cluster

Step 4: Review

Diagram of ECS objects and how they relate



Configure your cluster

The infrastructure in a Fargate cluster is fully managed by AWS. Your containers run without you managing and configuring individual Amazon EC2 instances.

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aws

Services

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Support

Configure your cluster

The infrastructure in a Fargate cluster is fully managed by AWS. Your containers run without you managing and configuring individual Amazon EC2 instances.

To see key differences between Fargate and standard ECS clusters, see the [Amazon ECS documentation](#).

Cluster name

cluster

Cluster names are unique per account per region. Up to 255 letters (uppercase and lowercase), numbers, and hyphens are allowed.

VPC ID

Automatically create new

Subnets

Automatically create new

*Required

Cancel

Previous

Next

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Step 5: Viewing the service

SS5: Dashboard displaying the cluster created

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Services

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letsup

N. Virginia

Support

Amazon ECS

Clusters

Task Definitions

Account Settings

Amazon EKS

Clusters

Amazon ECR

Repositories

AWS Marketplace

Discover software

Subscriptions

An Amazon ECS cluster is a regional grouping of one or more container instances on which you can run task requests. Each account receives a default cluster the first time you use the Amazon ECS service. Clusters may contain more than one Amazon EC2 instance type.

For more information, see the [ECS documentation](#).

Create Cluster

Get Started

View

list

card

view all

cluster >

CloudWatch monitoring

Default Monitoring

FARGATE

1 Services

1 Running tasks

0 Pending tasks

EC2

No data

No data

Feedback

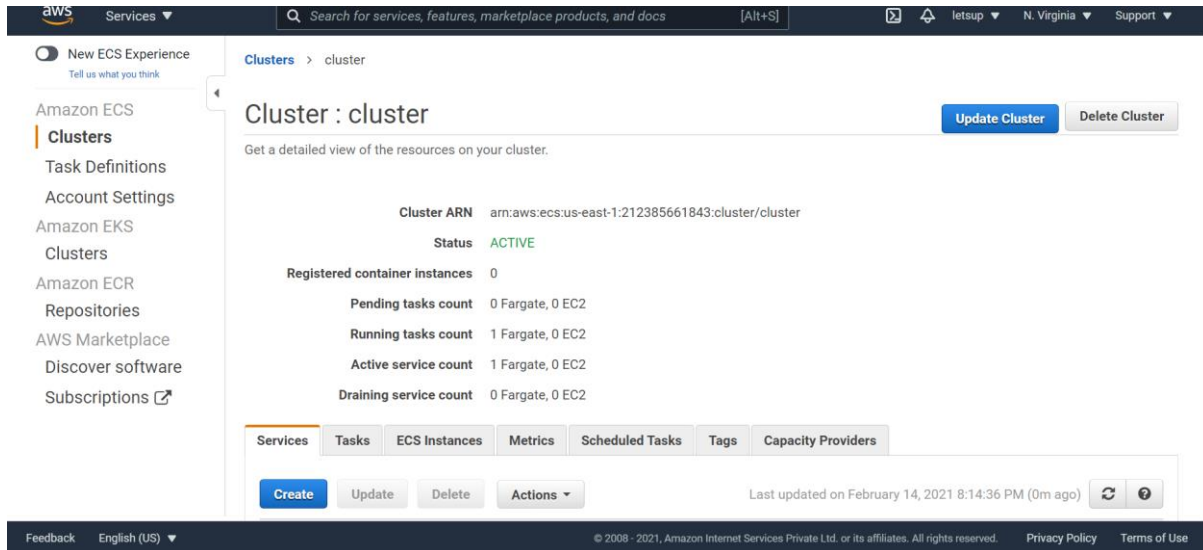
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SS6: Cluster information



Cluster : cluster

Get a detailed view of the resources on your cluster.

Cluster ARN `arn:aws:ecs:us-east-1:212385661843:cluster/cluster`

Status **ACTIVE**

Registered container instances 0

Pending tasks count 0 Fargate, 0 EC2

Running tasks count 1 Fargate, 0 EC2

Active service count 1 Fargate, 0 EC2

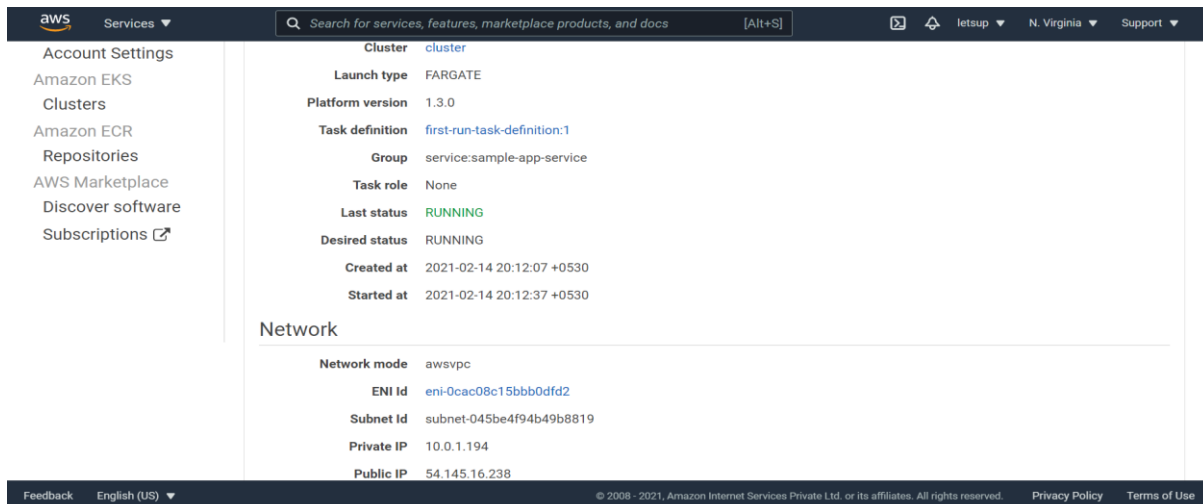
Draining service count 0 Fargate, 0 EC2

Services | **Tasks** | **ECS Instances** | **Metrics** | **Scheduled Tasks** | **Tags** | **Capacity Providers**

Create | **Update** | **Delete** | **Actions**

Last updated on February 14, 2021 8:14:36 PM (0m ago)

SS7: Panel displaying ENI ID



Cluster : cluster

Launch type FARGATE

Platform version 1.3.0

Task definition [first-run-task-definition:1](#)

Group service:sample-app-service

Task role None

Last status **RUNNING**

Desired status RUNNING

Created at 2021-02-14 20:12:07 +0530

Started at 2021-02-14 20:12:37 +0530

Network

Network mode awsvpc

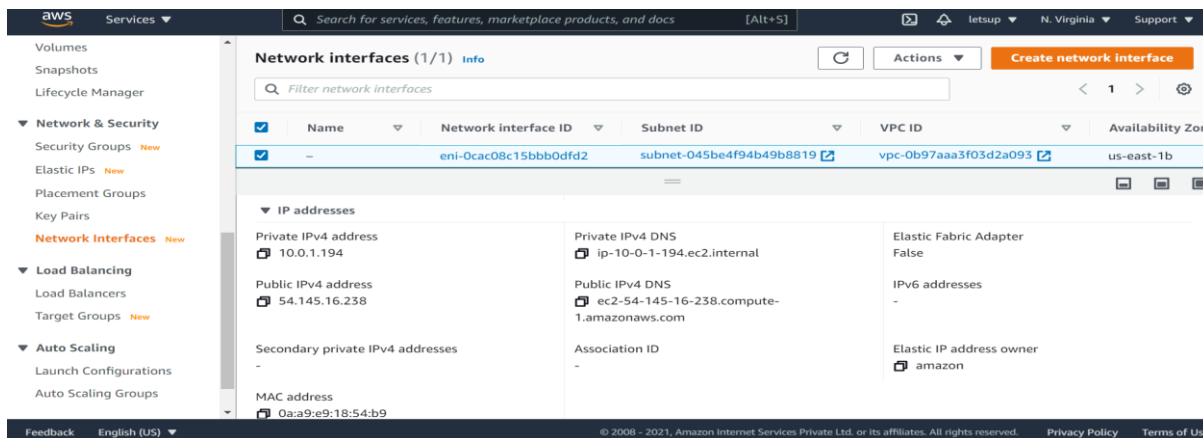
ENI Id [eni-0cac08c15bbb0dfd2](#)

Subnet Id [subnet-045be4f94b49b8819](#)

Private IP 10.0.1.194

Public IP 54.145.16.238

SS8: Panel displaying the private, public, and the macid



Network interfaces (1/1)

Filter network interfaces

Name	Network interface ID	Subnet ID	VPC ID	Availability Zone
-	eni-0cac08c15bbb0dfd2	subnet-045be4f94b49b8819	vpc-0b97aaa3f03d2a093	us-east-1b

IP addresses

Private IPv4 address [10.0.1.194](#)

Public IPv4 address [54.145.16.238](#)

MAC address [0a:a9:e9:18:54:b9](#)

Private IPv4 DNS [ip-10-0-1-194.ec2.internal](#)

Public IPv4 DNS [ec2-54-145-16-238.compute-1.amazonaws.com](#)

Association ID -

Elastic Fabric Adapter [False](#)

IPv6 addresses -

Elastic IP address owner [amazon](#)

SS9: Display application

