Jens Boje

SPRING BOOT 2

How To Get Started and
Build a Microservice

Third edition

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Spring Boot 2 Jens Boje,2019-09-20 Sale Reg Price 19 99 From Zero Spring Experience to Building Your First Microservice with Spring Boot 2 Learn to build your first microservice with Spring Boot Together we will write a production ready microservice with a REST API in just a few hours All starting from having zero experience with Spring at all Revised and extended 3rd editionUpdate Using Spring Boot 2 1 8 RELEASE version Our guides give you brief lessons on a single topic to get you started in no time We leave the fluff out so you can focus and learn better and faster Stop wasting hours of your life watching video courses or reading boring compendiums Use our guide and save your precious time and be way ahead of your competitors on that next big project We build a real application less than 850 lines of code though using a standard Maven project structure together and I will explain you the steps and libraries involved on the go You must know Java You learn best by coding The way I love learning too And not by reading fluffy compendiums or watching 10 hours and more of videos Sure you can do that but any developer following my guide will be way ahead of you before you are even halfway through that video course What you will build We build a Microservice for storing comments and providing a REST Interface for interacting with the data The sample application is modeled after a real production application to guide you through building your first Spring Boot application What you will learn What problem the Spring Framework actually solves The basics of the Spring Framework aka Core How to build a microservice with Spring Boot 2 How to work with a relational database using the Spring Data JPA Framework How to write the REST API using Spring MVC How to create a service layer and integrate a legacy library using its own Spring ApplicationContext in an XML file How to test the application A simple way to secure your application How to use monitoring and health check out of the box with Spring Boot How to deploy your application How to navigate in the project with Maven You must have experience with Java as we are not covering Java basics Everything else we use is covered in the guide If you have questions do not hesitate to contact me using the email address at the end of the book I ll answer your questions and improve the book with your feedback Promised   Spring Boot Jens Boje,2017-01-27 R sum With an actionable and hands on approach this custom tailored resource gives you a head start in learning how to build microservices with Spring Boot by leading you step by step through the process   Spring Boot Jens Boje,2017-10-10 With an actionable and hands on approach this custom tailored resource gives you a head start in learning how to build microservices with Spring Boot by leading you step by step through the process   **Microservices Deployment Cookbook** Vikram Murugesan,2017-01-31 Master over 60 recipes to help you deliver complete scalable microservice based solutions and see the improved business results immediately About This Book Adopt microservices based architecture and deploy it at scale Build your complete microservice architecture using different recipes for different solutions Identify specific tools for specific scenarios and deliver immediate business results correlate use cases and adopt them in your team and organization Who This Book Is For This book is for developers ops and DevOps professionals who

would like to put microservices to work and improve products services and operations Those looking to build and deploy microservices will find this book useful as well as managers and people at CXO level looking to adopt microservices in their organization Prior knowledge of Java is expected No prior knowledge of microservices is assumed What You Will Learn Build microservices using Spring Boot Wildfly Swarm Dropwizard and SparkJava Containerize your microservice using Docker Deploy microservices using Mesos Marathon and Kubernetes Implement service discovery and load balancing using Zookeeper Consul and Nginx Monitor microservices using Graphite and Grafana Write stream programs with Kafka Streams and Spark Aggregate and manage logs using Kafka Get introduced to DC OS Docker Swarm and YARN In Detail This book will help any team or organization understand deploy and manage microservices at scale It is driven by a sample application helping you gradually build a complete microservice based ecosystem Rather than just focusing on writing a microservice this book addresses various other microservice related solutions deployments clustering load balancing logging streaming and monitoring The initial chapters offer insights into how web and enterprise apps can be migrated to scalable microservices Moving on you ll see how to Dockerize your application so that it is ready to be shipped and deployed We will look at how to deploy microservices on Mesos and Marathon and will also deploy microservices on Kubernetes Next you will implement service discovery and load balancing for your microservices We ll also show you how to build asynchronous streaming systems using Kafka Streams and Apache Spark Finally we wind up by aggregating your logs in Kafka creating your own metrics and monitoring the metrics for the microservice Style and approach This book follows a recipe driven approach and shows you how to plug and play with all the various pieces putting them together to build a complete scalable microservice ecosystem You do not need to study the chapters in order as you can directly refer to the content you need for your situation   Microservices for the Enterprise Kasun Indrasiri,Prabath Siriwardena,2018-11-14 Understand the key challenges and solutions around building microservices in the enterprise application environment This book provides a comprehensive understanding of microservices architectural principles and how to use microservices in real world scenarios Architectural challenges using microservices with service integration and API management are presented and you learn how to eliminate the use of centralized integration products such as the enterprise service bus ESB through the use of composite integration microservices Concepts in the book are supported with use cases and emphasis is put on the reality that most of you are implementing in a brownfield environment in which you must implement microservices alongside legacy applications with minimal disruption to your business Microservices for the Enterprise covers state of the art techniques around microservices messaging service development and description service discovery governance and data management technologies and guides you through the microservices design process Also included is the importance of organizing services as core versus atomic composite versus integration and API versus edge and how such organization helps to eliminate the use of a central ESB and expose services through an API gateway What You ll Learn Design and develop microservices

architectures with confidence Put into practice the most modern techniques around messaging technologies Apply the Service Mesh pattern to overcome inter service communication challenges Apply battle tested microservices security patterns to address real world scenarios Handle API management decentralized data management and observability Who This Book Is For Developers and DevOps engineers responsible for implementing applications around a microservices architecture and architects and analysts who are designing such systems **Kickstart Software Design Architecture: Transform Your Software Development Journey with Key Principles and Advanced Practices in Architecture, Microservices, and Cloud Computing** Dr. Edward,2024-09-17 Learn to design robust software systems using modern architecture principles and practical hands on experience Key Features Learn about fundamental software architecture concepts including design patterns microservices and cloud computing Bridge theory with practice through real world examples and case studies Gain expertise through an interactive and engaging learning approach featuring coding exercises and hands on opportunities Book DescriptionExplore the ever evolving world of software architecture Bridge the gap between emerging technologies and foundational principles with a comprehensive guide tailored for newcomers to the field The book highlights the significance of software architecture in building scalable efficient and robust applications The book is structured into engaging chapters each focused on a specific aspect of software architecture It starts with an introduction to the basics of software design patterns gaining an understanding of their role in crafting flexible and reusable code Next microservices are covered followed by chapters that focus on cloud computing containerization and more Chapters contain real world examples hands on exercises and case studies to help readers gain both foundational knowledge and hands on experience By the end of the book you should have a solid foundation in software architecture and be equipped with the knowledge and skills to confidently address complex software architectural challenges What you will learn Understand the essential principles and concepts of software architecture including key design considerations and methodologies Explore the principles of design patterns to create flexible reusable and maintainable code Learn about the impact of different programming languages on software architecture and development and how to choose the right language for your projects Gain insight into the microservices architecture its benefits challenges and best practices for implementation Table of Contents1 Introduction to Software Architecture 2 Principles of Design Patterns 3 Role of Programming Languages 4 Introduction to Microservices 5 Building Microservices with Spring Boot 6 Containerization with Docker 7 Fundamentals of Cloud Computing 8 Deploying in the Cloud 9 DevOps Practices 10 Version Control with Git 11 Designing for Scalability and Efficiency 12 Future Trends in Software Architecture Index Camel in Action Claus Ibsen,Jonathan Anstey,2018-02-02 Summary Camel in Action Second Edition is the most complete Camel book on the market Written by core developers of Camel and the authors of the highly acclaimed first edition this book distills their experience and practical insights so that you can tackle integration tasks like a pro Forewords by James Strachan and Dr Mark Little Purchase of the print book

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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   Full Stack Development with JHipster Deepu K. Sasidharan,Sendil Kumar N,2018 Discover the world of Full Stack Development with real world examples Key Features Leverage the full power of the JHipster platform to build complex web applications Create microservices from scratch and convert JHipster monolith apps into microservices Build and deploy applications locally in Docker and on various cloud platforms Book Description JHipster is a development platform to generate develop and deploy Spring Boot and Angular React applications and Spring microservices It provides you with a variety of tools that will help you quickly build modern web applications This book will be your guide to building full stack applications with Spring and Angular using the JHipster tool set You will begin by understanding what JHipster is and the various tools and technologies associated with it You will learn the essentials of a full stack developer before getting hands on and building a monolithic web application with JHipster From here you will learn the JHipster Domain Language with entity modeling and entity creation using JDL and JDL studio Moving on you will be introduced to client side technologies such as Angular and Bootstrap and will delve into technologies such as Spring Security Spring MVC and Spring Data You will learn to build and package apps for production with various deployment options such as Heroku and more During the course of the book you will be introduced to microservice server side technologies and how to break your monolithic application with a database of your choice Next the book takes you through cloud deployment with microservices on Docker and Kubernetes Going forward you will learn to build your client side with React and master JHipster best practices By the end of the book you will be able to leverage the power of the best

tools available to build modern web applications What you will learn Build business logic by creating and developing entity models us the JHipster Domain Language Customize web applications with Angular Bootstrap and Spring Tests and Continuous Integration with Jenkins Utilize the JHipster microservice stack which includes Netflix Eureka Spring Cloud config HashiCorp Consul and so on Understand advanced microservice concepts such as API rout load balancing rate limit circuit break centralized configuration server JWT authentication and more Run microservices locally using Docker and Kubernetes in production Who this book is for This book will appeal to developers who would like to build modern web applications quickly A basic knowledge of the Spring ecosystem would be an added advantage *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 DescriptionMicroservices 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 **Microservices with Spring Boot 3 and Spring Cloud** Magnus Larsson,2023-08-31 Create and deploy production grade microservices based applications with this latest edition updated to Spring Boot 3 Java 17 and Spring Cloud 2022 Purchase of the print or Kindle book includes a free PDF eBook Key Features Build cloud native production ready microservices and stay ahead of the curve Understand the

challenges of building large scale microservice architectures Learn how to get the best out of the latest updates including Spring Boot 3 Spring Cloud Kubernetes and Istio Book DescriptionLooking to build and deploy microservices but not sure where to start Check out Microservices with Spring Boot 3 and Spring Cloud Third Edition With a practical approach you ll begin with simple microservices and progress to complex distributed applications Learn essential functionality and deploy microservices using Kubernetes and Istio This book covers Java 17 Spring Boot 3 and Spring Cloud 2022 Java EE packages are replaced with the latest Jakarta EE packages Code examples are updated and deprecated APIs have been replaced providing the most up to date information Gain knowledge of Spring s AOT module observability distributed tracing and Helm 3 for Kubernetes packaging Start with Docker Compose to run microservices with databases and messaging services Progress to deploying microservices on Kubernetes with Istio Explore persistence resilience reactive microservices and API documentation with OpenAPI Learn service discovery with Netflix Eureka edge servers with Spring Cloud Gateway and monitoring with Prometheus Grafana and the EFK stack By the end you ll build scalable microservices 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 test containers Gradle and bash Use Spring AOT and GraalVM to native compile the microservices Use Micrometer Tracing for distributed tracing Who this book is forIf you re a Java or Spring Boot developer learning how to build microservice landscapes from scratch then this book is for you To get started you need some prior experience in building apps with Java or Spring Boot

    <u>Microservices with Spring Boot and Spring Cloud</u> Magnus Larsson,2025-08-11 2025 EDITION Create and deploy production grade microservices based applications with this edition fully updated to the latest versions of Spring Boot Java and Spring Cloud Key Features Build cloud native production ready microservices and stay ahead of the curve Understand the challenges of building large scale microservice architectures Learn how to get the best out of the latest updates including Java Spring Boot Spring Cloud Kubernetes and Istio Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionDo you want to build and deploy microservices but are unsure where to begin Check out the fully updated 2025 edition of Microservices with Spring Boot and Spring Cloud Drawing from Magnus decades of experience you ll start with simple microservices and progress to complex distributed applications learning essential functionality and deploying microservices using Kubernetes and Istio along the way This book covers Java 24 Spring Boot 3 5 and Spring Cloud 2025 featuring updated code examples and replacing deprecated APIs You ll get a clear understanding of Spring s Ahead of Time AOT module observability distributed tracing and Helm for Kubernetes packaging The chapters show you how to use Docker Compose to run microservices with databases and messaging services and deploy microservices on Kubernetes with Istio You

ll also explore persistence resilience reactive microservices and API documentation with OpenAPI as well as learn service discovery with Netflix Eureka edge servers with Spring Cloud Gateway and monitoring with Prometheus Grafana and the EFK stack By the end of this book you ll be able to confidently build scalable microservices 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 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 test containers Gradle and bash Use Spring AOT and GraalVM to compile your microservices into native executables Utilize Micrometer for distributed tracing Who this book is for If you re a Java or Spring Boot developer learning how to build microservice landscapes from scratch then this book is for you Prior experience in building apps with Java or Spring Boot will help you get started with this book **Spring Boot Intermediate Microservices** Jens Boje,2017-11-15 Resilience and fault tolerance are a must or your system will fall apart This book will teach you how to build a resilient microservice infrastructure using proven patterns with Spring Boot 2 and Spring Cloud Spring Boot and Single-Page Applications Jens Boje,2019-09-20 Sale Reg Price is 19 99 Learn to integrate your Spring Boot application with a single page application securely in an actionable and hands on approach within just a few hours In this custom tailored learning plan you get a head start and learn 4 commonly used ways to integrate your Spring Boot backend with your single page application and secure it Revised second editionIn just a few hours you will know how to implement 4 different types of integration and are ready to make better decisions when applying these principles in your context You ve been there and done that already while other developers are still wading through hundreds of pages of a fluffy compendium and still having no clue of how to solve the problem You learn best by coding The way I love learning too What you will build We ll put a single page application written in Angular 4 and Typescript as an Admin UI on top of the microservice built in my book Spring Boot How To Get Started and Build a Microservice However you do NOT need to know or own the other book We will extend it with a single operation which teaches how to implement Pagination and integrate it with a single page application securely in 4 different ways The focus is on the integration and security on the side of Spring Boot It works with any other Javascript framework too as the concepts are the same What you will learn How to secure your API in Spring Boot 2 1 8 Works with 1 5 too How to use pagination for huge lists in your API How to protect your API with basic auth How to use Cross Origin Resource Sharing CORS with Spring Boot How to implement JSON Web Tokens JWT in Spring Security How to use stateful authentication for your API and UI How to protect your application against Cross Site Request Forgery CSRF How to make better decission when to use which integration type This book is for you when you have a basic understanding of Spring Boot and want to add a UI on top when you are new to single page applications with Spring backends you read my Spring Boot starting book and want to continue learning It is

NOT for you if you like reading fluffy compendiums you have not worked with Spring Boot learn Spring Boot with my other book and come back you don t know the Java language at all And if you have questions do not hesitate to contact me using the email address at the end of the book I am glad to help **Building Microservices with Spring** Dinesh Rajput,Rajesh R V,2018-12-21 Learn and use the design patterns and best practices in Spring to solve common design problems and build user friendly microservices Key FeaturesStudy the benefits of using the right design pattern in your toolkitManage your code easily with Spring s dependency injection patternExplore the features of Docker and Mesos to build successful microservicesBook Description Getting Started with Spring Microservices begins with an overview of the Spring Framework 5 0 its design patterns and its guidelines that enable you to implement responsive microservices at scale You will learn how to use GoF patterns in application design You will understand the dependency injection pattern which is the main principle behind the decoupling process of the Spring Framework and makes it easier to manage your code Then you will learn how to use proxy patterns in aspect oriented programming and remoting Moving on you will understand the JDBC template patterns and their use in abstracting database access After understanding the basics you will move on to more advanced topics such as reactive streams and concurrency Written to the latest specifications of Spring that focuses on Reactive Programming the Learning Path teaches you how to build modern internet scale Java applications in no time Next you will understand how Spring Boot is used to deploying serverless autonomous services by removing the need to have a heavyweight application server You ll also explore ways to deploy your microservices to Docker and managing them with Mesos By the end of this Learning Path you will have the clarity and confidence for implementing microservices using Spring Framework This Learning Path includes content from the following Packt products Spring 5 Microservices by Rajesh R V Spring 5 Design Patterns by Dinesh RajputWhat you will learnDevelop applications using dependency injection patternsBuild web applications using traditional Spring MVC patternsUtilize the reactive programming pattern to build reactive web appsLearn concurrency and handle multiple connections inside a web serverUse Spring Boot and Spring Cloud to develop microservicesLeverage reactive programming to build cloud native applicationsWho this book is for Getting Started with Spring Microservices is ideal for Spring developers who want to use design patterns to solve common design problems and build cloud ready Internet scale applications and simple RESTful services 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 learnBuild reactive microservices using Spring BootDevelop resilient and scalable microservices using Spring CloudUse OAuth 2 1 OIDC and Spring Security to protect public APIsImplement Docker to bridge the gap between development testing and productionDeploy and manage microservices with KubernetesApply Istio for improved security observability and traffic managementWrite and run automated microservice tests with JUnit testcontainers Gradle and bashWho 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   **Building Microservices with Spring** Kevin Bowersox,2017 Spring expert Kevin Bowersox offers a clear and practical path to building and deploying microservices in this detailed look at the Spring software components used to create those systems This is a hands on course designed for intermediate level Java developers You ll review the meaning of microservice architecture and distributed systems learn the basics of using Spring Boot and Spring Cloud learn to use the Spring based toolsets for service discovery service registry routing load balancing and fault tolerance see how Spring Cloud makes it easier to access Netflix components and build a small scale microservices project of your own Resource description page   Building Microservices with Spring Boot Engin Yöyen,2016-03 This book is designed to give you the complete picture of how you can build microservices with Spring Boot Existing book regarding microservice are helpful to grasp to concepts but there are no practical examples of how to accomplish it The objective of the book is to use Spring and Spring Boot to show practical approaches as well a reference guide to Spring Boot The way we build software has changed dramatically The word cloud is everywhere Most software companies are either using available providers such as AWS Joyent Rackspace or trying to build their own private cloud The tendency of building big massive software is also changing now the trend is to build smaller software which does one thing and it does it well It is called microservices a small discrete isolated stateless lightweight application that can be deployed separately from other services that depend on it The architectural style which refers to an approach to structuring a single software application as a group of small services each running in its own process and communicating with lightweight mechanisms Spring as a mature framework does provide most of the necessary

modules to accomplish what is needed to build a microservice architecture So as a developer you can add necessary modules wire it via dependency injection and start using it without changing the context With Spring you can connect relational or NoSQL datastore work with AMQP build your authentication and authorization use configuration management circuit breakers intelligent routing etc Most of the technologies you may need for developing microservices are provided via Spring The book will cover topics such as essentials Spring Boot HTTP programming Spring Cloud Config Service Discovery Client Side Load Balancing Distributed Messaging Asynchronous HTTP programming Routing API Gateways etc

The Enigmatic Realm of **Spring Boot How To Get Started And Build A Microservice**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Spring Boot How To Get Started And Build A Microservice** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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