

Course Code: 821582

EXCLUSIVE: This hands-on course will teach you all aspects of Microservice architecture.

Microservices thrive on independent services to provide flexibility, autonomous processes, and communication through APIs. In this course, you'll examine the differences between Microservices and monolithic applications and their architectures, the benefits of using the Microservice Architecture and transitioning to microservices. Learn how to map technical practices to the business strategy behind microservices, and its different tools, and communicate with the stakeholders to explain microservices' needs. You will conceptualize container technologies such as use Docker, Kubernetes, and Jenkins and learn how DevOps can benefit from microservices adoption.

What You'll Learn

- Adopt, plan, or improve your transition to microservices
- Map technical practices to the business strategy behind microservices
- Navigate different tools for enabling microservices and how to use them
- Communicate with stakeholders, management, and teams regarding needs and expectations around microservices
- Get hands-on practice with Docker, Kubernetes, Jenkins for core microservices architecture
- Get hands-on practice with the toolchain in our real-world application labs
- Build more mature DevOps practices through microservice adoption
- Understand how to refactor monolithic systems into more modular, component-based systems
- Apply microservice use cases to continuous integration, delivery, and testing
- Enable more automated testing and self-service QA capability

Who Needs to Attend

- System and software architects
- Developers
- Testers and QA teams
- Release engineers
- IT operations staff
- Site reliability engineers
- DevOps and Cloud practitioners

- DBAs and data engineering teams
- Information Security Professionals

Prerequisites

Fundamental understanding of DevOps working knowledge.



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CLASSROOM LIVE

\$2,875 CAD

3 Day

Classroom Live Outline

- 1. Containers and Container Orchestration
 - Containers
 - - □ Docker Architecture and use cases
 - Managing images and containers using Docker(docker cli tool)

 - Quiz Quiz on Docker
 - Container Orchestration

 - □ Quiz: Quiz on kubernetes
- 2. Microservices Design and Implementation
 - Monolithic and Microservice architecture
 - Monolithic Architecture

 - Quiz Quiz on Microservice and Monolithic architectures
 - Microservice Implementation
 - □ Uber case study

- □ Deploying Microservices as Containers

- ∐ Lab: Create a simple CI/CD pipeline using Jenkins
- Quiz Quiz on Microservice and Monolithic architectures implementation
- 3. Microservices in Production
 - Production Grade Microservices

 - Security Concepts

 - Monitoring using Prometheus
 - Managing state in Microservices

 - □ Quiz: Quiz on Production Grade Microsercies



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VIRTUAL CLASSROOM LIVE

\$2,875 CAD

3 Day

Virtual Classroom Live Outline

- 1. Containers and Container Orchestration
 - Containers
 - □ Docker Introduction
 - □ Docker Architecture and use cases
 - Managing images and containers using Docker(docker cli tool)
 - ∐ Lab: Build and push an Docker image from Dockerfile
 - Quiz Quiz on Docker
 - Container Orchestration
- 2. Microservices Design and Implementation
 - Monolithic and Microservice architecture
 - Monolithic Architecture

 - Quiz Quiz on Microservice and Monolithic architectures
 - Microservice Implementation
 - □ Uber case study

- □ Deploying Microservices as Containers
- ∐ Lab: Deploy Microservices
- ∐ Lab: Create a simple CI/CD pipeline using Jenkins
- Quiz Quiz on Microservice and Monolithic architectures implementation
- 3. Microservices in Production
 - Production Grade Microservices

 - □ Quiz: Quiz on Production Grade Microsercies

Aug 25 - 27, 2025 | 8:30 AM - 4:30 PM EDT

Oct 13 - 15, 2025 | 8:30 AM - 4:30 PM EDT



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PRIVATE GROUP TRAINING

3 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

Date created: 7/1/2025 12:43:55 PM

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