

DevOps Tools

CodeBuild



AWS: CodeBuild

- 💧 Fully managed build service
- 💧 Alternative to other build tools such as Jenkins
- 💧 Continuous scaling (no servers to manage)
- 💧 Pay for usage: the time it takes to complete the builds

AWS: CodeBuild

- 💧 Leverages Docker under the hood for reproducible builds
- 💧 Possibility to extend capabilities leveraging own Docker images
- 💧 Secure: Integration with KMS for encryption of build artifacts, IAM for build permissions, and VPC for network security, CloudTrail for API calls logging

AWS: CodeBuild

- ◆ Source Code from GitHub / CodeCommit / CodePipeline / S3...
- ◆ Build instructions can be defined in code (buildspec.yml file)
- ◆ Output logs to Amazon S3 & AWS CloudWatch Logs
- ◆ Metrics to monitor CodeBuild statistics

AWS: CodeBuild

- 💧 Use CloudWatch Events to detect failed builds and trigger notifications
- 💧 Use CloudWatch Alarms to notify if you need “thresholds” for failures
- 💧 CloudWatch Events / AWS Lambda as a Glue
- 💧 SNS notifications

Exercise 04.1: Building a sample Project using CodeBuild

- 💧 Build a Sample CodeBuild Project
- 💧 Pass Env variables/Parameters to Build using SSM
- 💧 Build and upload artifacts to S3
- 💧 View/Configure CloudWatch Logs/Events/Metrics
- 💧 Code Commit Pull requests with Code Build