MicroServices with Spring Cloud

Topics

- Monoliths vs MicroServices
- MicroServices Architectures
- Exploring Spring Cloud Projects:
 - Spring Cloud Contract
 - Spring Cloud Netflix: Hystrix, Eureka, Ribbon, Feign
 - Spring Cloud Config
- Deploying to Pivotal Cloud Foundry with Spring Cloud Services

Approach

Learn by doing

Aside from the starting application, you will be implementing the solution, doing all of the coding in each lab

Journey

- Begin with a sample application
- Extract a MicroService from it
- Discover what happens when the logic is no longer in a single, selfcontained application

From this refactoring will emerge the need for:

- Service-to-Service Integration Testing
- Making services less brittle and more tolerant of failures in other services
- Service Discovery
- Service-to-Service Load Balancing
- Centralized Configuration

With each topic, we'll explore a number of Spring Cloud projects that address these needs:

- Spring Cloud Contract
- Spring Cloud Netflix: Hystrix, Eureka, Ribbon, Feign
- Spring Cloud Config

Deploying the Solution

In the final step in the journey, we will deploy these applications to Pivotal Cloud Foundry (PCF), with the aid of the *Spring Cloud Services* tile for PCF