链滴

springboot 集成 dubbo 环境的两种方式

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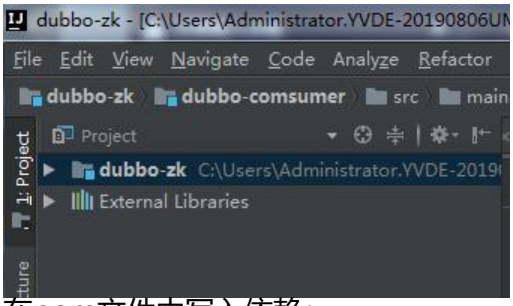
原文链接：https://ld246.com/article/1565142408961

来源网站：链滴

1.利用dubbo-start.jar包中@server @EnableDubbo替代使用xml

2.利用dubbo-start.jar包中@ImportResource来使用xml文件集成dubbo

第一步我们先搭建一个springboot的项目如下：



在pom文件中写入依赖：

```
    <modules>
    <module>dubbo-common</module>
    <module>dubbo-provider</module>
  </modules>
```

```
<dependencyManagement>
    <dependencies>
      <!-- dubbo 替换 dubbox-->
      <dependency>
        <groupId>com.alibaba</groupId>
        <artifactId>dubbo</artifactId>
        <version>2.6.2</version>
      </dependency>
      <!-- curator-recipes 替换 zkclient-->
      <!--<dependency>
        <groupId>org.apache.curator</groupId>
        <artifactId>curator-recipes</artifactId>
        <version>4.0.1</version>
      </dependency>-->
      <!--其实我们现在使用的是curator来替换zkclient-->
      <dependency>
        <groupId>org.apache.curator</groupId>
        <artifactId>curator-framework</artifactId>
        <version>2.6.0</version>
      </dependency>
      <!--alibaba提供的启动项-->
      <dependency>
        <groupId>com.alibaba.spring.boot</groupId>
        <artifactId>dubbo-spring-boot-starter</artifactId>
        <version>2.0.0</version>
      </dependency>
      <dependency>
        <groupId>org.projectlombok</groupId>
```

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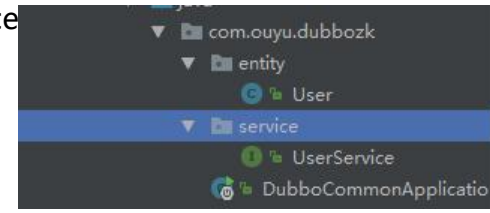
```
            <artifactId>lombok</artifactId>
            <version>1.18.8</version>
        </dependency>
    </dependencies>
</dependencyManagement>
```

接着我们在dubbo-zk project下新建一个module名为：

里面pom这样写：

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/
MLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/m
ven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <parent>
        <groupId>com.ouyu.dubboZk</groupId>
        <artifactId>dubbo-zk</artifactId>
        <version>0.0.1-SNAPSHOT</version>
        <relativePath/> <!-- lookup parent from repository -->
    </parent>
    <artifactId>dubbo-common</artifactId>


    <properties>
        <java.version>1.8</java.version>
    </properties>

    <dependencies>
        <dependency>
            <groupId>org.projectlombok</groupId>
            <artifactId>lombok</artifactId>
        </dependency>
    </dependencies>


</project>
```

ok我们在common module中新建两个package一个叫entity 一个是service



```java
@Data
public class User implements Serializable {
    private static final long serialVersionUID = -2257987469927365451L;
    private Integer id;
    private String userName;
    private String passWord;
    private String city;

    public User(Integer id, String userName, String passWord, String city
        this.id = id;
        this.userName = userName;
        this.passWord = passWord;
        this.city = city;
    }

    @Override
    public String toString() {
        return "User{" +
                "id=" + id +
                ", userName='" + userName + '\'' +
                ", passWord='" + passWord + '\'' +
                ", city='" + city + '\'' +
                '}';
```

在service中新建个接口UserService 写入一个方法

```java
public interface UserService {

    /**
     * 获取用户信息
     * @return
     */
    User getUserInfo();
}
```

ok接着来建造另一个依赖 dubbo-provider

在其pom文件中引入：

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/
MLSchema-instance"
   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/m
ven-4.0.0.xsd">
   <modelVersion>4.0.0</modelVersion>
   <parent>
      <groupId>com.ouyu.dubboZk</groupId>
      <artifactId>dubbo-zk</artifactId>
      <version>0.0.1-SNAPSHOT</version>
      <relativePath/> <!-- lookup parent from repository -->
   </parent>
   <artifactId>dubbo-provider</artifactId>
```

```
    <properties>
        <java.version>1.8</java.version>
    </properties>

    <dependencies>
        <dependency>
            <groupId>com.ouyu.dubboZk</groupId>
            <artifactId>dubbo-common</artifactId>
            <version>0.0.1-SNAPSHOT</version>
        </dependency>
        <!-- dubbo 替换 dubbox-->
        <dependency>
            <groupId>com.alibaba</groupId>
            <artifactId>dubbo</artifactId>
        </dependency>
        <!-- curator-recipes 替换 zkclient-->
        <dependency>
            <groupId>org.apache.curator</groupId>
            <artifactId>curator-framework</artifactId>
        </dependency>
        <dependency>
            <groupId>com.alibaba.spring.boot</groupId>
            <artifactId>dubbo-spring-boot-starter</artifactId>
        </dependency>
        <!--<dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-web</artifactId>
            <version>2.1.6.RELEASE</version>
        </dependency>-->
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>

</project>
```

在propertist文件中写

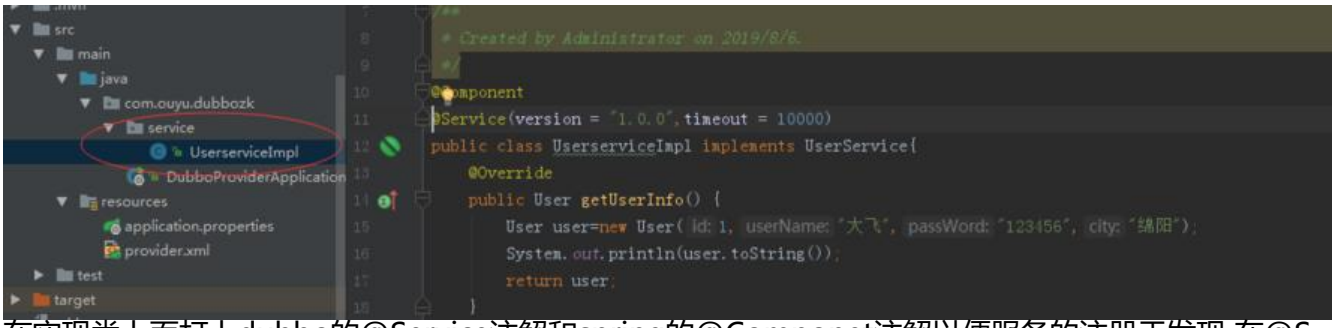
```
server.port=8081
server.context-path=/

spring.application.name=dubbo-spring-boot-starter
dubbo.application.name=springboot_demo
dubbo.registry.address=zookeeper://120.79.63.27:2181  #这是你的zookeeper地址
dubbo.provider.threads=10
dubbo.provider.threadpool=fixed
dubbo.provider.loadbalance=roundrobin
dubbo.server=true
```

dubbo.protocol.name=dubbo

在application上加上注解@EnableDubbo

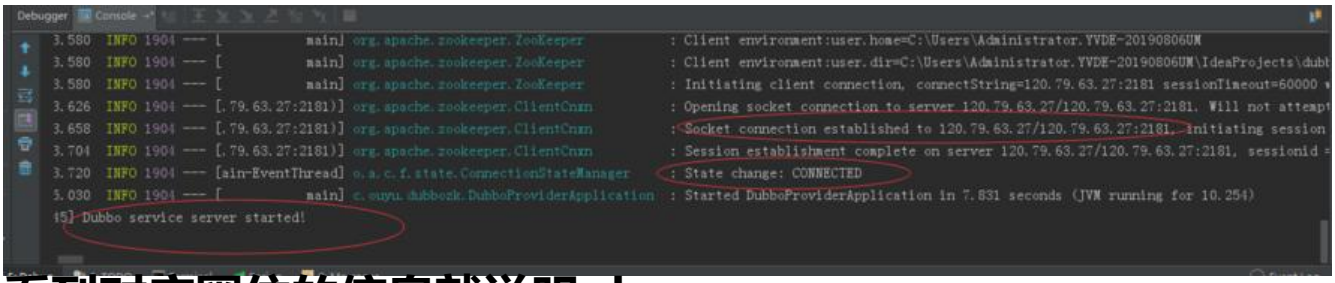
在main方法中写入dubbo的启动方法Main.main(args);

接着新建servicepackage



在实现类上面打上dubbo的@Service注解和spring的@Componet注解以便服务的注册于发现 在@Srvice上写上version版本信息 等消费消费的时候会用到务必要填

服务提供端我们就完成了 现在开始启动试试



看到对应圈住的信息就说明ok

现在我们来把消费者搞起来 新建module dubbo-comsumer

pom中的依赖跟provider中其实都一样 只是增加了一个web的框架

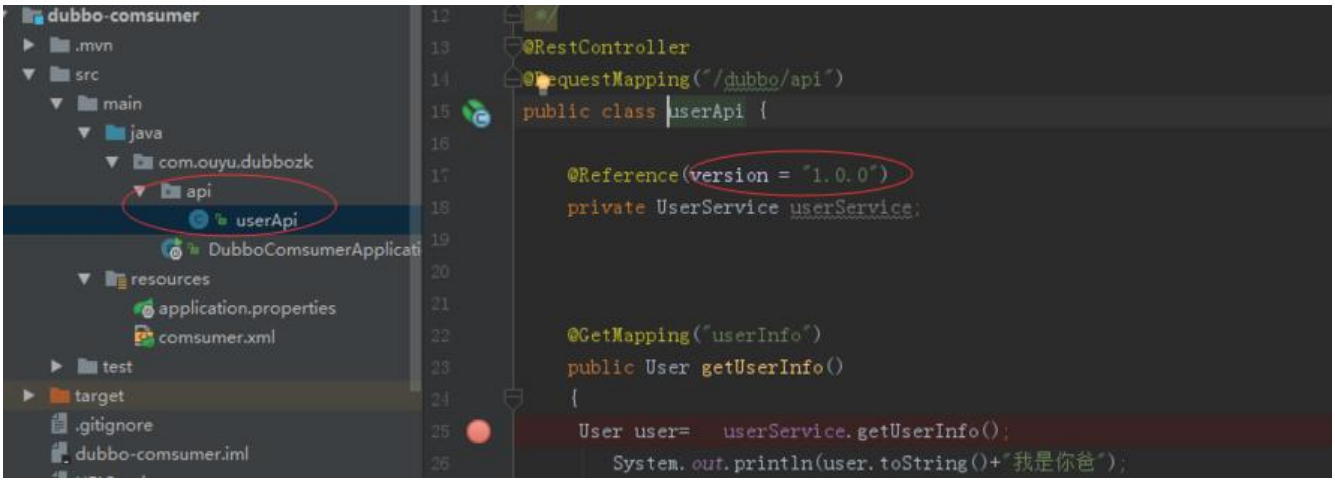
```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
    <version>2.1.6.RELEASE</version>
</dependency>
```

在properties中

```
#server
server.port=8082
server.context-path=/
#dubbo
```

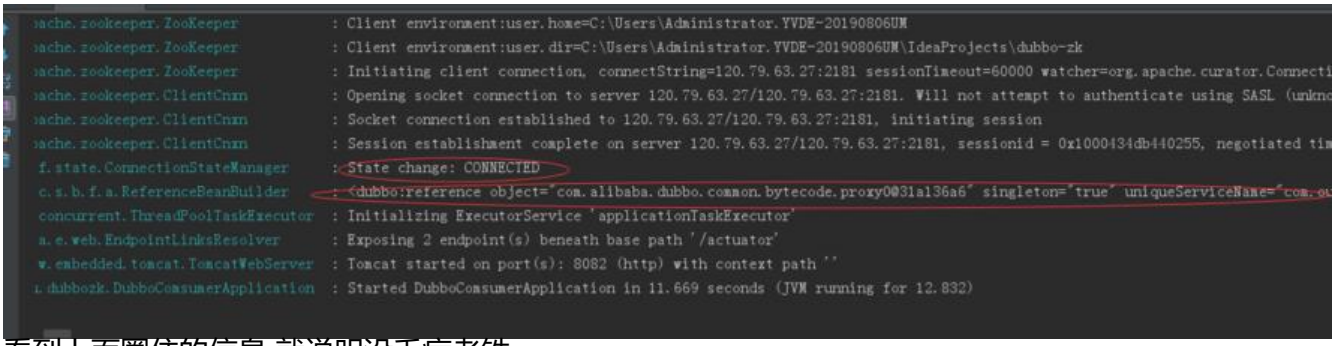
```
spring.application.name=dubbo-spring-boot-starter


dubbo.rpotocol.port=20880

spring.dubbo.application.id=springboot_demo
dubbo.application.name=springboot_demo
dubbo.registry.address=zookeeper://120.79.63.27:2181
dubbo.protocol.name=dubbo
```

在application中写上@EnableDubbo注解就行



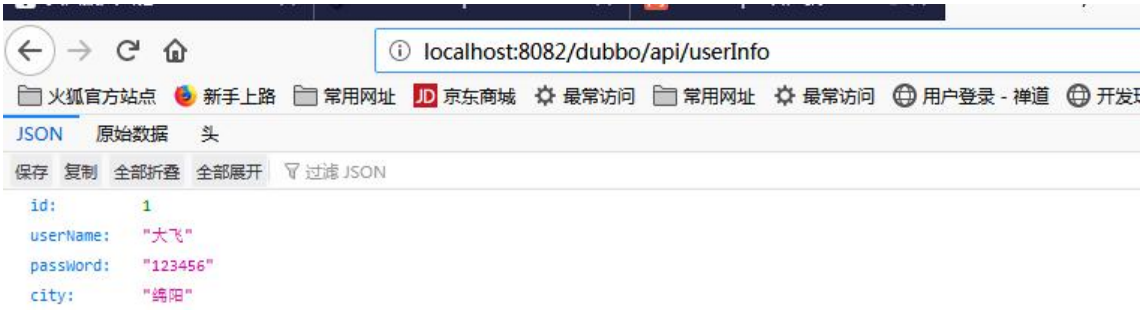
我们看到我们userService变量上加上了@Reference注解上面写上了对应服务提供者的版本信息

ok现在启动测试下



看到上面圈住的信息 就说明没毛病老铁

打开浏览器输入http://localhost:8082/dubbo/api/userInfo



得到返回json 大功告成 基于springboot的dubbo 没使用xml实现

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二。我们使用xml

在provider模块中把properties都注释掉出了端口号 在下面新建provider.xml文件

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xmlns:dubbo="http://dubbo.apache.org/schema/dubbo"
       xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springf
amework.org/schema/beans/spring-beans-4.3.xsd http://dubbo.apache.org/schema/dubbo h
tp://dubbo.apache.org/schema/dubbo/dubbo.xsd">
    <dubbo:application name="hello-world-app" />
    <dubbo:registry address="zookeeper://120.79.63.27:2181" />
    <dubbo:protocol name="dubbo" port="20880" />
    <bean id="userService" class="com.ouyu.dubbozk.service.UserserviceImpl"/>
    <dubbo:service interface="com.ouyu.dubbozk.service.UserService" ref="userService" versi
n="1.0.0"/>

</beans>
```

在aplication中隐藏点@EnableDubbo注解增加@ImporResource注解

```
@SpringBootApplication
//@EnableDubbo
@ImportResource(value = {"classpath:provider.xml"})
public class DubboProviderApplication {
```

在UserServiceImpl中把@Componet @Service删掉

启动时 信息跟基于注解的一样 没问题

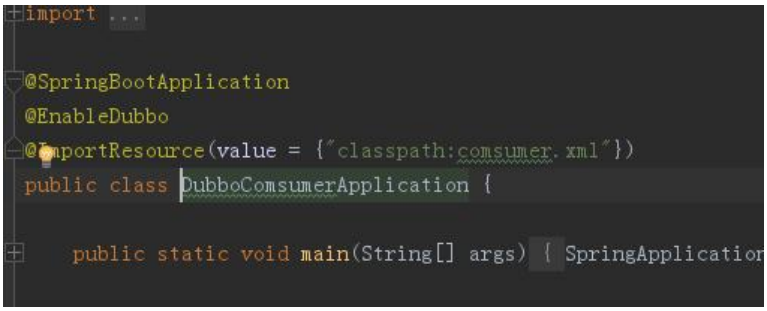
重点在于服务消费者模块上面

一样把他下面的properties中信息给注释掉新建comsumer.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xmlns:dubbo="http://dubbo.apache.org/schema/dubbo"
       xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springf
amework.org/schema/beans/spring-beans-4.3.xsd http://dubbo.apache.org/schema/dubbo h
tp://dubbo.apache.org/schema/dubbo/dubbo.xsd">
    <dubbo:application name="hello-world-app1"/>
    <dubbo:registry  address="zookeeper://120.79.63.27:2181"/>
    <dubbo:reference id="userService" check="false" interface="com.ouyu.dubbozk.service.Us
rService" version="1.0.0"/>
</beans>
```

这个里面的version可写可不写

在application中只增加@ImportResouce注解不删除@EnableDubbo注解



api提供那个地方一定不要改了 就使用@Reference(version = "1.0.0")记住加上版本信息

启动规矩的很 稳不稳的 跟注解访问一样

好了今天的讲解就到这里为止