CONTINUOUS DELIVERY WITH DOCKER CONTAINERS AND JAVA EE

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Continuous Delivery With Docker Containers And Java Ee

Lauren Gardner

Continuous Delivery With Docker Containers And Java Ee:

  Architecting Modern Java EE Applications Sebastian Daschner,2017-10-09 Find out how to craft effective business oriented Java EE 8 applications that target customer s demands in the age of Cloud platforms and container technology About This Book Understand the principles of modern Java EE and how to realize effective architectures Gain knowledge of how to design enterprise software in the age of automation Continuous Delivery and Cloud platforms Learn about the reasoning and motivations behind state of the art enterprise Java technology that focuses on business Who This Book Is For This book is for experienced Java EE developers who are aspiring to become the architects of enterprise grade applications or software architects who would like to leverage Java EE to create effective blueprints of applications What You Will Learn What enterprise software engineers should focus on Implement applications packages and components in a modern way Design and structure application architectures Discover how to realize technical and cross cutting aspects Get to grips with containers and container orchestration technology Realize zero dependency 12 factor and Cloud native applications Implement automated fast reliable and maintainable software tests Discover distributed system architectures and their requirements In Detail Java EE 8 brings with it a load of features mainly targeting newer architectures such as microservices modernized security APIs and cloud deployments This book will teach you to design and develop modern business oriented applications using Java EE 8 It shows how to structure systems and applications and how design patterns and Domain Driven Design aspects are realized in the age of Java EE 8 You will learn about the concepts and principles behind Java EE applications and how to effect communication persistence technical and cross cutting concerns and asynchronous behavior This book covers Continuous Delivery DevOps infrastructure as code containers container orchestration technologies such as Docker and Kubernetes and why and especially how Java EE fits into this world It also covers the requirements behind containerized zero dependency applications and how modern Java EE application servers support these approaches You will also learn about automated fast and reliable software tests in different test levels scopes and test technologies This book covers the prerequisites and challenges of distributed systems that lead to microservice shared nothing architectures The challenges and solutions of consistency versus scalability will further lead us to event sourcing event driven architectures and the CQRS principle This book also includes the nuts and bolts of application performance as well as how to realize resilience logging monitoring and tracing in a modern enterprise world Last but not least the demands of securing enterprise systems are covered By the end you will understand the ins and outs of Java EE so that you can make critical design decisions that not only live up to but also surpass your clients expectations Style and approach This book focuses on solving business problems and meeting customer demands in the enterprise world It covers how to create enterprise applications with reasonable technology choices free of cargo cult and over engineering The aspects shown in this book not only demonstrate how to realize a certain solution but also explain its motivations and reasoning   **Docker and Kubernetes for Java**

Developers Jaroslaw Krochmalski,2017-08-30 Leverage the lethal combination of Docker and Kubernetes to automate deployment and management of Java applications About This Book Master using Docker and Kubernetes to build deploy and manage Java applications in a jiff Learn how to create your own Docker image and customize your own cluster using Kubernetes Empower the journey from development to production using this practical guide Who This Book Is For The book is aimed at Java developers who are eager to build deploy and manage applications very quickly using container technology They need have no knowledge of Docker and Kubernetes What You Will Learn Package Java applications into Docker images Understand the running of containers locally Explore development and deployment options with Docker Integrate Docker into Maven builds Manage and monitor Java applications running on Kubernetes clusters Create Continuous Delivery pipelines for Java applications deployed to Kubernetes In Detail Imagine creating and testing Java EE applications on Apache Tomcat Server or Wildfly Application server in minutes along with deploying and managing Java applications swiftly Sounds too good to be true But you have a reason to cheer as such scenarios are only possible by leveraging Docker and Kubernetes This book will start by introducing Docker and delve deep into its networking and persistent storage concepts You will then proceed to learn how to refactor monolith application into separate services by building an application and then packaging it into Docker containers Next you will create an image containing Java Enterprise Application and later run it using Docker Moving on the book will focus on Kubernetes and its features and you will learn to deploy a Java application to Kubernetes using Maven and monitor a Java application in production By the end of the book you will get hands on with some more advanced topics to further extend your knowledge about Docker and Kubernetes Style and approach An easy to follow practical guide that will help Java developers develop deploy and manage Java applications efficiently   Liberty in a DevOps Continuous Delivery Environment Sima Modir,IBM Redbooks,2015-10-14 This IBM Redbooks Solution Guide describes the benefits of Java development using IBM WebSphere Application Server Liberty Liberty in a DevOps manner The guide shows using a number of IBM and non IBM tools that can be used throughout the application lifecycle management ALM   **Evolve the Monolith to Microservices with Java and Node** Sandro De Santis,Luis Florez,Duy V Nguyen,Eduardo Rosa,IBM Redbooks,2016-12-05 Microservices is an architectural style in which large complex software applications are composed of one or more smaller services Each of these microservices focuses on completing one task that represents a small business capability These microservices can be developed in any programming language This IBM Redbooks publication shows how to break out a traditional Java EE application into separate microservices and provides a set of code projects that illustrate the various steps along the way These code projects use the IBM WebSphere Application Server Liberty IBM API ConnectTM IBM Bluemix and other Open Source Frameworks in the microservices ecosystem The sample projects highlight the evolution of monoliths to microservices with Java and Node   **Containerizing Continuous Delivery in Java** Daniel Bryant,2017   **WildFly Cookbook** Luigi Fugaro,2015-07-24 With the increasing demand for

distributed systems for Java applications WildFly offers a robust platform on which to deploy and manage your services As a matter of fact WildFly 9 is a fully certified Java EE 7 platform and provides remote management tools such as the redesigned Admin Console and the new and powerful Command Line Interface CLI With practical and accessible material you will begin by learning to set up your WildFly runtime environment and progress to selecting appropriate operational models managing subsystems and conquering the CLI You will then walk through the different balancing and clustering techniques simultaneously learning about role based access control and then developing applications targeting WildFly and Docker

 DevOps for Web Development Mitesh Soni,2016-10-24 Achieve the Continuous Integration and Continuous Delivery of your web applications with ease About This Book Overcome the challenges of implementing DevOps for web applications familiarize yourself with diverse third party modules and learn how to integrate them with bespoke code to efficiently complete tasks Understand how to deploy web applications for a variety of Cloud platforms such as Amazon EC2 AWS Elastic Beanstalk Microsoft Azure Azure Web Apps and Docker Container Understand how to monitor applications deployed in Amazon EC2 AWS Elastic Beanstalk Microsoft Azure Azure Web Apps using Nagios New Relic Microsoft Azure and AWS default monitoring features Who This Book Is For If you are a system admin or application and web application developer with a basic knowledge of programming and want to get hands on with tools such as Jenkins 2 and Chef and Cloud platforms such as AWS and Microsoft Azure Docker New Relic Nagios and their modules to host deploy monitor and manage their web applications then this book is for you What You Will Learn Grasp Continuous Integration for a JEE application create and configure a build job for a Java application with Maven and with Jenkins 2 0 Create built in delivery pipelines of Jenkins 2 and build a pipeline configuration for end to end automation to manage the lifecycle of Continuous Integration Get to know all about configuration management using Chef to create a runtime environment Perform instance provisioning in AWS and Microsoft Azure and manage virtual machines on different cloud platforms install Knife plugins for Amazon EC2 and Microsoft Azure Deploy an application in Amazon EC2 AWS Elastic Beanstalk Microsoft Azure Web Apps and a Docker container Monitor infrastructure application servers web servers and applications with the use of open source monitoring solutions and New Relic Orchestrate multiple build jobs to achieve application deployment automation create parameterized build jobs for end to end automation In Detail The DevOps culture is growing at a massive rate as many organizations are adopting it However implementing it for web applications is one of the biggest challenges experienced by many developers and admins which this book will help you overcome using various tools such as Chef Docker and Jenkins On the basis of the functionality of these tools the book is divided into three parts The first part shows you how to use Jenkins 2 0 for Continuous Integration of a sample JEE application The second part explains the Chef configuration management tool and provides an overview of Docker containers resource provisioning in cloud environments using Chef and Configuration Management in a cloud environment The third part explores Continuous Delivery and Continuous Deployment in AWS Microsoft Azure and

Docker all using Jenkins 2 0 This book combines the skills of both web application deployment and system configuration as each chapter contains one or more practical hands on projects You will be exposed to real world project scenarios that are progressively presented from easy to complex solutions We will teach you concepts such as hosting web applications configuring a runtime environment monitoring and hosting on various cloud platforms and managing them This book will show you how to essentially host and manage web applications along with Continuous Integration Cloud Computing Configuration Management Continuous Monitoring Continuous Delivery and Deployment Style and approach This is a learning guide for those who have a basic knowledge of application deployment configuration management tools and Cloud computing and are eager to leverage it to implement DevOps for web applications using end to end automation and orchestration **Continuous Delivery for Java Apps** John Smith,2024-05 Continuous Delivery for Java Apps Deploying with Jenkins and Docker is an essential guide for software developers DevOps engineers and IT professionals seeking to enhance their expertise in modern deployment technologies This comprehensive book offers in depth exploration and practical insights into continuous delivery focusing on Java applications and leveraging the power of Jenkins and Docker two of the most influential tools in today s DevOps landscape From setting up a robust development environment to mastering containerization and automation this book walks you through the entire process of preparing building testing and deploying Java applications Each chapter provides detailed guidance on configuring Jenkins for automation building Docker containers specifically for Java managing staging environments and much more Whether you are a developer aiming to streamline your deployment process a DevOps engineer tasked with creating automated pipelines or an IT manager overseeing software operations this book prepares you to implement effective and efficient continuous delivery practices With a focus on best practices potential pitfalls and advanced topics the knowledge gained will elevate your skills and enable you to transform your organization s deployment strategy fundamentally Reinforce your learning embrace new methodologies and drive your projects to success with Continuous Delivery for Java Apps Deploying with Jenkins and Docker *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 *Continuous Delivery with Docker and Jenkins* Rafal Leszko,2022-05-04 Create a complete continuous delivery process using modern DevOps tools such as Docker Jenkins Kubernetes Ansible Terraform and many more Key Features Build reliable and secure applications using Docker containers Create a highly available environment to scale Jenkins and your services using Kubernetes Automate your release process end to end Book Description This updated third edition of Continuous Delivery with Docker and Jenkins will explain the advantages of combining Jenkins and Docker to improve the continuous integration and delivery process of app development You ll start by setting up a Docker server and configuring Jenkins on it Next you ll discover steps for building applications and microservices on Dockerfiles and integrating them with Jenkins using continuous delivery processes such as continuous integration automated acceptance testing configuration management and Infrastructure as Code Moving ahead you ll learn how to ensure quick application deployment with Docker containers along with scaling Jenkins using Kubernetes Later you ll explore how to deploy applications using Docker images and test them with Jenkins Toward the concluding chapters the book will focus on missing parts of the CD pipeline such as the environments and infrastructure application versioning and non functional testing By the end of this continuous integration and continuous delivery book you ll have gained the skills you need to enhance the DevOps workflow by integrating the functionalities of Docker and Jenkins What you will learn Grasp Docker fundamentals and dockerize applications for the CD process Understand how to use Jenkins on premises and in the cloud Scale a pool of Docker servers using Kubernetes Write acceptance tests using Cucumber Run tests in the Docker ecosystem using Jenkins Provision your servers and infrastructure using Ansible and Terraform Publish a built Docker image to a Docker registry Deploy cycles of Jenkins pipelines using community best practices Who this book is for The book is for DevOps engineers system administrators Docker professionals or anyone who wants to explore the power of working with Docker and Jenkins together No prior knowledge of DevOps is required to get started **Continuous Deployment for Java Apps: Mastering Jenkins and Docker** Peter Jones,2025-01-12 Continuous Deployment for Java Apps Mastering Jenkins and

Docker is an indispensable guide for software developers DevOps engineers and IT professionals aiming to enhance their proficiency in cutting edge deployment technologies This comprehensive resource delves deeply into continuous deployment with a special focus on Java applications and harnessing the capabilities of Jenkins and Docker two pivotal tools in the modern DevOps landscape The book provides a complete walkthrough from setting up a robust development environment to mastering containerization and automation You will learn how to prepare build test and deploy Java applications seamlessly Each chapter offers meticulous guidance on configuring Jenkins for automation building Docker containers optimized for Java managing staging environments and addressing many other critical aspects Whether you are a developer seeking to streamline your deployment process a DevOps engineer responsible for creating automated pipelines or an IT manager overseeing comprehensive software operations this book equips you to implement effective and efficient continuous deployment practices Emphasizing best practices potential pitfalls and advanced topics the knowledge you gain from this book will elevate your skill set and enable you to transform your organization s deployment strategy fundamentally Reinforce your learning adopt innovative methodologies and drive your projects to success with Continuous Deployment for Java Apps Mastering Jenkins and Docker **Hands-On Cloud-Native Microservices with Jakarta EE** Luigi Fugaro,Mauro Vocale,2019-01-31 Discover how cloud native microservice architecture helps you to build dynamically scalable applications by using the most widely used and adopted runtime environments Key FeaturesBuild robust cloud native applications using a variety of toolsUnderstand how to configure both Amazon Web Services AWS and Docker clouds for high availabilityExplore common design patterns used in building and deploying microservices architecture Book Description Businesses today are evolving rapidly and developers now face the challenge of building applications that are resilient flexible and native to the cloud To achieve this you ll need to be aware of the environment tools and resources that you re coding against The book will begin by introducing you to cloud native architecture and simplifying the major concepts You ll learn to build microservices in Jakarta EE using MicroProfile with Thorntail and Narayana LRA You ll then delve into cloud native application x rays understanding the MicroProfile specification and the implementation testing of microservices As you progress further you ll focus on continuous integration and continuous delivery in addition to learning how to dockerize your services You ll also cover concepts and techniques relating to security monitoring and troubleshooting problems that might occur with applications after you ve written them By the end of this book you will be equipped with the skills you need to build highly resilient applications using cloud native microservice architecture What you will learnIntegrate reactive principles in MicroProfile microservices architectureExplore the 12 factors app paradigm and its implicationsGet the best out of Java versions 8 and 9 to implement a microservice based on ThorntailUnderstand what OpenShift is and why it is so important for an elastic architectureBuild a Linux container image using Docker and scale the application using KubernetesImplement various patterns such as Circuit Breaker and bulkheadsGet to grips with the DevOps methodology using continuous

integration CI and continuous deployment CD Who this book is for This book is for developers with basic knowledge of Java EE and HTTP based application principles who want to learn how to build test and scale Java EE microservices No prior experience of writing microservices in Java EE is required *Architecting Modern Java Ee Applications* Sebastian Daschner,2017-10-09 Find out how to craft effective business oriented Java EE 8 applications that target customer s demands in the age of Cloud platforms and container technology About This Book Understand the principles of modern Java EE and how to realize effective architectures Gain knowledge of how to design enterprise software in the age of automation Continuous Delivery and Cloud platforms Learn about the reasoning and motivations behind state of the art enterprise Java technology that focuses on businessWho This Book Is ForThis book is for experienced Java EE developers who are aspiring to become the architects of enterprise grade applications or software architects who would like to leverage Java EE to create effective blueprints of applications What You Will Learn What enterprise software engineers should focus on Implement applications packages and components in a modern way Design and structure application architectures Discover how to realize technical and cross cutting aspects Get to grips with containers and container orchestration technology Realize zero dependency 12 factor and Cloud native applications Implement automated fast reliable and maintainable software tests Discover distributed system architectures and their requirementsIn DetailJava EE 8 brings with it a load of features mainly targeting newer architectures such as microservices modernized security APIs and cloud deployments This book will teach you to design and develop modern business oriented applications using Java EE 8 It shows how to structure systems and applications and how design patterns and Domain Driven Design aspects are realized in the age of Java EE 8 You will learn about the concepts and principles behind Java EE applications and how to effect communication persistence technical and cross cutting concerns and asynchronous behavior This book covers Continuous Delivery DevOps infrastructure as code containers container orchestration technologies such as Docker and Kubernetes and why and especially how Java EE fits into this world It also covers the requirements behind containerized zero dependency applications and how modern Java EE application servers support these approaches You will also learn about automated fast and reliable software tests in different test levels scopes and test technologies This book covers the prerequisites and challenges of distributed systems that lead to microservice shared nothing architectures The challenges and solutions of consistency versus scalability will further lead us to event sourcing event driven architectures and the CQRS principle This book also includes the nuts and bolts of application performance as well as how to realize resilience logging monitoring and tracing in a modern enterprise world Last but not least the demands of securing enterprise systems are covered By the end you will understand the ins and outs of Java EE so that you can make critical design decisions that not only live up to but also surpass your clients expectations Style and approachThis book focuses on solving business problems and meeting customer demands in the enterprise world It covers how to create enterprise applications with reasonable technology choices free of cargo cult and over engineering The aspects

shown in this book not only demonstrate how to realize a certain solution but also explain its motivations and reasoning

  Continuous Delivery with Docker and Jenkins Rafal Leszko,2017-08-24 Unleash the combination of Docker and Jenkins in order to enhance the DevOps workflow About This Book Build reliable and secure applications using Docker containers Create a complete Continuous Delivery pipeline using Docker Jenkins and Ansible Deliver your applications directly on the Docker Swarm cluster Create more complex solutions using multi containers and database migrations Who This Book Is For This book is indented to provide a full overview of deep learning From the beginner in deep learning and artificial intelligence to the data scientist who wants to become familiar with Theano and its supporting libraries or have an extended understanding of deep neural nets Some basic skills in Python programming and computer science will help as well as skills in elementary algebra and calculus What You Will Learn Get to grips with docker fundamentals and how to dockerize an application for the Continuous Delivery process Configure Jenkins and scale it using Docker based agents Understand the principles and the technical aspects of a successful Continuous Delivery pipeline Create a complete Continuous Delivery process using modern tools Docker Jenkins and Ansible Write acceptance tests using Cucumber and run them in the Docker ecosystem using Jenkins Create multi container applications using Docker Compose Managing database changes inside the Continuous Delivery process and understand effective frameworks such as Cucumber and Flyweight Build clustering applications with Jenkins using Docker Swarm Publish a built Docker image to a Docker Registry and deploy cycles of Jenkins pipelines using community best practices In Detail The combination of Docker and Jenkins improves your Continuous Delivery pipeline using fewer resources It also helps you scale up your builds automate tasks and speed up Jenkins performance with the benefits of Docker containerization This book will explain the advantages of combining Jenkins and Docker to improve the continuous integration and delivery process of 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 Docker Swarm Next you will get to know how to deploy applications using Docker images and testing them with Jenkins By the end of the book you will be enhancing the DevOps workflow by integrating the functionalities of Docker and Jenkins Style and approach The book is aimed at DevOps Engineers developers and IT Operations who want to enhance the DevOps culture using Docker and Jenkins   **Containerizing Java EE 8 Apps Using Docker and Kubernetes** Sebastian Daschner,2018 Some enterprise developers might wonder whether the Java EE platform is eligible for realizing modern containerized enterprise applications that run in cloud offerings A lot of enterprises migrate their runtime environments to platforms that are based on Docker and Kubernetes Container technologies in combination with orchestration provide significant advantages in the way companies deploy and operate their enterprise software This course

will show you how it is possible to develop Java EE 8 applications that run in containers We will see why Java EE specifically is a natural fit for containers This course starts with practical ways on how you can use Docker in Java EE 8 and how to troubleshoot containers You will run Java EE in containers This course will also teach you how to configure containerized applications Also you will orchestrate containers using Kubernetes Resource description page *Docker for Developers* Richard Bullington-McGuire,Andrew K. Dennis,Michael Schwartz,2020-09-14 Learn how to deploy and test Linux based Docker containers with the help of real world use cases Key FeaturesUnderstand how to make a deployment workflow run smoothly with Docker containersLearn Docker and DevOps concepts such as continuous integration and continuous deployment CI CD Gain insights into using various Docker tools and librariesBook Description Docker is the de facto standard for containerizing apps and with an increasing number of software projects migrating to containers it is crucial for engineers and DevOps teams to understand how to build deploy and secure Docker environments effectively Docker for Developers will help you understand Docker containers from scratch while taking you through best practices and showing you how to address security concerns Starting with an introduction to Docker you ll learn how to use containers and VirtualBox for development You ll explore how containers work and develop projects within them after you ve explored different ways to deploy and run containers The book will also show you how to use Docker containers in production in both single host set ups and in clusters and deploy them using Jenkins Kubernetes and Spinnaker As you advance you ll get to grips with monitoring securing and scaling Docker using tools such as Prometheus and Grafana Later you ll be able to deploy Docker containers to a variety of environments including the cloud native Amazon Elastic Kubernetes Service Amazon EKS before finally delving into Docker security concepts and best practices By the end of the Docker book you ll be able to not only work in a container driven environment confidently but also use Docker for both new and existing projects What you will learnGet up to speed with creating containers and understand how they workPackage and deploy your containers to a variety of platformsWork with containers in the cloud and on the Kubernetes platformDeploy and then monitor the health and logs of running containersExplore best practices for working with containers from a security perspectiveBecome familiar with scanning containers and using third party security tools and librariesWho this book is for If you re a software engineer new to containerization or a DevOps engineer responsible for deploying Docker containers in the cloud and building DevOps pipelines for container based projects you ll find this book useful This Docker containers book is also a handy reference guide for anyone working with a Docker based DevOps ecosystem or interested in understanding the security implications and best practices for working in container driven environments **The DevOps 2.4 Toolkit** Viktor Farcic,2019-11-28 An exploration of continuous deployment to a Kubernetes cluster using a wide range of Kubernetes platforms with instructions on how to develop a pipeline on a few of the most commonly used CI CD platforms Key FeaturesThe fifth book of DevOps expert Viktor Farcic s bestselling DevOps Toolkit series with a discussion of the difference between continuous delivery vs

continuous deployment and which is best for the userGuides readers through the continuous deployment process using Jenkins in a Kubernetes clusterProvides an overview of the best practices for building testing and deploying applications through fully automated pipelines Book Description Building on The DevOps 2 3 Toolkit Kubernetes Viktor Farcic brings his latest exploration of the Docker technology as he records his journey to continuously deploying applications with Jenkins into a Kubernetes cluster The DevOps 2 4 Toolkit Continuously Deploying Applications with Jenkins to a Kubernetes Cluster is the latest book in Viktor Farcic s series that helps you build a full DevOps Toolkit This book guides readers through the process of building testing and deploying applications through fully automated pipelines Within this book Viktor will cover a wide range of emerging topics including an exploration of continuous delivery and deployment in Kubernetes using Jenkins It also shows readers how to perform continuous integration inside these clusters and discusses the distribution of Kubernetes applications as well as installing and setting up Jenkins Work with Viktor and dive into the creation of self adaptive and self healing systems within Docker What you will learnGain an understanding of continuous deploymentLearn how to build test and deploy applications into KubernetesExecute continuous integration inside containersWho this book is for Readers with an intermediate level understanding of Kubernetes and hands on experience **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 *Testing Java Microservices* Jason Porter,Alex Soto,Andrew Gumbrecht,2018-08-03 Summary Testing Java Microservices teaches you to implement unit and integration tests for microservice systems running on the JVM You ll work with a microservice environment built using Java EE WildFly Swarm and Docker You ll learn how to increase your test coverage and productivity and gain confidence that your system will work as you expect Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Microservice applications present special testing challenges Even simple services need to handle unpredictable loads and distributed message based designs pose unique security and performance concerns These challenges increase when you throw in asynchronous communication and containers About the Book Testing Java Microservices teaches you to implement unit and integration tests for microservice systems running on the JVM You ll work with a microservice environment built using Java EE WildFly Swarm and Docker You ll advance from writing simple unit tests for individual services to more advanced practices like chaos or integration tests As you move towards a continuous delivery pipeline you ll also master live system testing using technologies like the Arquillian Wiremock and Mockito frameworks along with techniques like contract testing and over the wire service virtualization Master these microservice specific practices and tools and you ll greatly increase your test coverage and productivity and gain confidence that your system will work as you expect What s Inside Test automation Integration testing microservice systems Testing container centric systems Service virtualization About the Reader Written for Java developers familiar with Java EE EE4J Spring or Spring Boot About the Authors Alex Soto Bueno and Jason Porter are Arquillian team members Andy Gumbrecht is an Apache TomEE developer and PMC They all have extensive enterprise testing experience Table of Contents An introduction to microservices Application under test Unit testing microservices Component testing microservices Integration testing microservices Contract tests End to end testing Docker and testing Service virtualization Continuous delivery in microservices *Quarkus Cookbook* Alex Soto Bueno,Jason Porter,2020-07-14 Optimized for Kubernetes Quarkus is designed to help you create Java applications that are cloud first container native and serverless capable With this cookbook authors Alex Soto Bueno and Jason Porter from Red Hat provide detailed solutions for installing interacting with and using Quarkus in the development and production of microservices The recipes in this book show midlevel to senior developers familiar with Java enterprise application development how to get started with Quarkus quickly You ll become

familiar with how Quarkus works within the wider Java ecosystem and discover ways to adapt this framework to your particular needs You ll learn how to Shorten the development cycle by enabling live reloading in dev mode Connect to and communicate with Kafka Develop with the reactive programming model Easily add fault tolerance to your services Build your application as a Kubernetes ready container Ease development with OpenAPI and test a native Quarkus application

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