

# spring cloud zuul 服务网关

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原文链接: <https://ld246.com/article/1539505139090>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

# spring cloud zuul

## Mave导入

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-actuator</artifactId>
</dependency>
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-netflix-zuul</artifactId>
</dependency>
```

## 开启zuul

- 增加 `@EnableZuulProxy`

## 整合ribbon

### 配置路由规则

```
server.port = 7070
# zuul.routes.${app-name} = /${app-url-prefix}/**
zuul.routes.person-service = /person-service/**
# 取消ribbon eureka的整合
ribbon.eureka.enable = false
# 配置person-service的负载均衡
person-service.ribbon.listOfServers = http://localhost:8083 //服务提供地址
```

## 启动项目

eureka server

provider

zuul

## 访问测试

localhost:7070/person-service/demo/getHost -> 返回true,表示成功

/person-service 是服务的名称

/demo/getHost 是localhost:8083的服务

调用链路:zuul --> person-service

## 整合eureka

zuul项目

### Maven导入

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
</dependency>
```

### 激活服务注册和发现客户端

@EnableDiscoveryClient

### 配置

```
spring.application.name = zuul-service
server.port = 7070
# zuul.routes.${app-name} = /${app-url-prefix}/**
zuul.routes.person-service = /person-service/**
# 取消ribbon eureka的整合
ribbon.eureka.enable = false
# 配置person-service的负载均衡
person-service.ribbon.listOfServers = http://localhost:8083 //服务提供地址
# 服务注册和发现客户端地址
eureka.client.service-url.defaultZone = http://localhost:9090/eureka
```

## 整合Hystrix

provider项目

### Maven导入

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-netflix-hystrix</artifactId>
</dependency>
```

### 开启Hystrix

@EnableHystrix

### 配置规则

```
@RestController
public class PersonController {
```

```

public Random random = new Random();
@PostMapping("/person/save")
@HystrixCommand(fallbackMethod="fallback",
    commandProperties = {
        @HystrixProperty(name = "execution.isolation.thread.timeoutInMilliseconds",
            value = "100")
    }
)
boolean save(@RequestBody Person person) throws InterruptedException {
    System.out.println("remote request ok !");
    int i = random.nextInt(200);
    Thread.sleep(i);
    System.out.println("随机 : "+i);
    return new HashMap<>().put(person.getId(),person)==null;
}
public List fallback(){
    return new ArrayList();
}
}

```

## 整合Feign

服务消费方 : person-client

### 配置

```

server.port = 8082
spring.application.name = person-consumer
eureka.client.service-url.defaultZone = http://localhost:9090/eureka
management.endpoints.web.exposure.include=*

```

服务网关 :zuul

### 增加路由应用到client

```
zuul.routes.person-consumer = /person-consumer/**
```

### 访问测试

localhost:7070/person-consumer/demo/getHost -> 返回true,表示成功

调用链路:zuul --> person-consumer --> person-provider

## 整合config server

config server配置

```

server.port = 9091
spring.application.name = ws

```

```
### 拉取远程git中配置
spring.cloud.config.server.git.uri = file:///${user.dir}/src/main/resources/configs
### 关闭actuator验证
management.endpoints.enabled-by-default=true
```

## zuul增加配置文件

三个profile配置文件

- zuul.properties
- zuul-test.properties
- zuul-prod.properties

zuul.properties

```
zuul.routes.person-service = /person-service/**
```

zuul-test.properties

```
zuul.routes.person-consumer = /person-consumer/**
```

zuul-prod.properties

```
zuul.routes.person-service = /person-service/**
zuul.routes.person-consumer = /person-consumer/**
```

[file:///\\${user.dir}/src/main/resources/configs](file:///${user.dir}/src/main/resources/configs)目录下初始化git,并提交

## 增加eureka客户端依赖

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
</dependency>
```

## 注册到eureka服务器

```
# 注册到eureka服务器
eureka.client.service-url.defaultZone = http://localhost:9090/eureka
```

## 激活Eureka

```
@EnableDiscoveryClient
```

## 测试配置

<http://localhost:9091/zuul/default>

zuul配置

## 增加config client 依赖

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-config</artifactId>
</dependency>
```

## 创建bootstrap.properties配置项

```
# 远程地址properties 前缀 [ws.properties]
spring.cloud.config.name = zuul
# 远程地址properties -后缀 [ws-dev.properties]
spring.cloud.config.profile = default
# git仓库分支
spring.cloud.config.label = master
# 采用Discovery client连接方式
spring.cloud.config.discovery.enabled = true
# 通过eureka注册中心选择config服务
spring.cloud.config.discovery.serviceId = config-server
```

## 测试访问

访问 : localhost:7070/person-service/person/save

调用路径 : zuul --> person-service --> person-provider

访问 : localhost:7070/person-service/person/save

调用路径 : zuul --> person-provider

所以config服务器配置生效