AWS DevOps

Case Study

- Organization is looking for an automated way to Build and Deploy Java Application to the Development and Production **elastic beanstalk** environments by using **AWS DevOps services**

- Developer – Focus writing code and merge

- Build and Release (DevOps) team – Building and releasing code

Problem Statement

- Continuous code merge for fixes or changes

- Not every piece of code or feature getting tested

- Manual build and release process

- Time consuming

- Lack of team collaboration

Solution

- Automate the build, test, release and deploy process

- Instant notification on failures

- Fix code before moving the release stage

AWS DevOps Core Services

- CodeCommit
- CodeBuild
- CodeArtifacts
- CodeDeploy
- CodePipeline

AWS Services Used

- CodeCommit   – Code Repository
- CodeBuild   – Building the code
- CodeArtifacts   – Third Party Artifacts
- CodePipeline   – Creating CICD
- S3   – Storing artifacts
- SNS   – Email Notifications
- Elastic Beanstalk   – Target Deployment environments
- IAM   – Permissions and Roles

Case Study DevOps Architecture