



Jenkins

Jenkins: Code Pipeline Overview

JENKINS : Code Pipeline

- Jenkins Code Pipeline uses **DSL**.
- **DSL** is scriptable via Groovy and so it is extremely flexible.
- **DSL** used to automate the Jenkins Job.
- Having the build and deployment **Pipeline as Code (PaC)** builds on the benefits of having **Everything as Code (EaC)**, e.g. immutable version control, audit trails, peer reviews, textual representation, and knowledge sharing.
- At a high level, a pipeline consists of **three parts**, namely:
 - Building and Testing the Artefact**
 - Assuring Quality**
 - Orchestrating Deployment to Production.**

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- **Building and Testing the Artefact:** This Include compiles the code, runs initial tests and outputs an artefact for storage in a repository.
- **Assuring Quality:** This part of the Pipeline may run additional processes across the codebase - think security, cyclomatic complexity, bug detection, code coverage metrics
- **Orchestrating Deployment to Production:** Means deploy Application on dev, staging, production. And quality assurance stage also runs against each of the environments as the deployment is orchestrated.

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the marker tip touching the paper. The background is plain white.

See you in next lecture ...