Jenkins, Part 6 of 7: DSL and Pipelines

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Meet the expert: Ricardo is a Red Hat certified engineer and systems administrator, cloud architect and linux specialist. He has taught students around the world and is passionate about process automation, and tools to make infrastructure as code to create efficient architecture solutions.

Prerequisites: Basic GNU/LINUX knowledge is nice to have, but not required.
A computer that supports Virtualization.
Internet connection
Basic Docker understanding is nice to have, but not required.

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Course description: Jenkins is open source automation software that helps automate software development with continuous integration and facilitating technical aspects of continuous delivery. This course covers using Jenkins Domain Specific Language or DSL which allows you to describe a job and then the scripting to create DSL jobs with Git, and deploy them. Next you'll be introduced to the steps necessary to build pipelines in Jenkins.

Course outline:

Intro DSL
- Introduction
- Intro DSL
- Install DSL
- Seed Job
- DSL Structure
- DSL Description
- DSL Parameters
- Summary

Source Code Management
- Introduction
- SCM
- Triggers
- Steps
- Mailer
- Summary

Ansible and Maven DSL
- Introduction
- Ansible DSL
- Maven DSL
- Summary

DSL Jobs
- Introduction
- Version DSL Git
- Create DSL Jobs With Git
- CI Concept
- Delivery Concept
- Deployment Concept
- Summary

Intro to Pipeline
- Introduction
- Intro Jenkinsfile
- Intro Pipeline
- Install Pipeline Plugin
- First Jenkinsfile
- Multiple Steps
- Summary

Pipeline Actions
- Introduction
- Retry Pipeline
- Timeout Pipeline
- Envs Pipeline
- Creds Pipeline
- Post Actions
- Summary