Gateway服务器

采用spring-cloud-gateway作为网关服务器。可以实现服务动态发现,负载均衡,访问认证,限流控制等功能。

网关采用【自动发现】+【自定义网关】组合实现,gateway路由匹配原理参考nginx(访问url在匹配到对应的路由后即停止)

网关匹配顺序需配置相应的order,自动发现路由order默认为0,自定义网关order根据需要调整

查看所有网关

http://{gateeayIp}:{gatewayPort}/actuator/gateway/routes

负载均衡

默认全局采用轮询规则 RoundRobinRule, 可以根据需要调整

自定义ribbon规则参考:

custom ribbon config

ribbon

user-management:#

ribbon:

- # NFLoadBalancerRuleClassName: com.netflix.loadbalancer.RandomRule #
- # NFLoadBalancerRuleClassName: com.netflix.loadbalancer.RoundRobinRule #
- # NFLoadBalancerRuleClassName: com.netflix.loadbalancer.RetryRule #
- # NFLoadBalancerRuleClassName: com.netflix.loadbalancer.

WeightedResponseTimeRule #

NFLoadBalancerRuleClassName: com.netflix.loadbalancer.

BestAvailableRule #

ConnectTimeout: 1000 #
ReadTimeout: 5000 #

OkToRetryOnAllOperations: true #
MaxAutoRetriesNextServer: 3 #

MaxAutoRetries: 2 #

访问控制

- 1. 默认对所有请求进行拦截,统一调用单点登录服务API进行校验
- 2. 不需要拦截的请求需进行过滤,配置如下:

```
权限 GlobalFilter

access:
filters:
- /forgetpsw
- download
- /user/logout
- /user/login
- /securityPolicys
- /sysmessage
- /ws/ReceiveOrderSendService.wsdl
```

限流

推荐采用gateway自带的令牌桶算法filter,配置如下:

```
限流
spring:
  application:
   name: gateway
  cloud:
                # spring cloud gateway
    gateway:
      discovery:
        locator:
          enabled: true
          lowerCaseServiceId: true
      routes:
        - id: user-management
          uri: lb://user-management
          order: -1
          predicates:
            - Path=/user-management/forgetpsw/**
          filters:
            - StripPrefix=1
            - name: RequestRateLimiter
                key-resolver: "#{@ipKeyResolver}"
                redis-rate-limiter.replenishRate: 1
                redis-rate-limiter.burstCapacity: 1
```