

Spring microservices in action 2019 pdf

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Java is a great language to use when developing a microservice architecture. In fact, some of the biggest names in our industry use it. Have you ever heard of Netflix, Amazon or Google? What about eBay, Twitter and LinkedIn? Yes, the big companies that handle amazing traffic are doing it with Java. Implementing a microservices architecture in Java is not for everyone. For this reason, the implementation of microservices, in general, is often not necessary. Most companies do it to scale their people, not their systems. If you're going to scale your people, hiring Java developers is one of the best ways to do that. After all, there are more developers fluent in Java than most other languages - although JavaScript seems to be able to catch up quickly! The Java ecosystem has some established models for developing microservice architectures. If you are familiar with spring, you will feel at home developing with Spring Boot and Spring Cloud. Since this is one of the quickest ways to get started, I thought I'd walk you through a quick tutorial. If you prefer to watch a video, I've created a screencast of this blog post. In most of my tutorials, I show you how to build everything from scratch. Today I would like to take a different approach and go through a pre-built example with you. Hopefully, this will be a bit shorter and easier to understand. git clone cd java-microservices-examples/spring-boot-cloud In the spring-boot+cloud directory there are three projects: Discover-services a Netflix Eureka server, used for discovering services, car-service: a simple car service that uses Spring Data REST to serve a car REST API. api-gateway: an API gateway that has a /cool-cars endpoint that talks to the car service and filters cars that are not cool (in my opinion, of course). bootVersion=2.2.5.RELEASE Translation: name=eureka-service \ dependencies=cloud-eureka-server baseDir=discovery-service | tar -xvzf - http bootVersion=2.2.5.RELEASE \ artefactId=car-service name=car-service baseDir=car-service \ dependencies=actuator,cloud-eureka,data-jpa,h2,data-rest,web,devtools,lombok | tar -xvzf - http bootVersion=2.2.5.RELEASE \ artefactId=api-gateway name=api-gateway baseDir=api-gateway \ dependencies=cloud-eureka,cloud-feign,data-rest,web,cloud-hystrix,lombok | tar -xvzf - The discovery service is configured the same as most Eureka servers would. It has an @EnableEurekaServer annotation about its main class and properties that have set its port and turn off the discovery. server.port=8761 eureka.client.register-with-eureka=false The car-service and api-gateway projects are configured similarly. have a single name defined and the car service is configured to run on port 8090 so that it does not conflict with 8080. 8080.server.port=8090 spring.application.name=car-service api-gateway/src/main/resources/applications.properties spring.application.name=api-gateway The main class in both projects is annotated with @EnableDiscoveryClient. The self-service provides a REST API that allows you to CRUD (Create, Read, Update and Delete) cars. Creates a default set of cars when the application loads using an ApplicationRunner bean. car-service/src/main/java/com/example/carservice/CarServiceApplication.java package com.example.carservice; import lombok. Data; import org.springframework.boot.ApplicationRunner; import org.springframework.boot.SpringApplication; import org.springframework.boot.autoconfigure.SpringBootApplication; import org.springframework.cloud.client.discovery.EnableDiscoveryClient; import org. framework. Bean; import org.springframework.data.jpa.repository.JpaRepository; import org.springframework.data.rest.core.annotation.RepositoryRestResource; import javax.persistence.Entity; import javax.persistence.GeneratedValue; import javax.persistence.Id; import java.util.stream. Retrieved 28 March 2011. ^ EnableDiscoveryClient @SpringBootApplication public static void main (String[] args) { SpringApplication.run (CarServiceApplication.class, args); } @Bean ApplicationRunner init(CarRepository repository) {Real args -> { Stream.of("Ferrari @Entity class Car { public Car(Strategy name) { this.name = name; } @Id @Generated Private value Long id; @NonNull private string name; } @RepositoryRestInterface resource CarRepository extends JpaRepository { } Feign makes it easier to write Java HTTP clients. Spring Cloud allows you to create a Feign client with just a few lines of code. Hystrix allows you to add failover functionality to your Feign clients, so they are more resilient. The api-gateway uses Feign and Hystrix to talk to the downstream auto service and failover to a fallback() method if it is not available. It also exposes a /cool-cars endpoint that filters cars you might not want to own. api-gateway/src/main/java/com/example/apigateway/ApiGatewayApplication.java package com.example.apigateway; import com.netflix.hystrix.contrib.javanica.annotation.HystrixCommand; import lombok. The data; import org.springframework.boot.SpringApplication; import org.springframework.boot.autoconfigure.SpringBootApplication; import org.springframework.cloud.client.circuitbreaker.EnableCircuitBreaker; import org.springframework.cloud.client.discovery.import org.springframework.web.bind.annotation.CrossOrigin; import org.springframework.web.bind.annotation.GetMapping; import org.springframework.web.bind.annotation.RestController; import java.util. ArrayList; import java.util. Agriculture and fishing (Client) (Private trolley) (Client) {(CarClient) = CarClient = carClient; } Private collection (Tanto) (Return ArrayList()); } @GetMapping("/cool-carri") @CrossOrigin @HystrixComget(fallbackMethod) and see that I have already configured security in this microservice architecture using OAuth 2.0 and OIDC. What's the difference between the two? OIDC is an extension to OAuth 2.0 that provides identity. It also provides discovery so that all OAuth 2.0 endpoints can be discovered by a single URL (called issuer). How did I configure security for all these microservices? I'm glad you asked! I added Okta's Spring Boot Starter to pom.xml in api-gateway and car-service. API > Authorization Server > Default Access Policy >. click the default policy and change its rule. Then change the length of access to tokens from 1 hour to 5 minutes. Go do something else for more than 5 minutes. Go back, refresh your browser, and you will see [I instead of all cars. I'm still working on a solution to this and I'll update this post once I find one. If you happen to know a solution, please let me know! Changelog:Raible is a well-known figure in the Java community and is building web applications for most of his adult life. For over 20 years, it has helped developers learn and adopt open source frameworks and them effectively. He's a web developer, Java Champion and Developer Advocate in Okta. Matt has been a speaker at many conferences around the world, including Devvxx Belgium, Devvxx France, Jfokus and Devnexus. He is the author of The Angular Mini-Book, The JHipster Mini-Book, Spring Live, and has collaborated on Pro JSP. He often collaborates with open source and is part of the JHipster development team. You can find it online @mraible and raibledesigns.com. raibledesigns.com.

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