



Continuous Integration in Java

Abstract

Continuous Integration (CI) is an important part of any Agile methodology because it can help the developers discover their bugs sooner. Every project can benefit from Continuous Integration in greater productivity, early bug detection and better teamwork due to the immediate discovering of integration bugs.

CruiseControl is a popular CI framework. It enables you to create an automated build system. CruiseControl is an open-source, easy to use and mature solution. It contains a lot of built-in plugins that provides you with Source Control Management integration, mail notifications, unit-tests and many more useful features.

Target Audience

Java developers, team leaders and project managers.

Prerequisites

Familiarity with the Java language.

Content:

Introduction to Continuous Integration (2 hours):

- Motivation for Continuous Integration.
- Continuous Integration as part of Agile.

CruiseControl (4 hours):

- Introduction.
- Build Loop.
- Plugins (Ant, SCM, Testing, Reporting, Mail).
- Best practices for build management.

Code Analysis & Metrics (2 hours):

- Introduction.
- The Checkstyle framework.
- Checkstyle as part of Continuous Integration.

Duration: 1 days.