

SpringBoot 整合 dubbo

Springboot 整合 dubbo 和以前的流程是一致,不过是没有了 xml 配置文件,改为了 springboot 的配置文件

大约流程:

- 1. 导入依赖
- 2. 编写中间接口
- 3. 编写提供者
- 4. 编写消费者
- 5. 测试

本案例是简单的入门配置,使用的是 IDEA 软件,采用的是一个 project 内部多个 module 的方式, 所有的依赖添加在了 project 的 pom 文件中,请注意

— Project 的 POM 文件

```
project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0/modelVersion>
 <groupId>com.qianfeng/groupId>
 <artifactId>springboot-dubbo</artifactId>
 <version>1.0-SNAPSHOT</version>
    <!--声明为 springboot 项目-->
 <parent>
   <groupId>org.springframework.boot
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>1.5.9.RELEASE
  </parent>
  <modules>
    <module>springdubboprovider</module>
    <module>springdubbointerface</module>
    <module>springdubboconsumer</module>
  </modules>
  <packaging>pom</packaging>
 <name>springboot-dubbo</name>
 <url>http://maven.apache.org</url>
 cproperties>
    cproject.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  </properties>
```

```
<dependencies>
 <dependency>
   <groupId>junit
   <artifactId>junit</artifactId>
   <version>3.8.1
   <scope>test</scope>
 </dependency>
   <!--web 依赖-->
 <dependency>
   <groupId>org.springframework.boot
   <artifactId>spring-boot-starter-web</artifactId>
 </dependency>
   <!--dubbo 需要的健康兼容依赖-->
 <dependency>
   <groupId>org.springframework.boot
   <artifactId>spring-boot-starter-actuator</artifactId>
 </dependency>
   <!--dubbo 需要的快速启动依赖,如果无法下载,请配置下面的仓库
 <dependency>
   <groupId>com.alibaba.boot
   <artifactId>dubbo-spring-boot-starter</artifactId>
   <version>1.0.0-SNAPSHOT</version>
 </dependency>
   <!--springboot 需要的依赖-->
 <dependency>
   <groupId>ch.qos.logback
   <artifactId>logback-classic</artifactId>
 </dependency>
 <dependency>
   <groupId>ch.qos.logback
   <artifactId>logback-core</artifactId>
 </dependency>
 <!--zookeeper 客户端
 <dependency>
   <groupId>com.101tec
   <artifactId>zkclient</artifactId>
  <version>0.10</version>
 </dependency>
</dependencies>
<!--如果上面的依赖包无法下载,添加一下仓库地址-->
<repositories>
 <repository>
   <id>sonatype-nexus-snapshots</id>
   <url>https://oss.sonatype.org/content/repositories/snapshots</url>
   <releases>
     <enabled>false/enabled>
   </releases>
   <snapshots>
```

二中间接口 DemoService

主要是用于提供者和接收者依赖用,在一个独立的 module 中,此module属于 project 的子项目

```
/**

* Created by jackiechan on 2018/2/8/下午7:16

* 提供者的统一接口

*/
public interface DemoService {
    /**

    * 测试方法,没有实际意义

    * @param name

    * @return

    */
String getData(String name);
}
```

三 安装 service 到仓库

需要首先安装 project 才可以,因为要安装此 module 需要先安装父,所以最好先安装父,在安装当前 module

四 Provider提供者

用于提供具体的服务,内部中的类实现了上面的接口

4.1 pom.xml

只需要添加 service 的依赖即可

4.2 application.properties

此文件用于配置 springboot, 在 resources 目录中,内部其实配置的就是原先 xml 相关内容

```
# Spring boot application
spring.application.name = dubbo-provider-demo
server.port = 9090
management.port = 9091
#扫描 dubbo 的 service 注解
# Base packages to scan Dubbo Components (e.g @Service , @Reference)
dubbo.scan.basePackages = com.qianfeng.springboot.service.impl
# Dubbo Config properties
## ApplicationConfig Bean
#在监控平台显示的程序的名字
dubbo.application.id = dubbo-provider
dubbo.application.name = dubbo-provider
#dubbo.application.qos.port=22222
#dubbo.application.gos.enable=true
#spring.dubbo.application.name 应用名称
#spring.dubbo.protocol.name 协议名称
#spring.dubbo.protocol.port 协议端口
#spring.dubbo.scan dubbo 服务类包目录
## ProtocolConfig Bean
# 相当于<dubbo:protocol name="dubbo" port="33335"></dubbo:protocol>
dubbo.protocol.id = dubbo
dubbo.protocol.name = dubbo
dubbo.protocol.port = 33335
dubbo.protocol.status = server
## RegistryConfig Bean
#spring.dubbo.registry.address 注册中心地址
#<dubbo:registry address="47.95.244.39" port="2181" protocol="zookeeper">
</dubbo:registry>
dubbo.registry.id = my-registry
dubbo.registry.address =zookeeper://192.168.3.212:2181
# Dubbo Endpoint (default status is disable)
endpoints.dubbo.enabled = true
# Dubbo Health
## StatusChecker Name defaults (default : "memory", "load" )
management.health.dubbo.status.defaults = memory
## StatusChecker Name extras (default : empty )
management.health.dubbo.status.extras = load,threadpool
```

4.3 service 实现类 DemoServiceImpl

内部对业务做了具体实现,用于被调用

```
/**

* Created by jackiechan on 2018/2/8/下午7:23

*/

@Service(//注意注解是 dubbo 的注解,不是 spring 的
    version = "1.0.0",
    application = "${dubbo.application.id}",//程序的 id
    protocol = "${dubbo.protocol.id}",// 协议的 id
    registry = "${dubbo.registry.id}"// 注册中心的 id
)

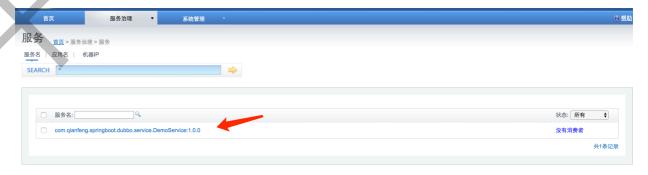
public class DemoServiceImpl implements DemoService {
    @Override
    public String getData(String name) {
        return "输入的内容是:" + name;
    }
}
```

4.3 SpringBoot 启动类StarProvider

```
/**
 * Created by jackiechan on 2018/2/8/下午7:24
 */
@SpringBootApplication
public class StarProvider {
   public static void main(String[] args) {
        SpringApplication.run(StarProvider.class, args);
    }
}
```

4.4 启动提供者,测试

可以在 dubbo 的监控平台查看信息





五 Consumer消费者

5.1 pom文件

5.2 application.properties

springboot 的配置文件,用于配置消费者相关信息,内部其实配置的就是原先 xml 相关内容

```
spring.application.name = dubbo-consumer-demo
server.port = 8080
management.port = 8081
# Dubbo Config properties
## ApplicationConfig Bean
dubbo.application.id = dubbo-consumer-demo
dubbo.application.name = dubbo-consumer-demo
## Legacy QOS Config
#dubbo.qos.port = 22223
## ProtocolConfig Bean
dubbo.protocol.id = dubbo
dubbo.protocol.name = dubbo
dubbo.protocol.port = 12345
# Dubbo Endpoint (default status is disable)
#endpoints.dubbo.enabled = true
#相当于<dubbo:registry address="47.95.244.39" port="2181" protocol="zookeeper">
</dubbo:registry>
dubbo.registry.id = my-registry
dubbo.registry.address =zookeeper://192.168.3.212:2181
# Dubbo Health
```

```
## StatusChecker Name defaults (default : "memory", "load" )
#management.health.dubbo.status.defaults = memory
```

5.3 controller

```
/**

* Created by jackiechan on 2018/2/8/下午7:53

*/
@RestController
@RequestMapping("/test")
public class DemoController {
    @Reference(
        version = "1.0.0",
            application = "${dubbo.application.id}"

    )
    private DemoService demoService;
    @RequestMapping("/getdata/{name}")
    public String testData(@PathVariable("name") String name) {
        return demoService.getData(name);
    }
}
```

5.4 Springboot 启动类

```
/**
  * Created by jackiechan on 2018/2/8/下午8:53
  */
@SpringBootApplication(scanBasePackages = {"com.qianfeng.controller"})
public class App
{
    public static void main( String[] args )
    {
        SpringApplication.run(App.class, args);
    }
}
```

5.5 启动消费者测试

