

Micro Services using Spring Boot and Spring Cloud

Total Duration

2 days

Audience:

This workshop is intended for Application developers who know basics of Spring framework and not need to start development of micro services based projects using Spring Boot and Spring cloud.

Course Objectives:

After completing this workshop the participants will be able to

- Develop Micro services
- Work with Spring Boot and Spring Cloud

Pre-requisites:

- Basic knowledge of Java EE(Web Application Basics and Three tier architecture)
- Working knowledge of JPA and Spring

Course Contents:

Day 1

Understanding Services (Theory)

Overview of SOA

Rich Internet Applications

Starting with RESTful Web Services (MicroServices)

REST Overview (Theory)

Characteristics/Capabilities

URI Templates

REST vs SOAP,

REST standards

REST and Spring MVC

Spring support for REST

REST standards

Rest Implementations (Demo + Practice)

Contract first REST Services (e.g. Swagger / YAML)

@RequestMapping

@PathVariable

@RequestBody

@ResponseBody

Getting Started with Spring Boot: (Theory + Practice)

- Spring Boot starters, maven
- Application class
- @SpringBootApplication
- Build as a Runnable jar
- Dependency injection, component scans, Configuration
- Externalize your configuration using application.properties
- Context Root and Management ports
- Logging

Day 2

Introduction to Cloud Vocabulary

Introduction to Spring Cloud
What and Why cloud

Starting with Spring Cloud
Spring Cloud Config Server
Spring Cloud Bus
Spring Cloud Netflix