

Spring Microservices in Action Syllabus

Semester: One (1) Summer Term lasting 3 weeks between Fall and Spring terms/semesters. / 2020

Instructor Information

Instructor

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Office Location & Hours

Tehran, 4 hours a week

General Information

Description

Spring Cloud is an open source Java-based framework used to create a Micro Service.

Course Materials

Required Materials

This tutorial is written for readers who have a prior experience of Java, Spring, Maven, Gradle and Gradle. You can easily understand the concepts of Spring Boot if you have knowledge on these concepts. It would be an additional advantage if you have an idea about writing a RESTful Web Service. If you are a beginner, we suggest you to go through tutorials related to these concepts before you start with Spring Boot. Working With:

Required

Java SE, Java EE, Spring Framework

Course Schedule

Week	Topic	Description
Week 1	Welcome to the cloud, Spring	What's a microservice?
Week 2	Building microservices with Spring Boot	Decomposing the business problem
Week 3	Controlling your configuration with Spring Cloud configuration server	configuration management architecture
Week 4	On service discovery	Where's my service?
Week 5	When bad things happen: client resiliency patterns with Spring Cloud and Netflix Hystrix	Client-side load balancing
Week 6	Service routing with Spring Cloud and Zuul	What is a services gateway?
Week 7	Securing your microservices	Introduction to OAuth2
Week 8	Event-driven architecture with Spring Cloud Stream	Tight Coupling Between Services
Week 9	Distributed tracing with Spring Cloud Sleuth and Zipkin	
Week 10	Deploying your microservices	Anatomy of a Spring Cloud Sleuth trace