Spring Boot Microservices-Week 5

## eureka-discovery-server/pom.xml

<project xmlns="http://maven.apache.org/POM/4.0.0"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0   
 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
 <groupId>com.example</groupId>  
 <artifactId>eureka-discovery-server</artifactId>  
 <version>0.0.1-SNAPSHOT</version>  
 <dependencies>  
 <dependency>  
 <groupId>org.springframework.cloud</groupId>  
 <artifactId>spring-cloud-starter-netflix-eureka-server</artifactId>  
 </dependency>  
 </dependencies>  
</project>

## eureka-discovery-server/src/main/java/com/example/eureka/EurekaDiscoveryServerApplication.java

package com.example.eureka;  
  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
import org.springframework.cloud.netflix.eureka.server.EnableEurekaServer;  
  
@SpringBootApplication  
@EnableEurekaServer  
public class EurekaDiscoveryServerApplication {  
 public static void main(String[] args) {  
 SpringApplication.run(EurekaDiscoveryServerApplication.class, args);  
 }  
}

## eureka-discovery-server/src/main/resources/application.yml

server:  
 port: 8761  
  
eureka:  
 client:  
 register-with-eureka: false  
 fetch-registry: false

## account-service/pom.xml

<project xmlns="http://maven.apache.org/POM/4.0.0"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0   
 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
 <groupId>com.example</groupId>  
 <artifactId>account-service</artifactId>  
 <version>0.0.1-SNAPSHOT</version>  
 <dependencies>  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-web</artifactId>  
 </dependency>  
 <dependency>  
 <groupId>org.springframework.cloud</groupId>  
 <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>  
 </dependency>  
 </dependencies>  
</project>

## account-service/src/main/java/com/example/account/AccountController.java

package com.example.account;  
  
import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.RequestMapping;  
import org.springframework.web.bind.annotation.RestController;  
  
@RestController  
@RequestMapping("/account")  
public class AccountController {  
 @GetMapping("/status")  
 public String status() {  
 return "Account service is up!";  
 }  
}

## account-service/src/main/resources/application.yml

server:  
 port: 8081  
spring:  
 application:  
 name: account-service  
eureka:  
 client:  
 serviceUrl:  
 defaultZone: http://localhost:8761/eureka

## loan-service/pom.xml

<project xmlns="http://maven.apache.org/POM/4.0.0"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0   
 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
 <groupId>com.example</groupId>  
 <artifactId>loan-service</artifactId>  
 <version>0.0.1-SNAPSHOT</version>  
 <dependencies>  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-web</artifactId>  
 </dependency>  
 <dependency>  
 <groupId>org.springframework.cloud</groupId>  
 <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>  
 </dependency>  
 </dependencies>  
</project>

## loan-service/src/main/java/com/example/loan/LoanController.java

package com.example.loan;  
  
import org.springframework.web.bind.annotation.GetMapping;  
import org.springframework.web.bind.annotation.RequestMapping;  
import org.springframework.web.bind.annotation.RestController;  
  
@RestController  
@RequestMapping("/loan")  
public class LoanController {  
 @GetMapping("/status")  
 public String status() {  
 return "Loan service is up!";  
 }  
}

## loan-service/src/main/resources/application.yml

server:  
 port: 8082  
spring:  
 application:  
 name: loan-service  
eureka:  
 client:  
 serviceUrl:  
 defaultZone: http://localhost:8761/eureka

## api-gateway/pom.xml

<project xmlns="http://maven.apache.org/POM/4.0.0"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0   
 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
 <groupId>com.example</groupId>  
 <artifactId>api-gateway</artifactId>  
 <version>0.0.1-SNAPSHOT</version>  
 <dependencies>  
 <dependency>  
 <groupId>org.springframework.cloud</groupId>  
 <artifactId>spring-cloud-starter-gateway</artifactId>  
 </dependency>  
 <dependency>  
 <groupId>org.springframework.cloud</groupId>  
 <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>  
 </dependency>  
 </dependencies>  
</project>

## api-gateway/src/main/resources/application.yml

server:  
 port: 8080  
  
spring:  
 application:  
 name: api-gateway  
 cloud:  
 gateway:  
 routes:  
 - id: account-service  
 uri: lb://account-service  
 predicates:  
 - Path=/account/\*\*  
 - id: loan-service  
 uri: lb://loan-service  
 predicates:  
 - Path=/loan/\*\*  
  
eureka:  
 client:  
 serviceUrl:  
 defaultZone: <http://localhost:8761/eureka>

**output:**

