KOENIG SOLUTIONS · COURSE OUTLINE

Building Microservices with .NET (Microsoft)

Learn to build, secure and integrate .NET microservices, from inter-service communication to saga-based transactions.

5 Days
DURATION

16
TOPICS

COURSE OVERVIEW

Microservice applications are composed of small, independently versioned, and scalable customer-focused services that communicate with each other over standard protocols with well-defined interfaces. Each microservice typically encapsulates simple business logic, which you can scale out or in, test, deploy, and manage independently. Smaller teams develop a microservice based on a customer scenario and use any technologies that they want to use. This course will teach you how to build your microservice with .NET.

WHO THIS COURSE IS FOR

Developers | **DevOps Engineers** | **Programmers** | **Solution Architects**

LEARNING OBJECTIVES

- Build a microservice and add database storage
- Implement synchronous and asynchronous inter-service communication
- Integrate a frontend with microservices
- Apply identity and authorization patterns in microservices
- Implement microservices security techniques
- Prepare saga participants for distributed transactions
- Implement a purchase saga with compensation and idempotency

COURSE SYLLABUS

16 Topics

TOPICS

- Your first microservice
- Adding database storage
- Preparing for the next microservice
- Synchronous inter-service communication
- Asynchronous inter-service communication
- Initial Frontend Integration
- Identity in Microservices
- Microservices Security Patterns and Techniques
- Implementing Microservices Security
- Authorization in Microservices
- Frontend Integration to Secure Microservices
- Transactions with Microservices
- Preparing the Saga participants
- Implementing the Purchase Saga
- Compensation and Idempotency
- The Frontend Store Experience

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com | info@koenig-solutions.com