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Mastering Microservices With Java Packt

About this book. Microservices are key to designing scalable, easy-to-maintain applications. This latest edition of Mastering Microservices with Java, works on Java 11. It covers a wide range of exciting new developments in the world of microservices, including microservices patterns, interprocess communication with gRPC, and service orchestration. This book will help you understand how to implement microservice-based systems from scratch.

Mastering Microservices with Java - Third Edition - Packt

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Mastering Microservices with Java - Packt

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Mastering Microservices with Java 9 - Second Edition - Packt

This is the code repository for Mastering Microservices with Java - Third Edition, published by Packt. Master the art of implementing scalable and reactive microservices in your production environment with ease. What is this book about? Microservices are the next big thing in designing scalable, easy-to-maintain applications.

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Mastering Microservices with Java - Packt

By the end of this second Mastering Microservices with Java series, you will be confident in building smaller, lighter, and faster services that can be implemented easily in a production environment. Style and Approach. This is a technical course, focusing on the essential theory and practice of Java Microservices.

Mastering Microservices with Java - Part 2 [Video] - Packt
Microservices are key to designing scalable, easy-to-maintain applications. This latest edition of Mastering Microservices with Java, works on Java 11. It covers a wide range of exciting new developments in the world of microservices, including microservices patterns, interprocess communication with gRPC, and service orchestration.

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Mastering Microservices with Java 9 - Second Edition by ...
Welcome to Mastering Microservices with Java by Packt Publishing. I'm having more than a decade of experience for developing Java-based web application and cloud applications. I started writing Java programs in my college days, which was in late 90s, and I still write Java programs, and I have seen the revolution of Java from 1.1. until now.

Mastering Microservices with Java - Lynda.com
This is the code repository for Mastering Microservices with Java 9 - Second Edition, published by Packt. It contains all the supporting project files necessary to work through the book from start to finish. About the Book. Microservices are the next big thing in designing scalable, easy-to-maintain applications.

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Welcome to Mastering Microservices with Java by Packt Publishing. I'm having more than a decade of experience for developing Java-based web application and cloud applications.

Mastering Microservices with Java - The course overview
You'll learn the best practices and common principles of microservice

design and you'll learn to troubleshoot and debug issues faced during development. By the end of this Mastering Microservices with Java series, you will know how to build smaller, lighter, and faster services that can be implemented easily in a production environment.

Mastering Microservices with Java [Video]

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Edge server and API gateway - Mastering Microservices with ...

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.

Microservices Best Practices for Java

Mastering Microservices with Java Master the art of implementing scalable and reactive microservices in your production environment with Java 11

Key Features

- Use domain-driven designs to build microservices
- Explore various microservices design patterns such as service discovery, registration, and API Gateway
- Use Kafka, Avro, and Spring Streams to ...

Microservices are the next big thing in designing scalable, easy-to-maintain applications. This latest edition of Mastering Microservices with Java, works on Java 11. It covers a wide range of exciting, new developments in the world of microservices such as microservices patterns, interprocess communication with gRPC, and service orchestration.

Master the art of implementing scalable microservices in your production environment with ease

About This Book

- Use domain-driven design to build microservices
- Use Spring Cloud to use Service Discovery and Registration
- Use Kafka, Avro and Spring Streams for implementing event based microservices

Who This Book Is For

This book is for Java developers who are familiar with the microservices architecture and now wants to take a deeper dive into effectively implementing microservices at an enterprise level. A reasonable knowledge level and understanding of core microservice elements and applications is expected.

What You Will Learn

- Use domain-driven design to design and implement microservices
- Secure microservices using Spring Security
- Learn to develop REST service development
- Deploy and test microservices
- Troubleshoot and debug the issues faced during development
- Learning best practices and common principals about microservices

In Detail

Microservices are the next big thing in designing scalable, easy-to-maintain applications. It not only makes app development easier, but also offers great flexibility to utilize various resources optimally. If you want to build an enterprise-ready implementation of the microservices architecture, then this is the book for you! Starting off by understanding the core concepts and framework, you will then focus on the high-level design of large software projects. You will gradually move on to setting up the development environment and configuring it before implementing continuous integration to deploy your microservice architecture. Using Spring security, you will secure microservices and test them effectively using REST Java clients and other tools like RxJava 2.0. We'll show you the best patterns, practices and common principals of microservice design and you'll learn to troubleshoot and debug the issues faced during development. We'll show you how to design and implement reactive microservices. Finally, we'll show you how to migrate a monolithic application to microservices based application. By the end of the book, you will know how to build smaller, lighter,

and faster services that can be implemented easily in a production environment. Style and approach This book starts from the basics, including environment setup and provides easy-to-follow steps to implement the sample project using microservices.

Learn how to build, test, secure, deploy, and efficiently consume services across distributed systems. Key Features - Explore the wealth of options provided by Spring Cloud for wiring service dependencies in microservice systems. - Create microservices utilizing Spring Cloud's Netflix OSS - Architect your cloud-native data using Spring Cloud. Book Description Developing, deploying, and operating cloud applications should be as easy as local applications. This should be the governing principle behind any cloud platform, library, or tool. Spring Cloud—an open-source library—makes it easy to develop JVM applications for the cloud. In this book, you will be introduced to Spring Cloud and will master its features from the application developer's point of view. This book begins by introducing you to microservices for Spring and the available feature set in Spring Cloud. You will learn to configure the Spring Cloud server and run the Eureka server to enable service registration and discovery. Then you will learn about techniques related to load balancing and circuit breaking and utilize all features of the Feign client. The book now delves into advanced topics where you will learn to implement distributed tracing solutions for Spring Cloud and build message-driven microservice architectures. Before running an application on Docker containers, you will master testing and securing techniques with Spring Cloud. What you will learn - Abstract Spring Cloud's feature set - Create microservices utilizing Spring Cloud's Netflix OSS - Create synchronous API microservices based on a message-driven architecture. - Explore advanced topics such as distributed tracing, security, and contract testing. - Manage and deploy applications on the production environment Who this book is for This book appeals to developers keen to take advantage of Spring Cloud, an open source library which helps developers quickly build distributed systems. Knowledge of Java and Spring Framework will be helpful, but no prior exposure to Spring Cloud is required.

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.

An effective guide to designing, building, and deploying enterprise Java microservices with Eclipse MicroProfile

- Key Features
- Create cloud-native microservices with ease using this detailed guide
- Avoid vendor lock-in when implementing microservices using Eclipse MicroProfile
- Discover why MicroProfile is a great specification for building microservices in multi-cloud environments

Book Description Eclipse MicroProfile has gained momentum in the industry as a multi-vendor, interoperable, community-driven specification. It is a major disruptor that allows organizations with large investments in enterprise Java to move to microservices without spending a lot on retraining their workforce. This book is based on MicroProfile 2.2, however, it will guide you in running your applications in MicroProfile 3.0. You'll start by understanding why microservices are important in the digital economy and how MicroProfile addresses the need for enterprise Java microservices. You'll learn about the subprojects that make up a MicroProfile, its value proposition to organizations and developers, and its processes and governance. As you advance, the book takes you through the capabilities and code examples of MicroProfile's subprojects - Config, Fault Tolerance, Health Check, JWT Propagation, Metrics, and OpenTracing. Finally, you'll be guided in developing a conference application using Eclipse MicroProfile, and explore possible scenarios of what's next in MicroProfile with Jakarta EE. By the end of this book, you'll have gained a clear understanding of Eclipse MicroProfile and its role in

enterprise Java microservices. What you will learn Understand why microservices are important in the digital economy Analyze how MicroProfile addresses the need for enterprise Java microservices Test and secure your applications with Eclipse MicroProfile Get to grips with various MicroProfile capabilities such as OpenAPI and Typesafe REST Client Explore reactive programming with MicroProfile Stream and Messaging candidate APIs Discover and implement coding best practices using MicroProfile Who this book is for If you're a Java developer who wants to create enterprise microservices, this book is for you. Familiarity with Java EE and the concept of microservices will help you get the most out of this book.

Learn to develop, test, and deploy your Spring Boot distributed application and explore various best practices. Key Features Build and deploy your microservices architecture in the cloud Build event-driven resilient systems using Hystrix and Turbine Explore API management tools such as KONG and API documentation tools such as Swagger Book Description Spring is one of the best frameworks on the market for developing web, enterprise, and cloud ready software. Spring Boot simplifies the building of complex software dramatically by reducing the amount of boilerplate code, and by providing production-ready features and a simple deployment model. This book will address the challenges related to power that come with Spring Boot's great configurability and flexibility. You will understand how Spring Boot configuration works under the hood, how to overwrite default configurations, and how to use advanced techniques to prepare Spring Boot applications to work in production. This book will also introduce readers to a relatively new topic in the Spring ecosystem – cloud native patterns, reactive programming, and applications. Get up to speed with microservices with Spring Boot and Spring Cloud. Each chapter aims to solve a specific problem or teach you a useful skillset. By the end of this book, you will be proficient in building and deploying your Spring Boot application. What you will learn Build logically structured and highly maintainable Spring Boot applications Configure RESTful microservices using Spring Boot Make the application production and operation-friendly with Spring Actuator Build modern, high-performance distributed applications using cloud patterns Manage and deploy your Spring Boot application to the cloud (AWS) Monitor distributed applications using log aggregation and ELK Who this book is for The book is targeted at experienced Spring and Java developers who have a basic knowledge of working with Spring Boot. The reader should be familiar with Spring Boot basics, and aware of its benefits over traditional Spring Framework-based applications.

Develop cloud native applications with microservices using Spring Boot, Spring Cloud, and Spring Cloud Data Flow About This Book Explore the new features and components in Spring Evolve towards micro services and cloud native applications Gain powerful insights into advanced concepts of Spring and Spring Boot to develop

applications more effectively Understand the basics of Kotlin and use it to develop a quick service with Spring Boot Who This Book Is For This book is for an experienced Java developer who knows the basics of Spring, and wants to learn how to use Spring Boot to build applications and deploy them to the cloud. What You Will Learn Explore the new features in Spring Framework 5.0 Build microservices with Spring Boot Get to know the advanced features of Spring Boot in order to effectively develop and monitor applications Use Spring Cloud to deploy and manage applications on the Cloud Understand Spring Data and Spring Cloud Data Flow Understand the basics of reactive programming Get to know the best practices when developing applications with the Spring Framework Create a new project using Kotlin and implement a couple of basic services with unit and integration testing In Detail Spring 5.0 is due to arrive with a myriad of new and exciting features that will change the way we've used the framework so far. This book will show you this evolution—from solving the problems of testable applications to building distributed applications on the cloud. The book begins with an insight into the new features in Spring 5.0 and shows you how to build an application using Spring MVC. You will realize how application architectures have evolved from monoliths to those built around microservices. You will then get a thorough understanding of how to build and extend microservices using Spring Boot. You will also understand how to build and deploy Cloud-Native microservices with Spring Cloud. The advanced features of Spring Boot will be illustrated through powerful examples. We will be introduced to a JVM language that's quickly gaining popularity - Kotlin. Also, we will discuss how to set up a Kotlin project in Eclipse. By the end of the book, you will be equipped with the knowledge and best practices required to develop microservices with the Spring Framework. Style and approach This book follows an end-to-end tutorial approach with lots of examples and sample applications, covering the major building blocks of the Spring framework.

"In Part 1 of this Mastering Microservices with Java video series, you'll start by gaining a deep understanding of the core Java microservice concepts and framework; you will then focus on the high-level design of large software projects. You will gradually move on to setting up the development environment and configuring it before implementing Continuous Integration to deploy your microservice architecture! You will then be ready to consider the second video in this Mastering Java Microservices series, which goes on to show you how to use Spring security, and how you can secure microservices and test effectively using REST Java clients and other tools. You'll learn the best practices and common principles of microservice design and you'll learn to troubleshoot and debug issues faced during development."--Resource description page.

Learn and use the design patterns and best practices in Spring to solve common design problems and build user-friendly microservices

Key Features Study the benefits of using the right design pattern in your toolkit Manage your code easily with Spring's dependency injection pattern Explore the features of Docker and Mesos to build successful microservices **Book 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 Rajput What you will learn Develop applications using dependency injection patterns Build web applications using traditional Spring MVC patterns Utilize the reactive programming pattern to build reactive web apps Learn concurrency and handle multiple connections inside a web server Use Spring Boot and Spring Cloud to develop microservices Leverage reactive programming to build cloud-native applications Who 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.

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