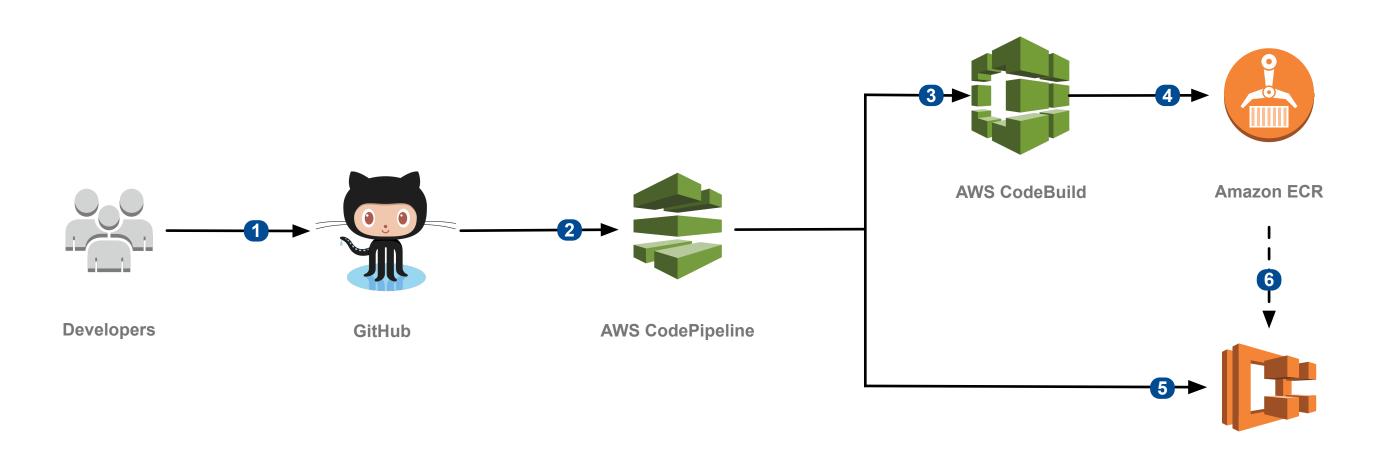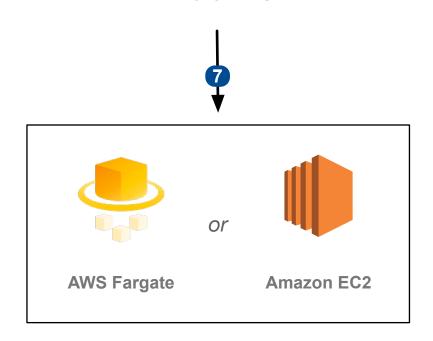# Amazon ECS Continuous Deployment

Build a continuous deployment pipeline for Docker containers

This diagram shows how to use AWS CodePipeline and AWS CodeBuild to build an automated continuous deployment pipeline to Amazon Elastic Container Service (Amazon ECS) using clusters powered by AWS Fargate or Amazon Elastic Compute Cloud (Amazon EC2).

Developers

GitHub

AWS CodePipeline

AWS CodeBuild

Amazon ECR

Amazon ECS

AWS Fargate *or* Amazon EC2

1 Developers continually integrate their changes into a main branch hosted within a source code repository system such as GitHub or AWS CodeCommit.

2 AWS CodePipeline polls the source code repository and triggers an execution of the pipeline when a new revision is found.

3 AWS CodePIpeline executes a build of the new revision in AWS CodeBuild which creates a Docker container image from the source code.

4 AWS CodeBuild pushes the newly built Docker container image tagged with the revision ID to an Amazon ECR repository.

5 AWS CodePipeline initiates an update of the Amazon ECS task definition and service with the new image location.

6 Amazon ECS fetches the new container from Amazon ECR and replaces the old tasks with the new one on the cluster.

7 The new revision of the service is now running on the cluster using the specified launch type: AWS Fargate or Amazon EC2.

aws

AWS Reference Architectures