**AWS CODE PIELINE**

AWS CodePipeline is a continuous delivery service you can use to model, visualize, and automate the steps required to release your software.

Visual Workflow

Source: GitHub/ Codecommit/ S3

Build: CodeBuild/Jenkins….

Load Testing: 3rd party tool

Deploy: CodeDeploy / ElasticBeanstalk / CloudFormation/ ECS…

**Continuous Integration**

* Developers push the code to a code repository often [Github/codecommit/bitbucket…]
* There will be a build server checks the code as soon as it’s pushed [Codebuild/Jenkins,…]
* It process the build section [compilation, unit test, static code analysis, code coverage, quality gate and package the artifacts]
* The developers get the feedback about the test and checks that have passed / failed.
* It helps them to find bugs early and fix bugs.
* This way you can test the code the faster and deliver the code faster

**Continous Delivery**

* Ability to deploy often using automation
* May Involve manual step to “approve” a deployment.
* Contionous Deployment
* Full automation, every code change is deployed all the way to the production
* No manual intervention

**Technology Stack for CICD**

**AWS code build**

**Jenkins**

**Code**------------**Build**------------Test------------------**Deploy**-------------Monitoring---------Provisionin

**AWS code commit AWS ELASTIC BEAN STACK**

**Github AWS code deploy**

**User managed EC2**

**[cloud formation]**

**CODEPIPILNE**