

Deployment Pipeline with CodePipeline

In the part 1 of the course we created our base architecture, based on ECS cluster, DB cluster, and Application load balancers backed in a Infrastructure As a Code thanks to the Cloudformation templates.

In the part 2 we are going to be focusing in the developers side, the continuous integration and continuous deployment implementation and of course the tools we need to do it in an efficient way.

We want that every code changes our developers do and push to the codeCommit repo we defined in the first part, be automatically built, tested, and prepared for a release to production.

The tool we are going to learn and use is AWS CodePipeline. AWS CodePipeline is a continuous integration and continuous delivery service for fast and reliable application and infrastructure updates. CodePipeline builds, tests, and deploys your code every time there is a code change, based on the release process models you define. This enables you to rapidly and reliably deliver features and updates.

Benefits

Rapid Delivery

AWS CodePipeline automates your software release process, allowing you to rapidly release new features to users. With CodePipeline, you can quickly iterate on feedback and get new features to customers faster.

Improved Quality

Automating your build, test, and release process allows you to easily test each code change and catch bugs while they are small and simple to fix. You can assure the quality of your application or infrastructure code by running each change through your standardized release process.

Configurable Workflow

AWS CodePipeline allows you to model the different stages of your software release process through a graphical user interface. You can specify the tests to run and the steps to deploy your application and its dependencies.

Get Started Fast

With AWS CodePipeline, you can immediately begin to model your software release process. There are no servers to provision or set up. CodePipeline is a fully managed continuous delivery service that connects to your existing tools and systems.

As usual we want our Codepipeline definition in a cloudformatino template, and thats what we are going to be making in the next video.