



# Spring Microservices in Action

*John Carnell*

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## **Spring Microservices in Action** John Carnell

With microservices, you build applications from very small, loosely coupled, and distributed services. Spring Boot and Spring Cloud offer Java developers an easy migration path from traditional monolithic Spring applications to microservice-based applications that can be deployed to multiple cloud platforms. The Spring Boot and Spring Cloud frameworks let you quickly build microservices that are ready to be deployed to a private corporate cloud or a public cloud like Amazon Web Services (AWS) or Pivotal's CloudFoundry.

Spring Microservices in Action teaches you how to use the Spring Boot and Spring Cloud frameworks to build and deploy microservice-based cloud applications. You'll begin with an introduction to the microservice pattern and how to build microservices with Spring Boot and Spring Cloud. Then you'll get hands-on and discover how to configure Spring Boot. Using lots of real-world examples, you'll learn topics like service discovery with Spring Cloud, Netflix Eureka, and Ribbon. Next, you'll find out how to handle potential problems using client-side resiliency patterns with Spring and Netflix Hystrix. This book also covers implementing a service gateway with Spring Cloud and Zuul and event processing in the cloud with Spring Cloud Stream. Finally, you'll learn to deploy and push your application to cloud services, including AWS and CloudFoundry. By the end of this book, you'll not only be able to build your own microservice-based applications, but how operationalize and scale your microservices so they can be deployed to a private or public cloud.

## **Spring Microservices in Action Details**

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Author : John Carnell

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## From Reader Review Spring Microservices in Action for online ebook

### Christophe Addinquin says

It starts where "Spring Boot in Action" ends. This former book is already the preface of microservices. However this one goes much further, up to a "microservice system architecture" with the Netflix stack. It's not a light reading, because, for instance, we are going through Kafka to put in place an event-driven communication between services. We also are meeting Zuul and Eureka for things such as service discovery, service gateway and reverse proxy and of course authentication with OAuth. There are many, many things to go through and one simple read is not enough. But it's a serious one.

Ma note de lecture en Français [ici](#)

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### Imam Bux says

A good book to develop an idea of how to structure the microservices within the perspectives of a developer, architect and devops. The book tells all the patterns which need to be followed in order to have near-perfect microservices based application. If you have hands on experience with Spring framework then this book gives a smooth learning curve.

I gave it 4/5 stars because in the later chapters (7-10) the book seems to lose control of transferring the knowledge to the reader by introducing unexplained complexity in the topics and respective code. The code is also not consistent with the exercises provided by the writer on Git. The readers have to struggle and understand by themselves where they stand which adds effort and delays to the progress.

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### Michael Clay says

liked the examples - guess it will be outdated very soon

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### Justin Smith says

Not an easy read but very informative. Some parts feel like a high school paper that has a word count requirement other parts. Could be more concise.

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### Amr Khaled says

A good book for beginners, i was expecting more but I'm disappointed but still good content for beginners

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### **Alaa Salem says**

Good balance between high-level architecture and engineering discipline...  
Highly recommend.

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### **Vitor Cavalcanti de Albuquerque says**

Great book to understand how to build microservices using Netflix OSS technologies through Spring Cloud. If you always wondered how to build a "Cloud Native" service in Java, this is the book. Unfortunately, this book won't be a 5-star due to the writing quality. There are too many holes in the code examples: the chapter about security barely works, you have to research by yourself. I don't advise this book for people that does not have experience with Spring framework.

To sum up, this book teaches many concepts that are required for a sane life dealing with microservices such as Service Discovery (Netflix Eureka), Load balance, Circuit-breakers & Bulkheads (Netflix Ribbon), API Gateway (Netflix Zuul), Log tracing, Distributed tracing (Zipkin), and others. On the other hand, it requires some prior experience on Spring framework from the reader.

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### **Oleg Prozorov says**

Good description of one of the approaches to build microservices. Some parts are quite opinionated and presented as the only one true way of doing things. Overall if you follow described steps you will build very modern, scalable and maintainable system.

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### **Alex Ott says**

Between 3 & 4 - quite good, but not very detailed description of Spring Cloud components - just enough to get understanding what's possible to do...

Rounded down to 3 due many typos, code/text inconsistencies, and formatting issues (in Kindle version).  
Errors will be sent to author...

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### **Andrzej Szelemetko says**

Together with the author, you will be building from the ground a microservice based. In each chapter, a new microservice concept is being introduced and implemented using Spring Cloud, Spring Boot, and Docker.

If you are not familiar with microservice concepts or want to get now the tooling used in Java world this is a great book to read. Each concept is implemented and each relevant piece of code is thoroughly explained.

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## **Frank Palardy says**

Covered so many issues you better know much of it already.

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## **Murray Cumming says**

I like how this discusses how you might build a full microservices-based system, including configuration, service discovery, client-side load balancing, routing, tracing, message queues, and OAuth2 security, as well as thoughts about continuous deployment. The book's use of Spring Boot and Spring Cloud seems like a good way to exercise these concepts. The actual Spring APIs and example code are very simple so the book is mostly a discussion of general ideas, put into practice with Java, Docker, and the Spring Cloud defaults, such as Netflix Zuul, Netflix Hystrix, Netflix Eureka, Kafka, and Zipkin.

I particularly like that the author set up real working code for each chapter that could easily be built and run locally as a set of docker images.

Unfortunately, the text about the code is incredibly verbose and repetitive, almost as if the text was being intentionally padded to reach a word limit. Far too many sentences or paragraphs are simple slight rewordings, and some things are stated and restated three or four times in succession. It would have been easier to read without that weirdness.

Unfortunately, the Kindle version (at least the one I got from Manning, not from Amazon), doesn't present the example code well, using really awkward images instead of actual text for most code. The code in those images is also a really faint gray. ("The Go Programming Language" has the best formatting for source code that I've ever seen in a Kindle book.)

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## **Girish B says**

A really informative book. Easy to read and understand.

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## **Tonmoy Chowdhury says**

I found the author's writing to be very structured. He doesn't jump to using a technology from the Spring stack unless he explains the purpose behind it and how it fits into a microservice based architecture. The examples are lucid and illustrative. Good for a beginner.

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