Demo 2: ECS Basics - A region-based service

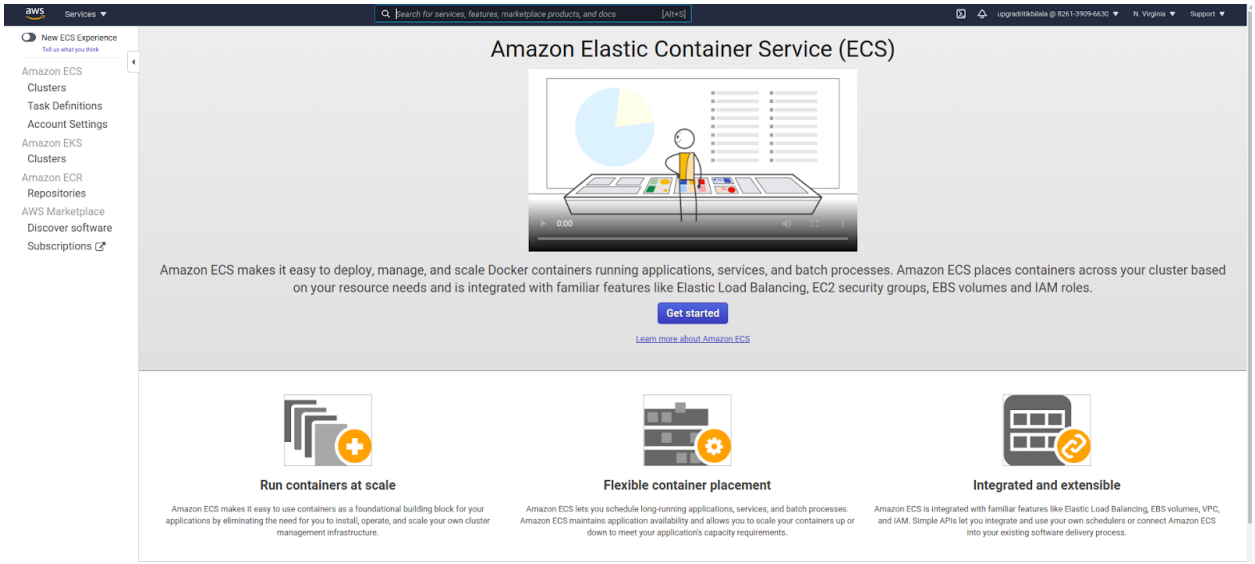
Introduction

Following are the learning objectives of this demonstration:

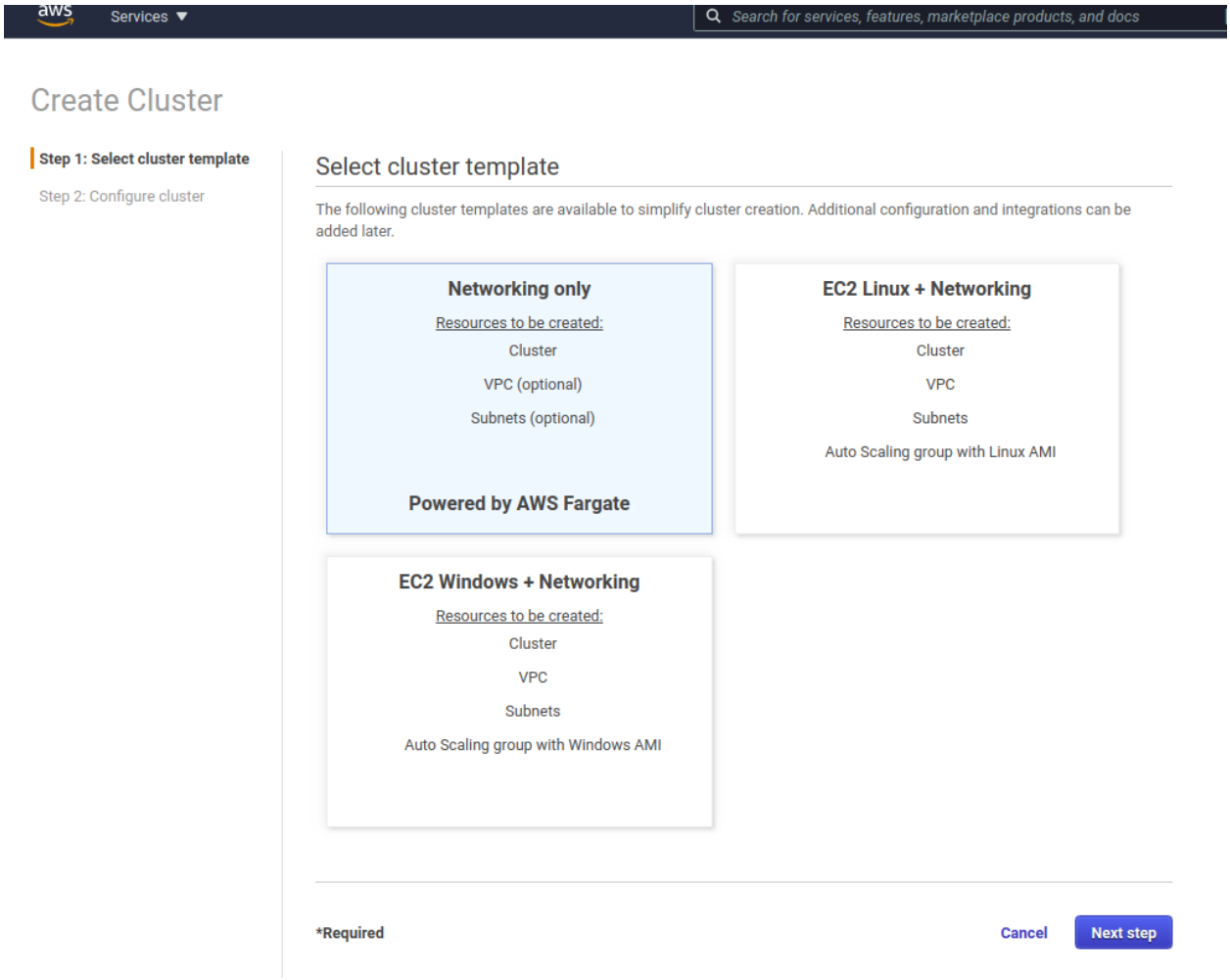
- EC2 and Fargate mode overview
- Launch 'get started' cluster, a walkthrough by AWS
- ECS task and service overview

ECS Basics:

1. Browse to ECS console



2. **Overview of ECS cluster modes:**
   From the left panel, browse to the clusters page; Clusters >> Create Clusters.



There are three modes :

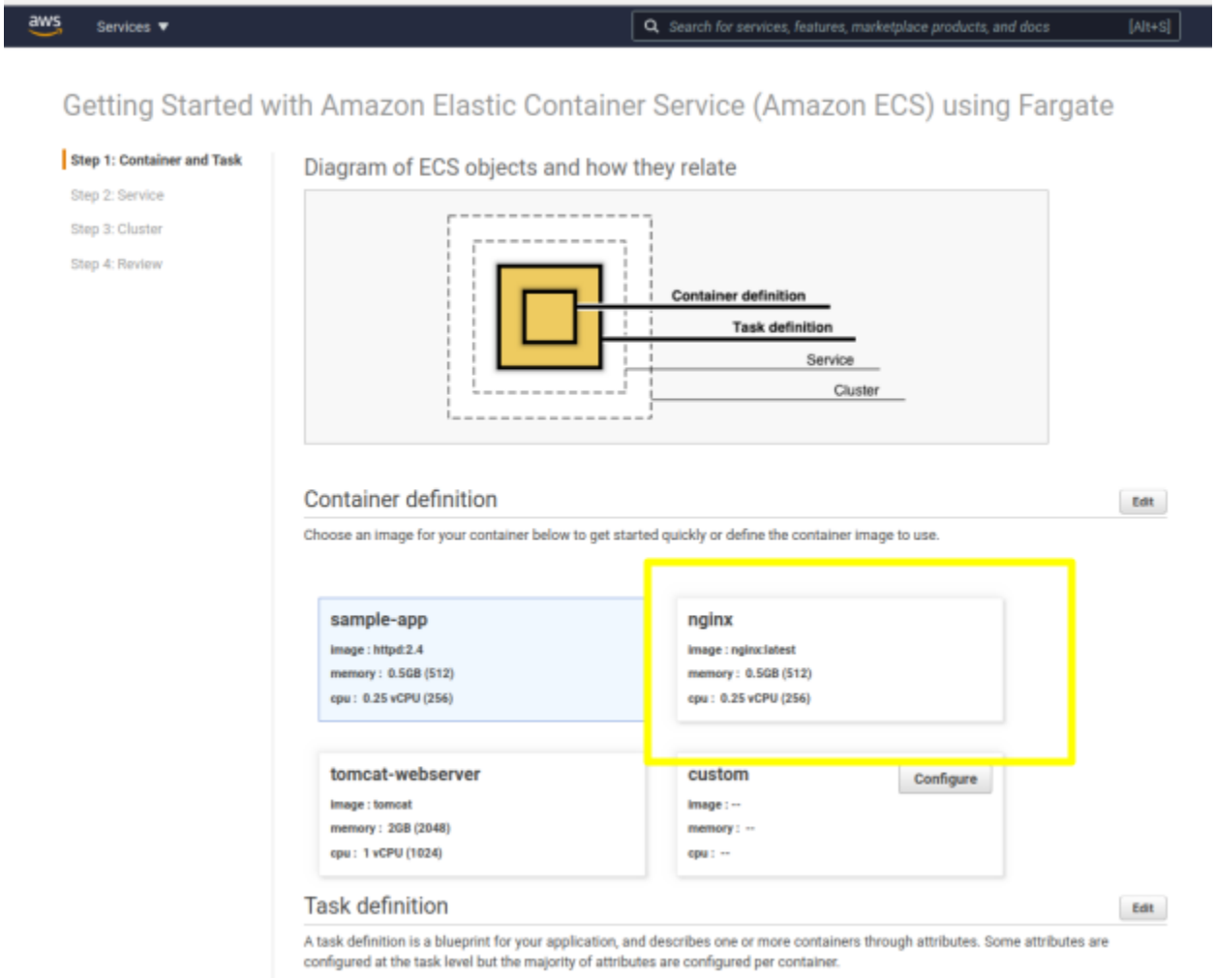
1. Fargate
2. EC2- Linux
3. EC2 - Windows

Before creating our cluster, let's look at what amazon already has for us.

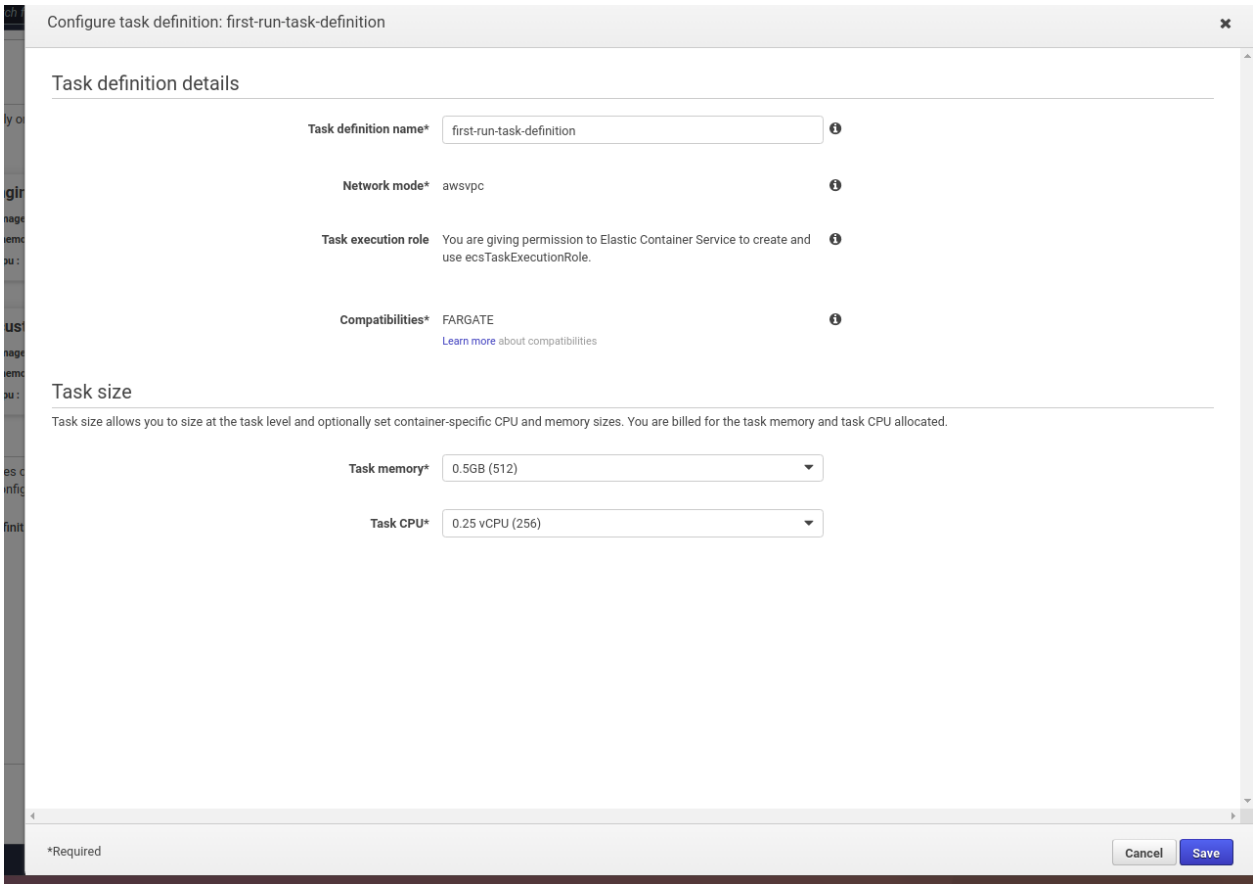
Launch a 'getting started' cluster

This is a tutorial by amazon to walk us through the ECS features.

1. Click on the " Get Started" button on the "clusters" page. You will see the following page:



2. Choose an **Nginx** image for your container.
3. Click on edit under the task definition.



4. On the next page, define your service.

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

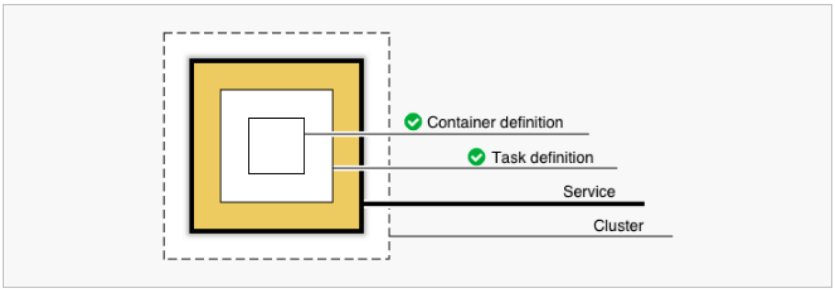
Step 1: Container and Task

Step 2: Service

Step 3: Cluster

Step 4: Review

Diagram of ECS objects and how they relate



Define your service

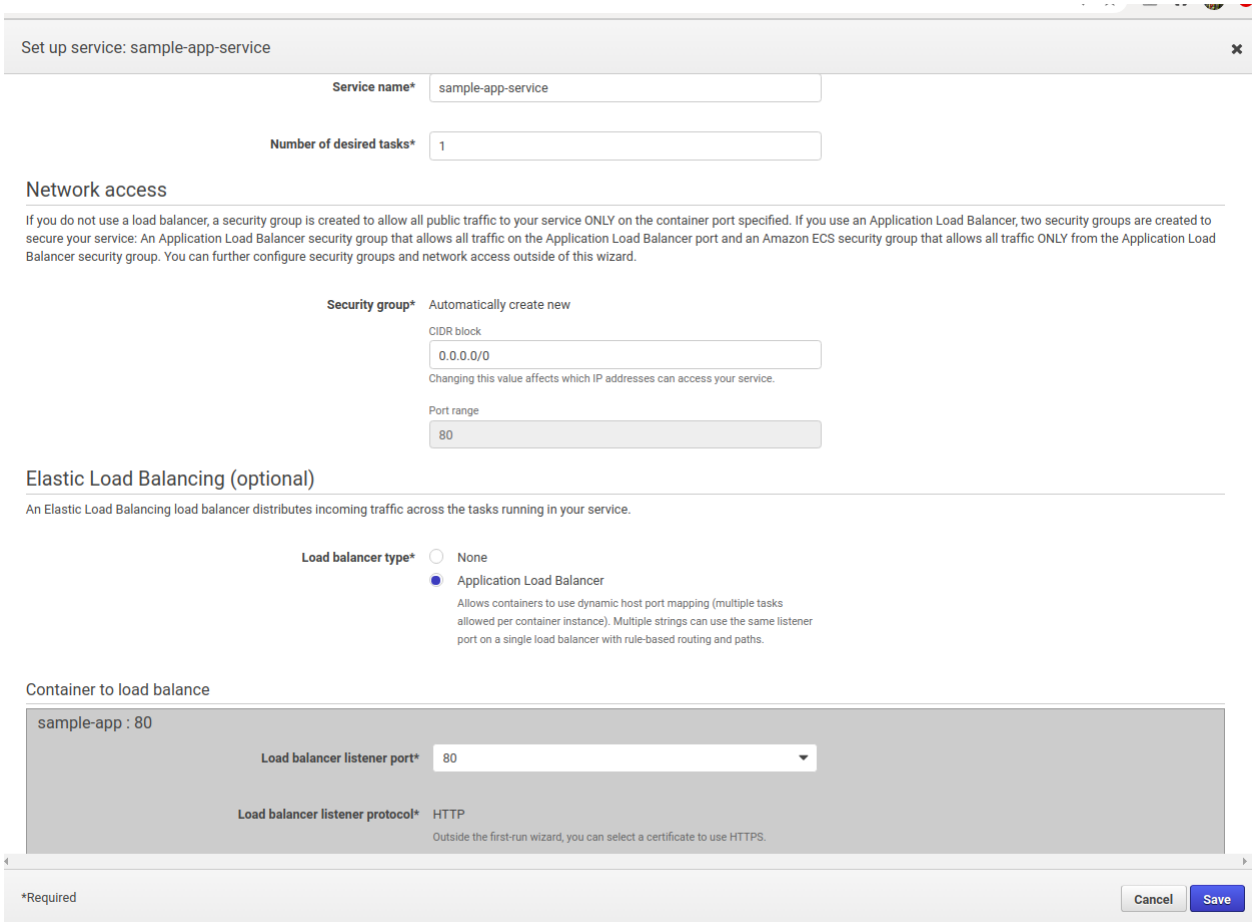
Edit

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



5. Edit the cluster name and click next

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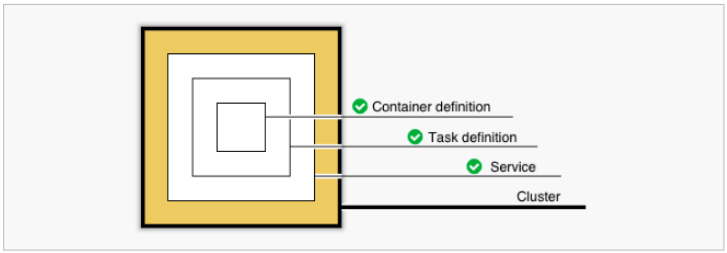
Diagram of ECS objects and how they relate



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.

To see key differences between Fargate and standard ECS clusters, see the Amazon ECS documentation.

Cluster name: upgrad

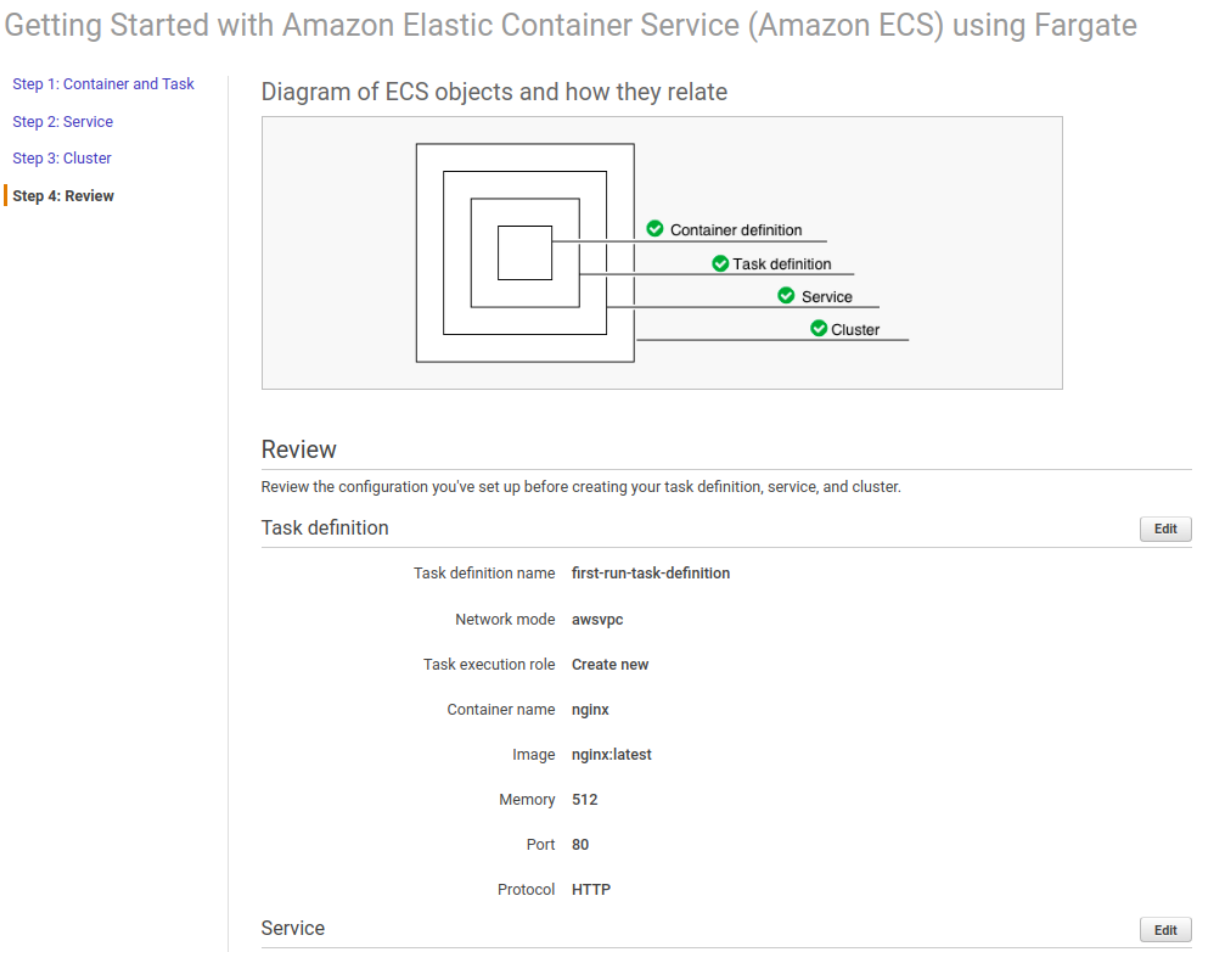
Cluster names are unique per account per region. Up to 255 letters (uppercase and lowercase), numbers, and hyphens are allowed.

VPC ID: **Automatically create new**

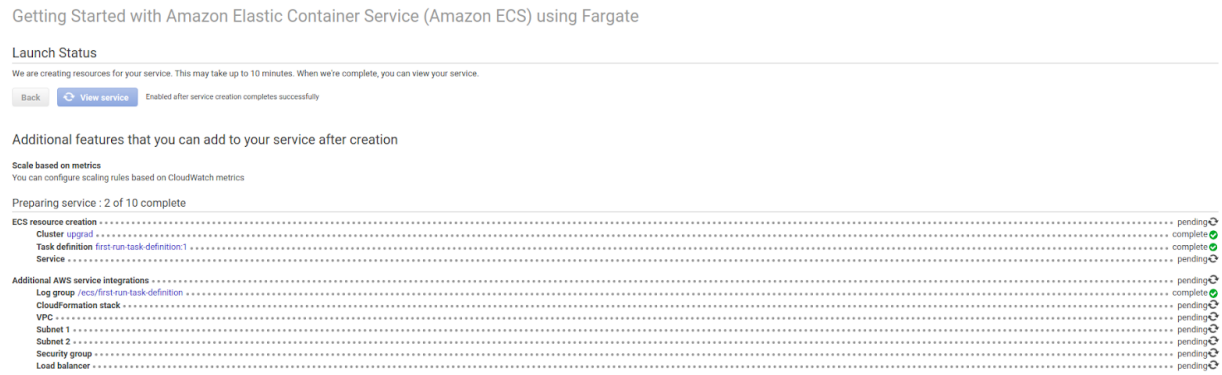
Subnets: **Automatically create new**

*Required

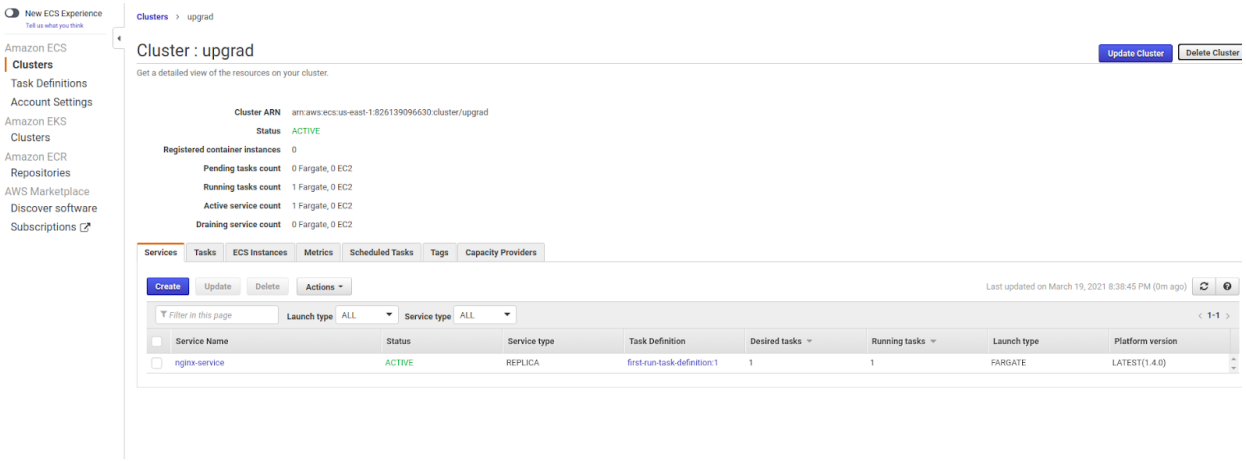
Cancel | Previous | Next



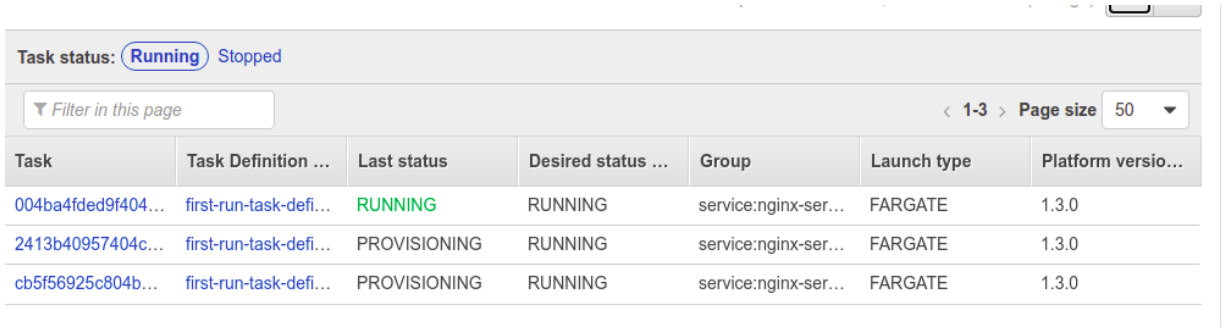
6. Click next and create the cluster.



7. Once the cluster is launched, click on the “view services” button.



8. The above page shows every detail of the cluster
9. Click on the task tab



10. Hit the public IP of any tasks

11. Try terminating the tasks, and service will respawn the tasks to maintain availability.

Note:

1. Carefully look at all the pages and options of the “getting started” tutorial, followed in the demonstration above.
2. Don't forget to **delete** the cluster after you have gone through all the details.

- logging, monitoring