CI Workflow

Video 3.2

What you will learn in this video

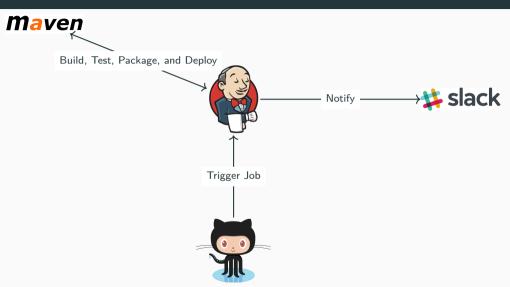
Theory:

- Define the CI workflow
- Familiarize with the Maven build tool

Practice:

- Start implementing a CI workflow
- Fork a GitHub repository, create a new Jenkins job, and build it via Maven

Continuous Integration Workflow



Prerequisites

- Install Maven
 - Within Jenkins in Manage Jenkins -> Global Tool Configuration -> Maven
 - At the OS level: https://maven.apache.org/install.html
- Open an account on GitHub: https://github.com/join

What is Maven?

- Popular cross-platform build tool, especially for Java projects
- Declarative dependency management
- Defined directory structure and build life cycle (compile, test, package, deploy, etc.)
- Convention over configuration (i.e. provides default values for project configuration)



Defined Directory Structure

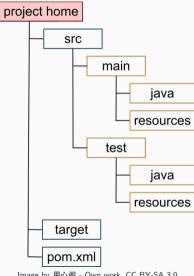
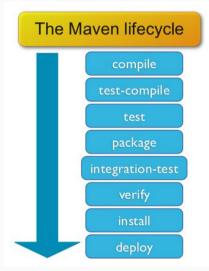
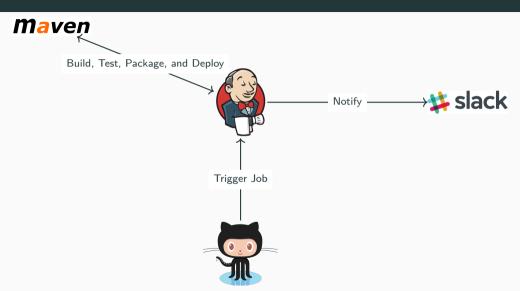


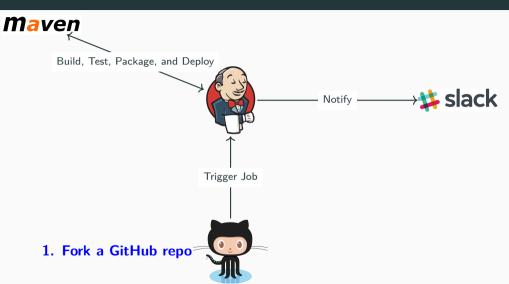
Image by 用心阁 - Own work, CC BY-SA 3.0

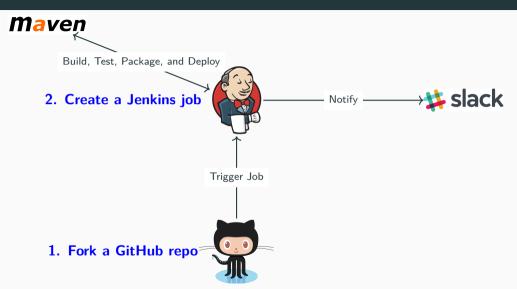
Default Build Life Cycle

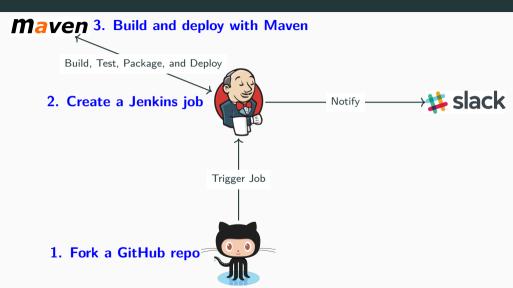


 $Image:\ https://automationtalks.com/2017/11/15/introduction-maven-maven-build-tool$









References

- GitHub repository at https://github.com/wakaleo/game-of-life
- Conway's Game of Life at https://en.wikipedia.org/wiki/Conway's_Game_of_Life
- Example taken from Jenkins: The Definitive Guide by John Ferguson Smart

Next Video

Video 3.3 Testing workflow

