



SPRING MICROSERVICES

WORKSHOP

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About Microservices

Microservices is an **architectural style** which says **decompose** big applications into smaller services subsequently **communicate** those services either synchronously or asynchronously. The microservices projects are developed by using Spring Boot. The Spring Boot has been built on top of Spring Framework and provides Starters, Autoconfiguration, Embedded servers and Actuators features. These boot features help to reduce project code.

What Will You Learn?

- Spring Boot
- Spring Microservices
- Spring Cloud
- Spring Jpa
- Spring Data
- Spring Messaging
- Fat Jar with Embedded Server
- War with External Server

Pre-Requisites

- Spring Core
- Java Based Configuration
- Spring MVC
- Oracle DB
- Maven (optional)

Curriculum

- **SPRING BOOT**

Day 1: Starters	1 hour
Day 1: Auto Configuration	1 hour
Day 1: Embedded Servers	1 hour
Day 1: Actuators	1 hour
Day 1: Spring MVC with Boot	30 min

Day 1: @SpringBootTest	10 min
Day 1: @SpringBootApplication	10 min
Day 1: Spring-boot-admin	10 min
Day 1: Fat Jar with Embedded Server	30 min
Day 1: War with External Server	30 min

- **SPRING JPA**

Day 1: Introduction	10 min
Day 1: Local EntityManager FactoryBean	10 min
Day 1: Local Container EntityManager FactoryBean	10 min
Day 1: @PersistenceUnit	10 min
Day 1: EntityManager	10 min
Day 1: Application	10 min

- **SPRING DATA**

Day 1: CrudRepository	10 min
Day 1: JpaRepository	10 min
Day 1: DSL Grammer	10 min
Day 1: @Query	10 min
Day 1: Application	20 min

- **SPRING MICROSERVICES**

Day 1: Introduction	20 min
Day 1: Principles	10 min
Day 1: Characteristics	30 min
Day 1: Benefits	10 min
Day 1: Ecosystem	20 min
Day 1: Relationship with SOA	10 min
Day 1: Microservice usecases	10 min
Day 1: Microservices with boot	10 min

- **DESIGNING MICROSERVICES**

Day 2: Identifying Microservices boundaries	10 min
Day 2: Endpoints	10 min
Day 2: Synchronous Communication	10 min
Day 2: Asynchronous Communication	10 min
Day 2: Challenges of Microservices	10 min
Day 2: Microservices Capability model	10 min

- **MICROSERVICES CASESTUDY**

Day 2: Brownfield Airline Project	1 hour
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Day 2: Separate DB Schema	10 min
Day 2: REST Endpoints	10 min
Day 2: MESSAGING Endpoints	10 min
Day 2: Communication Styles	20 min
Day 2: RabbitMQ Server	10 min

- **SPRING CLOUD**

Day 2: Introduction	10 min
Day 2: Twelve Factor Principles	10 min
Day 2: Spring Config Server	40 min
Day 2: Spring Cloud Bus	1 hour
Day 2: Feign Rest client	20 min
Day 2: Ribbon Load Balancer	20 min
Day 2: Eureka Server Registry	20 min

- **SPRING MESSAGING**

Day 2: JMS / AMQP	20 min
Day 2: ActiveMQ / RabbitMQ	10 min

- **ENVIRONMENT**

Day 2: Spring Tool Suite (STS)	10 min
Day 2: Rabbit MQ Server	10 min

Day 2: [Maven](#) 10 min

Day 2: [GIT](#) 10 min

Day 2: [Spring Boot](#) 20 min

• **REALTIME PROJECT**

Day : [Code Walk-through](#) 30 min

• **INTERVIEW QUESTIONS**

Day : [FAQs](#) 30 min

Course Info

- **Hours** : 18 hour
- **Duration** : 2 Days [Saturday & Sunday]
- **Slot** : 9AM - 7PM
- **Mode** : Classroom Training
- **Join** : Hyd | Bglr | Pune
- **Demo** : 2 Hours After Registration
- **Downloads** : Materials, Workspace, etc
- **Re Attend** : NO
- **Price** : Contact us
- **Mail** : balaji@java2aspire.com
- **Contact** : 7799108899 / 7799208899