

Table of Contents

Day1:

1. Spring Overview – IOC, AOP
2. Configuration in Spring (XML / Annotations / Java)
3. Dependency management with Spring BOM
4. Spring MVC without Spring Boot
5. Spring MVC with In Memory, JPA and Spring Data JPA
6. Profiles in Spring
7. Limitations of Spring
8. Conditional Configuration
9. Bootstrapping Spring applications

Day2:

1. Spring Starter dependencies
2. Overriding default Configurations
3. Spring Boot MVC with Thymeleaf
4. Spring Boot REST with WebMVC
5. Spring Data JPA starter
6. Spring Security
7. Actuators
8. Configuration Properties
9. Integration with Docker
10. Profiling
11. Miscellaneous topics (Lombok, Exception handling, Testing)

Day3:

1. Introduction to Microservices
2. Problem with Monolith applications
3. Advantages and disadvantages of Microservices
4. Introduction to Spring Cloud
5. Spring Cloud Config Server
6. Spring Cloud Config server with Git
7. Spring Cloud Eureka Server Configuration
8. Registering Eureka Client with Server
9. Spring Cloud Ribbon for load balancing

Day 4:

1. Spring cloud Feign
2. Implementing REST client with Feign client
3. Circuit breaker pattern
4. Spring Cloud Hystrix

5. Hystrix, Ribbon and Feign client integration
6. API Gateway
7. Spring Cloud Zuul for API gateway
8. Spring Cloud Sleuth for log tracing
9. Spring Cloud Zipkin for Streaming logs

Day 5:

1. Introduction to Log stash
2. Introduction to ELK
3. Configuring ELK to analyze Logs
4. Introduction to Containerization
5. Docker
6. Docker compose