

# Course Summary

The Working with Spring Boot training course will immerse students already familiar with the Spring framework with the skills necessary to develop microservices with Spring Boot. Spring Boot is an open-source, Java-based, framework used to build microservices in a simple, elegant way, improving developer productivity.

The course begins with a quick introduction of core Spring framework concepts, like Inversion of Control (IoC), annotations, and Spring configuration. Then, the course will transition into code-level concepts that are key to Spring Boot. Finally, the course will conclude with hands-on instruction in using Spring Boot to create a microservice application.

<b>Purpose</b>	Learn how to build microservices using the Spring Boot framework.
<b>Audience</b>	Software Developers looking to adopt Spring Boot that have a solid background in Java programming and at least basic exposure to the Spring Framework.
<b>Role</b>	Software Developer - Technical Manager
<b>Skill Level</b>	Intermediate
<b>Style</b>	Learning Spikes - Workshops
<b>Duration</b>	3 Days
<b>Related Technologies</b>	Java   Spring.io

## Productivity Objectives

- Understand the difference between Spring and Spring Boot.
- Explain code-level concepts that are key to Spring Boot.
- Implement several microservices that interact as a single application using Spring Boot.

## What You'll Learn:

### In the Working with Spring Boot training course, you'll learn:

- Spring Framework Fundamentals
  - Key Concepts
  - Inversion of Control (IoC) and Dependency Injection
  - Java Annotations
  - Spring Configuration
- Introduction to Web Services

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## Pluralsight

- SOAP Web Services
- REST Web Services
- Using Spring Boot with Databases
  - Basic Auto-configuration
    - Datasource and Pooling
  - Configuration Properties
  - JPA support in Spring Boot
    - Data-JPA in Detail
    - CrudRepository/JPRepository
  - Defining Queries with Spring Boot Data
- Building RESTful web services with Spring Boot
  - Initializing your first project
  - Create a "Hello World" service
  - Enhancing the service with several new features
  - Implementing both GET and POST methods within your service
  - Implementing exception handling
  - Implementing DELETE method in your service
  - Implementing validations
  - What is HATEOAS and how do I implement it?
  - Monitoring your web service
  - Implementing filtering
  - Securing your web service with basic authentication
- Spring Security Review
  - Spring Boot Starter Security
  - Spring Boot Data REST
- Service Orchestration
  - Sending messages between services
  - Receiving messages from other services
  - Build a sample application using several microservices
- Spring Boot CLI
- Q/A

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