

Introduction to Microservices

Course Content –

- **Chapter 1: The Emergence of Microservices Architecture**
 - Explore the ideal software development practice
 - Learn how a fine-grained Service-Oriented Architecture (SOA) can help to achieve the ideal
 - Learn how Microservices attempts to achieve the ideal
- **Chapter 2: Microservice Design Principles**
 - Designing small microservices
 - Designing independent microservices
 - Designing resilient microservices
- **Chapter 3: Integrating Microservices**
 - Understand design goals when integrating microservices
 - Explore effective message formats and lightweight inter-service communication approaches
 - Review the pros and cons of various service communication patterns
- **Chapter 4: Microservice Technologies**
 - Learn about popular technologies that enable the development, deployment, and support of microservices
- **Chapter 5: Decomposing the Monolith**
 - Understand monolithic decomposition as an approach towards application modernization
 - Review successful decomposition patterns
 - Understand helpful practices when decomposing a monolithic application
- **Chapter 6: Deploying and Maintaining Microservices**
 - Explore the intersection of DevOps and microservices
 - Learn to leverage virtual, cloud, and containerized environments for microservice deployment
 - Discover how to monitor a microservices environment and take appropriate action to enable scaling or react to system faults