

# Spring Boot Microservices

Course code: JSPRINGBOOT1

The aim of this course is to familiarize students with the design and development of distributed applications deployable in a cloud environment. The course will familiarize you with the microservices architecture, the advantages and disadvantages of this approach, with the procedures and tools for successfully managing and implementing microservices on the popular Spring Boot and Spring Cloud platforms, including deploying and running this type of application.

| Affiliate  | Duration | Course price | ITB |
|------------|----------|--------------|-----|
| Praha      | 5        | 46 500 Kč    | 50  |
| Brno       | 5        | 46 500 Kč    | 50  |
| Bratislava | 5        | 2 100 €      | 50  |

The prices are without VAT.

## Course terms

| Date                                                                                         | Duration | Course price | Type         | Course language | Location         |
|----------------------------------------------------------------------------------------------|----------|--------------|--------------|-----------------|------------------|
|  30.11.2026 | 5        | 46 500 Kč    | Telepresence | CZ/SK           | GOPAS Praha      |
|  30.11.2026 | 5        | 46 500 Kč    | Telepresence | CZ/SK           | GOPAS Brno       |
|  30.11.2026 | 5        | 2 100 €      | Telepresence | CZ/SK           | GOPAS Bratislava |

The prices are without VAT.

## What we teach you:

- Understand architecture and microservice modeling
- You will learn how to implement microservices using Spring Boot and Spring Cloud
- You will learn how to integrate, deploy, test, and operate microservices

## Who the course is for:

- The course is designed for developers on the Java

## Required skills:

- Basic knowledge of Java SE and Spring Framework

## Teaching methods:

- Professional explanation with practical samples and examples.

## Teaching materials:

- Powerpoint handouts and module printouts.

## Course syllabus:

### Introduction to Microservices

- Basic principles
- Advantages and disadvantages

### Modeling microservices

- Functional and Modular Decomposition
- Basics of Domain Driven Design
- What is a domain model?
- Bounded context
- Entities, Aggregates, Repositories, Events and Services
- Principles and Patterns

#### GOPAS Praha

Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[info@gopas.cz](mailto:info@gopas.cz)

#### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 530 513 590  
[info@gopas.cz](mailto:info@gopas.cz)

#### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)



Copyright © 2026 GOPAS, a.s.,  
All rights reserved

# Spring Boot Microservices

## Implementation of Microservices - Introduction to Spring Boot

- Fundamentals and Purpose of Spring Boot
- Spring Boot starters
- Web application and embedded web server
- Data persistence

## Implementation of Microservices - Introduction to Spring Cloud

- Spring cloud sub-projects and Netflix OSS
- Configuration server for centralized configuration
- Service register, server, client - Netflix Eureka
- Load balancing on client side - Netflix Ribbon
- Circuit breaker - Netflix Hystrix
- Declined REST Client - Feign

## Integration of Microservices

- Styles of communication between services
- RestAPI - Swagger
- Messaging, Spring Cloud Streams, RabbitMQ and Apache Kafka
- Gateway API - Netflix Zuul

## Deploying Microservices

- Virtualization and containers
- Docker
- Overview of Runtime Platforms
- DevOps, CI / CD and automation
- Scalability of services

## Testing of Microservices

## Operation of Microservices

- Centralized logging
- Monitoring
- Spring Actuator and Spring Admin Server
- Distributed tracing - Spring Sleuth, Zipkin

### GOPAS Praha

Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 530 513 590  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)



Copyright © 2026 GOPAS, a.s.,  
All rights reserved