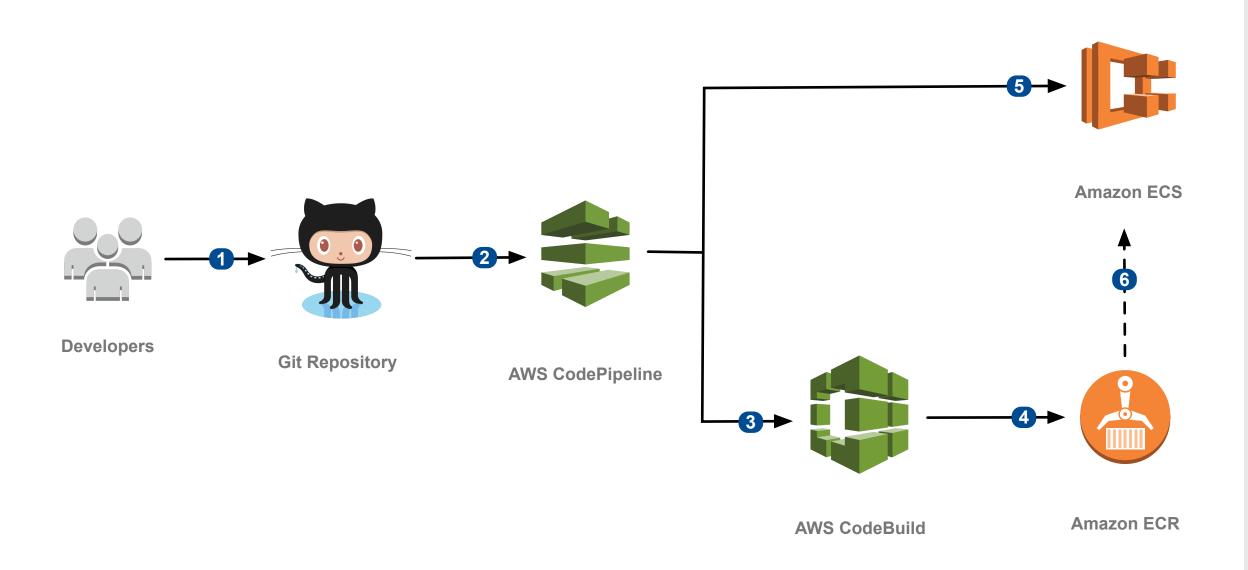# Amazon ECS Continuous Deployment

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 Registry (Amazon ECR) and Amazon Elastic Container Service (Amazon ECS).

Developers

Git Repository

AWS CodePipeline

Amazon ECS

AWS CodeBuild

Amazon ECR

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

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

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

4. AWS CodeBuild pushes the newly built Docker container image tagged with the build 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, replaces the old task with the new one, and completes the deployment.

AWS Reference Architectures