Spring Cloud Services

COURSE OVERVIEW
Microservices are becoming a software and organization pattern for delivering business value quickly. Spring Boot and Spring Cloud are a powerful combination for building modern microservices architectures that leverage industry tests technology like distributed configuration, services discovery and circuit breakers.

The 2-day Spring Cloud Services course provides participants with a background on why Cloud Native and microservices are important to adding business value quickly. The course leverages Spring Boot and Spring Cloud to solve the challenges associated with running a distributed, microservice based architecture. Participants will also explore the value that a Platform-as-a-Service, such as Pivotal Cloud Foundry, adds in the microservices-based world.

COURSE OBJECTIVES
Upon completion of this course, participants will understand the following:

- Cloud Native Architecture
- Organizational changes required to implement a Cloud Native Architecture
- Distributed configuration using Spring Cloud Config
- Services Discovery using Spring Cloud Eureka
- Client Side Load Balancing using Ribbon
- Circuit Breakers using Spring Cloud Hystrix
- Using Spring Cloud Services on PCF

PREREQUISITES
- Java Spring experience
- Spring Boot experience

COURSES
- Instructor-led:
- Live online

TARGET AUDIENCE
Developers interested in learning how to construct cloud-native applications using the Spring Cloud family of projects.

PRICING
Please visit our website at pivotal.io/training

MORE INFORMATION
On-site training is also available for customers who prefer to bring a Pivotal Certified Instructor to their own facilities. For more information about on-site classes, contact us at pivotal.io/training/contact.
COURSE MODULES

1. OVERVIEW
   • Why build Cloud Native apps?

2. CLOUD NATIVE CHANGES
   • Cultural changes
   • Organization changes
   • Technical changes

3. SPRING BOOT AND PIVOTAL CLOUD FOUNDRY PRIMER
   • Building a simple Spring Boot App with Backing Database
   • Deploying to Pivotal Cloud Foundry

4. MICROSERVICES
   • Cloud Native Design
   • Overview of microservices

5. SPRING CLOUD
   • Configuration management with Spring Cloud Config
   • Service discovery with Spring Cloud Netflix Eureka
   • Client side load balancing with Spring Cloud Netflix Ribbon
   • Circuit breakers with Spring Cloud Netflix Hystrix
   • Circuit breaker metric aggregation with spring cloud Netflix turbine

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