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# Spring Microservices In Action By Carnell John

**Thomas Vitale**



## **Spring Microservices In Action By Carnell John:**

Spring Microservices in Action John Carnell, Kalpit Patel, 2017-06-11 Summary Spring Microservices in Action teaches you how to build microservice based applications using Java and the Spring platform Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Microservices break up your code into small distributed and independent services that require careful forethought and design Fortunately Spring Boot and Spring Cloud simplify your microservice applications just as the Spring Framework simplifies enterprise Java development Spring Boot removes the boilerplate code involved with writing a REST based service Spring Cloud provides a suite of tools for the discovery routing and deployment of microservices to the enterprise and the cloud About the Book Spring Microservices in Action teaches you how to build microservice based applications using Java and the Spring platform You ll learn to do microservice design as you build and deploy your first Spring Cloud application Throughout the book carefully selected real life examples expose microservice based patterns for configuring routing scaling and deploying your services You ll see how Spring s intuitive tooling can help augment and refactor existing applications with micro services What s Inside Core microservice design principles Managing configuration with Spring Cloud Config Client side resiliency with Spring Hystrix and Ribbon Intelligent routing using Netflix Zuul Deploying Spring Cloud applications About the Reader This book is written for developers with Java and Spring experience About the Author John Carnell is a senior cloud engineer with twenty years of experience in Java Table of contents Welcome to the cloud Spring Building microservices with Spring Boot Controlling your configuration with Spring Cloud configuration server On service discovery When bad things happen client resiliency patterns with Spring Cloud and Netflix Hystrix Service routing with Spring Cloud and Zuul Securing your microservices Event driven architecture with Spring Cloud Stream Distributed tracing with Spring Cloud Sleuth and Zipkin Deploying your microservices

**Spring Microservices in Action, Second Edition** John Carnell, Illary Sanchez, 2021-06-08 Spring Microservices in Action Second Edition teaches you to build microservice based applications using Java and Spring Summary By dividing large applications into separate self contained units Microservices are a great step toward reducing complexity and increasing flexibility Spring Microservices in Action Second Edition teaches you how to build microservice based applications using Java and the Spring platform This second edition is fully updated for the latest version of Spring with expanded coverage of API routing with Spring Cloud Gateway logging with the ELK stack metrics with Prometheus and Grafana security with the Hashicorp Vault and modern deployment practices with Kubernetes and Istio Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Building and deploying microservices can be easy in Spring Libraries like Spring Boot Spring Cloud and Spring Cloud Gateway reduce the boilerplate code in REST based services They provide an effective toolbox to get your microservices up and running on both public and private clouds About the book Spring Microservices in Action Second

Edition teaches you to build microservice based applications using Java and Spring You'll start by creating basic services then move to efficient logging and monitoring Learn to refactor Java applications with Spring's intuitive tooling and master API management with Spring Cloud Gateway You'll even deploy Spring Cloud applications with AWS and Kubernetes What's inside Microservice design principles and best practices Configuration with Spring Cloud Config and Hashicorp Vault Client side resiliency with Resilience4j and Spring Cloud Load Balancer Metrics monitoring with Prometheus and Grafana Distributed tracing with Spring Cloud Sleuth Zipkin and ELK Stack About the reader For experienced Java and Spring developers About the author John Carnell is a senior cloud engineer with 20 years of Java experience Illary Huaylupo Sanchez is a software engineer with over 13 years of experience

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[Quarkus in Action](#) Martin Štefanko, 2025-02-25 Build resilient and scalable cloud native enterprise Java applications using the Quarkus framework Quarkus lets you live reload your Java code deliver continuous background testing and automatically provide database instances plus tons more productivity boosting features Quarkus in Action quickly gets you up to speed with Quarkus by building a real world business application In Quarkus in Action you will Use Quarkus Dev mode to speed up and enhance Java development Understand how to use the Dev UI to observe and troubleshoot running applications Automatic background testing using the Continuous Testing feature New frameworks and libraries such as Quarkus Messaging gRPC and GraphQL Simplify deployment of applications into Kubernetes and OpenShift Automatic management of remote services such as databases and message brokers via Docker containers Set up observability for applications by using metrics health checks and distributed tracing Quarkus in Action is written by Martin Štefanko and Jan Marti ka Red Hat engineers who are both active contributors to the Quarkus project In it you'll learn how Quarkus works and how you can integrate it into your stack for more productive Java development Discover what makes Quarkus different from classic enterprise Java frameworks how Quarkus streamlines creating cloud native applications and makes deployment easy Foreword by Markus Eisele About the technology Choose a Java framework that's as modern as your applications Quarkus is a cloud first framework designed for speed and cost optimization It's Kubernetes aware by default and includes amazing productivity features like live reloading continuous testing and a developer friendly UI that lets you code fluidly without tedious setup About the book Quarkus in Action provides a carefully designed learning path through Quarkus key features and use cases You'll learn hands on by implementing a working car rental application with a cloud native microservices design that includes Kubernetes SQL and NoSQL databases messaging and observability Along the way

you'll learn how Quarkus simplifies deployment on cloud platforms like OpenShift What's inside Speed up development with Quarkus Dev mode Troubleshoot running apps with Dev UI Continuous testing in the background Automatic startup of development databases About the reader For intermediate Java developers who have experience developing server side Java applications About the author Martin Stefanko and Jan Martiska are Red Hat engineers and active contributors to the Quarkus project Table of Contents Part 1 1 What is Quarkus 2 Your first Quarkus application 3 Enhancing developer productivity with Quarkus Part 2 4 Handling communications 5 Testing Quarkus applications 6 Exposing and securing web applications 7 Database access 8 Reactive programming 9 Quarkus messaging Part 3 10 Cloud native application patterns 11 Quarkus applications in the cloud 12 Custom Quarkus extensions A Alternative languages and build tooling B Tools installations C Alternatives for developing frontend applications with Quarkus

**Kafka Streams in Action, Second Edition** Bill Bejeck, 2024-06-11 Everything you need to implement stream processing on Apache Kafka using Kafka Streams and the ksqlDB event streaming database Kafka Streams in Action Second Edition guides you through setting up and maintaining your streaming processing with Kafka Inside you'll find comprehensive coverage of not only Kafka Streams but the entire toolbox you'll need for effective streaming from the components of the Kafka ecosystem to Producer and Consumer clients Connect and Schema Registry In Kafka Streams in Action Second Edition you'll learn how to Design streaming applications in Kafka Streams with the KStream and the Processor API Integrate external systems with Kafka Connect Enforce data compatibility with Schema Registry Build applications that respond immediately to events in either Kafka Streams or ksqlDB Craft materialized views over streams with ksqlDB This totally revised new edition of Kafka Streams in Action has been expanded to cover more of the Kafka platform used for building event based applications You'll also find full coverage of ksqlDB an event streaming database that makes it a snap to create applications that respond immediately to events such as real time push and pull updates Foreword by Jun Rao About the technology Enterprise applications need to handle thousands even millions of data events every day With an intuitive API and flawless reliability the lightweight Kafka Streams library has earned a spot at the center of these systems Kafka Streams provides exactly the power and simplicity you need to manage real time event processing or microservices messaging About the book Kafka Streams in Action Second Edition teaches you how to create event streaming applications on the amazing Apache Kafka platform This thoroughly revised new edition now covers a wider range of streaming architectures and includes data integration with Kafka Connect As you go you'll explore real world examples that introduce components and brokers schema management and the other essentials Along the way you'll pick up practical techniques for blending Kafka with Spring low level control of processors and state stores storing event data with ksqlDB and testing streaming applications What's inside Design efficient streaming applications Integrate external systems with Kafka Connect Enforce data compatibility with Schema Registry About the reader For Java developers No knowledge of Kafka or streaming applications required About the author Bill Bejeck is a Confluent engineer and a Kafka

Streams contributor with over 15 years of software development experience Bill is also a committer on the Apache Kafka project Table of Contents PART 1 1 Welcome to the Kafka event streaming platform 2 Kafka brokers PART 2 3 Schema Registry 4 Kafka clients 5 Kafka ConnectPART 3 6 Developing Kafka Streams 7 Streams and state 8 The KTable API 9 Windowing and timestamps 10 The Processor API 11 ksqlDB 12 Spring kafka 13 Kafka Streams Interactive Queries 14 Testing [Linux Commands, C, C++, Java and Python Exercises For Beginners](#) Manjunath.R,2020-03-27 Hands On Practice for Learning Linux and Programming Languages from Scratch Are you new to Linux and programming Do you want to learn Linux commands and programming languages like C C Java and Python but don t know where to start Look no further An approachable manual for new and experienced programmers that introduces the programming languages C C Java and Python This book is for all programmers whether you are a novice or an experienced pro It is designed for an introductory course that provides beginning engineering and computer science students with a solid foundation in the fundamental concepts of computer programming In this comprehensive guide you will learn the essential Linux commands that every beginner should know as well as gain practical experience with programming exercises in C C Java and Python It also offers valuable perspectives on important computing concepts through the development of programming and problem solving skills using the languages C C Java and Python The beginner will find its carefully paced exercises especially helpful Of course those who are already familiar with programming are likely to derive more benefits from this book After reading this book you will find yourself at a moderate level of expertise in C C Java and Python from which you can take yourself to the next levels The command line interface is one of the nearly all well built trademarks of Linux There exists an ocean of Linux commands permitting you to do nearly everything you can be under the impression of doing on your Linux operating system However this at the end of time creates a problem because of all of so copious commands accessible to manage you don t comprehend where and at which point to fly and learn them especially when you are a learner If you are facing this problem and are peering for a painless method to begin your command line journey in Linux you ve come to the right place as in this book we will launch you to a hold of well liked and helpful Linux commands This book gives a thorough introduction to the C C Java and Python programming languages covering everything from fundamentals to advanced concepts It also includes various exercises that let you put what you learn to use in the real world With step by step instructions and plenty of examples you ll build your knowledge and confidence in Linux and programming as you progress through the exercises By the end of the book you ll have a solid foundation in Linux commands and programming concepts allowing you to take your skills to the next level Whether you re a student aspiring programmer or curious hobbyist this book is the perfect resource to start your journey into the exciting world of Linux and programming **Hands-On Java: Practical Exercises for Programmers** Manjunath.R,2024-06-26 Are you ready to master Java programming through hands on practice Dive into the world of Java with Hands On Java Practical Exercises for Programmers a comprehensive guide designed to elevate your skills

through a series of engaging exercises This book is tailored for programmers at all levels whether you re just starting your journey in Java or looking to enhance your proficiency Each exercise is thoughtfully designed to encompass fundamental Java concepts spanning from foundational syntax to advanced topics By working through these exercises you will not only strengthen your understanding of Java but also gain practical experience in solving real world programming challenges

**Mastering the Interview: 80 Essential Questions for Software Engineers** Manjunath.R,2023-05-19 The Software Engineer s Guide to Acing Interviews Software Interview Questions You ll Most Likely Be Asked Mastering the Interview 80 Essential Questions for Software Engineers is a comprehensive guide designed to help software engineers excel in job interviews and secure their dream positions in the highly competitive tech industry This book is an invaluable resource for both entry level and experienced software engineers who want to master the art of interview preparation This book provides a carefully curated selection of 80 essential questions that are commonly asked during software engineering interviews Each question is thoughtfully crafted to assess the candidate s technical knowledge problem solving abilities and overall suitability for the role This book goes beyond just providing a list of questions It offers in depth explanations detailed sample answers and insightful tips on how to approach each question with confidence and clarity The goal is to equip software engineers with the skills and knowledge necessary to impress interviewers and stand out from the competition Mastering the Interview 80 Essential Questions for Software Engineers is an indispensable guide that empowers software engineers to navigate the interview process with confidence enhance their technical prowess and secure the job offers they desire Whether you are a seasoned professional or a recent graduate this book will significantly improve your chances of acing software engineering interviews and advancing your career in the ever evolving world of technology [Spring Start Here](#) Laurentiu Spilca,2021-11-09 Quickly master the massive Spring ecosystem with this focused hands on guide that teaches you exactly what you need to know In Spring Start Here you will learn how to Build web applications with Spring Manage application objects with Spring context Implement data persistence using data sources and transactions Implement data exchange between applications using REST services Utilize Spring Boot s convention over configuration approach Write unit and integration tests for apps implemented with Spring Minimize work when building any kind of app Persisting data in a Spring application using the latest approach Spring Start Here introduces you to Java development with Spring by concentrating on the core concepts you ll use in every application you build You ll learn how to refactor an existing application to Spring how to use Spring tools to make SQL database requests and REST calls and how to secure your projects with Spring Security There s always more to learn and this book will make your next steps much easier Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology For Java developers Spring is the must learn framework This incredible development tool powers everything from small business ecommerce applications to enterprise scale microservices Mastering Spring is a long journey Taking your first step is easy Start here About the book

Spring Start Here teaches Java developers how to build applications using Spring framework Informative graphics relevant examples and author Laurentiu Spilca s clear and lively writing make it easy to pick up the skills you need You ll discover how to plan write and test applications And by concentrating on the most important features this no nonsense book gives you a firm foundation for exploring Spring s rich ecosystem What s inside Build web applications with Spring Minimize repetition and manual work Persisting data in a Spring application HTTP and REST based web services Testing your Spring implementations About the reader For readers with beginning to intermediate Java skills About the author Lauren iu Spilca is a skilled Java and Spring developer and an experienced technology instructor Table of Contents PART 1 FUNDAMENTALS 1 Spring in the real world 2 The Spring context Defining beans 3 The Spring context Wiring beans 4 The Spring context Using abstractions 5 The Spring context Bean scopes and life cycle 6 Using aspects with Spring AOP PART 2 IMPLEMENTATION 7 Understanding Spring Boot and Spring MVC 8 Implementing web apps with Spring Boot and Spring MVC 9 Using the Spring web scopes 10 Implementing REST services 11 Consuming REST endpoints 12 Using data sources in Spring apps 13 Using transactions in Spring apps 14 Implementing data persistence with Spring Data 15 Testing your Spring app

**Cloud Native Spring in Action** Thomas Vitale,2023-02-14 Build and deliver production grade cloud native apps with Spring framework and Kubernetes In Cloud Native Spring in Action you ll learn Cloud native best practices and design patterns Build and test cloud native apps with Spring Boot and Spring Cloud Handle security resilience and scalability in imperative and reactive applications Configure deploy and observe applications on Kubernetes Continuous delivery and GitOps to streamline your software lifecycle Cloud Native Spring in Action is a practical guide to building applications that are designed for cloud environments You ll learn effective Spring and Kubernetes cloud development techniques that you can immediately apply to enterprise grade applications Follow a detailed and complete cloud native system from first concept right through to production and deployment learning best practices design patterns and little known tips and tricks for pain free cloud native development Including coverage of security continuous delivery and configuration this hands on guide is the perfect primer for navigating the increasingly complex cloud landscape About the technology Do you want to learn how to build scalable resilient and observable Spring applications that take full advantage of the cloud computing model If so Cloud Native Spring in Action is the book for you It will teach you the essential techniques and practices you need to build efficient Spring Boot applications ready for production in the cloud About the book In Cloud Native Spring in Action you ll learn how to containerize your Spring Boot applications with Cloud Native Buildpacks and deploy them on Kubernetes This practical guide delivers unique insights into hosting microservices serverless applications and other modern architectures on cloud platforms You ll learn how to use Spring based methodologies practices and patterns that you won t find anywhere else What s inside Implement cloud native patterns with Spring Handle security resilience and scalability Build and test imperative and reactive applications Configuration and observability on Kubernetes Adopt continuous delivery and GitOps About the reader

For intermediate Java developers About the author Thomas Vitale is a software engineer open source contributor and international conference speaker Table of Contents PART 1 CLOUD NATIVE FUNDAMENTALS 1 Introduction to cloud native 2 Cloud native patterns and technologies PART 2 CLOUD NATIVE DEVELOPMENT 3 Getting started with cloud native development 4 Externalized configuration management 5 Persisting and managing data in the cloud 6 Containerizing Spring Boot 7 Kubernetes fundamentals for Spring Boot PART 3 CLOUD NATIVE DISTRIBUTED SYSTEMS 8 Reactive Spring Resilience and scalability 9 API gateway and circuit breakers 10 Event driven applications and functions 11 Security Authentication and SPA 12 Security Authorization and auditing [Microservices in Action](#) Morgan Bruce,Paulo A Pereira,2018-10-03 The one and only book on implementing microservices with a real world cover to cover example you can relate to Christian Bach Swiss Re Microservices in Action is a practical book about building and deploying microservice based applications Written for developers and architects with a solid grasp of service oriented development it tackles the challenge of putting microservices into production Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Invest your time in designing great applications improving infrastructure and making the most out of your dev teams Microservices are easier to write scale and maintain than traditional enterprise applications because they re built as a system of independent components Master a few important new patterns and processes and you ll be ready to develop deploy and run production quality microservices About the Book Microservices in Action teaches you how to write and maintain microservice based applications Created with day to day development in mind this informative guide immerses you in real world use cases from design to deployment You ll discover how microservices enable an efficient continuous delivery pipeline and explore examples using Kubernetes Docker and Google Container Engine What s inside An overview of microservice architecture Building a delivery pipeline Best practices for designing multi service transactions and queries Deploying with containers Monitoring your microservices About the Reader Written for intermediate developers familiar with enterprise architecture and cloud platforms like AWS and GCP About the Author Morgan Bruce and Paulo A Pereira are experienced engineering leaders They work daily with microservices in a production environment using the techniques detailed in this book Table of Contents Designing and running microservices Microservices at SimpleBank Architecture of a microservice application Designing new features Transactions and queries in microservices Designing reliable services Building a reusable microservice framework Deploying microservices Deployment with containers and schedulers Building a delivery pipeline for microservices Building a monitoring system Using logs and traces to understand behavior Building microservice teams PART 1 The lay of the land PART 2 Design PART 3 Deployment PART 4 Observability and ownership [Spring: Microservices with Spring Boot](#) Ranga Rao Karanam,2018-03-14 Unlock the power of Spring Boot to build and deploy production ready microservices Key Features Get to know the advanced features of Spring Boot in order to develop and monitor applications Use Spring cloud to deploy

and manage microservices on the cloud Look at embedded servers and deploy a test application to a PaaS Cloud platform Embedded with assessments that will help you revise the concepts you have learned in this book Book Description Microservices helps in decomposing applications into small services and move away from a single monolithic artifact It helps in building systems that are scalable flexible and high resilient Spring Boot helps in building REST oriented production grade microservices This book is a quick learning guide on how to build monitor and deploy microservices with Spring Boot You ll be first familiarized with Spring Boot before delving into building microservices You will learn how to document your microservice with the help of Spring REST docs and Swagger documentation You will then learn how to secure your microservice with Spring Security and OAuth2 You will deploy your app using a self contained HTTP server and also learn to monitor a microservice with the help of Spring Boot actuator This book is ideal for Java developers who knows the basics of Spring programming and want to build microservices with Spring Boot This book is embedded with useful assessments that will help you revise the concepts you have learned in this book What you will learn Use Spring Initializr to create a basic spring project Build a basic microservice with Spring Boot Implement caching and exception handling Secure your microservice with Spring security and OAuth2 Deploy microservices using self contained HTTP server Monitor your microservices with Spring Boot actuator Learn to develop more effectively with developer tools Who this book is for This book is aimed at Java developers who knows the basics of Spring programming and want to build microservices with Spring Boot

**Microservices with Spring Boot and Spring Cloud** Magnus Larsson,2021-07-29 A step by step guide to creating and deploying production quality microservices based applications Key FeaturesBuild cloud native production ready microservices with this comprehensively updated guideUnderstand the challenges of building large scale microservice architecturesLearn how to get the best out of Spring Cloud Kubernetes and Istio in combinationBook Description With this book you ll learn how to efficiently build and deploy microservices This new edition has been updated for the most recent versions of Spring Java Kubernetes and Istio demonstrating faster and simpler handling of Spring Boot local Kubernetes clusters and Istio installation The expanded scope includes native compilation of Spring based microservices support for Mac and Windows with WSL2 and an introduction to Helm 3 for packaging and deployment A revamped security chapter now follows the OAuth 2.1 specification and makes use of the newly launched Spring Authorization Server from the Spring team Starting with a set of simple cooperating microservices you ll add persistence and resilience make your microservices reactive and document their APIs using OpenAPI You ll understand how fundamental design patterns are applied to add important functionality such as service discovery with Netflix Eureka and edge servers with Spring Cloud Gateway You ll learn how to deploy your microservices using Kubernetes and adopt Istio You ll explore centralized log management using the Elasticsearch Fluentd and Kibana EFK stack and monitor microservices using Prometheus and Grafana By the end of this book you ll be confident in building microservices that are scalable and robust using Spring Boot and Spring Cloud What you

will learn Build reactive microservices using Spring Boot Develop resilient and scalable microservices using Spring Cloud Use OAuth 2.1, OIDC and Spring Security to protect public APIs Implement Docker to bridge the gap between development testing and production Deploy and manage microservices with Kubernetes Apply Istio for improved security observability and traffic management Write and run automated microservice tests with JUnit, testcontainers, Gradle and bash Who this book is for If you are a Java or Spring Boot developer who wants to learn how to build microservice landscapes from scratch this book is for you No familiarity with microservices architecture is required [Spring 5.0 Microservices](#) Rajesh R V, 2017-07-13 A practical, comprehensive and user friendly approach to building microservices in Spring About This Book Update existing applications to integrate reactive streams released as a part of Spring 5.0 Learn how to use Docker and Mesos to push the boundaries and build successful microservices Upgrade the capability model to implement scalable microservices Who This Book Is For This book is ideal for Spring developers who want to build cloud ready Internet scale applications and simple RESTful services to meet modern business demands What You Will Learn Familiarize yourself with the microservices architecture and its benefits Find out how to avoid common challenges and pitfalls while developing microservices Use Spring Boot and Spring Cloud to develop microservices Handle logging and monitoring microservices Leverage Reactive Programming in Spring 5.0 to build modern cloud native applications Manage internet scale microservices using Docker, Mesos and Marathon Gain insights into the latest inclusion of Reactive Streams in Spring and make applications more resilient and scalable In Detail The Spring Framework is an application framework and inversion of the control container for the Java platform The framework's core features can be used by any Java application but there are extensions to build web applications on top of the Java EE platform This book will help you implement the microservice architecture in Spring Framework, Spring Boot and Spring Cloud Written to the latest specifications of Spring that focuses on Reactive Programming you'll be able to build modern internet scale Java applications in no time The book starts off with guidelines to implement responsive microservices at scale Next you will understand how Spring Boot is used to deploy serverless autonomous services by removing the need to have a heavyweight application server Later you'll learn how to go further by deploying your microservices to Docker and managing them with Mesos By the end of the book you will have gained more clarity on the implementation of microservices using Spring Framework and will be able to use them in internet scale deployments through real world examples Style and approach The book takes a step by step approach on developing microservices using Spring Framework, Spring Boot and a set of Spring Cloud components that will help you scale your applications **Hands-On Microservices with Spring Boot and Spring Cloud** Magnus Larsson, 2019-09-20 Apply microservices patterns to build resilient and scalable distributed systems Key Features Understand the challenges of building large scale microservice landscapes Build cloud native production ready microservices with this comprehensive guide Discover how to get the best out of Spring Cloud, Kubernetes and Istio when used together Book Description Microservices

architecture allows developers to build and maintain applications with ease and enterprises are rapidly adopting it to build software using Spring Boot as their default framework With this book you ll learn how to efficiently build and deploy microservices using Spring Boot This microservices book will take you through tried and tested approaches to building distributed systems and implementing microservices architecture in your organization Starting with a set of simple cooperating microservices developed using Spring Boot you ll learn how you can add functionalities such as persistence make your microservices reactive and describe their APIs using Swagger OpenAPI As you advance you ll understand how to add different services from Spring Cloud to your microservice system The book also demonstrates how to deploy your microservices using Kubernetes and manage them with Istio for improved security and traffic management Finally you ll explore centralized log management using the EFK stack and monitor microservices using Prometheus and Grafana By the end of this book you ll be able to build microservices that are scalable and robust using Spring Boot and Spring Cloud What you will learn Build reactive microservices using Spring Boot Develop resilient and scalable microservices using Spring Cloud Use OAuth 2 0 OIDC and Spring Security to protect public APIs Implement Docker to bridge the gap between development testing and production Deploy and manage microservices using Kubernetes Apply Istio for improved security observability and traffic management Who this book is for This book is for Java and Spring developers and architects who want to learn how to break up their existing monoliths into microservices and deploy them either on premises or in the cloud using Kubernetes as a container orchestrator and Istio as a service Mesh No familiarity with microservices architecture is required to get started with this book

**Hands-On Spring Security 5 for Reactive Applications** Tomcy John,2018-07-31 Secure your Java applications by integrating the Spring Security framework in your code Key Features Provide authentication authorization and other security features for Java applications Learn how to secure microservices cloud and serverless applications easily Understand the code behind the implementation of various security features Book Description Security is one of the most vital concerns for any organization The complexity of an application is compounded when you need to integrate security with existing code new technology and other frameworks This book will show you how to effectively write Java code that is robust and easy to maintain Hands On Spring Security 5 for Reactive Applications starts with the essential concepts of reactive programming Spring Framework and Spring Security You will then learn about a variety of authentication mechanisms and how to integrate them easily with the Spring MVC application You will also understand how to achieve authorization in a Spring WebFlux application using Spring Security You will be able to explore the security configurations required to achieve OAuth2 for securing REST APIs and integrate security in microservices and serverless applications This book will guide you in integrating add ons that will add value to any Spring Security module By the end of the book you will be proficient at integrating Spring Security in your Java applications What you will learn Understand how Spring Framework and Reactive application programming are connected Implement easy security configurations with Spring

Security expressions Discover the relationship between OAuth2 and OpenID Connect Secure microservices and serverless applications with Spring Integrate add ons such as HDIV Crypto Module and CORS support Apply Spring Security 5 features to enhance your Java reactive applications Who this book is for If you are a Java developer who wants to improve application security then this book is for you A basic understanding of Spring Spring Security framework and reactive applications is required to make the most of the book *Spring in Action, Sixth Edition* Craig Walls,2022-03 Spring in Action Sixth Edition is a comprehensive guide to Spring s core features all explained in Craig Walls famously clear style You ll put Spring into action as you build a complete database backed web app step by step This new edition covers both Spring fundamentals and new features such as reactive flows Kubernetes integration and RSocket Whether you re new to Spring or leveling up to Spring 5 3 make this classic bestseller your bible **Kubernetes Native Microservices with Quarkus and MicroProfile** John Clingan, Ken Finnigan,2022-03-01 Build fast efficient Kubernetes based Java applications using the Quarkus framework MicroProfile and Java standards In Kubernetes Native Microservices with Quarkus and MicroProfile you ll learn how to Deploy enterprise Java applications on Kubernetes Develop applications using the Quarkus runtime Compile natively using GraalVM for blazing speed Create efficient microservices applications Take advantage of MicroProfile specifications Popular Java frameworks like Spring were designed long before Kubernetes and the microservices revolution Kubernetes Native Microservices with Quarkus and MicroProfile introduces next generation tools that have been cloud native and Kubernetes aware right from the beginning Written by veteran Java developers John Clingan and Ken Finnigan this book shares expert insight into Quarkus and MicroProfile directly from contributors at Red Hat You ll learn how to utilize these modern tools to create efficient enterprise Java applications that are easy to deploy maintain and expand About the technology Build microservices efficiently with modern Kubernetes first tools Quarkus works naturally with containers and Kubernetes radically simplifying the development and deployment of microservices This powerful framework minimizes startup time and memory use accelerating performance and reducing hosting cost And because it s Java from the ground up it integrates seamlessly with your existing JVM codebase About the book Kubernetes Native Microservices with Quarkus and MicroProfile teaches you to build microservices using containers Kubernetes and the Quarkus framework You ll immediately start developing a deployable application using Quarkus and the MicroProfile APIs Then you ll explore the startup and runtime gains Quarkus delivers out of the box and also learn how to supercharge performance by compiling natively using GraalVM Along the way you ll see how to integrate a Quarkus application with Spring and pick up pro tips for monitoring and managing your microservices What s inside Deploy enterprise Java applications on Kubernetes Develop applications using the Quarkus runtime framework Compile natively using GraalVM for blazing speed Take advantage of MicroProfile specifications About the reader For intermediate Java developers comfortable with Java EE Jakarta EE or Spring Some experience with Docker and Kubernetes required About the author John Clingan is a senior principal product manager at Red

Hat where he works on enterprise Java standards and Quarkus Ken Finnigan is a senior principal software engineer at Workday previously at Red Hat working on Quarkus

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*Spring Boot in Action* Craig Walls, 2015-12-16

Summary

A developer focused guide to writing applications using Spring Boot

You'll learn how to bypass the tedious configuration steps so that you can concentrate on your application's behavior

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About the Technology

The Spring Framework simplifies enterprise Java development but it does require lots of tedious configuration work

Spring Boot radically streamlines spinning up a Spring application

You get automatic configuration and a model with established conventions for build time and runtime dependencies

You also get a handy command line interface you can use to write scripts in Groovy

Developers who use Spring Boot often say that they can't imagine going back to hand configuring their applications

About the Book

*Spring Boot in Action* is a developer focused guide to writing applications using Spring Boot

In it you'll learn how to bypass configuration steps so you can focus on your application's behavior

Spring expert Craig Walls uses interesting and practical examples to teach you both how to use the default settings effectively and how to override and customize Spring Boot for your unique environment

Along the way you'll pick up insights from Craig's years of Spring development experience

What's Inside

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Written for readers familiar with the Spring Framework

About the Author

Craig Walls is a software developer, author of the popular book *Spring in Action*, Fourth Edition, and a frequent speaker at conferences

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## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Spring Microservices In Action By Carnell John**

In a global inundated with screens and the cacophony of instant conversation, the profound energy and emotional resonance of verbal beauty often disappear into obscurity, eclipsed by the continuous onslaught of sound and distractions. However, located within the lyrical pages of **Spring Microservices In Action By Carnell John**, a charming perform of fictional splendor that pulses with organic thoughts, lies an remarkable journey waiting to be embarked upon. Composed by a virtuoso wordsmith, that magical opus courses visitors on a psychological odyssey, lightly exposing the latent possible and profound impact embedded within the complicated internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is main subjects, dissect its interesting writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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