Jenkins: Code Pipeline Overview

➤ 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.

➤ **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.

See you in next lecture …