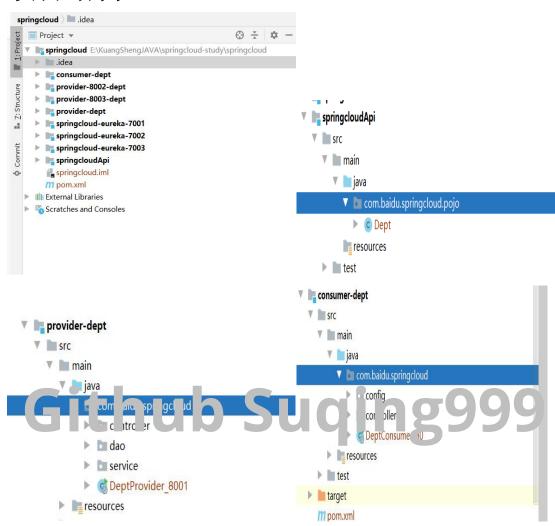
SpringCloud 操作记录

项目结构



Eureka 注册

```
public class DeptConsumerController {
                                       //dubbo 和 zookeeper rpc时候是 reference引用接口
                                        //消费者不应该有service请求
                        //找restful风格 此时可以发现有resttemplate模板 用于请求供我们直接调用就可以
                                         //把template注册到spring中,没有@bean 手动构造config
17
18 🖎
                                     private RestTemplate restTemplate; //提供多种便捷访问远程http的
                                                                                                                                                                                                                                                                                                                     Ribbon是用微服务名字
20
                                       private static final String REST_URL_PREFIX="http://SPRINGCLOUD-PROVIDER-DEPT";
                                      @RequestMapping("/consumer/dept/add")
public boolean add( Dept dept){
                                                 return restTemplate.postForObject(und: REST_URL_PREFIX+"/dept/add", dept,Boolean.class);
27 % 30
                                       public List<Dept> getList() { return restTemplate.getForObject( url: REST_URL_PREFIX+"/dept/list", List.class); }
                                       @RequestMapping("/consumer/dept/get/{id}")
                                      public Dept get(@PathVariable("id") Long id){
    //此时需要去localhost:8001/dept/get/{id} 傘
    return restTemplate getForObject(understand)    return restTemplate getForObject(
32
```

SpringCloud 拿取外部接口需要 RestTemplate 才可以

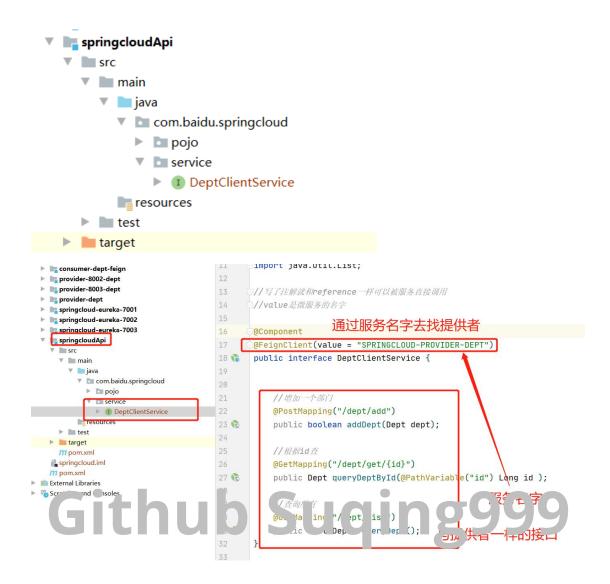
```
package com.baidu.springcLoud.contig;
2
3
      import org.springframework.cloud.client.loadbalancer.LoadBalanced;
4
      import org.springframework.context.annotation.Bean;
5
      import org.springframework.context.annotation.Configuration;
6
      import org.springframework.web.client.RestTemplate;
7
8
      @Configuration
9
      public class ConfigBean {
10
          //@Configuration 相当于 applicationContext.xml
           //配置负载均衡
                        //Ribbon就行了 通过Irule可以 自定义轮询算法
13
          @LoadBalanced
14
15
          @Bean
          public RestTemplate getRestTemplate() { return new RestTemplate(); }
16
19
20
```



```
@SpringBootApplication
  @=nableEurekaClient
  public class DeptConsumer_80 {
      public static void main(String[] args) { SpringApplication.run(DeptConsumer_80.class, args); }
  application.yaml ×
  1
        server:
  2
             port: 80
  3
          #Eureka
        eureka:
  5
            client:
                                                     三个注册中心的地址(集群
                register-with-eureka: false
  6
                service-url:
  8
                  defaultZone: http://127.0.0.1:7001/coreka/
                                 消费者也要从数据中拿数据
server:
      port: 8001
      type-aliases-package: com.baidu.springcloud.pojo
      config-location: classpath:mybatis/mybatis-config.xml
      mapper-locations: classpath:mybatis/mapper/*.xml
     #spring配置
10
     spring:
       lication |
      name sp. yolo p. ide dend
     ser me: t
        password: root
        driver-class-name: org.gjt.mm.mysql.Driver
        url: jdbc:mysql://192.168.1.100:3306/dbsuki?useUnicode
                                                 rue&characte
                                                          Encoding=utf-8
18
        type: com.alibaba.druid.pool.DruidDataSource
20
21
      client: #客户端注册进eureka服务列表内
        service-url:
         defaultZone: http://eureka7002.com:7002/eureka/,http://eureka7003.com:7003/eureka/,http://eureka7001.com:7001/eureka/
$ −
     server:
       2
             port: 7001
       4
            #配置eureka
       5
             eureka:
       6
             instance:
               hostname: eureka7001.com
                                                                   注册中心的集群配置
       8
                registerWithEureka: false
       9
      10
                 fetchRegistry: false
                 service-url:
                defaultZone: http://eureka7002.com:7002/eureka/,http://eureka7003.com:7003/eureka/
      14
                  #defaultZone: http://${eureka.instance.hostname}:${server.port}/eureka/
                  #集群 (关联其他两台机器)
```

Feign 实现 扫描包

```
package com.baidu.springcloud;
       import org.springframework.boot.SpringApplication;
       import org.springframework.boot.autoconfigure.SpringBootApplication;
       import org.springframework.cloud.netflix.eureka.EnableEurekaClient;
6
       import org.springframework.cloud.openfeign.EnableFeignClients;
       import org.springframework.context.annotation.ComponentScan;
9 8
       @SpringBootApplication
10
       @EnableEurekaClient
   11 8
                                    {"com ared.springcloud"}
          Jbl st ic oi ma (Si inc args) of prograti
                                                           ı.r ı(l ptC ısı er Feign ).clas
16
   @RestController
   public class DeptConsumerController {
       //dubbo 和 zookeeper rpc时候是 reference引用接口
       //消费者不应该有service请求
       //找restful风格 此时可以发现有resttemplate模板 用于请求供我们直接调用就可以
       //把template注册到spring中,没有@bean 手动构造config
       //@Autowired
       //private RestTemplate restTemplate; //提供多种便捷访问远程http的方法 简单的restful服务模板
       //private static final String REST_URL_PREFIX="http://localhost:8001";
       //此时ribbon应该拿某一个服务来做请
       //private static final String REST_URL_PREFIX="http://SPRINGCLOUD-PROVIDER-DEPT";
       @Autowired
                                                   这里是最大的一个点!!!!
       private DeptClientService deptClientService:
                                                   Feign是面向接口和注解的
       @RequestMapping("/consumer/dept/add")
       public boolean add( Dept dept) { return deptClientService.addDept(dept); }
       @RequestMapping("/consumer/dept/list")
       public List<Dept> getList() { return deptClientService.queryDept(); }
       @RequestMapping("/consumer/dept/get/{id}")
       public Dept get(@PathVariable("id") Long id) { return deptClientService.queryDeptById(id); }
```



Hysitrix 服务熔断

```
//启动类

@EnableEurekaClient

@EnableCircuitBreaker //添加对容器的支持(打开断路器!)

public class DeptProvider_8001_hystrix {

public static void main(String[] args) { SpringApplication.run(DeptProvider_8001_}
}
```

```
@HystrixCommand(fallbackMethod = "queryByid_Hystrix") //失败了调用各选方法(方法名字)
@GetMapping("/dept/get/{id}")
public Dept queryByid(@PathVariable("id") Long id){
    Dept dept = deptService.queryDeptById(id);
    if(dept==null){
        throw new RuntimeException("id=>"+id+"不存在该用户,或者信息无法找到");//id不存在抛出异常
    }
    return dept;
}

// 各选方案
public Dept queryByid_Hystrix(@PathVariable("id") Long id){
    return new Dept()
        .setDeptno(id)
        .setDpame("hystrix 不存在该id")
        .setDb_source("没有这个数据库"); //链式编程 需要在pojo加@Accessors(chain = true) 注解
}
```

熔断效果:



{"deptno": 42, "dname": "hystrix 不存在该id", "db_source": "没有这个数据库"}

Hetit 門祭 Suqing999



{"deptno": 44, "dname": "没有对应的信息", "db_source": "没有对应的数据库"}

Hystrix 监控工具 dashboard

新建一个 9001 客户端,导入 hy 和 dash 两个包,写个主启动类即可



最好在监控方法加@HysitrixCommand

registrationBean.addUrlMappings("/actuator/hystrix.stream");//访问该页面就会被监控

ServletRegistrationBean registrationBean = new ServletRegistrationBean(new HystrixMetricsStreamSer

public ServletRegistrationBean hystrixMetricsStreamServlet(){

@Bean

return registrationBean;

zuul 路由网关的作用

```
7 8
       @SpringBootApplication
     @EnableZuulProxy
       public class ZuulApplication 9527 {
          public static void main(String[] args) { SpringApplication.run(ZuulApplication_9527.class, args); }

dapplication.yml →

      server:
       port: 9527
     spring:
       application:
        name: springcloud-zuul #服务中心注册的名字
     eureka:
       client:
 10
         service-url:
          defaultZone: http://eureka7002.com:7002/eureka/,http://eureka7003.com:7003/eureka/,http://eureka7001.com
启动即可,
                         (i) localhost:8001/dept/get/1
 🕎 IDEA插件 째 Maven Repository:... 🦰 mybatis-spring – 🦰 mybatis
{"deptno":1, "dname":"开发部", "db_source":"dbsuki"}
服务的名字在,不安全!
                       ▲ 不安全 | www.suki.com:9527/springcloud-provider-dept/dept/get/1
🚇 IDEA播件 🚾 Maven Repository:... 🖒 mybatis-spring – 🕒 mybatis – MyBatis... 🥏 Core Technologies 🕏 D
{"deptno":1, "dname":"开发部", "db_source":"dbsuki"}
避免暴露!!!! (加一个配置)
 zuul:
    routes:
      mydept.serviceId: springcloud-provider-dept #这是原来的
```

mydept.path: /mydept/** #现在用mydept来进行



{"deptno": 34, "dname": "hystrix 不存在该id", "db_source": "没有这个数据库"}

但是现在源路径 springcloud-provider-dept 还可以进行访问,不允许,需要忽略服务,继续配置(使用"*"通配符全部隐藏真实名字)



之后访问必须有 suki 开头