

Microservices: Spring Cloud, Kubernetes & Kafka

Learn to build and connect microservices with Spring Cloud, Kafka and Kubernetes, from persistence and caching to security and deployment.

2 Days

DURATION

8

MODULES

19

TOPICS

COURSE OVERVIEW

This course covers core Spring topics including inheritance, transactions, JPQL, sorting and searching, and Spring Ehcache, before moving into Spring Cloud and microservice communication styles using RabbitMQ or Kafka. It then addresses Kubernetes and API management, Spring Security and WSO2, advanced Spring Boot configuration and Java 11 features, and closes with model mappers and JSON mapping.

WHO THIS COURSE IS FOR

Java Developers

Microservices Developers

Spring Developers

Backend Engineers

API Developers

PREREQUISITES

- Participants need to be very strong background in RESTful Services, Spring Boot, Hibernate, Basics of Microservices like Registry, API Gateway, Redis, Hystrix etc.

LEARNING OBJECTIVES

- Apply inheritance and transaction handling in JPQL-based data access
- Implement sorting and searching within Spring applications
- Configure caching using Spring Ehcache
- Explain communication styles between microservices
- Implement intercommunication between microservices using RabbitMQ or Kafka
- Deploy and manage microservices with Kubernetes and an API manager
- Configure Spring Security and integrate WSO2
- Apply model mappers and JSON mapping in Spring Boot

8 Modules, 19 Topics

DAY 1

01

First Session (9:00 AM To 11:00 AM)

TOPICS

Camunda · Inheritance · Transaction · JPQL

02

Second Session (11:15 AM To 1:00 PM)

TOPICS

Sorting and Searching · Enhance in Spring

03

Third Session (2:00 PM To 3:30 PM)

TOPICS

Spring Ehcache · Spring Cloud

04

Fourth Session (3:45 PM To 5:30 PM)

TOPICS

Communication Style · Intercommunication
Microservices · RabbitMQ or Kafka

DAY 2

05

First Session (9:00 AM To 11:00 AM)

TOPICS

Kubernetes · API Manager

06

Second Session (11:15 AM To 1:00 PM)

TOPICS

Spring Security · WSO2

07

Third Session (2:00 PM To 3:30 PM)

TOPICS

Advance Spring Boot Configuration · Java 11 Features

08

Fourth Session (3:45 PM To 5:30 PM)

TOPICS

Model Mappers · Mapping in Jason

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.

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