Jenkins Continuous Integration

GitHub

Commits code

Build triggered automatically

Build failed, team notified

Developer

Jenkins C.I Server

>hackr.io
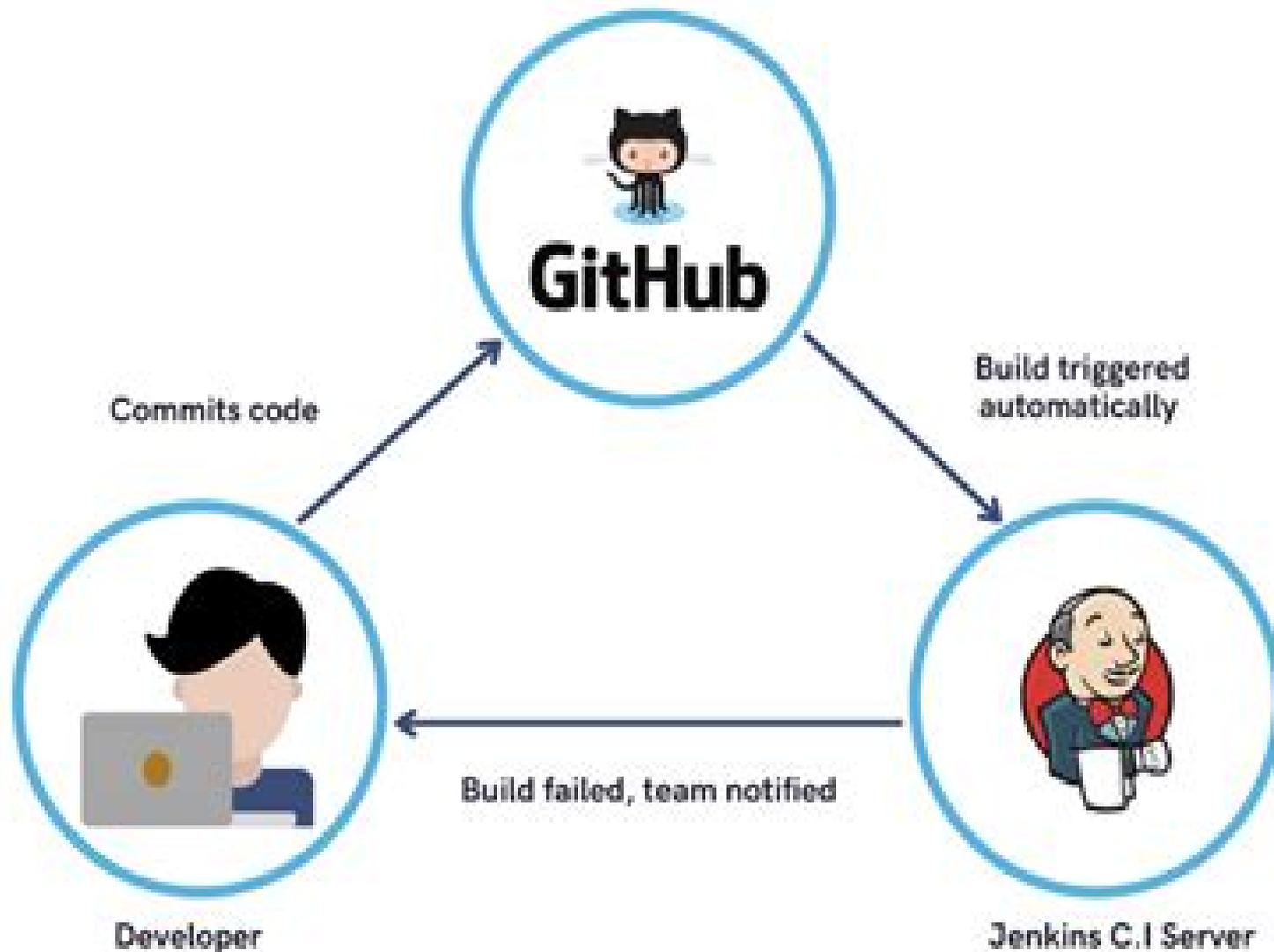
Continuous Integration With Jenkins

Kevin Bowersox

Continuous Integration With Jenkins:

Learning Continuous Integration with Jenkins Nikhil Pathania,2017-12-20 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 **Learning Continuous Integration with Jenkins** Nikhil Pathania,2016-05-31 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 servers 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 **Learning Continuous Integration with Jenkins 2.X- Second Edition** Nikhil Pathania,2017-12-20 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   <u>Learning Continuous Integration with Jenkins</u> Nikhil Pathania,2024-01-31 Integrate Jenkins Kubernetes and more on cloud into a robust GitOps driven CI CD system leveraging JCasC IaC and AI for a streamlined software delivery process Key Features Follow the construction of a Jenkins CI CD pipeline start to finish through a real world example Construct a continuous deployment CD pipeline in Jenkins using GitOps principles and integration with Argo CD Craft and optimize your CI pipeline code with ChatGPT and GitHub Copilot Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThis updated edition of Learning Continuous Integration with Jenkins is your one stop guide to implementing CI CD with Jenkins addressing crucial technologies such as cloud computing containerization Infrastructure as Code and GitOps Tailored to both beginners and seasoned developers the book provides a practical path to mastering a production grade secure resilient and cost effective CI CD setup Starting with a detailed introduction to the fundamental principles of CI this book systematically takes you through setting up a CI environment using Jenkins and other pivotal DevOps tools within the CI CD ecosystem You ll learn to write pipeline code with AI assistance and craft your own CI pipeline With the help of hands on tutorials you ll gain a profound understanding of the CI process and Jenkins robust capabilities Additionally the book teaches you how to expand your CI pipeline with automated testing and deployment setting the stage for continuous deployment To help you through the complete software delivery process this book also covers methods to ensure that your CI CD setup is maintainable across teams secure and performs optimally By the end of the book you ll have become an expert in implementing and optimizing CI CD setups across diverse teams What you will learn Understand CI with the Golden Circle theory Deploy Jenkins on the cloud using Helm charts and Jenkins Configuration as Code JCasC Implement optimal security practices to ensure Jenkins operates securely Extend Jenkins for CI by integrating with SonarQube GitHub and Artifactory Scale Jenkins using containers and the cloud for optimal performance Master Jenkins declarative syntax to enrich your pipeline coding vocabulary Enhance security and improve pipeline code within your CI CD process using best practices Who this book is for This book is for a diverse

audience from university students studying Agile software development to seasoned developers testers release engineers and project managers If you re already using Jenkins for CI this book will assist you in elevating your projects to CD Whether you re new to the concepts of Agile CI and CD or a DevOps engineer seeking advanced insights into JCasC IaC and Azure this book will equip you with the tools to harness Jenkins for improved productivity and streamlined deliveries in the cloud

CI/CD Pipeline Using Jenkins Unleashed Pranoday Pramod Dingare,2022 Understand continuous integration CI continuous delivery and continuous deployment CD with Jenkins These processes allow users as well as administrators to catch problems as soon as they get injected into software systems This book starts with an introduction to Jenkins and covers its architecture and role in CI CD The basics are covered including installing and configuring Jenkins Tool configuration and plugins are discussed as well as available security measures such as credentials You will learn what is meant by Job in Jenkins its types sections and much more You will look at Java API projects jobs configuration The concluding chapters take you through creating pipelines their role in managing web apps and distributed pipelines The book also covers unit testing using TestNG as well as end to end testing using Selenium Python as a part of building a life cycle and setting up Jenkins on different physical and Docker environments as well as Jenkins integration with cloud environments such as AWS And you will learn how to create reusable libraries for use in Jenkins Pipeline and control Jenkins servers using Jenkins CLI and REST APIs The new Jenkins Blue Ocean also is covered The book helps you understand CI CD implementation using Jenkins from scratch in your projects and prepare for end to end DevOps practices What You Will Learn Apply Jenkins to create end to end pipelines Integrate Jenkins with AWS Docker Git and many more tools Use Selenium automation for end to end testing Create distributed pipelines   **Hands-On Continuous Integration and Delivery** Jean-Marcel Belmont,2018-08-29 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 **Learning Continuous Integration with Jenkins** Nikhil Pathania,2016-05-31 A beginner s guide to implementing continuous integration and continuous delivery using JenkinsAbout 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 examplesWho This Book Is ForThis book is for anyone who wants to exploit the power of Jenkins This book servers 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 JenkinsIn DetailIn 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 **Pro Continuous Delivery** Nikhil Pathania,2017-07-03 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 JenkinsServer using open source tools and technologies

Jenkins: The Definitive Guide John Ferguson Smart,2011-07-12 Streamline software development with Jenkins the popular Java based open source tool that has revolutionized the way teams think about Continuous Integration CI This complete guide shows you how to automate your build integration release and deployment processes with Jenkins and demonstrates how CI can save you time money and many headaches Ideal for developers software architects and project managers Jenkins The Definitive Guide is both a CI tutorial and a comprehensive Jenkins reference Through its wealth of best practices and real world tips you ll discover how easy it is to set up a CI service with Jenkins Learn how to install configure and secure your Jenkins server Organize and monitor general purpose build jobs Integrate automated tests to verify builds and set up code quality reporting Establish effective team notification strategies and techniques Configure build pipelines parameterized jobs matrix builds and other advanced jobs Manage a farm of Jenkins servers to run distributed builds Implement automated deployment and continuous delivery   Continuous Integration (CI) with Jenkins Server Deployments Kevin Bowersox,2017 This course teaches developers how to use Jenkins to automate the deployment of web applications to an application server Automated deployments are a key feature of any deployment pipeline used for continuous delivery and deployment The course introduces a sample Java web application and focuses on deploying that application to an Apache Tomcat servlet container using Jenkins integration By the end of this course you ll understand how to automate the delivery of web applications by packaging them from a source code repository and ultimately deploying to an application server Resource description page   **Continuous Integration (CI) with Jenkins** Kevin Bowersox,2017 The Jenkins server or CI continuous integration server is a tool that allows software developers to automate many of the common tasks testing compiling etc associated with software development It s become a widely used software development technology 133 thousand active installs 1 million users because of its ability to dramatically speed up development while assuring code

quality This course teaches you the basics of using the Jenkins server while explaining the core concepts that govern software automation Continuous integration continuous deployment and continuous delivery Resource description page

   Jenkins Essentials - Second Edition Mitesh Soni,2017-06-30 Develop a base for DevOps culture by implementing Continuous Integration and Continuous Delivery including automated builds unit test execution packaging and static code analysis with Jenkins 2About This Book Explore Continuous Integration and automation along with how to manage and configure Jenkins Master using Jenkins to build test and package Java applications Learn about Jenkins extensible features with automated deployment on cloud platforms such as AWS Elastic Beanstalk and Microsoft Azure App Services Learn about creating a pipeline using Build Pipeline plugin and the Pipeline as Code feature available after the release of Jenkins 2 0Who This Book Is ForIf you are a Jenkins novice or beginner with a basic or no understanding of Continuous Integration then this is the book for you Beginners in Jenkins will get quick hands on experience and gain the confidence to explore the use of Jenkins further What You Will Learn Get to grips with the challenges faced by developer communities Learn about Continuous Integration and how it helps build various Java applications Facilitate the installation and configuration of Jenkins Install and configure code repositories and build tools Learn about the integration of Eclipse with Jenkins Manage the integration of Jenkins code repositories and build tools Familiarize yourself with Continuous Integration for Java applications with unit test execution and static code analysis Learn about Continuous Delivery and how to deploy applications in AWS and Microsoft AzureIn DetailIn agile development practices developers need to integrate their work frequently to fix bugs or to create a new feature or functionality Jenkins is used specifically for Continuous Integration helping to enforce the principles of agile development This book focuses on the latest and stable release of Jenkins 2 5 and later featuring the latest features such as Pipeline as Code the new setup experience and the improved UI With the all new Pipeline as Code feature you will be able to build simple or advanced pipelines easily and rapidly hence improving your teams productivity This book begins by tackling the installation of the necessary software dependencies and libraries you ll need to perform Continuous Integration for a Java application From there you ll integrate code repositories applications and build tools for the implementation of Continuous Integration Finally you will also learn how to automate your deployment on cloud platforms such as AWS and Microsoft Azure along with a few advanced testing techniques Style and approachThis book provides simple step by step instructions taking you from start to finish in accomplishing real world Continuous Integration and Continuous Delivery tasks

   Continuous Integration (CI) with Jenkins Basic Build Jobs Kevin Bowersox,2017 The Jenkins community defines a Jenkins project as a user configured description of the work that Jenkins should perform and a build as a single execution of a project This course provides a hands on step by step opportunity to create a very basic Jenkins project and use key components of the Jenkins server toolset to perform a build in support of that project Along the way you will learn to use the Jenkins automation server to establish builds with parameters advanced triggers SCM integration multiple build steps

artifacts and several other specialized functions By the end of the course you ll know how to customize and automate project builds to meet the specialized needs for building application source code as part of an automated deployment pipeline Resource description page **DevOps — Achieve CI / CD via Jenkins in 15 mins** Nitesh Malviya,2021-01-01 This book is all about the introduction to the CI CD pipeline using Jenkins I have seen many developers and small IT firms who still rely on manual deployments and code merging which many times turns into a disaster You have to be careful with environment variables database connections etc while doing deployments and especially mission critical production deployments I wrote this book with my experience to convert a Laravel project manual deployment to completely automized via Jenkins After reading this book you will be able to do all your future Laravel deployments via the power of CI CD **Mastering Gradle** Mainak Mitra,2015-07-31 With Gradle you can efficiently build automation framework along with some flexible alternatives to customized build logic This book starts with sound basics about build automation and how Gradle fits into this automation It then moves on to give you a good exposure on Groovy a scripting language used to write Gradle and helps you understand a key elements of Groovy programming language In the following chapters you will deal with task management and learn how to integrate Ant tasks into build scripts Furthermore you will learn dependency management plugin management and its configuration techniques in Gradle You will also get hands on with building and testing projects using Gradle You will then begin to cover diverse topics such as Continuous Integration with Jenkins and TeamCity Migration strategies and Deployment which enables you to learn concepts useful for Agile software development Finally you will also learn how to create a simple mobile application using Android and explore how Gradle can help you to build and test the application **Continuous Integration (CI) with Jenkins Tool Installation** Kevin Bowersox,2017 Building a Jenkins automation server based Continuous Integration CI pipeline requires five specific software components Java Git Apache Maven Apache Tomcat and Jenkins In this course you ll develop a solid understanding of the function of each component how they integrate to do the work of a CI pipeline and how to install each component Resource description page *DevOps Automation Cookbook* Ekambar Kumar Singirikonda,2024-05-27 Automate scale and secure your DevOps workflows like a pro KEY FEATURES Master automation tools like Terraform Ansible Git Jenkins and more Practical recipes for CI CD pipelines IaC testing and security Leverage best practices to optimize and scale your DevOps processes DESCRIPTION In the fast paced world of software development embracing DevOps practices is key to achieving rapid reliable deployments The DevOps Automation Cookbook equips you with a comprehensive toolkit to automate and streamline your workflows from infrastructure provisioning to continuous integration and deployment This book teaches readers how to automate infrastructure setup and deployment using IaC tools like Terraform and Ansible It covers essential DevOps practices such as version control with Git continuous integration with Jenkins or Travis and automated testing with Selenium The book also explains containerization with Docker and orchestration with Kubernetes for efficient app deployment It highlights DevSecOps focusing on security

with Puppet and explores using TeamCity for enforcing compliance policies in the DevOps workflow Whether you are a seasoned DevOps practitioner or just starting your journey the DevOps Automation Cookbook provides the insights and hands on skills you need to take your automation game to the next level Discover how to optimize your processes scale your infrastructure and deliver high quality software faster than ever before WHAT YOU WILL LEARN Automate infrastructure provisioning with Terraform and Ansible Implement version control and collaboration with Git Set up efficient CI CD pipelines using Jenkins Leverage containers with Docker and orchestrate with Kubernetes Integrate automated testing and security into DevOps workflows Apply configuration management using Puppet and Chef WHO THIS BOOK IS FOR This book is for DevOps engineers system administrators and software developers seeking to automate infrastructure provisioning deployment and security within their workflows TABLE OF CONTENTS 1 Introduction 2 Understanding Infrastructure as Code 3 Provisioning with Terraform 4 Version Control with Git 5 Introduction to Continuous Integration with Jenkins and Travis 6 Automated Testing in DevOps 7 Test Automation with Selenium 8 Understanding Containers and Orchestration 9 Deployment with Docker and Kubernetes 10 Introduction to Security in DevOps 11 Puppet and Security 12 Configuration Management with Chef 13 Ensuring Compliance with TeamCity 14 Implications and Future Directions   **LEARN JENKINS** Diego Rodrigues,2025-09-05 LEARN JENKINS Master CI CD Pipelines Automation and Continuous Integration in Corporate Environments Intended for professionals students and specialists seeking practical expertise in continuous integration automated delivery and orchestration of DevOps pipelines with Jenkins The content covers everything from installation configuration and job automation to advanced integration with AWS Azure Google Cloud Docker Kubernetes Git GitHub GitLab Bitbucket Terraform Ansible S3 BigQuery Slack and monitoring tools Learn how to build complete CI CD pipelines implement automated tests manage deployments across multiple environments create secure integrations and optimize corporate automation with plugins scripts webhooks and APIs You will learn Install configure and scale Jenkins in cloud on premises and hybrid environments Build CI CD pipelines with automation of tests builds deployments and monitoring Integrate Jenkins with AWS Azure Google Cloud Docker Kubernetes Terraform Ansible Git GitHub GitLab and Bitbucket Automate delivery versioning and infrastructure provisioning as code Manage jobs users permissions plugins and DevOps tool integrations Implement strategies for security backup auditing and troubleshooting Use scripts in Python Shell Groovy Node js Ruby Go PHP NET and C Orchestrate continuous deployments rollbacks Slack notifications and real time monitoring By the end you will master Jenkins to build robust secure and scalable CI CD solutions ready for professional application in development operations and automation projects for organizations of any size jenkins ci cd devops pipelines automation continuous integration aws azure google cloud docker kubernetes terraform ansible git github gitlab bitbucket s3 bigquery slack scripts python shell groovy node js ruby go php net c   *Hands-on Continuous Integration and Automation with Jenkins* Sandro Cirulli,2018 In agile development practices developers need to integrate their work frequently to fix bugs or to create

a new feature or functionality Jenkins is used specifically for continuous integration helping to enforce the principles of agile development This video course will focus on the latest stable release of Jenkins 2 with features such as Pipeline as Code new setup experiences and an improved UI You will be able to build simple or advanced pipelines easily and rapidly hence improving your team s productivity This video course delves into the installation of the required software dependencies and libraries and demonstrates the workflow you ll need to follow to perform continuous integration for a sample application From there you will learn how to integrate code repositories and build tools in order to build code pipelines to implement both continuous integration and continuous delivery Finally you will also learn to automate deployment to a cloud platform such as AWS Resource description page   **Continuous Delivery with Docker and Jenkins** Rafał Leszko,2019-05-31 Create a complete Continuous Delivery process using modern DevOps tools such as Docker Kubernetes Jenkins Docker Hub Ansible GitHub and many more Key FeaturesBuild reliable and secure applications using Docker containers Create a highly available environment to scale a Docker servers using KubernetesImplement advance continuous delivery process by parallelizing the pipeline tasksBook 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 learnGet to grips with docker fundamentals and how to dockerize an application for the CD processLearn how to use Jenkins on the Cloud environmentsScale a pool of Docker servers using KubernetesCreate multi container applications using Docker ComposeWrite acceptance tests using Cucumber and run them in the Docker ecosystem using JenkinsPublish a built Docker image to a Docker Registry and deploy cycles of Jenkins pipelines using community best practicesWho 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

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