Continuous Delivery Reliably Releases Through Build Test And Deployment Automation

About This Book
Hands on Jenkins
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Continuous Delivery

Web Operations Unlocks the combination of Docker and Jenkins in order to enhance the DevOps workflow. About This Book This book equips you with the knowledge and skills to use Docker and Jenkins effectively in your DevOps environment. It covers the integration of Docker with Jenkins to automate the deployment process, including building, testing, and deploying applications. You will learn how to leverage Docker as a containerization platform and Jenkins as a continuous integration and delivery tool. The book is structured to take you through the following key areas:

- Understanding the principles of continuous delivery and its benefits
- Setting up a Docker-powered development environment
- Automating the build and deployment process using Docker and Jenkins
- Integrating Docker with Jenkins to create a streamlined CI/CD pipeline
- Testing and deploying applications using Docker and Jenkins

Who is this book for?
This book is aimed at software developers, IT professionals, and DevOps engineers who want to improve their delivery capabilities by using Docker and Jenkins in their workflow. It is particularly suitable for those who are interested in automating the deployment process and integrating Docker with Jenkins for more efficient software delivery.

What you will learn
By the end of this book, you will be able to:
- Understand the concept of continuous delivery and its importance
- Set up a Docker-powered development environment
- Automate the build and deployment process using Docker and Jenkins
- Integrate Docker with Jenkins to create a streamlined CI/CD pipeline
- Test and deploy applications using Docker and Jenkins

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Continuous Delivery

Continuous Delivery is the process of delivering software updates with greater speed, quality, and reliability. It involves automating the testing, building, and deployment of software updates, ensuring that they are released to production environments quickly and efficiently.

- Continuous Delivery helps in reducing the time to market by allowing teams to deliver software updates at a faster pace.
- It enhances collaboration among developers, QA, and IT teams, leading to more efficient and effective processes.
- Continuous Delivery improves the quality of software updates by automating testing and ensuring that they meet the necessary standards before being released.
- It reduces the risk of errors and failures in production by detecting and fixing issues early in the development cycle.
Continuous Delivery Learn how to use GitOps to automate manual tasks in the continuous delivery and deployment process. Key features: Explore the different GitOps, principles of thought and understanding which GitOps practices work well for you and your team Get up and running with the fundamentals of GitOps Implementation Understand how to effectively automate the delivery and deployment process Book description: The world of software delivery has come a long way in the last five decades. From waterfall methods to Agile practices, every company that develops software has to overcome various challenges in delivery and deployment to meet customer and market demands. The right book will guide you to the industry practices that will help you streamline the software release process from quarterly deployments to continuous delivery using GitOps. With the help of hands-on tutorials, projects, and self-assessment questions, you'll build your knowledge of GitOps basics, different types of GitOps, and best practices to implement them from building delivery pipelines to managing cloud native systems. By the end of this book, you'll be well-versed with the fundamentals of delivery and deployment, the different schools of GitOps, and how to best leverage GitOps in your teams. What you will learn: Explore a variety of continuous delivery and deployment methods through hands-on labs using GitOps and Kubernetes Get an understanding of GitOps principles, including GitOps concepts and the industrial experiences of the authors in applying novel software delivery approaches to the enterprise level and achieve greater efficiency in your delivery and deployment process. The 17 chapters present the Stairway to Heaven model, which represents the typical evolution path companies move through as they develop and adopt GitOps. This book is the result of an initiative to influence continuous delivery and deployment practices. The team behind the project is comprised of experts from the fields of software delivery, and is led by two of the world's most experienced software project leaders, this book demonstrates how to dramatically increase speed while reducing risk and improving code quality at the same time. The authors cover all facets of build, testing, and deployment, including configuration management, release control, deployment planning, testing, deployment, and operational resilience. They introduce a wide range of advanced technologies, including container orchestration and deployment, and provide a broader architectural perspective, taking architectural concerns into account when deploying agile or continuous delivery approaches. The authors explain how to solve the challenges of implementing continuous delivery and deployment through hands-on labs, tutorials, and case studies. They provide practical guidance on how to streamline your delivery and deployment processes, improve collaboration between developers, and reduce the risks associated with deploying software. The book covers a range of topics, including continuous integration, testing, acceptance testing, and monitoring. It provides clear and concise insights into what CD and DevOps are all about, how to go about preparing for and adopting them, and what value you can expect from them. The book also includes a rich collection of examples to help you understand what the adoption of CD and DevOps entails. It provides clear and concise insights in to what CD and DevOps are all about, how to go about preparing for and adopting them, and what value you can expect from them. The book also includes a rich collection of examples to help you understand what the adoption of CD and DevOps entails. It provides clear and concise insights in to what CD and DevOps are all about, how to go about preparing for and adopting them, and what value you can expect from them. The book also includes a rich collection of examples to help you understand what the adoption of CD and DevOps entail.