
Learning Continuous Integration With Jenkins

A Beginner's Guide to Implement CI/CD Pipelines for Mobile, Hybrid, and Web Applications Using Jenkins (English Edition)

Learn about the Technology and Processes that Speed-up Quality Assured Software Development

Reliable Software Releases through Build, Test, and Deployment Automation (Adobe Reader)

Pipeline as Code

Jenkins: The Definitive Guide

Continuous Delivery

Learn Ruthlessly Effective Automation

Build-Deploy-Test Automation for Android Mobile Apps

Continuous Integration (CI) with Jenkins

Uncovering the Logic of English: A Common-Sense Solution to America's Literacy Crisis

The DevOps 2.0 Toolkit

Continuous Integration, Delivery, and Deployment

Hands-On Continuous Integration and Delivery

Learning Continuous Integration with Jenkins 2.X- Second Edition

Jenkins 2.x Continuous Integration Cookbook

Evolve Your Deployment Pipeline for Next Generation Automation

Learn to Automate the Deployment of Web Applications to an Application Server Using Jenkins and Apache Tomcat

Apply Lean Frameworks to the Process of Game Development

Gradle in Action

A beginner's guide to implementing Continuous Integration and Continuous Delivery using Jenkins 2, 2nd Edition

Continuous Delivery with Jenkins, Kubernetes, and Terraform

Machine Learning for Predictive Analysis

The complete guide to accelerate collaboration with Jenkins, Kubernetes, Terraform and Azure DevOps

CI/CD Implementation for Mobile, Web, and Hybrid Applications Using Declarative Pipeline in Jenkins (English Edition)

A Concise Guide with Examples

Continuous Delivery with Docker and Jenkins

Install, Manage, and Scale a CI/CD Build and Release System to Accelerate Your Product Life Cycle
DevOps with OpenShift
Application Performance Management in the Cloud
Build and Release Quality Software at Scale with Jenkins, Travis CI, and CircleCI
How to Create World-Class Agility, Reliability, and Security in Technology Organizations
Learning Continuous Integration with Jenkins
Build and release quality software at scale with Jenkins, Travis CI, and CircleCI
Extending Jenkins
Learning Continuous Integration with Jenkins
Integrating PHP Projects with Jenkins
Lean Game Development
Continuous Integration for the Masses
Effective Jenkins

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LAYLAH RANDOLPH

[A Beginner's Guide to Implement CI/CD Pipelines for Mobile, Hybrid, and Web Applications Using Jenkins \(English Edition\)](#)
"O'Reilly Media, Inc."

A beginner's guide to implementing Continuous Integration and Continuous Delivery using Jenkins About This Book Speed up and increase software productivity and software delivery using Jenkins Automate your build, integration, release, and deployment processes with

Jenkins—and learn how continuous integration (CI) can save you time and money Explore the power of continuous delivery using Jenkins through powerful real-life examples Who This Book Is For This book is for anyone who wants to exploit the power of Jenkins. This book serves a great starting point for those who are in the field DevOps and would like to leverage the benefits of CI and continuous delivery in order to increase productivity and reduce delivery time. What You Will Learn Take advantage of a continuous delivery solution to achieve faster software delivery Speed up

productivity using a continuous Integration solution through Jenkins Understand the concepts of CI and continuous delivery Orchestrate many DevOps tools using Jenkins to automate builds, releases, deployment, and testing Explore the various features of Jenkins that make DevOps activities a piece of cake Configure multiple build machines in Jenkins to maintain load balancing Manage users, projects, and permissions in Jenkins to ensure better security Leverage the power of plugins in Jenkins In Detail In past few years, Agile software development has seen tremendous growth across the world.

There is huge demand for software delivery solutions that are fast yet flexible to frequent amendments. As a result, CI and continuous delivery methodologies are gaining popularity. Jenkins' core functionality and flexibility allows it to fit in a variety of environments and can help streamline the development process for all stakeholders. This book starts off by explaining the concepts of CI and its significance in the Agile world with a whole chapter dedicated to it. Next, you'll learn to configure and set up Jenkins. You'll gain a foothold in implementing CI and continuous delivery methods. We dive into the various features offered by Jenkins one by one exploiting them for CI. After that, you'll find out how to use the built-in pipeline feature of Jenkins. You'll see how to integrate Jenkins with code analysis tools and test automation tools in order to achieve continuous delivery. Next, you'll be introduced to continuous deployment and learn to achieve it using Jenkins. Through this book's wealth of best practices and real-world tips, you'll discover how easy it is to implement a CI service with Jenkins. Style and approach This is a step-by-step guide to setting up a

CI and continuous delivery system loaded with hands-on examples
Learn about the Technology and Processes that Speed-up Quality Assured Software Development BPB Publications
"English is so illogical!" It is generally believed that English is a language of exceptions. For many, learning to spell and read is frustrating. For some, it is impossible... especially for the 29% of Americans who are functionally illiterate. But what if the problem is not the language itself, but the rules we were taught? What if we could see the complexity of English as a powerful tool rather than a hindrance? --Denise Eide
Uncovering the Logic of English challenges the notion that English is illogical by systematically explaining English spelling and answering questions like "Why is there a silent final E in have, large, and house?" and "Why is discussion spelled with -sion rather than -tion?" With easy-to-read examples and anecdotes, this book describes: - the phonograms and spelling rules which explain 98% of English words - how English words are formed and how this knowledge can revolutionize vocabulary development - how

understanding the reasons behind English spelling prevents students from needing to guess The author's inspiring commentary makes a compelling case that understanding the logic of English could transform literacy education and help solve America's literacy crisis. Thorough and filled with the latest linguistic and reading research, Uncovering the Logic of English demonstrates why this systematic approach should be as foundational to our education as $1+1=2$.

Reliable Software Releases through Build, Test, and Deployment Automation (Adobe Reader) BPB Publications

Learning Continuous Integration with Jenkins 2.X- Second Edition
Pipeline as Code "O'Reilly Media, Inc."
Speed up the software delivery process and software productivity using the latest features of Jenkins Key Features Take advantage of a Continuous Integration and Continuous Delivery solution to speed up productivity and achieve faster software delivery See all the new features introduced in Jenkins 2.x, such as Pipeline as code, Multibranch pipeline, Docker Plugin, and more Learn to implement

Continuous Integration and Continuous Delivery by orchestrating multiple DevOps tools using Jenkins Book Description In past few years, agile software development has seen tremendous growth. There is a huge demand for software delivery solutions that are fast yet flexible to numerous amendments. As a result, Continuous Integration (CI) and Continuous Delivery (CD) methodologies are gaining popularity. This book starts off by explaining the concepts of CI and its significance in the Agile. Next, you'll learn how to configure and set up Jenkins in many different ways. The book exploits the concept of "pipeline as code" and various other features introduced in the Jenkins 2.x release to their full potential. We also talk in detail about the new Jenkins Blue Ocean interface and the features that help to quickly and easily create a CI pipeline. Then we dive into the various features offered by Jenkins one by one, exploiting them for CI and CD. Jenkins' core functionality and flexibility allows it to fit in a variety of environments and can help streamline the development process for all stakeholders. Next, you'll be introduced to CD and will learn how to

achieve it using Jenkins. Through this book's wealth of best practices and real-world tips, you'll discover how easy it is to implement CI and CD using Jenkins. What you will learn Get to know some of the most popular ways to set up Jenkins See all the new features introduced in the latest Jenkins, such as pipeline as code, Multibranch pipeline, and more Manage users, projects, and permissions in Jenkins to ensure better security Leverage the power of plugins in Jenkins Learn how to create a CI pipeline using Jenkins Blue Ocean Create a distributed build farm using Docker and use it with Jenkins Implement CI and CD using Jenkins See the difference between CD and Continuous Deployment Understand the concepts of CI Who this book is for The book is for those with little or no previous experience with Agile or CI and CD. It's a good starting point for anyone new to this field who wants to leverage the benefits of CI and CD to increase productivity and reduce delivery time. It's ideal for Build and Release engineers, DevOps engineers, SCM (Software Configuration Management) engineers, developers, testers, and project managers. If you're

already using Jenkins for CI, you can take your project to the next level—CD.

Jenkins: The Definitive Guide "O'Reilly Media, Inc."

Winner of the 2011 Jolt Excellence Award! Getting software released to users is often a painful, risky, and time-consuming process. This groundbreaking new book sets out the principles and technical practices that enable rapid, incremental delivery of high quality, valuable new functionality to users. Through automation of the build, deployment, and testing process, and improved collaboration between developers, testers, and operations, delivery teams can get changes released in a matter of hours—sometimes even minutes—no matter what the size of a project or the complexity of its code base. Jez Humble and David Farley begin by presenting the foundations of a rapid, reliable, low-risk delivery process. Next, they introduce the “deployment pipeline,” an automated process for managing all changes, from check-in to release. Finally, they discuss the “ecosystem” needed to support continuous delivery, from infrastructure, data and configuration management to

governance. The authors introduce state-of-the-art techniques, including automated infrastructure management and data migration, and the use of virtualization. For each, they review key issues, identify best practices, and demonstrate how to mitigate risks. Coverage includes

- Automating all facets of building, integrating, testing, and deploying software
- Implementing deployment pipelines at team and organizational levels
- Improving collaboration between developers, testers, and operations
- Developing features incrementally on large and distributed teams
- Implementing an effective configuration management strategy
- Automating acceptance testing, from analysis to implementation
- Testing capacity and other non-functional requirements
- Implementing continuous deployment and zero-downtime releases
- Managing infrastructure, data, components and dependencies
- Navigating risk management, compliance, and auditing

Whether you're a developer, systems administrator, tester, or manager, this book will help your organization move from idea to release faster than ever—so

you can deliver value to your business rapidly and reliably.

Continuous Delivery Packt Publishing
Get a complete walkthrough of the many interfaces available in Jenkins with the help of real-world examples to take you to the next level with Jenkins
About This Book
Find out how to interact with Jenkins from within Eclipse, NetBeans, and IntelliJ
IDEA
Develop custom solutions that act upon Jenkins information in real time
A step-by-step, practical guide to help you learn about extension points in existing plugins and how to build your own plugin
Who This Book Is For
This book is aimed primarily at developers and administrators who are interested in taking their interaction and usage of Jenkins to the next level. The book assumes you have a working knowledge of Jenkins and programming in general, and an interest in learning about the different approaches to customizing and extending Jenkins so it fits your requirements and your environment perfectly.
What You Will Learn
Retrieve and act upon Jenkins information in real time
Find out how to interact with Jenkins through a variety of IDEs
Develop your own Form and Input validation and

customization
Explore how Extension points work, and develop your own Jenkins plugin
See how to use the Jenkins API and command-line interface
Get to know how to remotely update your Jenkins configuration
Design and develop your own Information Radiator
Discover how Jenkins customization can help improve quality and reduce costs
In Detail
Jenkins CI is the leading open source continuous integration server. It is written in Java and has a wealth of plugins to support the building and testing of virtually any project. Jenkins supports multiple Software Configuration Management tools such as Git, Subversion, and Mercurial. This book explores and explains the many extension points and customizations that Jenkins offers its users, and teaches you how to develop your own Jenkins extensions and plugins. First, you will learn how to adapt Jenkins and leverage its abilities to empower DevOps, Continuous Integration, Continuous Deployment, and Agile projects. Next, you will find out how to reduce the cost of modern software development, increase the quality of deliveries, and thereby reduce the time to market. We will also teach you how to

create your own custom plugins using Extension points. Finally, we will show you how to combine everything you learned over the course of the book into one real-world scenario. Style and approach
 Extending Jenkins explores and explains advanced Jenkins functionality from a practical point of view, teaching you real-world skills that will help you get more from this powerful software. Each key topic is explained clearly with a practical example, and in sufficient detail so you understand the concepts and can then develop your own solutions using your preferred software and languages.

Learn Ruthlessly Effective Automation
 Packt Publishing Ltd

Most web applications are changed and adapted quite frequently and quickly. Their environment, for example the size and the behavior of the user base, are constantly changing. What was sufficient yesterday can be insufficient today. Especially in a web environment it is important to monitor and continuously improve the internal quality not only when developing, but also when maintaining the software. Jenkins is the leading open-source continuous integration server.

Thanks to its thriving plugin ecosystem, it supports building and testing virtually any project. This book explains how you can leverage Jenkins to monitor the various aspects of software quality in a PHP software project.

[Build-Deploy-Test Automation for Android Mobile Apps](#) Pearson Education

Getting started with the processes and the tools to continuously deliver high-quality software About This Book Incorporate popular development practices to prevent messy code Automate your build, integration, release, and deployment processes with Jenkins, Git, and Gulp?and learn how continuous integration (CI) can save you time and money Gain an end-to-end overview of Continuous Integration using different languages (JavaScript and C#) and tools (Gulp and Jenkins) Who This Book Is For This book is for developers who want to understand and implement Continuous Integration and Delivery in their daily work. A basic knowledge of at least JavaScript and HTML/CSS is required. Knowing C# and SQL will come in handy. Most programmers who have programmed in a (compiled) C-like language will be able to follow along. What You Will Learn Get to

know all the aspects of Continuous Integration, Deployment, and Delivery Find out how Git can be used in a CI environment Set up browser tests using Karma and Selenium and unit tests using Jasmine Use Node.js, npm, and Gulp to automate tasks such as linting, testing, and minification Explore different Jenkins jobs to integrate with Node.js and C# projects Perform Continuous Delivery and Deployment using Jenkins Test and deliver a web API In Detail The challenge faced by many teams while implementing Continuous Deployment is that it requires the use of many tools and processes that all work together. Learning and implementing all these tools (correctly) takes a lot of time and effort, leading people to wonder whether it's really worth it. This book sets up a project to show you the different steps, processes, and tools in Continuous Deployment and the actual problems they solve. We start by introducing Continuous Integration (CI), deployment, and delivery as well as providing an overview of the tools used in CI. You'll then create a web app and see how Git can be used in a CI environment. Moving on, you'll explore unit testing using

Jasmine and browser testing using Karma and Selenium for your app. You'll also find out how to automate tasks using Gulp and Jenkins. Next, you'll get acquainted with database integration for different platforms, such as MongoDB and PostgreSQL. Finally, you'll set up different Jenkins jobs to integrate with Node.js and C# projects, and Jenkins pipelines to make branching easier. By the end of the book, you'll have implemented Continuous Delivery and deployment from scratch. Style and approach This practical book takes a step-by-step approach to explaining all the concepts of Continuous Integration and delivery, and how it can help you deliver a high-quality product. *Continuous Integration (CI) with Jenkins* Apress

Increase profitability, elevate work culture, and exceed productivity goals through DevOps practices. More than ever, the effective management of technology is critical for business competitiveness. For decades, technology leaders have struggled to balance agility, reliability, and security. The consequences of failure have never been greater—whether it's the healthcare.gov debacle, cardholder data

breaches, or missing the boat with Big Data in the cloud. And yet, high performers using DevOps principles, such as Google, Amazon, Facebook, Etsy, and Netflix, are routinely and reliably deploying code into production hundreds, or even thousands, of times per day. Following in the footsteps of *The Phoenix Project*, *The DevOps Handbook* shows leaders how to replicate these incredible outcomes, by showing how to integrate Product Management, Development, QA, IT Operations, and Information Security to elevate your company and win in the marketplace.

Uncovering the Logic of English: A Common-Sense Solution to America's Literacy Crisis Logic of English, Inc Simplify your DevOps roles with DevOps tools and techniques Key Features Learn to utilize business resources effectively to increase productivity and collaboration Leverage the ultimate open source DevOps tools to achieve continuous integration and continuous delivery (CI/CD) Ensure faster time-to-market by reducing overall lead time and deployment downtime Book Description The implementation of DevOps processes

requires the efficient use of various tools, and the choice of these tools is crucial for the sustainability of projects and collaboration between development (Dev) and operations (Ops). This book presents the different patterns and tools that you can use to provision and configure an infrastructure in the cloud. You'll begin by understanding DevOps culture, the application of DevOps in cloud infrastructure, provisioning with Terraform, configuration with Ansible, and image building with Packer. You'll then be taken through source code versioning with Git and the construction of a DevOps CI/CD pipeline using Jenkins, GitLab CI, and Azure Pipelines. This DevOps handbook will also guide you in containerizing and deploying your applications with Docker and Kubernetes. You'll learn how to reduce deployment downtime with blue-green deployment and the feature flags technique, and study DevOps practices for open source projects. Finally, you'll grasp some best practices for reducing the overall application lead time to ensure faster time to market. By the end of this book, you'll have built a solid foundation in DevOps, and developed

the skills necessary to enhance a traditional software delivery process using modern software delivery tools and techniques. What you will learn: Become well versed with DevOps culture and its practices. Use Terraform and Packer for cloud infrastructure provisioning. Implement Ansible for infrastructure configuration. Use basic Git commands and understand the Git flow process. Build a DevOps pipeline with Jenkins, Azure Pipelines, and GitLab CI. Containerize your applications with Docker and Kubernetes. Check application quality with SonarQube and Postman. Protect DevOps processes and applications using DevSecOps tools. Who this book is for: If you are a developer or a system administrator interested in understanding continuous integration, continuous delivery, and containerization with DevOps tools and techniques, this book is for you.

The DevOps 2.0 Toolkit Packt Publishing Ltd

Create a complete Continuous Delivery process using modern DevOps tools such as Docker, Kubernetes, Jenkins, Docker Hub, Ansible, GitHub and many more. Key Features: Build reliable and secure

applications using Docker containers. Create a highly available environment to scale a Docker servers using Kubernetes. Implement advance continuous delivery process by parallelizing the pipeline tasks. Book Description: Continuous Delivery with Docker and Jenkins, Second Edition will explain the advantages of combining Jenkins and Docker to improve the continuous integration and delivery process of an app development. It will start with setting up a Docker server and configuring Jenkins on it. It will then provide steps to build applications on Docker files and integrate them with Jenkins using continuous delivery processes such as continuous integration, automated acceptance testing, and configuration management. Moving on, you will learn how to ensure quick application deployment with Docker containers along with scaling Jenkins using Kubernetes. Next, you will get to know how to deploy applications using Docker images and testing them with Jenkins. Towards the end, the book will touch base with missing parts of the CD pipeline, which are the environments and infrastructure, application versioning, and

nonfunctional testing. By the end of the book, you will be enhancing the DevOps workflow by integrating the functionalities of Docker and Jenkins. What you will learn: Get to grips with docker fundamentals and how to dockerize an application for the CD process. Learn how to use Jenkins on the Cloud environments. Scale a pool of Docker servers using Kubernetes. Create multi-container applications using Docker Compose. Write acceptance tests using Cucumber and run them in the Docker ecosystem using Jenkins. Publish a built Docker image to a Docker Registry and deploy cycles of Jenkins pipelines using community best practices. Who this book is for: The book targets DevOps engineers, system administrators, docker professionals or any stakeholders who would like to explore the power of working with Docker and Jenkins together. No prior knowledge of DevOps is required for this book.

Continuous Integration, Delivery, and Deployment "O'Reilly Media, Inc."

Understand various tools and practices for building a continuous integration and delivery pipeline effectively. Key Features: Get up and running with the patterns of

continuous integration Learn Jenkins UI for developing plugins and build an effective Jenkins pipeline Automate CI/CD with command-line tools and scripts Book Description Hands-On Continuous Integration and Delivery starts with the fundamentals of continuous integration (CI) and continuous delivery (CD) and where it fits in the DevOps ecosystem. You will explore the importance of stakeholder collaboration as part of CI/CD. As you make your way through the chapters, you will get to grips with Jenkins UI, and learn to install Jenkins on different platforms, add plugins, and write freestyle scripts. Next, you will gain hands-on experience of developing plugins with Jenkins UI, building the Jenkins 2.0 pipeline, and performing Docker integration. In the concluding chapters, you will install Travis CI and Circle CI and carry out scripting, logging, and debugging, helping you to acquire a broad knowledge of CI/CD with Travis CI and CircleCI. By the end of this book, you will have a detailed understanding of best practices for CI/CD systems and be able to implement them with confidence. What you will learn Install Jenkins on multiple operating systems

Work with Jenkins freestyle scripts, pipeline syntax, and methodology Explore Travis CI build life cycle events and multiple build languages Master the Travis CI CLI (command-line interface) and automate tasks with the CLI Use CircleCI CLI jobs and work with pipelines Automate tasks using CircleCI CLI and learn to debug and troubleshoot Learn open source tooling such as Git and GitHub Install Docker and learn concepts in shell scripting Who this book is for Hands-On Continuous Integration and Delivery is for system administrators, DevOps engineers, and build and release engineers who want to understand the concept of CI and gain hands-on experience working with prominent tools in the CI ecosystem. Basic knowledge of software delivery is an added advantage.

Hands-On Continuous Integration and Delivery O'Reilly Media

This book gathers papers addressing state-of-the-art research in the areas of machine learning and predictive analysis, presented virtually at the Fourth International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2020), India. It

covers topics such as intelligent agent and multi-agent systems in various domains, machine learning, intelligent information retrieval and business intelligence, intelligent information system development using design science principles, intelligent web mining and knowledge discovery systems.

Learning Continuous Integration with Jenkins 2.X- Second Edition IT Revolution

Master continuous integration, deployment and automated testing for Android apps. You'll see how to set up and tear down sandbox environments to test the end-user experience, where you'll learn how to manage a mobile device in addition to the build machine. Android Continuous Integration applies a real-world CI pattern that has been thoroughly tested and implemented. This book starts with continuous integration concepts and the tools and code needed to become proficient in continuous integration for Android apps. You'll also follow acceptance test driven development (ATDD) best practice, giving you all the skills you need to become a better, more effective developer. Finally, you'll learn about the

Appium mobile automation library and the Jenkins continuous integration tool. What You Will Learn Understand how to build an Android mobile app from source Set up a development or debugging environment for mobile apps Integrate with the Nexus dependency management and application release tool Work with the SonarQube code quality analyzer Use debugging tools in Android Who This Book Is For Product owners/business analysts, QA/test engineers, developers and build/deploy engineers.

Jenkins 2.x Continuous Integration

Cookbook Simon and Schuster

5+ Hours of Video Instruction As all companies become software companies, the reliability of software becomes an integral part of a business' success. Continuous testing is critical for delivering robust software and increasing reliability and confidence when software is released. Without constant validation, failure is imminent. Continuous integration allows developers to automate the debugging of new code as it is integrated and identify problems early in the release process. Jenkins is a widely used CI/CD platform, but the lack of a thorough understanding

of best practices and scalability is pervasive. It is easy to install Jenkins, but it is difficult to get it right. This course walks you through industry standard best practices to deploy and maintain continuous testing with Jenkins. In this course, you learn how to deploy and configure a Jenkins instance with a real-world use case scenario. Description Cloud technology advancement has changed the face of the tech world, with more emphasis on continuous integration and delivery. Learn how to deploy, configure, and take advantage of Jenkins for Continuous Integration and Continuous Delivery (CI/CD) and pipeline-like workflows. This LiveLesson walks you through the industry standard best practices of deploying Jenkins in a continuous testing environment. Learn to create fully functional Jenkins servers based on Infrastructure as Code (IaC) as well as deploy Jenkins in both AWS and Google Cloud. Learn the advanced features of Jenkins, including the Jenkins Job Builder. Finally, learn several real-world Jenkins deployment case studies. The associated code can be accessed at: <https://github.com/alfredodeza/static> and

<https://github.com/alfredodeza/pipeline-jobs> About the Instructor Noah Gift is a lecturer at UC Davis Graduate School of Management MSBA program, the Graduate Data Science program, MSDS, at Northwestern, the Data Science program at UC Berkeley, and the USF Health Informatics program. He is teaching and designing graduate Machine Learning, AI, Data Science courses, and consulting on Machine Learning and Cloud Architecture for students and faculty. These responsibilities include leading a multi-cloud certification initiative for students. Noah is also a Python Software Foundation Fellow, AWS Subject Matter Expert (SME) on Machine Learning, AWS Certified Solutions Architect and AWS Academy Accredited Instructor, Google Certified Professional Cloud Architect, and Microsoft MT...

[Evolve Your Deployment Pipeline for Next Generation Automation](#) Packt Publishing Ltd

A step-by-step guide to implementing Continuous Integration and Continuous Delivery (CICD) for Mobile, Hybrid, and Web applications DESCRIPTION The main objective of the book is to create

Declarative Pipeline for programming languages such as Java, Android, iOS, AngularJS, NodeJS, Flutter, Ionic Cordova, and .Net. The book starts by introducing all the areas which encompass the field of DevOps Practices. It covers definition of DevOps, DevOps history, benefits of DevOps culture, DevOps and Value Streams, DevOps practices, different Pipeline types such as Build Pipeline, Scripted Pipeline, Declarative Pipeline, and Blue Ocean. Each chapter focuses on Pipeline that includes Static Code Analysis using SonarQube or Lint tools, Unit tests, calculating code coverage, publishing unit tests and coverage reports, verifying the threshold of code coverage, creating build/package, and distributing package to a specific environment based on the type of programming language. The book will also teach you how to use different deployment distribution environments such as Azure App Services, Docker, Azure Container Services, Azure Kubernetes Service, and App Center. By the end, you will be able to implement DevOps Practices using Jenkins effectively and efficiently. **KEY FEATURES** ● Understand how and when Continuous Integration

makes a difference ● Learn how to create Declarative Pipeline for Continuous Integration and Continuous Delivery ● Understand the importance of Continuous Code Inspection and Code Quality ● Learn to publish Unit Test and Code Coverage in Declarative Pipeline ● Understand the importance of Quality Gates and Build Quality **WHAT YOU WILL LEARN** ● Use Multi-Stage Pipeline (Pipeline as a Code) to implement Continuous Integration and Continuous Delivery. ● Create and configure Cloud resources using Platform as a Service Model ● Deploy apps to Azure App Services, Azure Kubernetes and containers ● Understand how to distribute Mobile Apps (APK and IPA) to App Center ● Improve Code Quality and Standards using Continuous Code Inspection **WHO THIS BOOK IS FOR** This book is for DevOps Consultants, DevOps Evangelists, DevOps Engineers, Technical Specialists, Technical Architects, Cloud Experts, and Beginners. Having a basics knowledge of Application development and deployment, Cloud Computing, and DevOps Practices would be an added advantage. **TABLE OF CONTENTS** 1. Introducing DevOps 2. Introducing Jenkins 2.0 and Blue Ocean 3.

Building CICD Pipeline for Java Web Application 4. Building CICD Pipeline for Android App 5. Building CICD Pipeline for iOS App 6. Building CICD Pipeline for Angular Application 7. Building CICD Pipeline NodeJS Application 8. Building CICD Pipeline for Hybrid Mobile Application 9. Building CICD Pipeline for Python Application 10. Building CICD Pipeline for DotNet Application 11. Best Practices Learn to Automate the Deployment of Web Applications to an Application Server Using Jenkins and Apache Tomcat **Apress** Gain the techniques and tools that enable a smooth and efficient software development process in this quick and practical guide on Python continuous integration (CI) and continuous delivery (CD). Based on example applications, this book introduces various kinds of testing and shows you how to set up automated systems that run these tests, and install applications in different environments in controlled ways. Python Continuous Integration and Delivery tackles the technical problems related to software development that are typically glossed over in pure programming texts. After reading this book, you'll see that in today's

fast-moving world, no software project can afford to go through development, then an integration phase of unpredictable length and complexity, and finally be shipped to the customer -- just to find out that the resulting application didn't quite fill their need. Instead, you'll discover that practicing continuous integration and continuous delivery reduces the risks by keeping changes small and automating otherwise painful processes. What You Will Learn Carry out various kinds of testing, including unit testing and continuous integration testing, of your Python code using Jenkins Build packages and manage repositories Incorporate Ansible and Go for automated packaging and other deployments Manage more complex and robust deployments Who This Book Is For Python programmers and operating staff that work with Python applications. *Apply Lean Frameworks to the Process of Game Development* Packt Publishing Ltd Follow this step-by-step guide for creating a continuous delivery pipeline using all of the new features in Jenkins 2.0 such as Pipeline as a Code, multi-branch pipeline, and more. You will learn three crucial elements for achieving a faster software

delivery pipeline: a fungible build/test environment, manageable and reproducible pipelines, and a scalable build/test infrastructure. Pro Continuous Delivery demonstrates how to create a highly available, active/passive Jenkins server using some niche technologies. What You'll Learn Create a highly available, active/passive Jenkins server using CoreOS and Docker, and using Pacemaker and Corosync Use a Jenkins multi-branch pipeline to automatically perform continuous integration whenever there is a new branch in your source control system Describe your continuous delivery pipeline with Jenkinsfile Host Jenkins server on a cloud solution Run Jenkins inside a container using Docker Discover how the distributed nature of Git and the "merge before build" feature of Jenkins can be used to implement gated check-in Implement a scalable build farm using Docker and Kubernetes Who This Book Is For You have experience implementing continuous integration and continuous delivery using Jenkins freestyle Jobs and wish to use the new Pipeline as a Code feature introduced in Jenkins 2.0 Your source code is on a Git-like version

control system (Git, GitHub, GitLab, etc.) and you wish to leverage the advantages of a multi-branch pipeline in Jenkins Your infrastructure is on a Unix-like platform and you wish to create a scalable, distributed build/test farm using Docker or Kubernetes You are in need of a highly available system for your Jenkins Server using open source tools and technologies **Gradle in Action** Simon and Schuster A beginner's guide to implementing continuous integration and continuous delivery using Jenkins About This Book *Speed up and increase software productivity and software delivery using Jenkins *Automate your build, integration, release, and deployment processes with Jenkins-and learn how continuous integration (CI) can save you time and money *Explore the power of continuous delivery using Jenkins through powerful real-life examples Who This Book Is For This book is for anyone who wants to exploit the power of Jenkins. This book serves a great starting point for those who are in the field DevOps and would like to leverage the benefits of CI and continuous delivery in order to increase productivity and reduce delivery time. What You Will

Learn*Take advantage of a continuous delivery solution to achieve faster software delivery*Speed up productivity using a continuous Integration solution through Jenkins*Understand the concepts of CI and continuous delivery*Orchestrate many DevOps tools using Jenkins to automate builds, releases, deployment, and testing*Explore the various features of Jenkins that make DevOps activities a piece of cake*Configure multiple build machines in Jenkins to maintain load balancing*Manage users, projects, and permissions in Jenkins to ensure better security*Leverage the power of plugins in Jenkins

In Detail

In past few years, Agile software development has seen tremendous growth across the world. There is huge demand for software delivery solutions that are fast yet flexible to frequent amendments. As a result, CI and continuous delivery methodologies are gaining popularity. Jenkins' core functionality and flexibility allows it to fit in a variety of environments and can help streamline the development process for all stakeholders. This book starts off by explaining the concepts of CI and its significance in the Agile world with a whole

chapter dedicated to it. Next, you'll learn to configure and set up Jenkins. You'll gain a foothold in implementing CI and continuous delivery methods. We dive into the various features offered by Jenkins one by one exploiting them for CI. After that, you'll find out how to use the built-in pipeline feature of Jenkins. You'll see how to integrate Jenkins with code analysis tools and test automation tools in order to achieve continuous delivery. Next, you'll be introduced to continuous deployment and learn to achieve it using Jenkins. Through this book's wealth of best practices and real-world tips, you'll discover how easy it is to implement a CI service with Jenkins.

A beginner's guide to implementing Continuous Integration and Continuous Delivery using Jenkins 2, 2nd Edition Packt Publishing Ltd

Summary Gradle in Action is a comprehensive guide to end-to-end project automation with Gradle. Starting with the basics, this practical, easy-to-read book discusses how to build a full-fledged, real-world project. Along the way, it touches on advanced topics like testing, continuous integration, and monitoring

code quality. You'll also explore tasks like setting up your target environment and deploying your software. About the Technology Gradle is a general-purpose build automation tool. It extends the usage patterns established by its forerunners, Ant and Maven, and allows builds that are expressive, maintainable, and easy to understand. Using a flexible Groovy-based DSL, Gradle provides declarative and extendable language elements that let you model your project's needs the way you want. About the Book Gradle in Action is a comprehensive guide to end-to-end project automation with Gradle. Starting with the basics, this practical, easy-to-read book discusses how to establish an effective build process for a full-fledged, real-world project. Along the way, it covers advanced topics like testing, continuous integration, and monitoring code quality. You'll also explore tasks like setting up your target environment and deploying your software. The book assumes a basic background in Java, but no knowledge of Groovy. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Whats Inside A

comprehensive guide to Gradle Practical, real-world examples Transitioning from Ant and Maven In-depth plugin development Continuous delivery with Gradle About the Author Benjamin Muschko is a member of the Gradleware engineering team and the author of several popular Gradle plugins. Table of

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