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progress you'll understand how it helps streamline application development while staying ahead of technology trends. The book helps you grasp concepts effectively, explores basic REST APIs, shows you how to escalate to advanced scenarios, and tackle common cloud application challenges like security, scalability, performance optimization, and automated deployments. Dedicated sections are designed to help you stay ahead of the curve with recipes that delve into the latest trends such as containers, observability, native images, DevOps, test automation, and microservices, ensuring your applications align with evolving industry standards. By the end of this book, you'll be able to build and automate the deployment of a scalable and high-performing distributed solution using Spring Boot 3. What you will learn: Develop production-grade distributed applications; Use various data repositories including relational and NoSQL databases; Implement modern testing techniques across different levels of application development; Leveraging Testcontainers to validate all integration scenarios; Integrate with services like Redis, PostgreSQL, MongoDB, and RabbitMQ; Authenticate through OpenID providers; Facilitate smooth migration from earlier Spring Boot versions. Who this book is for: This book is for Java developers who want to gain expertise in modern web development, architects designing complex systems, experienced Spring Boot developers and technology enthusiasts looking to stay up to date with the latest trends, and software engineers in need of practical solutions for everyday challenges. Hands-on experience with Java or Kotlin is required. Prior development experience on the cloud will be useful but not necessary.

Spring Boot Cookbook Alex Antonov, 2015-09-28. Over 35 recipes to help you build, test, and run Spring applications using Spring Boot. About This Book: Learn to create different types of Spring Boot applications; configure behavior and add custom components; Become more efficient in testing, deploying, and monitoring Spring Boot-based applications. This is a practical guide that will help Spring developers to develop and deploy applications using Spring Boot. Who This Book Is For: If you are a Spring Developer who has good knowledge level and understanding of Spring Boot and application development and now want to learn efficient Spring Boot development techniques in order to make the existing development process more efficient, then this book is for you. What You Will Learn: Create Spring Boot applications from scratch; Configure and tune web applications and containers; Create custom Spring Boot auto-configurations and starters; Use Spring Boot Test framework with JUnit, Cucumber, and Spock; Configure and tune web applications and containers; Deploy Spring Boot as self-starting executables and Docker containers; Monitor data using DropWizard, Graphite, and Dashing. In Detail: Spring Boot is Spring's convention-over-configuration solution. This feature makes it easy to create Spring applications and services with absolute minimum fuss. Spring Boot has the great ability to be customized and enhanced and is specifically designed to simplify development of a new Spring application. This book will provide many detailed insights about the inner workings of Spring Boot as well as tips and recipes to integrate the third-party frameworks and components needed to build complex enterprise-scale applications. The book starts with an overview of the important and useful Spring Boot starters that are included in the framework and teaches you to create and add custom Servlet Filters.

Interceptors Converters Formatters and PropertyEditors to a Spring Boot web application Next it will cover configuring custom routing rules and patterns adding additional static asset paths and adding and modifying servlet container connectors and other properties such as enabling SSL Moving on the book will teach you how to create custom Spring Boot Starters and explore different techniques to test Spring Boot applications Next the book will show you examples of configuring your build to produce Docker images and self executing binary files for Linux OSX environments Finally the book will teach you how to create custom health indicators and access monitoring data via HTTP and JMX Style and approach This book is a cohesive collection of recipes that provide developers with a set of connected guidelines on how to build configure and customize their application starting from the design and development stages all the way through testing deployment and production monitoring

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Spring Boot 2.0 Cookbook - Second Edition Alex Antonov, 2018 Take your application development skills to the next level by implementing Spring Boot features effectively About This Book This collection of effective recipes serves as guidelines for Spring Boot application development Get up to date with features of the latest version of Spring Boot 2.0 Tips and tricks to improve your efficiency through the stages of software development Who This Book Is For This book is for Java Developers who have good knowledge and understanding of Spring and Java application development What You Will Learn Get to know Spring Boot Starters and create custom auto configurations Work with custom annotations that enable bean activation Use DevTools to easily develop and debug applications Learn the effective testing techniques by integrating Cucumber and Spock Observe an external application configuration using Consul Move your existing Spring Boot applications to the cloud Use Hashicorp Consul and Netflix Eureka for dynamic Service Discovery Understand the various mechanisms that Spring Boot provides to examine an application's health In Detail The Spring framework provides great flexibility for Java development which also results in tedious configuration work Spring Boot addresses the configuration difficulties of Spring and makes it easy to create standalone production grade Spring based applications This practical guide makes the existing development process more efficient Spring Boot Cookbook 2.0 Second Edition smartly combines all the skills and expertise to efficiently develop test deploy and monitor applications using Spring Boot on premise and in the cloud We start with an overview of the important Spring Boot features you will learn to create a web application for a RESTful service Learn to fine tune the behavior of a web application by learning about custom routes and asset paths and how to modify routing patterns Address the requirements of a complex enterprise application and cover the creation of custom Spring Boot starters This book also includes examples of the new and improved facilities available to create various kinds of tests introduced in Spring Boot 1.4 and 2.0 and gain insights into Spring Boot DevTools Explore the basics of Spring Boot Cloud modules and various Cloud starters to make applications in Cloud Native and take advantage of Service Discovery and Circuit Breakers Style and

approach This practical guide follows a recipe based approach and provides extremely helpful guidelines **SPRING BOOT 3 RECIPES** MARTEN. DEINUM, 2024 Spring Cookbook Jérôme Jaglale, 2015-05-25 This book is for you if you have some experience with Java and web development not necessarily in Java and want to become proficient quickly with Spring

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standard for a stateless REST application based on Spring and Spring MVC with this book This guide is unique in its style as it features a massive overview of practical development techniques brought together from the Spring ecosystem the new JEE standards the JavaScript revolution and Internet of Things You will begin with the very first steps of Spring MVC s product design Focused on deployment viability and maintainability you will learn the use of Eclipse Maven and Git You will walk through the separation of concerns driven by the microservices principles Using Bootstrap and AngularJS you will develop a responsive front end capable of interacting autonomously with a REST API Later in the book you will setup the Java Persistence API JPA within Spring learn how to configure your Entities to reflect your domain needs and discover Spring Data repositories You will analyze how Spring MVC responds to complex HTTP requests You will implement Hypermedia and HATEOAS to guide your customer s stateless conversation with the product and see how a messaging service based on WebSocket can be configured Finally you will learn how to set up and organize different levels of automated tests including logging and monitoring Style and approach A comprehensive recipe based guide to creating stunning Java apps with Spring MVC as a result of learning and implementing pro level practices techniques and solutions

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this book will show you all you need to know to overcome common to advanced problems you might face Each recipe will showcase some old and new issues and solutions right from configuring Spring 5 0 container to testing its components Most importantly the book will highlight concurrent processes asynchronous MVC and reactive programming using Reactor Core APIs Aside from the core components this book will also include integration of third party technologies that are mostly needed in building enterprise applications By the end of the book the reader will not only be well versed with the essential concepts of Spring but will also have mastered its latest features in a solution oriented manner Style and Approach This book follows a cookbook style approach presenting a problem and showing you how to overcome it with useful recipes The examples provided will help you code along as you learn

Spring Recipes Daniel Rubio, Josh Long, Gary Mak, Marten Deinum, 2014-11-14 Spring Recipes A Problem Solution Approach Third Edition builds upon the best selling success of the previous editions and focuses on the latest Spring Framework features for building enterprise Java applications This book provides code recipes for the following found in the latest Spring Spring fundamentals Spring IoC container Spring AOP AspectJ and more Spring enterprise Spring Java EE integration Spring Integration Spring Batch Spring Remoting messaging transactions and working with big data and the cloud using Hadoop and MongoDB Spring web Spring MVC other dynamic scripting integration with the popular Grails Framework and Groovy REST web services and more This book guides you step by step through topics using complete and real world code examples When you start a new project you can consider copying the code and configuration files from this book and then modifying them for your needs This can save you a great deal of work over creating a project from scratch

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