

Lab description

Amazon Elastic Container Service (ECS) is a performant and scalable container management and orchestration service available in the public AWS cloud. It supports running your containers in AWS Fargate or using customizable Amazon EC2 instances. Amazon ECS is also able to integrate seamlessly with other AWS services.

Among the many deployment models you can use with Amazon ECS, blue/green deployments, which allow gated deployments with no downtime, are supported.

In this lab, you will use the AWS Management Console to build Docker images and deploy them using Amazon Elastic Container Service (ECS).

Learning Objectives

Upon completion of this lab, you will be able to:

- Use AWS CodeBuild to create Docker images and place them in Amazon ECR
- Create an Amazon ECS cluster
- Create Amazon ECS task definitions and services
- Switch from one deployed application to another quickly and with no downtime

Intended Audience

- Candidates for the AWS Developer Associate certification
- DevOps Engineers
- Cloud Architects
- Software Engineers

Prerequisites

Familiarity with the following will be beneficial but is not required:

- Amazon Elastic Container Registry (ECR)

- AWS CodeBuild
- Amazon Elastic Compute Cloud (EC2)
- Amazon Elastic Container Service (ECS)
- Docker

The following content can be used to fulfill the prerequisites:

- [Compute Fundamentals For AWS](#)
- [Working with AWS CodeBuild](#)
- [Introduction to Docker](#)
- [Using Elastic Load Balancing & EC2 Auto Scaling to Support AWS Workloads](#)