Spring 5.0 Microservices - Second Edition

Rajesh RV

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Key Features

- Update existing applications to integrate reactive streams released as a part of Spring 5.0
- Exploit Docker and Mesos to build successful microservices
- Upgrade the capability model to implement scalable microservices

Book Description

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. We will then dive deep into Spring Boot, Spring Cloud, Docker, Mesos, and Marathon. Next, you will understand how Spring Boot is used to deploy autonomous services, server-less by removing the need to have a heavy-weight application server. You'll take advantage of Reactive Programming in Spring 5.0 to build modern cloud native applications.

Later, you'll learn how to go further by deploying your microservices to Docker and manage them with Mesos. You will also gain insight into the latest inclusion of Reactive Streams in Spring to make applications more resilient and scalable. By the end of the book, you will gain more clarity on how to implement microservices using Spring Framework and use them in Internet-scale deployments through real-world examples.

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
- Manage Internet-scale microservices using Docker, Mesos, and Marathon

About the Author

Rajesh RV is a seasoned IT architect with extensive experience in diversified technologies and more than 17 years of airline IT experience.

Rajesh received a degree in computer engineering from University of Cochin, India. He joined the JEE community Spring during the early days of EJB. During the course, as an architect, he worked on many large-scale, mission-critical projects, including New Generation Airline Passenger Reservation System

(iFlyRes) and Next Generation Airline Cargo Reservation systems (Skychain and CROAMIS) in the airlines domain.

At present, he works as a chief architect at Emirates and handles the solution architecture portfolio, which is spread across various architecture capabilities, such as JEE, SOA, NoSQL, IoT, mobile, UI, integration, and more. At Emirates, Open Travel Platform (OTP) architected by Rajesh earned the group the prestigious 2011 RedHat Innovation Award in the Carved Out Costs category. In 2011, he introduced the innovative concept of the Honeycomb architecture based on the hexagonal architecture pattern used to transform the legacy mainframe system.

Rajesh has a deep passion for technology and architecture. He also holds several certifications, such as BEA Certified WebLogic Administrator, Sun Certified Java Enterprise Architect, Open Group Certified TOGAF Practitioner, Licensed ZapThink Architect in SOA, and IASA global CITA-A Certified Architecture Specialist.

Previously, Rajesh reviewed Service Oriented Java Business Integration, Packt Publishing by Binildas A. Christudas.

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