

#### CI tool: AWS CodeBuild

- 1.) Has integration with the rest of the AWS ecosystem
- 2.) Can build and run tests
- 3.) Has the capability to allow for some tests to be manually approved while others automatically go through
- 4.) Flows smoothly into CodeDeploy for an easy deployment experience
- 5.) Can be integrated with things like Jenkins as a worker node

#### Error Monitoring: AWS CloudWatch

- 1.) Has integration with other Amazon services like CodeBuild
- 2.) Very detailed logs
- 3.) Relatively easy setup once you have an account
- 4.) Can trigger certain behaviors in other services based on warning or errors it receives (i.e. shutdown an EC2 instance due to a database error to avoid further issues)

#### CI setup:

- 1.) Make an AWS account
- 2.) Make an application to build
- 3.) Add a buildspec.yml file (essentially just instructions for CodeBuild, if done in the browser I believe they can generate a template)
- 4.) Upload your code to a repository (Works easiest with CodeCommit but can be linked with GitHub, Bitbucket, etc.)
- 5.) Create an S3 bucket for artifact storage
- 6.) Create the build project in the CodeBuild page (This is where AWS can generate a buildspec file for you and where you link your repo to CodeBuild)
- 7.) Success!

#### Error Monitoring setup:

- 1.) Pretty much enabled by default for all AWS services, so no setup needed there
- 2.) As long as your application is running in an AWS environment (EC2, Elastic Beanstalk, etc.) CloudWatch will store application logs