Learning
Continuous
Integration
with Jenkins

Second Edition

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

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By Nikhil Pathania

Learning Continuous Integration With Jenkins

Nikhil Pathania

Learning 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   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

Learning Continuous Integration with Jenkins 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 *Learning Continuous Integration with Jenkins - Third Edition* Nikhil Pathania,2024-02-09 Master Jenkins essentials cloud setup CI CD GitHub SonarQube AI Kubernetes cloud scalability innovative pipeline code with ChatGPT using real world examples and best practices **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   Learning Continuous Integration with TeamCity Manoj Mahalingam S,2014-08-26 If you are a developer tester or a person in operations or Devops who wants to start practising CI start using TeamCity or both then this book is for you Moreover if you have thought about bringing CI into your team if you are already using a CI tool and want to move to TeamCity or if you are looking for ideal practises and techniques while implementing CI with TeamCity this book will be useful   *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   **Machine Learning for Predictive Analysis** Amit Joshi,Mahdi Khosravy,Neeraj Gupta,2020-10-22 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   **Hands-On Embedded Programming with Qt** John Werner,2019-07-12 A comprehensive guide that will get you up and running with embedded software development using Qt5 Key Features Learn to create fluid cross platform applications for embedded devices Achieve optimum performance in your applications with the QT Lite Project Explore the implementation of Qt with IoT using QtMqtt QtKNX and QtWebSockets Book DescriptionQt is an open source toolkit suitable for cross platform and embedded application development This book uses inductive teaching to help you learn how to create applications for embedded and Internet of Things IoT devices with Qt 5 You ll start by learning to develop your very first application with Qt Next you ll build on the first application by understanding new concepts through hands on projects and written text Each project will introduce new features that will help you transform your basic first project into a connected IoT application running on embedded hardware In addition to gaining practical experience in developing an embedded Qt project you will also gain valuable insights into best practices for Qt development and explore advanced techniques for testing debugging and monitoring the performance of Qt applications The examples and projects covered throughout the book can be run both locally and on an embedded platform By the end of this book you will have the skills you need to use Qt 5 to confidently develop modern embedded applications What you will learn Understand how to develop Qt applications using Qt Creator on Linux Explore various Qt GUI technologies to build resourceful and interactive applications Understand Qt s threading model to maintain a responsive UI Get to grips with remote target load and debug using Qt Creator Become adept at writing IoT code using Qt Learn a variety of software best practices to ensure that your code is efficient Who this book is for This book is for software and hardware professionals with experience in different domains who are seeking new career opportunities in embedded systems and IoT Working knowledge of the C Linux command line will be useful to get the most out of this book   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   *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   Getting Started with Kubernetes Jonathan Baier,Jesse White,2018-10-30 Schedule and run application containers using Kubernetes Key FeaturesGet to grips with a wide range of tools to monitor and secure your deploymentsManage your container clusters and networks using KubernetesGet well versed with the fundamentals of KubernetesBook Description Kubernetes has continued to grow and achieve broad adoption across various industries helping you to orchestrate and automate container deployments on a massive scale Based on the recent release of Kubernetes 1 12 Getting Started with Kubernetes gives you a complete understanding of how to install a Kubernetes cluster The book focuses on core Kubernetes constructs such as pods services replica sets replication controllers and labels You will understand cluster level networking in Kubernetes and learn to set up external access to applications running in the cluster As you make your way through the book you ll understand how to manage deployments and perform updates with minimal downtime In addition to this you will explore operational aspects of Kubernetes such as monitoring and logging later moving on to advanced concepts such as container security and cluster federation You ll get to grips with integrating your build pipeline and deployments within a Kubernetes cluster and be able to understand and interact with open source projects In the concluding chapters you ll orchestrate updates behind the scenes avoid downtime on your cluster and deal with underlying cloud provider instability within your cluster By the end of this book

you ll have a complete understanding of the Kubernetes platform and will start deploying applications on it What you will learnDownload install and configure the Kubernetes code baseSet up and access monitoring and logging for Kubernetes clustersSet up external access to applications running in the clusterLearn how to manage and scale kubernetes with hosted platforms on AWS Azure and GCPRun multiple clusters and manage them from a single control planeDiscover top tools for deploying and managing a Kubernetes clusterLearn how to get production ready and harden Kubernetes operations networking and storageWho this book is for Getting Started with Kubernetes is for developers system administrators and DevOps engineers who want to automate the deployment process and scale their applications No prior knowledge of Kubernetes is required   **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   **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 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 **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   CI/CD Pipeline with Docker and Jenkins Sandeep Rawat,2023-01-12 A Practical Guide to Mastering Modern day Software Development KEY FEATURES Leverage the power of Docker for faster deployment and migrations Learn how to create a Continuous Integration pipeline in Jenkins Get familiar with different types of deployments in Continuous Delivery DESCRIPTION CI CD Pipeline with Docker and Jenkins is the right mix of narrative concepts and real life implementation The book focuses on the CI CD maturity journey of a team from a DevOps perspective The book takes you on a CI CD journey of a project starting from identifying the challenges faced by the team and how the team uses CI as a first step to overcome the problems Moving on the book explains how the team matures via the Jenkins shared library and Dockerization The later part of the book covers the next journey where the DevOps team decides to introduce CD to mature the DevOps practices of the project further Here the book explains how the DevOps team learns about the various implementations of CD and applies them via Jenkins Given that there are multiple technologies to cover the journey starts from the simplest one and slowly goes on to higher concepts ensuring that you follow the right learning path To keep things in perspective a sample project has been included with the book and all the concepts of CI CD are implemented in it You can work with it test out different scenarios and can refer to them for your projects WHAT YOU WILL LEARN Design a CI implementation plan in terms of Pre and Post Deployment integration checks Learn how to run your CI CD jobs in Docker containers Understand how CI and CD work together end to end to achieve modern software delivery goals Design and implement a very comprehensive CI process of any stack on any platform Assess and identify the CD requirements of a project and architect the right CD solution WHO THIS BOOK IS FOR This book is for current and aspiring tech professionals students and anyone who wishes to build a career in DevOps At the same time it will also prove essential to existing engineers and project owners looking to streamline their DevOps practices with industry standards specifically the CI CD part TABLE OF CONTENTS 1 Introduction 2 Continuous Integration 3 Introduction to Jenkins 4 CI with Jenkins 5 Introduction to Docker 6 CI with Jenkins and Docker 7 Continuous Deployment 8 Continuous Deployment Using Jenkins   Jenkins 2.x Continuous Integration Cookbook Mitesh Soni,Alan Mark Berg,2017-10-30 Get a problem solution approach enriched with code examples for practical and easy comprehension About This Book Explore the use of more than 40 best of breed plug ins for improving efficiency Secure and maintain Jenkins 2 x by integrating it with LDAP and CAS which is a Single Sign on solution Efficiently build advanced pipelines with pipeline as code thus increasing your team s productivity 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 Install and Configure Jenkins 2 x on AWS and Azure Explore effective ways to manage and monitor Jenkins 2 x Secure Jenkins 2 x using Matrix based Security Deploying a WAR file from Jenkins 2 x to

Azure App Services and AWS Beanstalk Automate deployment of application on AWS and Azure PaaS Continuous Testing Unit Test Execution Functional Testing and Load Testing In Detail Jenkins 2 x is 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 will begin by guiding you through steps for installing and configuring Jenkins 2 x on AWS and Azure This is followed by steps that enable you to manage and monitor Jenkins 2 x You will also explore the ways to enhance the overall security of Jenkins 2 x You will then explore the steps involved in improving the code quality using SonarQube Then you will learn the ways 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 Style and approach This book provides a problem solution approach to some common tasks and some uncommon tasks using Jenkins 2 x and is well illustrated with practical code examples

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