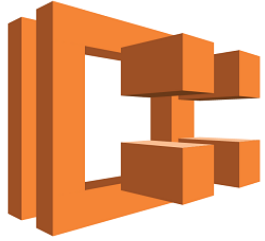# Section 12.3: AWS Elastic Container Service (ECS)
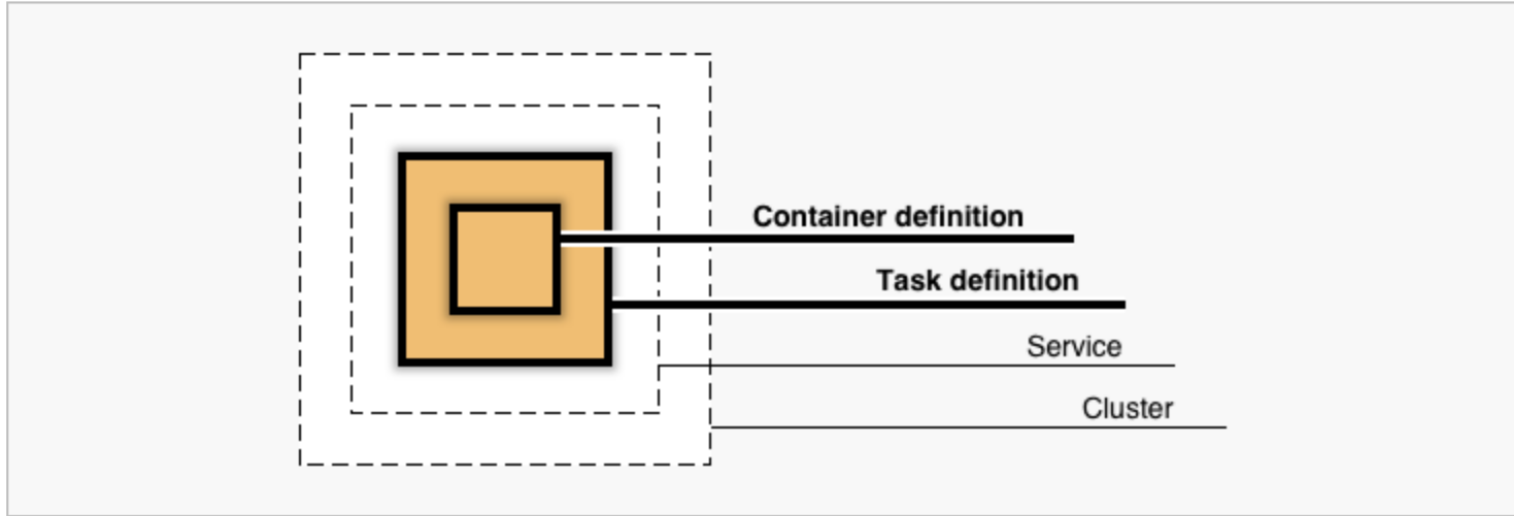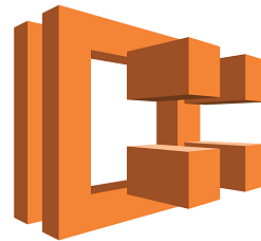
Overview

What is ECS?

"Amazon Elastic Container Service (Amazon ECS) is a highly scalable, fast, container management service that makes it easy to run, stop, and manage Docker containers on a cluster."

# ECS Components

Diagram of ECS objects and how they relate

ECS Task Definitions and Tasks

- A task definition is like a blueprint for your application (a bit like a Dockerfile). In this step, you will specify a task definition so Amazon ECS knows which Docker image to use for containers, how many containers to use in the task, and the resource allocation for each container.
- Your entire application stack does not need to exist on a single task definition, and in most cases it should not.

ECS Services
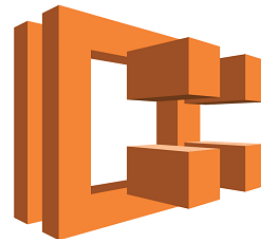
- Amazon ECS allows you to run and maintain a specified number of instances of a task definition simultaneously in an Amazon ECS cluster. This is called a service.
- If any of your tasks should fail or stop for any reason, the Amazon ECS service scheduler launches another instance of your task definition to replace it and maintain the desired count of tasks in the service depending on the scheduling strategy used.

ECS Cluster
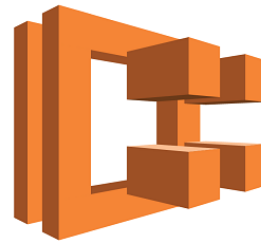
- An Amazon ECS cluster is a logical grouping of tasks or services.
- Two main launch types: Fargate and EC2: https://docs.aws.amazon.com/AmazonECS/latest/developerguide/launch_types.html

Let's Get Started!

See you in the next section