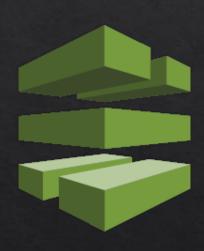


CONTINUOUS INTEGRATION AND CONTINUOS DELIVERY

- Concepts
- How it works
- Demo
- Questions



Concepts





Continuous Integration

Continuous Delivery

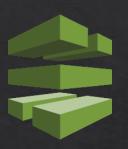


Continuous Deployment

Software development practice where developers FREQUENTLY merge their code changes into a central repository, after which automated builds and tests are run.

Code changes are automatically built, tested beyond unit tests - UI testing, load testing, integration testing, API reliability testing, etc.- and pushed to a non-production testing or staging environment.

With Continuous
Deployment, production
happens automatically
without explicit approval.



What is AWS CodePipeline?

AWS CodePipeline is a fully managed <u>Continuous Delivery</u> service that helps to automate release pipelines for fast and reliable application and infrastructure updates.

Automates the build, test, and deploy phases of your release process every time there is a code change, based on the release model you define.



What is AWS CodeDeploy?

AWS CodeDeploy is a fully managed deployment service that automates software deployments across your development, test, and production environments whether deploying to Amazon EC2, AWS Lambda, and your on-premises servers.

Essential Components

Source Code Repository

+

Appspec.yml File



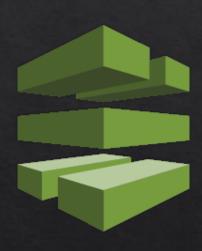
CodeDeploy Agent



What is AWS CodeBuild?

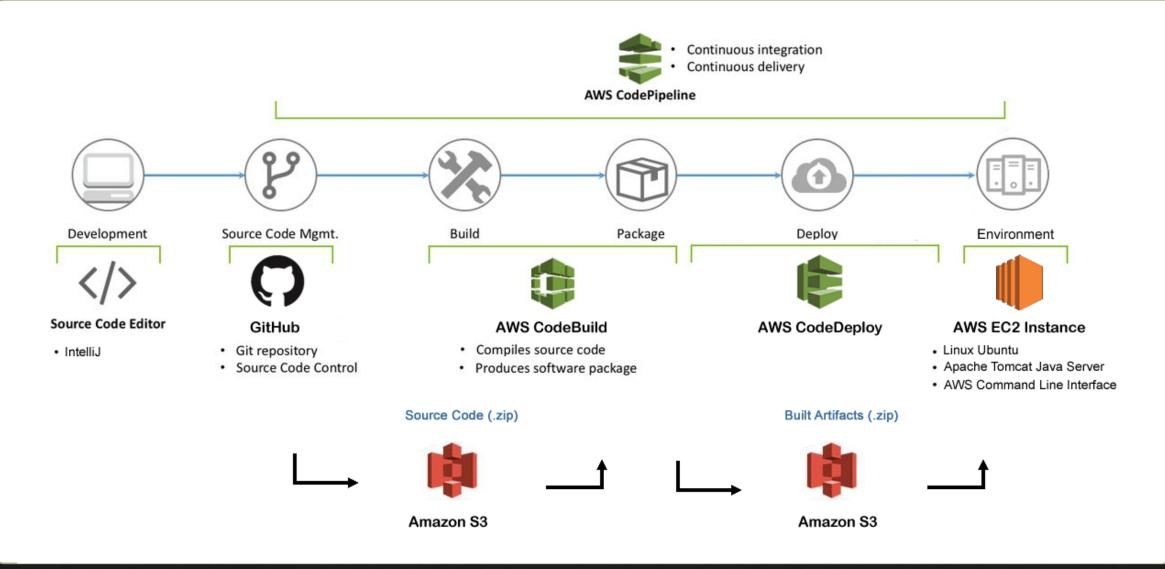
AWS CodeBuild is a fully managed continuous integration service that compiles source code, runs tests, and produces software packages that are ready to deploy.

Demo





Demo Configuration



Demo Prerequisites

AWS Account

- EC2 Instance with Linux Ubuntu 16 LTS and Apache Tomcat.
- ☐ AWS CodeDeploy Agent installed.
- AWS CodeDeploy Service Role to access the instances to which applications will be deployed.

GitHub Account

Repository with a Java Web Application or where you can push the sample code.

Source Code Editor

- IntelliJ
- Java WebApp Maven Project

□ OK... Let's do it!



THANK YOU!

Questions?

