



# Jenkins Continuous Integration Cookbook

*Alan Berg*

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## **Jenkins Continuous Integration Cookbook** Alan Berg

Over 80 recipes to maintain, secure, communicate, test, build, and improve the software development process with Jenkins

### **Overview**

- Explore the use of more than 40 best of breed plugins
- Use code quality metrics, integration testing through functional and performance testing to measure the quality of your software
- Get a problem-solution approach enriched with code examples for practical and easy comprehension

### **In Detail**

Jenkins is a highly popular continuous integration server. Its correct use supports a quality software development process. Jenkins is great at finding issues in software early and communicating it to a wide audience. Jenkins is also easily extendable with a simple framework for writing plugins. Currently there are over 400 plugins available for inclusion.

Jenkins Continuous Integration Cookbook has over 80 recipes describing practical ways to use Jenkins and expanding its feature set by selective use of the best of breed plugins. Jenkins has a simple framework for writing plugins. There are over 400 plugins available. Therefore, it is easy to get lost in possibilities. Using practical recipes, this book will guide you through the complexities. The recipes are bundled into themes including security, maintainability, communication, building software, the valid use of code metrics, testing remotely, and writing your first plugin.

Jenkins Continuous Integration Cookbook includes problem solving and how to do recipes for many common and less common tasks. A wide range of topics are covered from integrating, securing, and maintaining Jenkins in your organization to writing your first extension.

The book begins with common maintenance tasks followed by securing Jenkins and enabling SSO. Then it explores the relationship between Jenkins builds and the Maven pom.xml. You will then learn ways to effectively communicate with various target audiences (developers, project managers, the public). You will then explore source code metrics with related recipes, and set up and run remote stress and functional tests. The book finally lists a series of 11 interesting plugins with a concluding recipe on how to create your first plugin.

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### **What you will learn from this book**

- Maintain and secure Jenkins
- Integrate Jenkins with LDAP and SSO solutions
- Run an integration server to fire automatic functional and performance tests
- Communicate through social media and plot custom data
- Skin Jenkins to your corporate look and feel
- Refine the use of code metrics to improve quality
- Write your first custom Jenkins plugin
- Apply several tweaks to optimize your use of Jenkins

## **Approach**

This book provides a problem-solution approach to some common tasks and some uncommon tasks using Jenkins and is well-illustrated with practical code examples.

## **Who this book is written for**

If you are a Java developer, software architect, technical project manager, build manager, or development or QA engineer, this book is for you. You should have a basic understanding of the Software Development Life Cycle and Java development, as well as a rudimentary understanding of Jenkins.

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