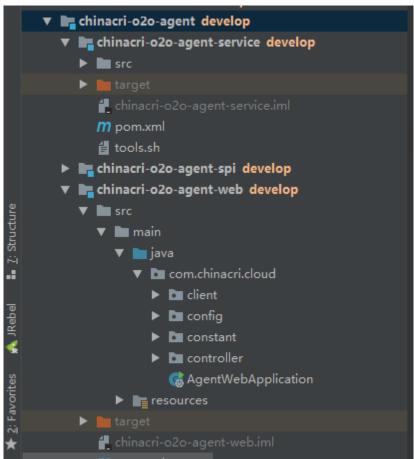
Spring Cloud+Dubbo对Feign进行RPC改造

Spring Cloud Feign是基于Http Restful的调用,在高并发下的性能不够理想 (基于Ribbon以及带有熔断机制,可以防止雪崩),成为性能瓶颈,对Feign进行Dubbo的RPC改造。

Spring Cloud的项目结构如下 web 调用 service 为例



公共打印接口

```
package com.chinacri.cloud.client;

import ...

/**

* @author zhiwei.liu003

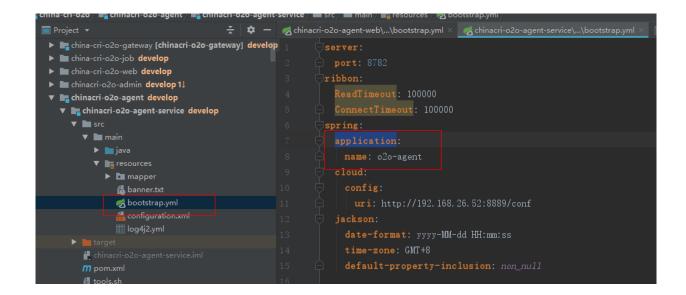
* @date 2019/3/2016:49

- */

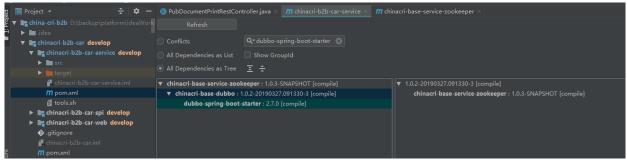
@FeignClient("o2o-agent")

public interface PubDocumentPrintClient extends PubDocumentPrintService {
}
```

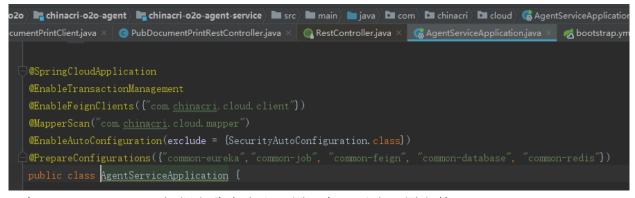
@FeignClient("o2o-agent") 指定为Service application name



Service 作为Dubbo提供者 pom 添加Dubbo引用



修改启动配置



添加common-dubbo , 根据名称会去取配置服务器对应配置文件

dubbo配置

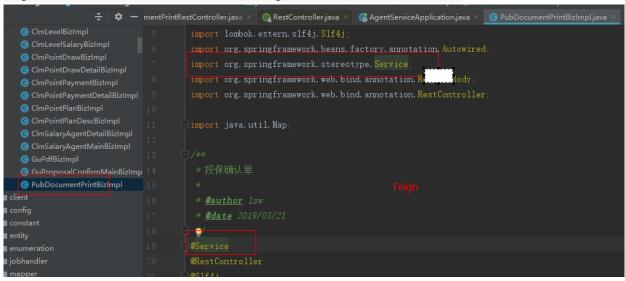
```
| chinacri-base-configurations | common-dubbo.yml |
| pym-sys-web.yml | pym-wf.yml | pym-wf.yml | pym-wf.yml | pym-wf.yml | pym-wf.yml | pym-odatabase2.yml | pym-odatabase3.yml | pym-odatabase3.yml | pym-odatabase3.yml | pym-odatabase4.yml | pym-odatabase6.yml | pym-odatabase6.yml
```

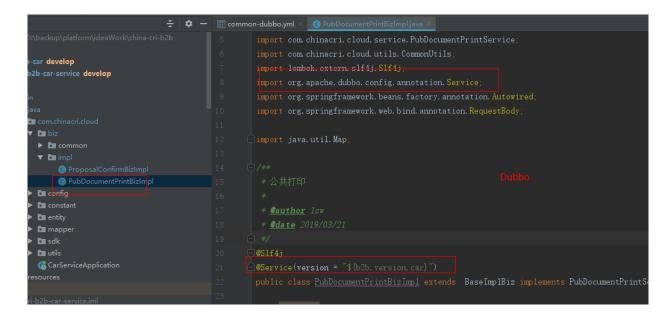
Service 接口放置在 spi中

```
- - □
▶ Iii .ie
▼ 📭 chinacri-b2b-car develop
  ► 📭 chinacri-b2b-car-service develop
   🔻 📭 chinacri-b2b-car-spi develop
       ▼ 🖿 main
             ▼ 🖿 com.chinacri.cloud
                                                                B
               ▼ 🖿 service
                   PubDocumentPrintService
                                                                0
                                                                           Map<String, Object> printCanceled( Map<String, Object> params) thr
               ▶ 🖿 value
                                                                0
       # chinacri-b2b-car-spi.iml
     thinacri-b2b-car-web develop
                                                                8
                                                                           Map<String, Object> guerySaleMakeInvoice( Map<String, Object> param
```

接口实现类的标签修改 其中这个@Service已经不再是spring的标签,而需要使用.

import com.alibaba.dubbo.config.annotation.Service;





在使用的Controller中注释掉之前的feign注入, 使用Dubbo的接口

```
@RestController
@RequestMapping("web/pubDocumentPrint")

@Slf4j
public class PubDocumentPrintRestController extends BaseController {

@Autowired
    private PubDocumentPrintClient pubDocumentPrintClient;
```

```
@RestController
@RequestMapping("web/pubDocumentPrint")
@S1f4j
public class PubDocumentPrintRestController extends BaseController {

@Reference(version = "${b2b. version. car}", timeout =40000 )
private PubDocumentPrintService pubDocumentPrintService;
```