Pom.xml:

<dependency>

<groupId>org.springframework.cloud</groupId>

<artifactId>spring-cloud-starter-gateway</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-webflux</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-actuator</artifactId>

</dependency>

dependencyManagement:

<dependencyManagement>

<dependencies>

<dependency>

<groupId>org.springframework.cloud</groupId>

<artifactId>spring-cloud-dependencies</artifactId>

<version>2022.0.4</version> <!-- Compatible with Spring Boot 3 -->

<type>pom</type>

<scope>import</scope>

</dependency>

</dependencies>

</dependencyManagement>

application.properties Configuration:

spring.application.name=edge-service

server.port=8080

spring.cloud.gateway.routes[0].id=example\_route

spring.cloud.gateway.routes[0].uri=http://httpbin.org

spring.cloud.gateway.routes[0].predicates[0]=Path=/example/\*\*

spring.cloud.gateway.routes[0].filters[0]=RewritePath=/example/(?<segment>.\*), /$\{segment}

**Custom Global Filter for Logging:**

import org.springframework.cloud.gateway.filter.GlobalFilter;

import org.springframework.core.annotation.Order;

import org.springframework.stereotype.Component;

import org.springframework.web.server.ServerWebExchange;

import reactor.core.publisher.Mono;

import org.springframework.cloud.gateway.filter.GatewayFilterChain;

@Component

@Order(1)

public class LoggingFilter implements GlobalFilter {

@Override

public Mono<Void> filter(ServerWebExchange exchange, GatewayFilterChain chain) {

System.out.println("[Logging Filter] Request URI: " + exchange.getRequest().getURI());

return chain.filter(exchange);

}

}