



Building Microservices with .NET Core

By Gaurav Kumar Arora, Lalit Kale, Kanwar Manish



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Architect your .NET applications by breaking them into really small pieces—microservices—using this practical, example-based guide

About This Book

- Start your microservices journey and understand a broader perspective of microservices development
- Build, deploy, and test microservices using ASP.Net MVC, Web API, and Microsoft Azure Cloud
- Get started with reactive microservices and understand the fundamentals behind it

Who This Book Is For

This book is for .NET Core developers who want to learn and understand microservices architecture and implement it in their .NET Core applications. It's ideal for developers who are completely new to microservices or have just a theoretical understanding of this architectural approach and want to gain a practical perspective in order to better manage application complexity.

What You Will Learn

- Compare microservices with monolithic applications and SOA
- Identify the appropriate service boundaries by mapping them to the relevant bounded contexts
- Define the service interface and implement the APIs using ASP.NET Web API
- Integrate the services via synchronous and asynchronous mechanisms
- Implement microservices security using Azure Active Directory, OpenID Connect, and OAuth 2.0
- Understand the operations and scaling of microservices in .NET Core
- Understand the testing pyramid and implement consumer-driven contract using pact net core
- Understand what the key features of reactive microservices are and implement them using reactive extension

In Detail

Microservices is an architectural style that promotes the development of complex applications as a suite of small services based on business capabilities. This book will help you identify the appropriate service boundaries within the business. We'll start by looking at what microservices are, and what the main characteristics are.

Moving forward, you will be introduced to real-life application scenarios, and after assessing the current issues, we will begin the journey of transforming this application by splitting it into a suite of microservices.

You will identify the service boundaries, split the application into multiple microservices, and define the service contracts. You will find out how to configure, deploy, and monitor microservices, and configure scaling to allow the application to quickly adapt to increased demand in the future.

With an introduction to the reactive microservices, you strategically gain further value to keep your code base simple, focusing on what is more important rather than the messy asynchronous calls.

Style and approach

This guide serves as a stepping stone that helps .NET Core developers in their microservices architecture. This book provides just enough theory to understand the concepts and apply the examples.

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Editorial Review

About the Author

Gaurav Kumar Arora is a Microsoft Most Valuable Professional [MVP] and has a degree of MPhil in computer science. His 19 years of experience in software development and application support using Microsoft technologies spans across domains, such as aeronautics, finance, insurance, healthcare, construction, and media. He is a Scrum Certified Trainer/Coach, Microsoft Certified Technology Specialist, XEN certified for ITIL-F, and APMG certified for PRINCE-F and PRINCE-P.

Gaurav likes to learn new processes and technologies and sharing his experiences with people.

He is a cofounder of Innatus Curo Software LLC. Gaurav also plays a vital community role through the IndiaMentor platform. You can read more on his blog, www.gaurav-arora.com.

Lalit Kale is a technical architect and consultant with more than 12 years of industry experience. Lalit has helped clients achieve tangible business outcomes through the implementation of best practices in software development. He is a practitioner of TDD and DDD, and a big believer in agile and lean methodologies. He has worked with several organizations—from start-ups to large enterprises—in making their systems, be it in-house or mission critical, successful with clients in USA, UK, Germany, Ireland, and India. His current interests include container technologies and machine learning using Python. He holds a bachelor's degree in Engineering (IT).

Kanwar Manish completed his masters of science in computer applications from MD University, India and is a co-founder of Innatus Curo Software LLC, having a presence in India. He has worked in the IT industry across domains for the last 17 years. He started exploring .NET right from the first release and has been glued ever since.

His range of experience includes Global Wealth Management (Financial Service Industry, USA), Life Insurance (Insurance industry, USA), and DMS (Document Management System, ECMS, India).

His present responsibilities include providing solutions for technical challenges and leading the dev teams to stay focused towards their goal.

Manish also plays a vital community role through the IndiaMentor platform and provides a helping hand to young professionals by mentoring them

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