spring cloud Bus

1. rabbitmg实现消息总线

首先是安装rabbitmq

先安装erlang

再安装rabbitmq(应该是要装在c盘下面)

当然可以根据兴趣配置路径(这里没有配置,使用默认的配置)

然后需要安装rabbitmq的可视化管理界面的插件

在cmd窗口切换到rabbitmq安装目录下的sbin目录下

加下区

```
C:\Users\pc>cd C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.12

C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.12\cd sbin

C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.12\sbin>rabbitmq-plugins enable rabbitmq_management

The following plugins have been enabled:
    amqp_client
    cowlib
    cowboy
    rabbitmq_web_dispatch
    rabbitmq_management_agent
    rabbitmq_management

Applying plugin configuration to rabbit@pc-PC... started 6 plugins.

C:\Program Files\RabbitMQ Server\rabbitmg_server-3.6.12\sbin>_
```

然后访问http://localhost:15672

默认端口号15672

即可进入rabbitmq管理界面

默认账号guest

默认密码guest

建议一下操作都用guest账号即可

有兴趣可以学习rabbitmq的adduser时权限的设置等这里不再赘述

首先可以先实现springboot与rabbitmq的整合

参考http://www.cnblogs.com/hlhdidi/p/6535677.html

另外:测试类写在自动生成的里面就行了

发送端与接收端如果用的

测试时应先启动接收端

2. spring cloud Bus 实现实时刷新git配置文件到所有的服务(实际上这次还是要手动刷新一次)

按照书中所写即可实现

这里主要说明注意事项:

在configclient配置文件必须有rabbitmq的信息即

```
spring.rabbitmq.host=localhost
spring.rabbitmq.port=5672
spring.rabbitmq.username=springcloud
spring.rabbitmq.password=123456
```

3. 步骤如下:

- 添加依赖bus-amqp
- 配置信息(书要是amqp的信息)
- sender类

添加@Component注解 自动注入 并 注入模板

```
@Component
  public class Sender {
           private AmqpTemplate amqpTemplate;
            public void send(){
                     String mess="hello "+new Date();
                      System.out.println("Sender "+mess);
                      //"hello"为routtingkey
                     amqpTemplate.convertAndSend("hello", mess);
  }
添加配置类
  @Configuration
  public class SenderConf {
              public Queue queue() {
                          return new Queue([hello2");
  }
这个hello就是队列的名字
测试类直接写在springboot自动生成的方法中即可,注解都是自动生成的不再多说,注入Sender类,调用send方法
 (RunWith(SpringRunner.class)
♠SpringBootTest
public class CloudEruakaBusSenderApplicationTests {
             @Autowired
                    private Sender sender;
                        @Test
                    public void testRabbit() {
                              sender.send();
          @Test
          public void contextLoads() {
                    sender.send();
          }
 }
                • receiver应用

    receiver类

 @Component
 public class Reciever {
                     @RabbitListener(queues="hello")
                                                                                                          //监听器监听指定的Oueue
                     public void processC(String str) {
                               System.out.println("Receive:"+str);
           依赖,配置信息(应用名不同),配置类都相同
测试步骤, 先启动两个应用, 在用Junit测试启动测试类, 效果
接收应用的控制台:
                                                                             er 🖺 Snippets 📮 Cons
                                                                                                                                                                                                                                                                           × 💥 🔳 🗎 🔐 🔮
  rabbitmqTest2 · RabbitmqTestApplication [Spring Boot App] C\Program Files\Java\jre1.8.0_121\bin\javaw.exe (2017年9月15日 下午3:46:21)
 2017-09-15 15:46:21.882
2017-09-15 15:46:21.884
2017-09-15 15:46:21.884
2017-09-15 15:46:22.164
2017-09-15 15:46:22.402
2017-09-15 15:46:22.402
2017-09-15 15:46:22.402
2017-09-15 15:46:22.426
2017-09-15 15:46:22.426
2017-09-15 15:46:22.426
                                   INFO 4040 ---
                                                                        main] c.example.demo.RabbitmqTestApplication
main] c.ca.AnnotationConfigApplication
main] s.ca.AnnotationConfigApplicationContext
main] trationDelegateSBeanPostProcessorChecker
main] o.s.j.e.a.AnnotationMBeanExporter
main] o.s.j.e.a.AnnotationMBeanExporter
main] o.s.j.e.a.AnnotationMBeanExporter
main] o.s.c.support.DefaultifecycleProcessor
main] o.s.c.support.DefaultifecycleProcessor
main] o.s.c.support.DefaultifecycleProcessor
main] o.s.c.support.DefaultifecycleProcessor
moin] o.s.anpapel.demo.RabbitmqTestApplication
                                                                                                                                        : Starting RabbitmqTestApplication on pc-PC with PID 4040 (E:\cloudTest-workspace\rabbitmqTest2\target\classes state in a active profile set, falling back to default profiles: default it is Refreshing org.springframework.cometx.annotation.AnnotationConfigApplicationContext@6a396c1e: startup date [Frier Bean 'org.springframework.amp, rabbit.annotation.RabbitBootstrapConfiguration' of type [org.springframework.amp : Registering beans for JNM exposure on startup : Bean with name 'rabbitConnectionFactory' has been autodetected for JNM exposure : located amanged bean 'rabbitConnectionFactory': registering with JNM server as MBean [org.springframework.ampr.r : Starting beans in phase 2147483647 : Starting beans in phase 2147483647 : Created new connection: rabbitConnectionFactory#Ebfife2f:0/SimpleConnection@45b40ffd [delegate=ampp://guest@127. Started RabbitmqTestApplication in 0.707 seconds (JVM running for 1.078)
```

 Sender hello Fri Sep 15 15:57:32 CST 2017

 2017-09-15 15:57;32.715
 INFO 9484 --- [

 Thread-2] o.s.w.c.s.GenericWebApplicationContext
 : Closing org.springframework.web.context.support.GenericWebApplication

 注意当测试显示正确时,并不能说明数据被接收到,只能说明被发送出去了,也可以在接收端写一个测试类

main] o.s.i.endpoint.EventDrivenConsumer : Adding {message-handler:inbound.springCloudBus.default} as a subscrib main] o.s.i.endpoint.EventDrivenConsumer : started inbound.springCloudBus.default main] o.s.c.support.DefaultLifecycleProcessor : Starting beans in phase 2147483647 : Started CloudEruakaBusSenderApplicationTests in 3.884 seconds (JVM ru

junit控制台:

2017-09-15 15:57:32.656 INFO 9484 ---2017-09-15 15:57:32.656 INFO 9484 ---2017-09-15 15:57:32.656 INFO 9484 ---2017-09-15 15:57:32.669 INFO 9484 ---