

# Télécharger Livres Gratuit Building Microservices with Go (PDF | ePub | Mobi)

## Nic Jackson DataBase Book



Your one-stop guide to the common patterns and practices, showing you how to apply these using the Go programming language

About This Book • This short, concise, and practical guide is packed with real-world examples of building microservices with Go • It is easy to read and will benefit smaller teams who want to extend the functionality of their existing systems • Using this practical approach will save your money in terms of maintaining a monolithic architecture and demonstrate capabilities in ease of use

Who This Book Is For You should have a working knowledge of programming in Go, including writing and compiling basic applications. However, no knowledge of RESTful architecture, microservices, or web services is expected. If you are looking to apply techniques to your own projects, taking your first steps into microservice architecture, this book is for you.

What You Will Learn • Plan a microservice architecture and

design a microservice • Write a microservice with a RESTful API and a database • Understand the common idioms and common patterns in microservices architecture • Leverage tools and automation that helps microservices become horizontally scalable • Get a grounding in containerization with Docker and Docker-Compose, which will greatly accelerate your development lifecycle • Manage and secure Microservices at scale with monitoring, logging, service discovery, and automation • Test microservices and integrate API tests in Go

In Detail Microservice architecture is sweeping the world as the de facto pattern to build web-based applications. Golang is a language particularly well suited to building them. Its strong community, encouragement of idiomatic style, and statically-linked binary artifacts make integrating it with other technologies and managing microservices at scale consistent and intuitive. This book will teach you the common patterns and practices, showing you how to apply these using the Go programming language. It will teach you the fundamental concepts of architectural design and RESTful communication, and show you patterns that provide manageable code that is supportable in development and at scale in production. We will provide you with examples on how to put these concepts and patterns into practice with Go. Whether you are planning a new application or working in an existing monolith, this book will explain and illustrate with practical examples how teams of all sizes can start solving problems with microservices. It will help you understand Docker and Docker-Compose and how it can be used to isolate microservice dependencies and build environments. We finish off by showing you various techniques to monitor, test, and secure your microservices. By the end, you will know the benefits of system resilience of a microservice and the advantages of Go stack. Style and approach The step-by-step tutorial focuses on building microservices. Each chapter expands upon the previous one, teaching you the main skills and techniques required to be a successful microservice practitioner.

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