Lab 1 - DevOps for Basic Environment provisioning

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DevOps Technical Workshop

Lab 1: DevOps for Basic Environment Provisioning

The purpose of this lab exercise is to provision our environment that will be used throughout the lab as well as our Jenkins server.

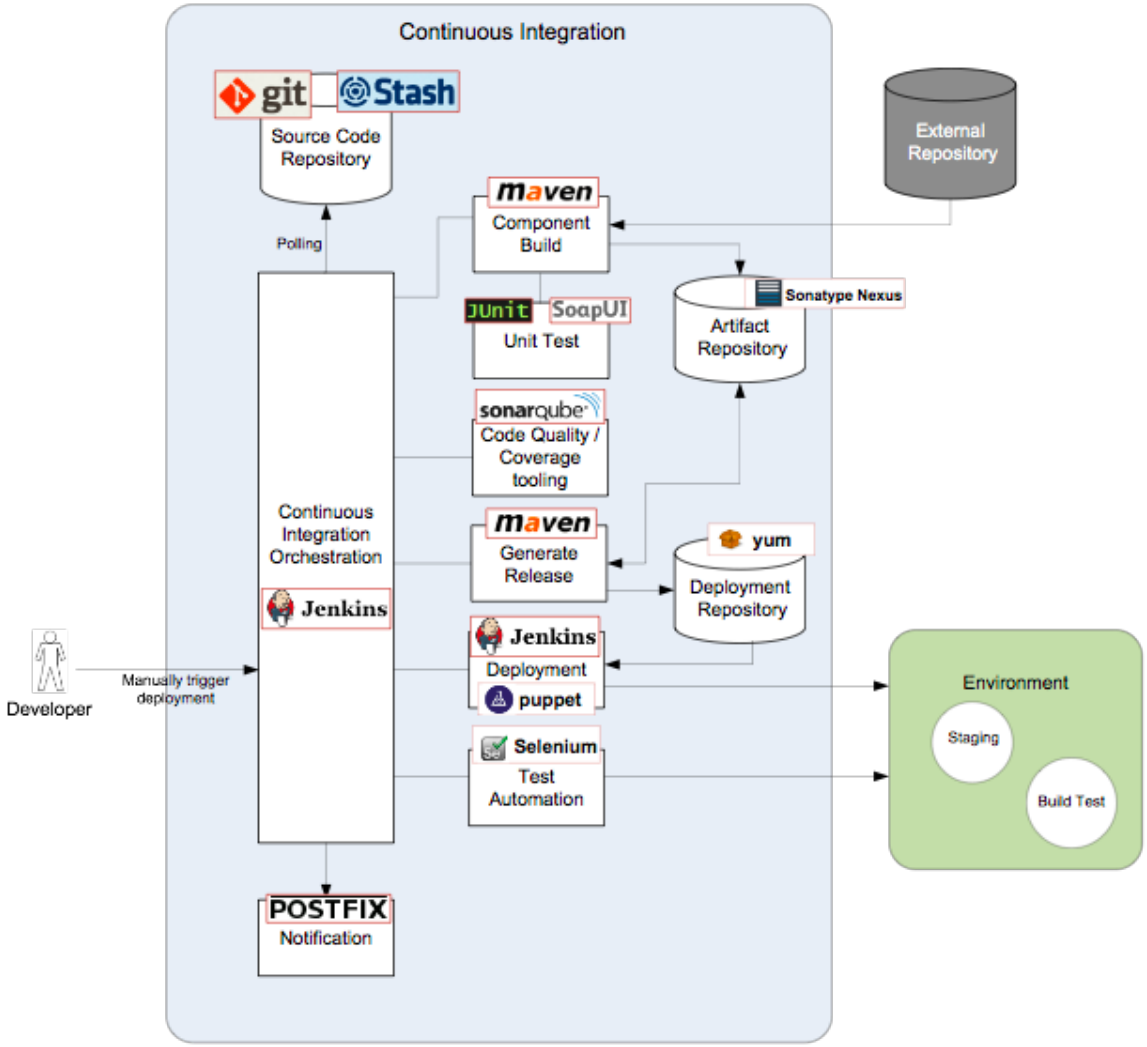
Step 1: Get the background on this lab exercise

Click here to view an Introduction for Lab 1. If you have any questions, you can post them in the forum that has been set up for this lab exercise by clicking here.

In this lab exercise, you will:

- Install Liberty Profile
- Install Jenkins
- Configure the Jenkins port
- Install Jenkins plugin
- Create first Jenkins job
- Apply puppet to create a Worklight server environment
- Create a useful Jenkins job

This lab will set you up nicely for the rest of the labs where you'll be putting continuous integration and continuous delivery practices into play. To understand why all of these things are necessary, please look at the diagram below, which shows a typical continuous delivery architecture. The collection of tooling below is now extremely common on Java-based software delivery projects employing these techniques, and you will get the opportunity to use most of them on this course.



As you can see, Jenkins is pretty central to this infrastructure, as it provides continuous integration and orchestrates the automated build, test, packaging of release; it can also be used to trigger jobs to provision infrastructure and execute non-functional checking like code quality/static code analysis. Jenkins is the system that kicks off all this work, reports feedback to the development teams using it, and is the brains to make decisions such as when to progress to the next stage of the DevOps pipeline based on the outcome/results of the last job.

For more detailed look at what will be covered by this Lab, view the LAB 1 presentation.

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