

Spring Cloud Fundamentals

Learn the fundamentals of Spring Cloud for building scalable and resilient cloud-native applications.

Category: Programming · Duration: 2 days

WHO IT IS FOR

- Java developers
- DevOps engineers, SREs and ops teams
- Beginners welcome: no prior experience required

This training program covers the basics of Spring Cloud, including service discovery, configuration management, and circuit breakers. Participants will gain hands-on experience in building microservices using Spring Cloud components such as Eureka, Config Server, and Hystrix. By the end of the course, participants will be able to design and deploy highly available and fault-tolerant cloud applications.

Prerequisites

Basic understanding of Spring Framework and microservices architecture.

Syllabus

- Introduction to Spring Cloud
- Service Discovery with Eureka
- Configuration Management with Spring Cloud Config
- Circuit Breakers with Hystrix
- Load Balancing with Ribbon
- API Gateway with Zuul
- Fault Tolerance and Resilience Patterns
- Distributed Tracing with Sleuth
- Microservices Security with Spring Cloud Security
- Service Mesh with Istio
- Best Practices and Case Studies
- Hands-on Labs and Exercises