



# Jenkins Continuous Integration Cookbook - Second Edition

*By Alan Mark Berg*

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**Jenkins Continuous Integration Cookbook - Second Edition** By Alan Mark Berg

**Over 90 recipes to produce great results from Jenkins using pro-level practices, techniques, and solutions**

## About This Book

- Explore the use of more than 40 best-of-breed plug-ins for improving efficiency
- Secure and maintain Jenkins by integrating it with LDAP and CAS, which is a Single Sign-on solution
- Step-by-step, easy-to-use instructions to optimize the existing features of Jenkins using the complete set of plug-ins that Jenkins offers

## Who This Book Is For

If you are a Java developer, a software architect, a technical project manager, a build manager, or a development or QA engineer, then this book is ideal for you.

A basic understanding of the software development life cycle and Java development is needed, as well as a rudimentary understanding of Jenkins.

## What You Will Learn

- Integrate Jenkins with LDAP and SSO solutions
- Maintain and secure Jenkins
- Run an integration server firing automatic functional and performance tests
- Communicate through social media and by plotting 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 tweaks to optimize your use of Jenkins

## In Detail

Jenkins is an award-winning and one of the most popular Continuous Integration servers in the market today. It was designed to maintain, secure, communicate, test, build, and improve the software development process.

This book starts by examining the most common maintenance tasks. This is followed by steps that enable you to enhance the overall security of Jenkins. You will then explore the relationship between Jenkins builds and Maven pom.xml. Then, you will learn how to use plugins to display code metrics and fail builds to improve quality, followed by how to run performance and functional tests against a web application and web services. Finally, you will see what the available plugins are, concluding with best practices to improve quality.

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### **Editorial Review**

About the Author

#### **Alan Mark Berg**

Alan Mark Berg, BSc, MSc, PGCE, has been the lead developer at Central Computer Services at the University of Amsterdam since 1998. He is currently working in an Innovation Work Group that accelerates the creation of new and exciting services. In his famously scarce spare time, he writes. Alan has a bachelor's degree, two master's degrees, a teaching qualification, and quality assurance certifications. He has also coauthored two Packt Publishing books about Sakai (<http://sakaiproject.org>), a highly successful open source learning management platform used by millions of students around the world. He has won a couple of awards, including the Sakai Fellowship and Teaching With Sakai Innovation Award (TWSIA). Alan enjoys working with talent; this forces him to improve his own competencies. This motivation is why Alan enjoys working in energetic, open source communities of interest. At the time of writing, he is on the board of directors of the Apereo Foundation and is the community officer for its Learning Analytics Initiative (<https://confluence.sakaiproject.org/display/LAI/Learning+Analytics+Initiative>). In previous incarnations, Alan was a QA director, a technical writer, an Internet/Linux course writer, a product line development officer, and a teacher. He likes to get his hands dirty with building, gluing systems, exploring data, and turning it into actionable information. He remains agile by ruining various development and acceptance environments and generally rampaging through the green fields of technological opportunity.

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