



Microservices Deployment Cookbook

Vikram Murugesan

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Key Features

- 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

Book Description

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, and monitoring.

The initial chapters offer insights on 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'll show you how organizations can securely store images in your private cloud. Next you'll see how to deploy microservices on Mesos and Marathon, and will also deploy microservices on Kubernetes. 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.

What you will learn

- Build microservices using Docker
- Manage your containers using Docker
- Deploy microservices using Mesos/Marathon and Kubernetes
- Load balancing microservices using Zookeeper and Consul
- Create custom metrics using DropWizard
- Write stream programs with Kafka

About the Author

Vikram Murugesan is a software architect who has over 10 years of experience building distributed systems and products. He currently works as a principal architect with Egen Solutions Inc. In his current job, he focusses on building platforms based on JVM (Java, Scala, and Groovy), big data and cloud technologies. He is a passionate programmer and is interested in learning new technologies. He is also interested in coaching, mentoring, and building scalable teams that build great software.

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