Mastering Jenkins

By Jonathan McAllister

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Configure and extend Jenkins to architect, build, and automate efficient software delivery pipelines

About This Book

- Configure and horizontally scale a Jenkins installation to support a development organization of any size
- Implement Continuous Integration, Continuous Delivery, and Continuous Deployment solutions in Jenkins
- A step-by-step guide to help you get the most out of the powerful automation orchestration platform that is Jenkins

Who This Book Is For

If you are a novice or intermediate-level Jenkins user who has used Jenkins before but are not familiar with architecting solutions and implementing it in your organization, then this is the book for you. A basic understanding of the core elements of Jenkins is required to make the best use of this book.

What You Will Learn

- Create and manage various types of build jobs, and implement automation tasks to support a software project of any kind
- Get to grips with the automated testing architecture, and scalable automated testing techniques
- Facilitate the delivery of software across the SDLC by creating scalable automated deployment solutions
- Manage scalable automation pipelines in Jenkins using the latest build, test, and deployment strategies
- Implement a scalable master / slave build automation platform, which can support Windows, Mac OSX, and Linux software solutions
- Cover troubleshooting and advanced configuration techniques for Jenkins slave nodes
- Support a robust build and delivery system by implementing basic

infrastructure as code solutions in configuration management tools such as Ansible

In Detail

With the software industry becoming more and more competitive, organizations are now integrating delivery automation and automated quality assurance practices into their business model. Jenkins represents a complete automation orchestration system, and can help converge once segregated groups into a cohesive product development and delivery team. By mastering the Jenkins platform and learning to architect and implement Continuous Integration, Continuous Delivery, and Continuous Deployment solutions, your organization can learn to outmanoeuvre and outpace the competition.

This book will equip you with the best practices to implement advanced continuous delivery and deployment systems in Jenkins. The book begins with giving you high-level architectural fundamentals surrounding Jenkins and Continuous Integration. You will cover the different installation scenarios for Jenkins, and see how to install it as a service, as well as the advanced XML configurations. Then, you will proceed to learn more about the architecture and implementation of the Jenkins Master/Save node system, followed by creating and managing Jenkins build jobs effectively. Furthermore, you'll explore Jenkins as an automation orchestration system, followed by implementing advanced automated testing techniques. The final chapters describe in depth the common integrations to Jenkins from third-party tools such as Jira, Artifactory, Amazon EC2, and getting the most out of the Jenkins REST-based API.

By the end of this book, you will have all the knowledge necessary to be the definitive resource for managing and implementing advanced Jenkins automation solutions for your organization.

Style and approach

This book is a step-by-step guide to architecting and implementing automated build solutions, automated testing practices, and automated delivery methodologies. The topics covered are based on industry-proven techniques, and are explained in a simple and easy to understand manner.

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Mastering Jenkins By Jonathan McAllister Bibliography

- Rank: #932923 in eBooks
- Published on: 2015-10-27
- Released on: 2015-10-27
- Format: Kindle eBook

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Editorial Review

About the Author

Jonathan McAllister

Jonathan McAllister has been creating software and automation since he was a child. However professionally he leverages 10 years of experience in software development, test, and delivery practices. During his career, he has architected and implemented software build, test, and delivery solutions for cutting-edge technology organizations across diverse technology stacks. Jonathon has most recently been focusing on build pipelines, continuous integration, continuous delivery, microservice architecture, process, and the implementation of highly scalable automation solutions for some of the industry's most notable companies, including Microsoft, Merck, and Logitech. His focus is entirely on designing scalable software build, delivery, and test pipelines in an effort to streamline releases through standardization and help develop strategies that can elevate revenue through modern continuous practices. As a successful entrepreneur, writer, and business consultant, Jonathan has had the unique opportunity to oversee and implement efficient delivery pipelines at organizations of varying technologies, stacks, and cultures.

Users Review

From reader reviews:

Lydia Sanders:

Hey guys, do you desires to finds a new book to see? May be the book with the subject Mastering Jenkins suitable to you? The particular book was written by popular writer in this era. The actual book untitled Mastering Jenkinsis the main one of several books which everyone read now. This book was inspired a number of people in the world. When you read this book you will enter the new dimension that you ever know before. The author explained their thought in the simple way, consequently all of people can easily to understand the core of this reserve. This book will give you a wide range of information about this world now. So you can see the represented of the world on this book.

Jimmy Putnam:

Typically the book Mastering Jenkins has a lot info on it. So when you make sure to read this book you can get a lot of advantage. The book was authored by the very famous author. Mcdougal makes some research prior to write this book. That book very easy to read you may get the point easily after looking over this book.

John Street:

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books in the top list in your reading list is Mastering Jenkins. This book that is qualified as The Hungry Hillsides can get you closer in growing to be precious person. By looking way up and review this guide you can get many advantages.

Walter Blankenship:

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