

dubbox 编译、环境搭建、服务提供和服务消费及学习资料

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1 Dubbo 源码构建

1.1 资源准备

- 1、安装 maven Download Apache Maven 3.2.5

地址: <http://maven.apache.org/download.cgi>

- 2、下载 dubbo-master.zip 源码版本: 2.5.4-SNAPSHOT 已编译通过

地址: <https://github.com/alibaba/dubbo>

- 3、下载 dubbox-master.zip 源码版本: 2.8.4 已编译通过

地址: <https://github.com/dangdangdotcom/dubbox>

- 4、本附件提供: [dubbox.docx](#)

1.2 配置 maven 设置

Maven 安装配置 **D:\eclipsejeelunaSR3\apache-maven-3.2.3\conf\settings.xml**

个人用户下仓库下 **C:\Users\baiyc\.m2\ settings.xml**

二者使用同样配置即可，两个配置建议都修改。

```
<?xml version="1.0" encoding="UTF-8"?>
<settings xmlns="http://maven.apache.org/SETTINGS/1.0.0"
           xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
           xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.0.0
http://maven.apache.org/xsd/settings-1.0.0.xsd">
  <localRepository>C:/Users/baiyc/.m2/repository</localRepository>
  <pluginGroups></pluginGroups>
  <!-- 公司网络可直接上外网情况，如公司网络限制，可使用个人手机 wifi 连接网络 -->
  <proxies></proxies>
  <!-- 公司网络不可直接上外网情况，需要配置代理-->
  <proxies>
    <proxy>
      <id>myProxy</id>
      <active>true</active>
      <protocol>http</protocol>
      <host>172.16.9.20</host>
      <port>8088</port>
      <username>baiyc</username>
```

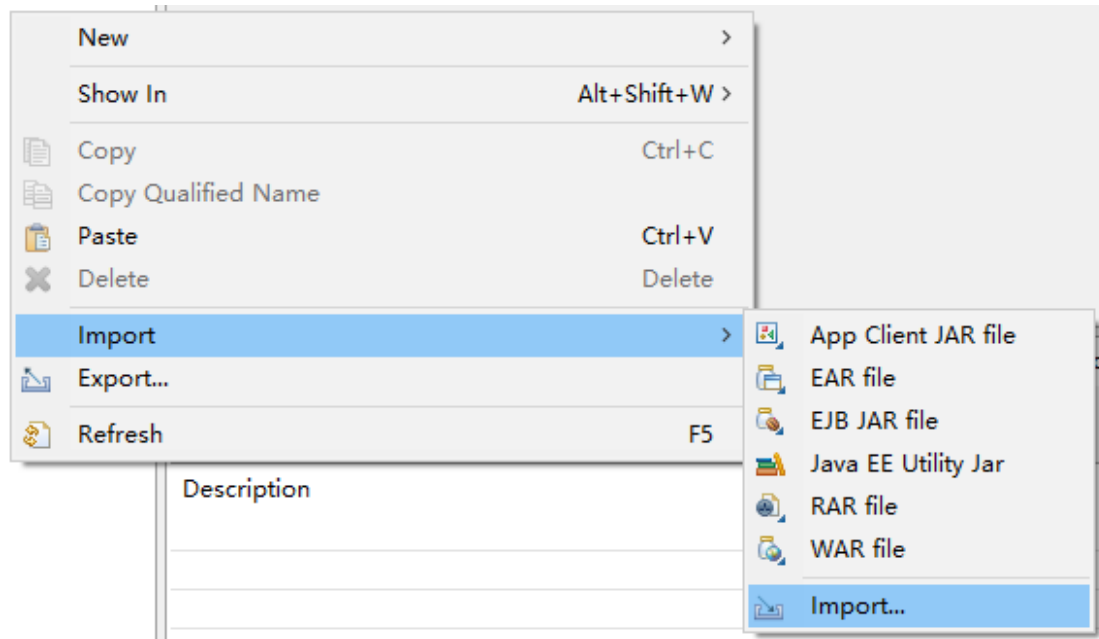
```

        <password>xxxxx</password>
        <nonProxyHosts>172.21.2.98</nonProxyHosts>
    </proxy>
</proxies>
<servers>
    <server>
        <username>deployment</username>
        <password>esop</password>
        <id>nexus-release</id>
    </server>
    <server>
        <username>deployment</username>
        <password>esop</password>
        <id>nexus-snapshots</id>
    </server>
</servers>
<mirrors>
    <!--注释原有的公司仓库，采用 aliyun 仓库进行 maven 编译-->
    <mirror>
        <id>nexus</id>
        <mirrorOf>central</mirrorOf>
        <name>internal nexus.</name>
        <url>http://www.dssmr.com:8080/nexus/content/groups/public</url>
    </mirror>
    -->
    <mirror>
        <id>nexus</id>
        <mirrorOf>central</mirrorOf>
        <name>internal nexus.</name>
        <url>http://maven.aliyun.com/nexus/content/groups/public</url>
    </mirror>
</mirrors>
<profiles></profiles>
</settings>

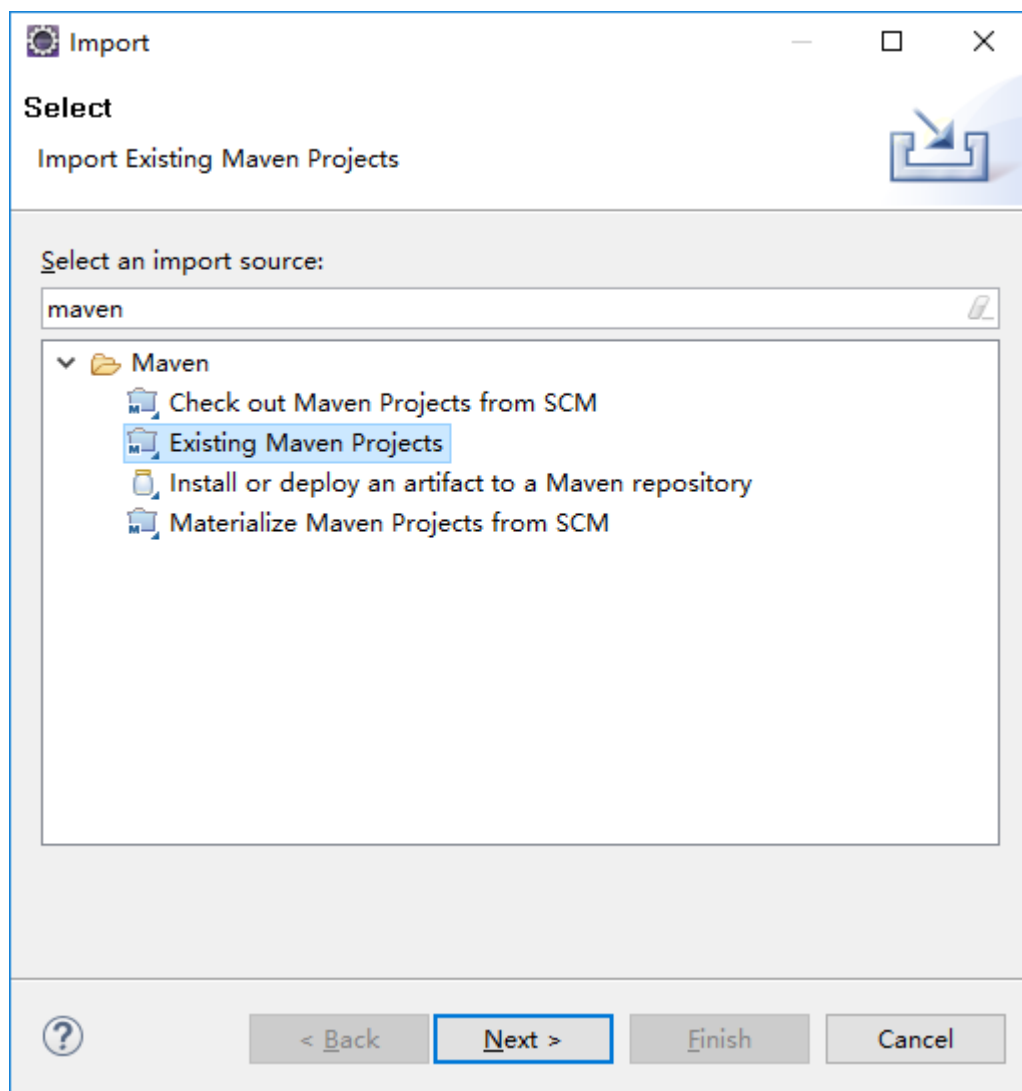
```

1.3 在 eclipse 中构件

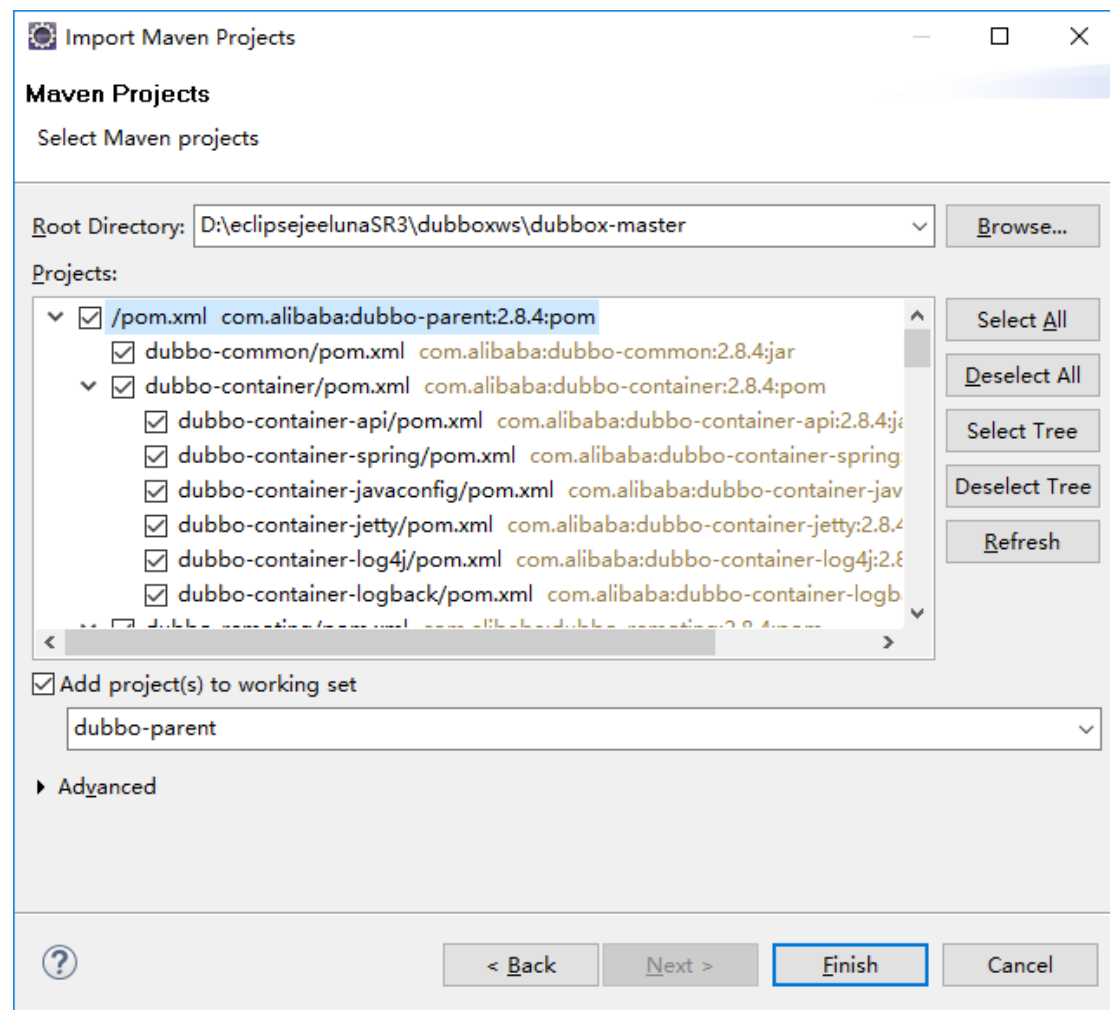
1、下载后，解压源码，导入 eclipse 中
左侧右键



输入“maven”过滤



点击“Next”，选择本地解压后的 dubbox



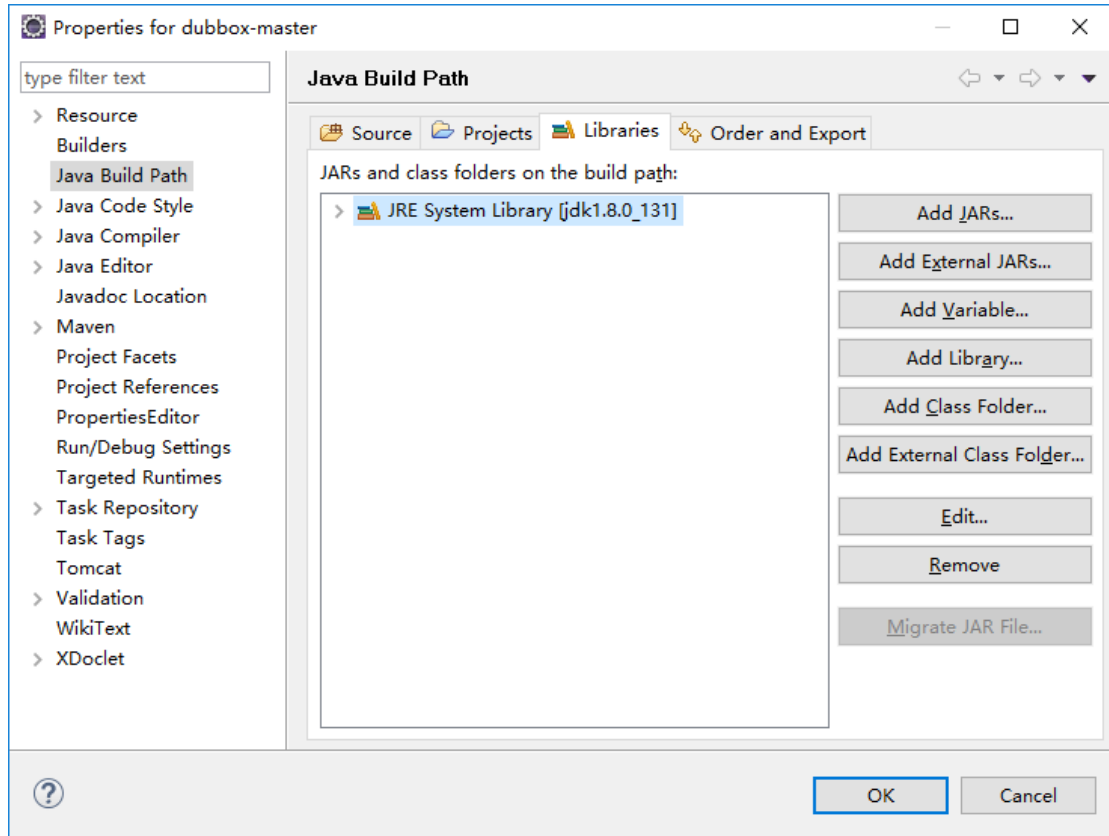
点击“Finish”

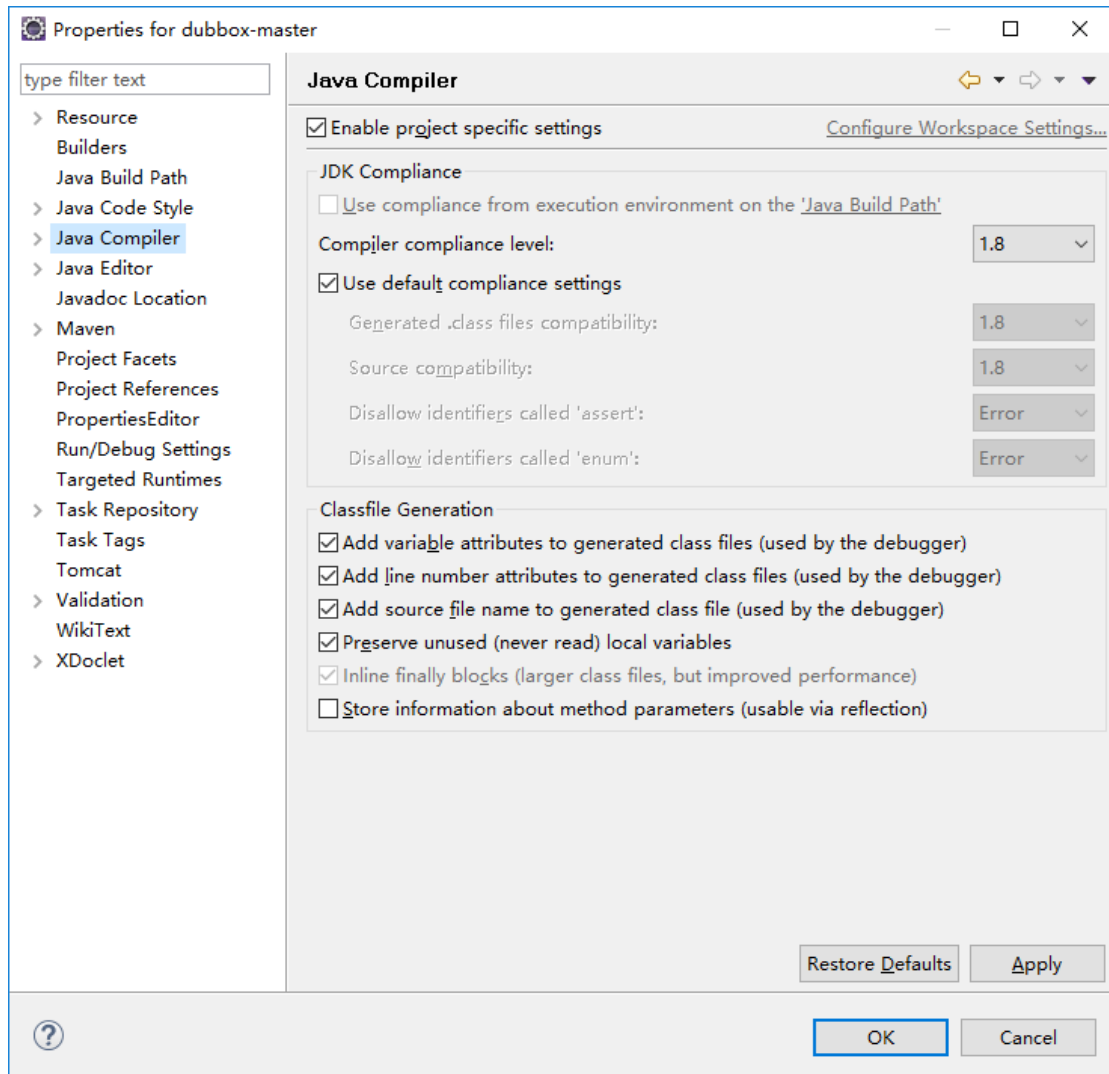
2、设置各个子项目 jdk 编译版本，可根据实际机器的 jdk 版本来，jdk1.6 以上均可

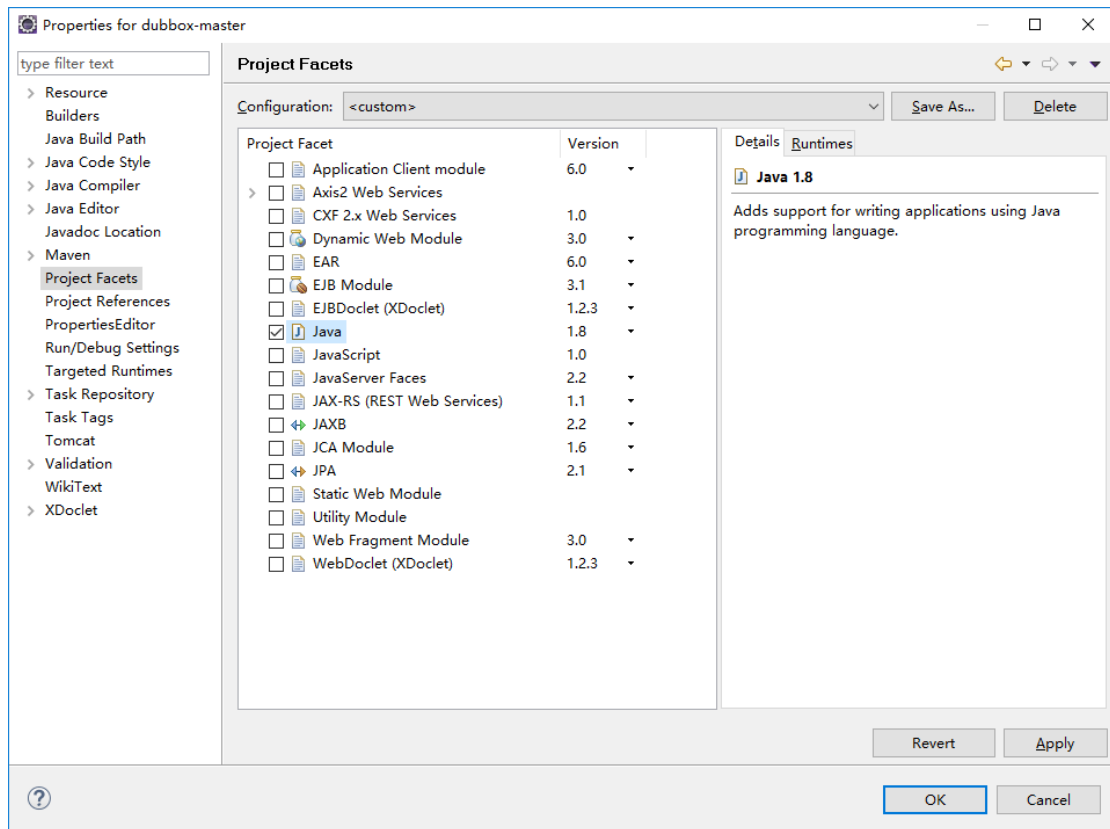
- 报错：类中关于 override 的方法的报错

解决：把依赖的 jdk1.5 换成 jdk1.6

- 报错：dubbo:service interface="com.mycompany.app.EchoService" ref="echoService" />







3、解决 dubbo:service 标签问题

cvc-complex-type.2.4.c: The matching wildcard is strict, but no declaration can be found for element 'dubbo:service'.

- 提示：cvc-complex-type.2.4.c: The matching wildcard is strict, but no declaration can be found for element 'dubbo:service'.

解决：dubbo 的问题是因为他的官网关了 对应的 xsd 无法获取到

对于 **spring** 来说这个文件需要从本地读取才能正常

修改方法是提取 dubbo 项目中的 dubbo.xsd 文件，

打开 Eclipse 的 Window - preferences 选择 XMLCatalog

右边 user specified entries 下 add 两条记录

1.Location 选择你的 dubbo.xsd 文件

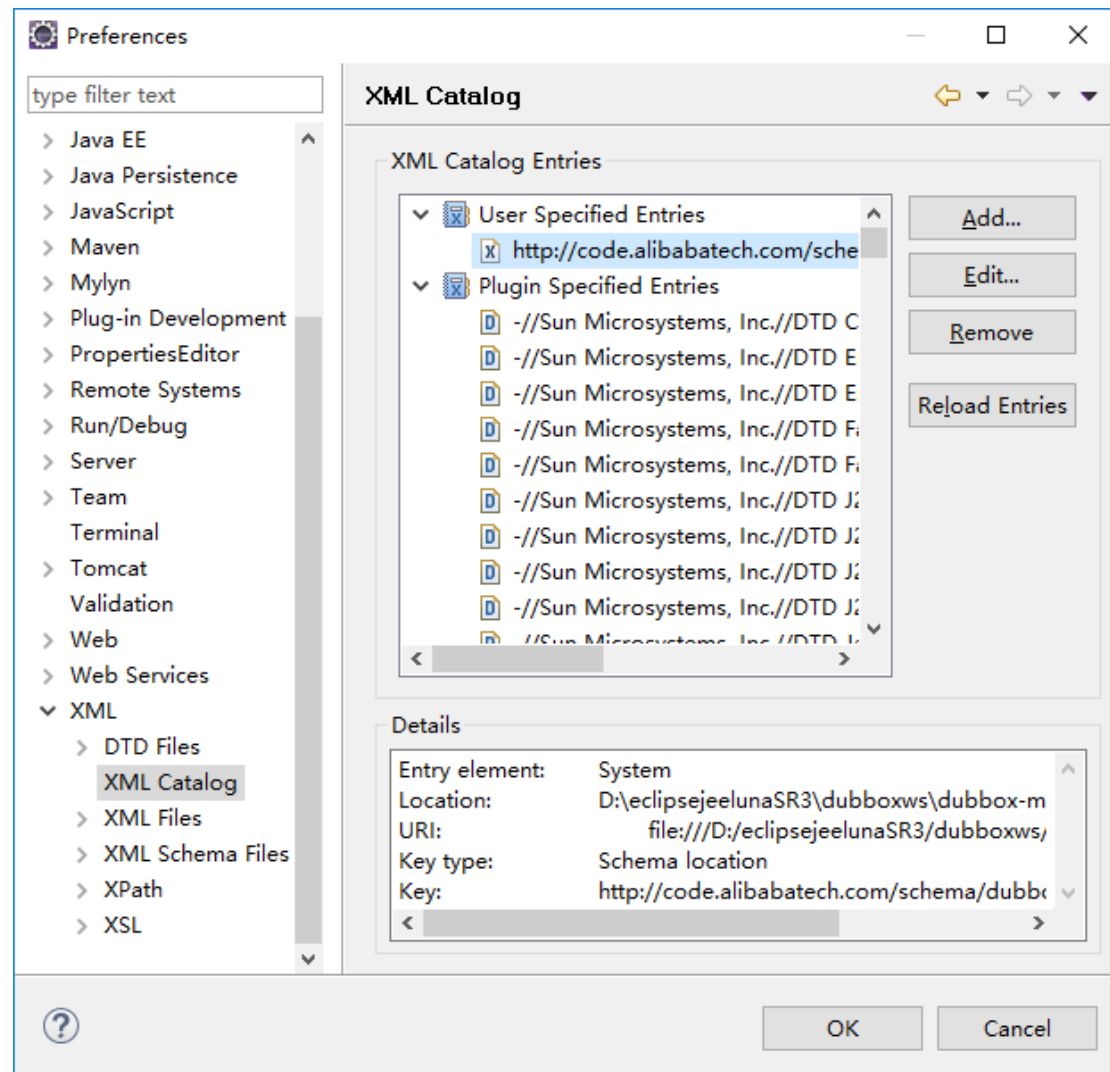
key type 选 Namespace name

key 填入 <http://code.alibabatech.com/schema/dubbo>

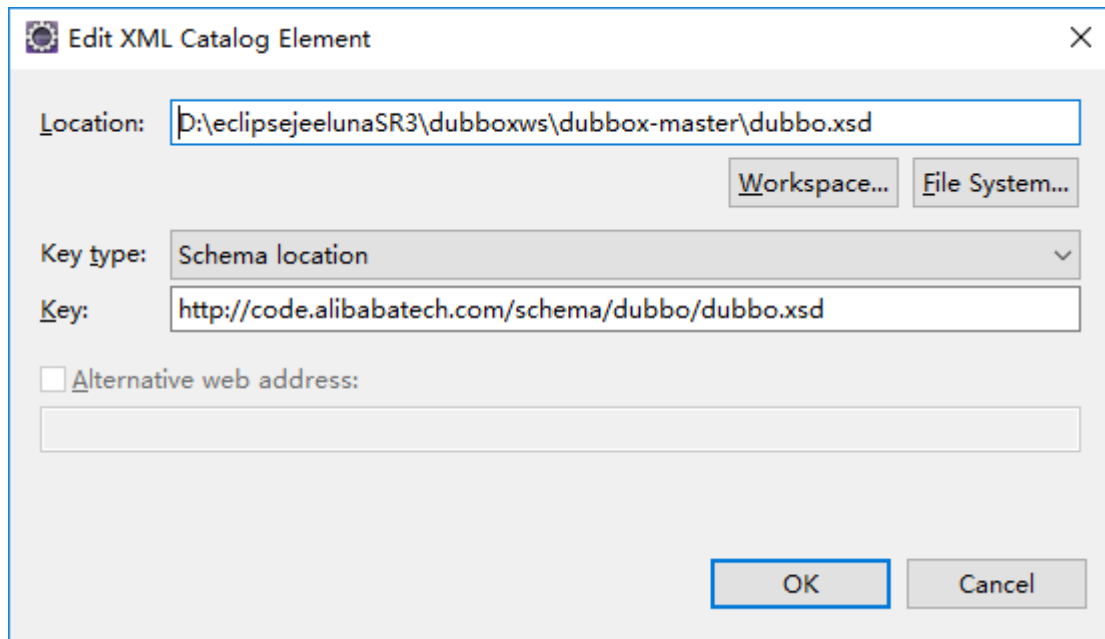
2.Location 选择你的 dubbo.xsd 文件

key type 选 schema location

key 填入 <http://code.alibabatech.com/schema/dubbo/dubbo.xsd>

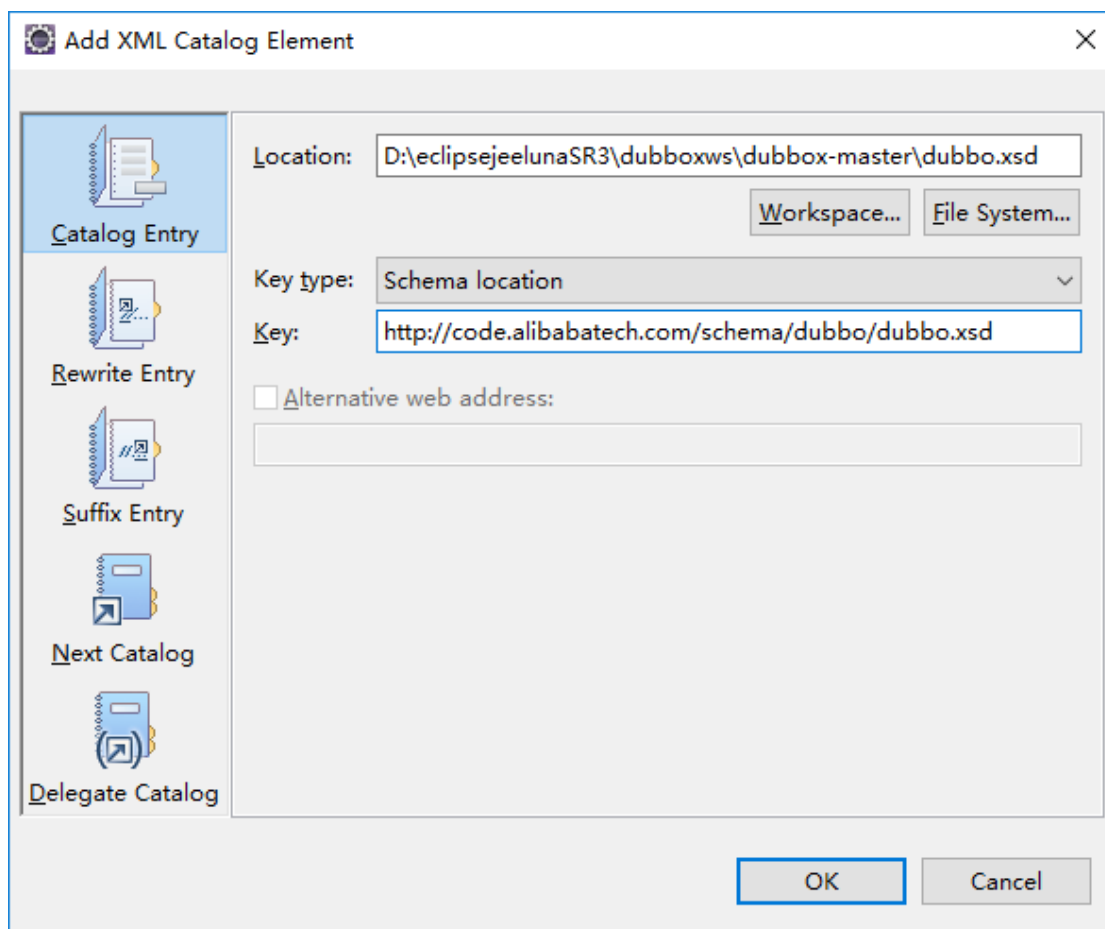


点击“Add”按钮



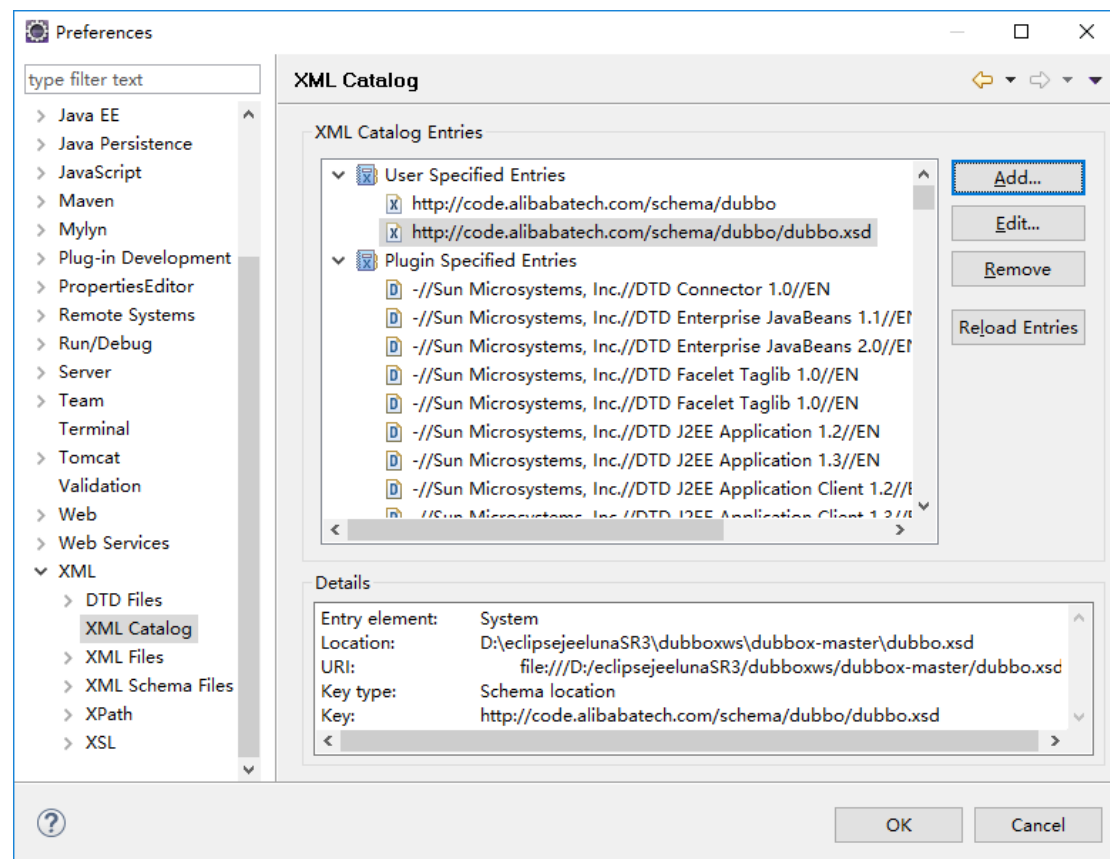
点击“ok”。

点击“Add”按钮



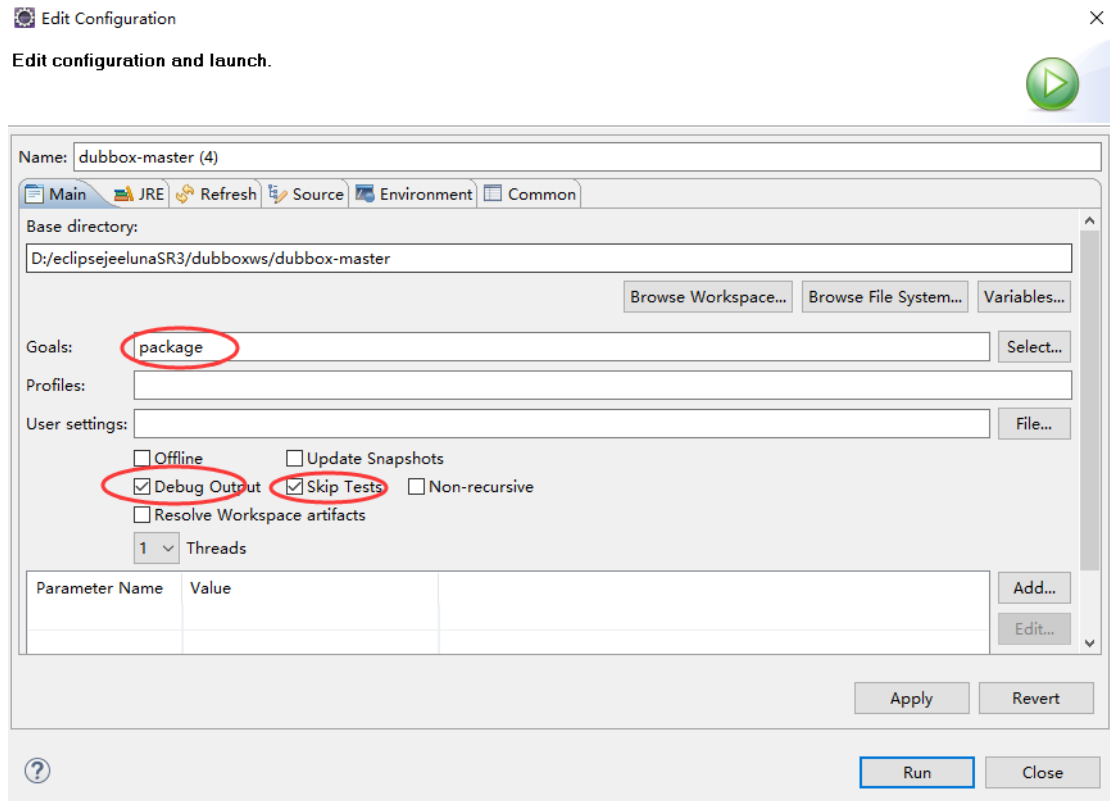
点击“ok”。

添加完毕后：



3、Eclipse 编译

在 dubbox-master 右键 run as -> Maven build ...



点击“Run”

运行部分日志如下：

```
DEBUG] Adding artifact: com.alibaba:dubbo-demo-consumer:jar:2.8.4 with file:
D:\eclipsejeelunaSR3\dubboxws\dubbo-master\dubbo-demo\dubbo-demo-consumer\t
arget\dubbo-demo-consumer-2.8.4.jar to assembly location:
lib\dubbo-demo-consumer-2.8.4.jar.
```

```
[DEBUG] Adding file:
D:\eclipsejeelunaSR3\dubboxws\dubbo-master\dubbo-demo\dubbo-demo-consumer\t
arget\dubbo-demo-consumer-2.8.4.jar to archive location:
dubbo-demo-consumer-2.8.4/lib\dubbo-demo-consumer-2.8.4.jar
```

```
[INFO] Building tar :
D:\eclipsejeelunaSR3\dubboxws\dubbo-master\dubbo-demo\dubbo-demo-consumer\t
arget\dubbo-demo-consumer-2.8.4-assembly.tar.gz
[INFO]
```

```
-----
[INFO] Reactor Summary:
[INFO]
[INFO] dubbo-parent ..... SUCCESS [ 1.253 s]
[INFO] Hessian Lite(Alibaba embed version) ..... SUCCESS [ 2.512 s]
[INFO] dubbo-common ..... SUCCESS [ 1.276 s]
[INFO] dubbo-container ..... SUCCESS [ 0.000 s]
```

```
[INFO] dubbo-container-api ..... SUCCESS [ 0.235 s]
[INFO] dubbo-container-spring ..... SUCCESS [ 0.156 s]
[INFO] dubbo-container-javaconfig ..... SUCCESS [ 0.109 s]
[INFO] dubbo-container-jetty ..... SUCCESS [ 0.094 s]
[INFO] dubbo-container-log4j ..... SUCCESS [ 0.078 s]
[INFO] dubbo-container-logback ..... SUCCESS [ 0.145 s]
[INFO] dubbo-remoting ..... SUCCESS [ 0.003 s]
[INFO] dubbo-remoting-api ..... SUCCESS [ 0.344 s]
[INFO] dubbo-remoting-netty ..... SUCCESS [ 0.140 s]
[INFO] dubbo-remoting-mina ..... SUCCESS [ 0.188 s]
[INFO] dubbo-remoting-grizzly ..... SUCCESS [ 0.140 s]
[INFO] dubbo-remoting-p2p ..... SUCCESS [ 0.195 s]
[INFO] dubbo-remoting-http ..... SUCCESS [ 0.127 s]
[INFO] dubbo-remoting-zookeeper ..... SUCCESS [ 0.219 s]
[INFO] dubbo-rpc ..... SUCCESS [ 0.015 s]
[INFO] dubbo-rpc-api ..... SUCCESS [ 0.391 s]
[INFO] dubbo-rpc-default ..... SUCCESS [ 0.281 s]
[INFO] dubbo-rpc-injvm ..... SUCCESS [ 0.116 s]
[INFO] dubbo-rpc-rmi ..... SUCCESS [ 0.156 s]
[INFO] dubbo-rpc-hessian ..... SUCCESS [ 0.172 s]
[INFO] dubbo-rpc-http ..... SUCCESS [ 0.172 s]
[INFO] dubbo-rpc-webservice ..... SUCCESS [ 0.125 s]
[INFO] dubbo-cluster ..... SUCCESS [ 0.250 s]
[INFO] dubbo-registry ..... SUCCESS [ 0.018 s]
[INFO] dubbo-registry-api ..... SUCCESS [ 0.141 s]
[INFO] dubbo-monitor ..... SUCCESS [ 0.000 s]
[INFO] dubbo-monitor-api ..... SUCCESS [ 0.109 s]
[INFO] dubbo-filter ..... SUCCESS [ 0.016 s]
[INFO] dubbo-filter-validation ..... SUCCESS [ 0.125 s]
[INFO] dubbo-filter-cache ..... SUCCESS [ 0.156 s]
[INFO] dubbo-registry-default ..... SUCCESS [ 0.172 s]
[INFO] dubbo-monitor-default ..... SUCCESS [ 0.188 s]
[INFO] dubbo-registry-multicast ..... SUCCESS [ 0.148 s]
[INFO] dubbo-config ..... SUCCESS [ 0.016 s]
[INFO] dubbo-config-api ..... SUCCESS [ 0.297 s]
[INFO] dubbo-config-spring ..... SUCCESS [ 0.203 s]
[INFO] dubbo-rpc-thrift ..... SUCCESS [ 0.343 s]
[INFO] dubbo-rpc-memcached ..... SUCCESS [ 0.094 s]
[INFO] dubbo-rpc-redis ..... SUCCESS [ 0.098 s]
[INFO] dubbo-rpc-rest ..... SUCCESS [ 0.250 s]
[INFO] dubbo-registry-zookeeper ..... SUCCESS [ 0.109 s]
[INFO] dubbo-registry-redis ..... SUCCESS [ 0.109 s]
[INFO] dubbo ..... SUCCESS [ 4.345 s]
[INFO] dubbo-simple ..... SUCCESS [ 0.000 s]
```

```

[INFO] dubbo-registry-simple ..... SUCCESS [ 7.778 s]
[INFO] dubbo-monitor-simple ..... SUCCESS [ 8.753 s]
[INFO] dubbo-admin ..... SUCCESS [ 3.156 s]
[INFO] dubbo-demo ..... SUCCESS [ 0.000 s]
[INFO] dubbo-demo-api ..... SUCCESS [ 0.177 s]
[INFO] dubbo-demo-provider ..... SUCCESS [ 1.926 s]
[INFO] dubbo-demo-consumer ..... SUCCESS [ 11.137 s]
[INFO]
-----
[INFO] BUILD SUCCESS
[INFO]
-----
[INFO] Total time: 51.607 s
[INFO] Finished at: 2017-08-31T15:10:09+08:00
[INFO] Final Memory: 40M/505M
[INFO]
-----

```

在 dubbo-admin 下编译的 war 包

新加坡 (D:) > eclipsejeelunaSR3 > dubboxws > dubbox-master > dubbo-admin > target				
名称	修改日期	类型	大小	
classes	2017/8/31 14:48	文件夹		
dubbo-admin-2.8.4	2017/8/24 9:46	文件夹		
m2e-wtp	2017/8/24 15:49	文件夹		
maven-archiver	2017/8/24 9:46	文件夹		
test-classes	2017/8/31 14:48	文件夹		
dubbo-admin-2.8.4.war	2017/8/31 15:09	WAR 文件	16,855 KB	
dubbo-admin-2.8.4-sources.jar	2017/8/24 15:52	JAR 压缩文件	197 KB	

参考来源: <http://blog.csdn.net/kefeng824/article/details/44055947>

也可通过命令行执行, 执行效果一样:

运行 maven 命令: `mvn install -Dmaven.test.skip=true`

运行 maven 命令: `mvn clean install -Dmaven.test.skip=true`

D:\eclipsejeelunaSR3\dubboxws\dubbox-master>mvn install -Dmaven.test.skip=true

```

命令提示符
Microsoft Windows [版本 10.0.15063]
(c) 2017 Microsoft Corporation。保留所有权利。

C:\Users\baiye>d:
D:\>cd D:\eclipsejeelunaSR3\dubboxws\dubbox-master
D:\eclipsejeelunaSR3\dubboxws\dubbox-master>mvn install -Dmaven.test.skip=true

```

```
命令提示符
[INFO] --- maven-assembly-plugin:2.2-beta-5:single (make-assembly) @ dubbo-demo-consumer ---
[INFO] Building tar : D:\eclipsejeelunaSR3\dubboxws\dubbox-master\dubbo-demo\dubbo-demo-consumer\target\dubbo-demo-consumer-2.8.4-assembly.tar.gz
[INFO] --- maven-install-plugin:2.3.1:install (default-install) @ dubbo-demo-consumer ---
[INFO] Installing D:\eclipsejeelunaSR3\dubboxws\dubbox-master\dubbo-demo\dubbo-demo-consumer\target\dubbo-demo-consumer-2.8.4.jar to C:\Users\baicy\m2\repository\com\alibaba\dubbo-demo-consumer\2.8.4\dubbo-demo-consumer-2.8.4.jar
[INFO] Installing D:\eclipsejeelunaSR3\dubboxws\dubbox-master\dubbo-demo\dubbo-demo-consumer\pom.xml to C:\Users\baicy\m2\repository\com\alibaba\dubbo-demo-consumer\2.8.4\dubbo-demo-consumer-2.8.4.pom
[INFO] Installing D:\eclipsejeelunaSR3\dubboxws\dubbox-master\dubbo-demo\dubbo-demo-consumer\target\dubbo-demo-consumer-2.8.4-sources.jar to C:\Users\baicy\m2\repository\com\alibaba\dubbo-demo-consumer\2.8.4\dubbo-demo-consumer-2.8.4-sources.jar
[INFO] Installing D:\eclipsejeelunaSR3\dubboxws\dubbox-master\dubbo-demo\dubbo-demo-consumer\target\dubbo-demo-consumer-2.8.4-assembly.tar.gz to C:\Users\baicy\m2\repository\com\alibaba\dubbo-demo-consumer\2.8.4\dubbo-demo-consumer-2.8.4-assembly.tar.gz
[INFO]
[INFO] Reactor Summary:
[INFO]
[INFO] dubbo-parent ..... SUCCESS [ 0.710 s]
[INFO] Hessian Lite(Alibaba embed version) ..... SUCCESS [ 1.058 s]
[INFO] dubbo-common ..... SUCCESS [ 0.552 s]
[INFO] dubbo-container ..... SUCCESS [ 0.029 s]
[INFO] dubbo-container-api ..... SUCCESS [ 0.155 s]
[INFO] dubbo-container-spring ..... SUCCESS [ 0.148 s]
[INFO] dubbo-container-javacfg ..... SUCCESS [ 0.124 s]
[INFO] dubbo-container-jetty ..... SUCCESS [ 0.134 s]
[INFO] dubbo-container-log4j ..... SUCCESS [ 0.147 s]
[INFO] dubbo-container-logback ..... SUCCESS [ 0.170 s]
[INFO] dubbo-remoting ..... SUCCESS [ 0.028 s]
[INFO] dubbo-remoting-api ..... SUCCESS [ 0.262 s]
[INFO] dubbo-remoting-netty ..... SUCCESS [ 0.125 s]
[INFO] dubbo-remoting-mina ..... SUCCESS [ 0.142 s]
[INFO] dubbo-remoting-grizzly ..... SUCCESS [ 0.105 s]
[INFO] dubbo-remoting-p2p ..... SUCCESS [ 0.138 s]
[INFO] dubbo-remoting-http ..... SUCCESS [ 0.156 s]
[INFO] dubbo-remoting-zookeeper ..... SUCCESS [ 0.177 s]
[INFO] dubbo-rpc ..... SUCCESS [ 0.032 s]
[INFO] dubbo-rpc-api ..... SUCCESS [ 0.187 s]
[INFO] dubbo-rpc-default ..... SUCCESS [ 0.205 s]
[INFO] dubbo-rpc-injvm ..... SUCCESS [ 0.116 s]
[INFO] dubbo-rpc-rmi ..... SUCCESS [ 0.082 s]
[INFO] dubbo-rpc-hessian ..... SUCCESS [ 0.167 s]
```

```
命令提示符
[INFO] dubbo-rpc-http ..... SUCCESS [ 0.116 s]
[INFO] dubbo-rpc-websevice ..... SUCCESS [ 0.106 s]
[INFO] dubbo-cluster ..... SUCCESS [ 0.186 s]
[INFO] dubbo-registry ..... SUCCESS [ 0.018 s]
[INFO] dubbo-registry-api ..... SUCCESS [ 0.106 s]
[INFO] dubbo-monitor ..... SUCCESS [ 0.012 s]
[INFO] dubbo-monitor-api ..... SUCCESS [ 0.057 s]
[INFO] dubbo-filter ..... SUCCESS [ 0.013 s]
[INFO] dubbo-filter-validation ..... SUCCESS [ 0.083 s]
[INFO] dubbo-filter-cache ..... SUCCESS [ 0.084 s]
[INFO] dubbo-registry-default ..... SUCCESS [ 0.096 s]
[INFO] dubbo-monitor-default ..... SUCCESS [ 0.093 s]
[INFO] dubbo-registry-multicast ..... SUCCESS [ 0.066 s]
[INFO] dubbo-config ..... SUCCESS [ 0.017 s]
[INFO] dubbo-config-api ..... SUCCESS [ 0.141 s]
[INFO] dubbo-config-spring ..... SUCCESS [ 0.104 s]
[INFO] dubbo-rpc-thrift ..... SUCCESS [ 0.101 s]
[INFO] dubbo-rpc-memcached ..... SUCCESS [ 0.052 s]
[INFO] dubbo-rpc-redis ..... SUCCESS [ 0.124 s]
[INFO] dubbo-rpc-rest ..... SUCCESS [ 0.106 s]
[INFO] dubbo-registry-zookeeper ..... SUCCESS [ 0.087 s]
[INFO] dubbo-registry-redis ..... SUCCESS [ 0.059 s]
[INFO] dubbo ..... SUCCESS [ 4.655 s]
[INFO] dubbo-simple ..... SUCCESS [ 0.012 s]
[INFO] dubbo-registry-simple ..... SUCCESS [ 7.561 s]
[INFO] dubbo-monitor-simple ..... SUCCESS [ 8.124 s]
[INFO] dubbo-admin ..... SUCCESS [ 2.767 s]
[INFO] dubbo-demo ..... SUCCESS [ 0.025 s]
[INFO] dubbo-demo-api ..... SUCCESS [ 0.143 s]
[INFO] dubbo-demo-provider ..... SUCCESS [ 1.795 s]
[INFO] dubbo-demo-consumer ..... SUCCESS [ 10.066 s]
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 43.559 s
[INFO] Finished at: 2017-08-31T15:23:42+08:00
[INFO] Final Memory: 43M/508M
[INFO]
D:\eclipsejeelunaSR3\dubboxws\dubbox-master>
```

2 搭 dubbo-admin、dubbo-monitor 控制台

2.1 配置 zookeeper

1、准备工作-下载 zookeeper

官方地址: <http://apache.fayea.com/zookeeper/zookeeper-3.4.6/>

下载版本: zookeeper-3.4.6.tar.gz

-下载 JDK 1.7 版本以上

下载地址:

<http://www.oracle.com/technetwork/java/javase/downloads/index-jsp-138363.html>

2、解压和安装 zookeeper

zookeeper 的目录我是放置在/usr/zookeeper-3.4.6/这个位置, 所以:

```
tar -zxvf ./zookeeper-3.4.6.tar.gz
```

```
mv ./zookeeper-3.4.6 /usr/zookeeper-3.4.6/
```

同样的, 设置全局环境变量:

```
export PATH=/usr/zookeeper-3.4.6/bin:$PATH
```

如果在 window 机器上运行, 可将 linux 机器上已解压文件夹 zookeeper-3.4.6 下载到本地机器

此电脑 > 新加卷 (D:) > 08zookeeper > zookeeper-3.4.6 >				
名称	修改日期	类型	大小	
bin	2017/8/22 13:50	文件夹		
conf	2017/8/22 13:49	文件夹		
contrib	2017/8/22 13:49	文件夹		
data	2017/8/22 14:00	文件夹		
dist-maven	2017/8/22 13:50	文件夹		
docs	2017/8/22 13:50	文件夹		
lib	2017/8/22 13:50	文件夹		
logs	2017/8/22 14:00	文件夹		
recipes	2017/8/22 13:50	文件夹		
src	2017/8/22 13:50	文件夹		
build.xml	2017/8/22 13:49	BaiduBrowser H...	81 KB	
CHANGES.txt	2017/8/22 13:49	文本文档	79 KB	
ivy.xml	2017/8/22 13:49	BaiduBrowser H...	4 KB	
ivysettings.xml	2017/8/22 13:49	BaiduBrowser H...	2 KB	
LICENSE.txt	2017/8/22 13:49	文本文档	12 KB	
NOTICE.txt	2017/8/22 13:49	文本文档	1 KB	
README.txt	2017/8/22 13:49	文本文档	2 KB	
README_packaging.txt	2017/8/22 13:49	文本文档	2 KB	
zookeeper.out	2017/8/22 13:49	OUT 文件	30 KB	
zookeeper-3.4.6.jar	2017/8/22 13:49	JAR 压缩文件	1,309 KB	
zookeeper-3.4.6.jar.asc	2017/8/22 13:49	ASC 文件	1 KB	
zookeeper-3.4.6.jar.md5	2017/8/22 13:49	MD5 文件	1 KB	
zookeeper-3.4.6.jar.sha1	2017/8/22 13:49	SHA1 文件	1 KB	

解压后的 zookeeper 并没有这个配置文件，有一个名叫 zoo_sample.cfg，复制一个重命名 zoo.cfg 文件

修改配置文件：D:\08zookeeper\zookeeper-3.4.6\conf\zoo.cfg

The number of milliseconds of each tick

tickTime=2000

The number of ticks that the initial

synchronization phase can take

initLimit=10

The number of ticks that can pass between

sending a request and getting an acknowledgement

syncLimit=5

```
# the directory where the snapshot is stored.

# do not use /tmp for storage, /tmp here is just

# example sakes.

#dataDir=/tmp/zookeeper

dataDir=D:\\08zookeeper\\zookeeper-3.4.6\\data    【如目录不存在自己提前创建目录】

dataLogDir=D:\\08zookeeper\\zookeeper-3.4.6\\logs 【如目录不存在自己提前创建目录】

#server.6=127.0.0.1:2888:3888

server.6=127.0.0.1:2888:3888 【server.6 与 zookeeper-3.4.6\\data\\myid 值须一致】

# the port at which the clients will connect

clientPort=2181

# the maximum number of client connections.

# increase this if you need to handle more clients

#maxClientCnxns=60

# Be sure to read the maintenance section of the

# administrator guide before turning on autopurge.

# http://zookeeper.apache.org/doc/current/zookeeperAdmin.html#sc_maintenance

# The number of snapshots to retain in dataDir

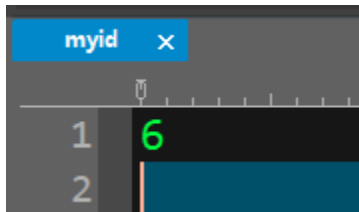
#autopurge.snapRetainCount=3

# Purge task interval in hours

# Set to "0" to disable auto purge feature

#autopurge.purgeInterval=1
```

修改 D:\\08zookeeper\\zookeeper-3.4.6\\data\\myid 文件内容



Window 系统运行: D:\08zookeeper\zookeeper-3.4.6\bin\zkServer.cmd

Linux 系统运行 zookeeper-3.4.6\bin\zkServer.sh start

```
C:\WINDOWS\system32\cmd.exe
2017-08-31 15:51:44,244 [myid:] - INFO [main:Environment@100] - Server environment:os.version=10.0
2017-08-31 15:51:44,260 [myid:] - INFO [main:Environment@100] - Server environment:user.name=baiyc
2017-08-31 15:51:44,260 [myid:] - INFO [main:Environment@100] - Server environment:user.home=C:\Users\baiyc
2017-08-31 15:51:44,260 [myid:] - INFO [main:Environment@100] - Server environment:user.dir=D:\08zookeeper\zookeeper-3.4.6\bin
2017-08-31 15:51:44,260 [myid:] - INFO [main:ZooKeeperServer@755] - tickTime set to 2000
2017-08-31 15:51:44,260 [myid:] - INFO [main:ZooKeeperServer@764] - minSessionTimeout set to -1
2017-08-31 15:51:44,260 [myid:] - INFO [main:ZooKeeperServer@773] - maxSessionTimeout set to -1
2017-08-31 15:51:44,569 [myid:] - INFO [main:NIOServerCnxnFactory@94] - binding to port 0.0.0.0/0.0.0.0:2181
2017-08-31 15:52:26,004 [myid:] - INFO [SessionTracker:ZooKeeperServer@347] - Expiring session 0x15e2ca6c9240004, timeout of 40000ms exceeds
2017-08-31 15:52:26,004 [myid:] - INFO [ProcessThread(sid=0 cport=1)::PrepRequestProcessor@494] - Processed session termination for session
id: 0x15e2ca6c9240004
2017-08-31 15:52:26,004 [myid:] - INFO [ProcessThread(sid=0 cport=1)::PrepRequestProcessor@494] - Processed session termination for session
id: 0x15e2ca6c9240003
2017-08-31 15:52:26,004 [myid:] - INFO [SyncThread:0:FileTxnLog@199] - Creating new log file: log.acc
```

已正常启动

Window 系统运行: D:\08zookeeper\zookeeper-3.4.6\bin\zkCli.cmd

Linux 系统运行 zookeeper-3.4.6\bin\zkCli.sh

```
C:\WINDOWS\system32\cmd.exe
2017-08-31 15:54:30,337 [myid:] - INFO [main:Environment@100] - Client environment:os.name=Windows 10
2017-08-31 15:54:30,337 [myid:] - INFO [main:Environment@100] - Client environment:os.arch=amd64
2017-08-31 15:54:30,337 [myid:] - INFO [main:Environment@100] - Client environment:os.version=10.0
2017-08-31 15:54:30,337 [myid:] - INFO [main:Environment@100] - Client environment:user.name=baiyc
2017-08-31 15:54:30,337 [myid:] - INFO [main:Environment@100] - Client environment:user.home=C:\Users\baiyc
2017-08-31 15:54:30,337 [myid:] - INFO [main:Environment@100] - Client environment:user.dir=D:\08zookeeper\zookeeper-3.4.6\bin
2017-08-31 15:54:30,337 [myid:] - INFO [main:ZooKeeper@438] - Initiating client connection, connectString=localhost:2181 sessionTimeout=30000 watcher=org.apache.zookeeper.ZooKeeperMain$MyWatcher@7aec35a
Welcome to ZooKeeper!
2017-08-31 15:54:30,665 [myid:] - INFO [main-SendThread(0:0:0:0:0:0:0:1:2181):ClientCnxn$SendThread@975] - Opening socket connection to server 0:0:0:0:0:0:0:1/0:0:0:0:0:0:0:0:1:2181. Will not attempt to authenticate using SASL (unknown error)
2017-08-31 15:54:30,665 [myid:] - INFO [main-SendThread(0:0:0:0:0:0:0:1:2181):ClientCnxn$SendThread@852] - Socket connection established to 0:0:0:0:0:0:0:1/0:0:0:0:0:0:0:1:2181, initiating session
JLine support is enabled
2017-08-31 15:54:30,681 [myid:] - INFO [main-SendThread(0:0:0:0:0:0:0:1:2181):ClientCnxn$SendThread@1235] - Session establishment complete on server 0:0:0:0:0:0:0:1/0:0:0:0:0:0:0:1:2181, sessionid = 0x15e374641270000, negotiated timeout = 30000
WATCHER...
WatchedEvent state:SyncConnected type:None path:null
[zk: localhost:2181(CONNECTED) 0] ls /
[dubbo, zookeeper]
[zk: localhost:2181(CONNECTED) 1] ls /dubbo
[com.alibaba.dubbo.demo.user.facade.AnotherUserRestService, com.alibaba.dubbo.demo.user.UserService, com.alibaba.dubbo.monitor.MonitorService, com.alibaba.dubbo.demo.user.facade.UserRestService, com.alibaba.dubbo.provider.DemoService]
[zk: localhost:2181(CONNECTED) 2]
```

可通过 ls 查询 zookeeper 下的节点内容

ls /

ls /dubbo

2.2 配置 dubbo-admin 和 dubbo-monitor 控制台

tomcat 运行环境: D:\apache-tomcat-9.0.0

war 包: dubbo-admin-2.8.4.war dubbo-monitor-2.8.4.war

拷贝到: D:\apache-tomcat-9.0.0\webapps 并重命名 dubbo-admin.war、dubbo-monitor.war

启动 tomcat 命令: D:\apache-tomcat-9.0.0\bin\startup.bat 进行有效解压 war 包

dubbo-admin 管理端

懒人下载: <http://download.csdn.net/detail/u011282930/9477514>

dubbo-monitor 监控端

懒人下载: <http://download.csdn.net/detail/u011282930/9477515>

我们对于 dubbo 的监控用的是改装后的（页面非常好看）

下载 dubbo-monitor 的源代码 handu-dubbo-monitor-master.zip

下载地址: <http://git.oschina.net/handu/dubbo-monitor>

2.2.1 修改 dubbo-admin 配置

修改: D:\apache-tomcat-9.0.0\webapps\dubbo-admin\WEB-INF\dubbo.properties

dubbo.registry.address=zookeeper://127.0.0.1:2181

dubbo.admin.root.password=root

dubbo.admin.guest.password=guest

2.2.2 修改 dubbo-monitor 配置

修改 D:\apache-tomcat-9.0.0\webapps\dubbo-monitor\WEB-INF\classes\application.properties

dubbo.application.name=dubbo-monitor

dubbo.application.owner=

dubbo.registry.address=zookeeper://127.0.0.1:2181

dubbo.protocol.port=9060

Database Settings

```
db.url=jdbc:mysql://127.0.0.1:3306/monitor?prepStmtCacheSize=517&cachePrepStmts=true&autoReconnect=true&characterEncoding=utf-8
db.username=root
db.password=root
db.maxActive=500
```

```
# System Manager 后续登录用户名和密码
manager.username=root
manager.password=root
```

通过数据库脚本创建好数据库：
数据库创建脚本位置：

handu-dubbo-monitor-master.zip\dubbo-monitor\sql - ZIP 压缩包,大小 10,592,432 字节

D:\eclipsejeelunaSR3\gitwsm\dubbo-monitor\sql\create.sql 内容如下：

```
SET NAMES utf8;
SET FOREIGN_KEY_CHECKS = 0;

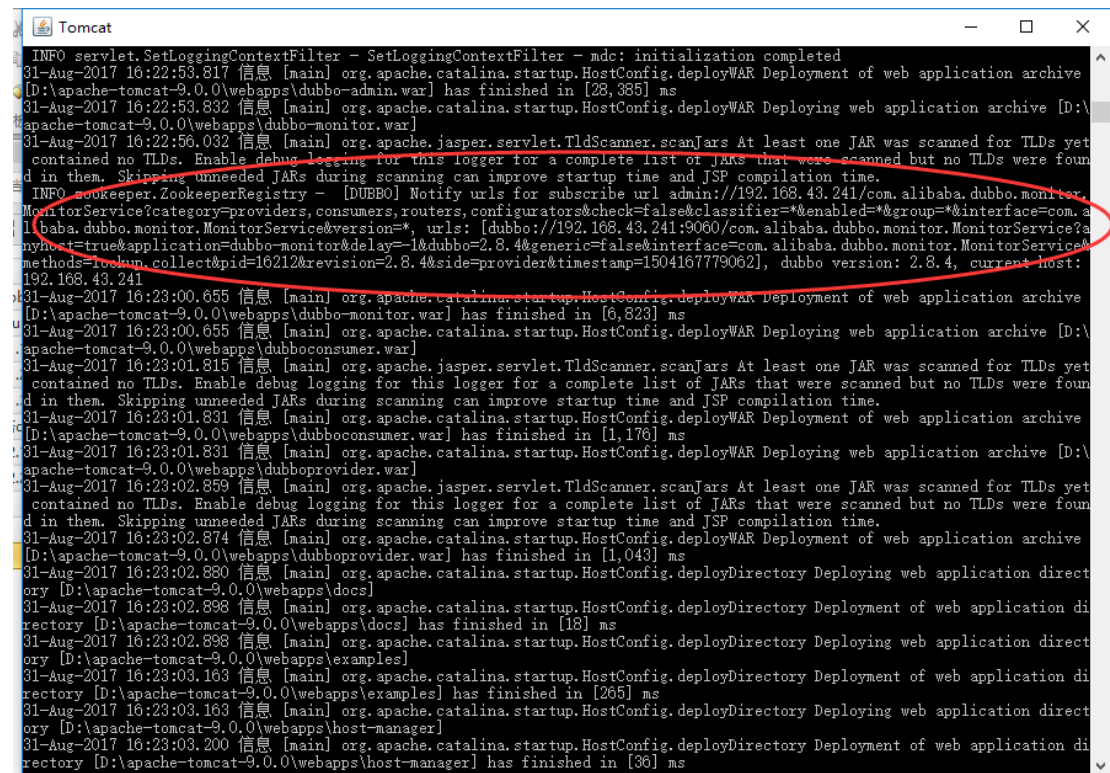
DROP TABLE IF EXISTS `dubbo_invoke`;
CREATE TABLE `dubbo_invoke` (
  `id` varchar(255) NOT NULL DEFAULT "",
  `invoke_date` date NOT NULL,
  `service` varchar(255) DEFAULT NULL,
  `method` varchar(255) DEFAULT NULL,
  `consumer` varchar(255) DEFAULT NULL,
  `provider` varchar(255) DEFAULT NULL,
  `type` varchar(255) DEFAULT "",
  `invoke_time` bigint(20) DEFAULT NULL,
  `success` int(11) DEFAULT NULL,
  `failure` int(11) DEFAULT NULL,
  `elapsed` int(11) DEFAULT NULL,
  `concurrent` int(11) DEFAULT NULL,
  `max_elapsed` int(11) DEFAULT NULL,
  `max_concurrent` int(11) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `index_service` (`service`) USING BTREE,
  KEY `index_method` (`method`) USING BTREE
) ENGINE=InnoDB DEFAULT CHARSET=utf8 ROW_FORMAT=COMPACT;

SET FOREIGN_KEY_CHECKS = 1;
```

2.2.3 启动并登录 dubbo-admin 和 dubbo-monitor 控制台

windows 启动 tomcat: D:\apache-tomcat-9.0.0\bin\ startup.bat

Linux 启动 tomcat: apache-tomcat-9.0.0\bin\ startup.sh



```
Tomcat
INFO servlet.SetLoggingContextFilter - SetLoggingContextFilter - mdc: initialization completed
31-Aug-2017 16:22:53.817 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive
[D:\apache-tomcat-9.0.0\webapps\dubbo-admin.war] has finished in [28,385] ms
31-Aug-2017 16:22:53.832 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [D:\
apache-tomcat-9.0.0\webapps\dubbo-monitor.war]
31-Aug-2017 16:22:56.032 信息 [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet
contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found
in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
INFO zookeeper.ZookeeperRegistry - [DUBBO] Notify urls for subscribe url admin://192.168.43.241/com.alibaba.dubbo.monitor.
MonitorService?category=providers,consumers,routers,configurators&check=false&classifier=*%enabled=*%group=*%interface=com.a
libaba.dubbo.monitor.MonitorService&version=*, urls: [dubbo://192.168.43.241:9060/com.alibaba.dubbo.monitor.MonitorService?
application=dubbo-monitor&delay=1&dubbo=2.8.4&generic=false&interface=com.alibaba.dubbo.monitor.MonitorService&
methods=lookup,collect&pid=16212&revision=2.8.4&side=provider&timestamp=1504167779062], dubbo version: 2.8.4, current host:
192.168.43.241
31-Aug-2017 16:23:00.655 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive
[D:\apache-tomcat-9.0.0\webapps\dubbo-monitor.war] has finished in [6,823] ms
31-Aug-2017 16:23:00.655 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [D:\
apache-tomcat-9.0.0\webapps\dubboconsumer.war]
31-Aug-2017 16:23:01.815 信息 [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet
contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found
in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
31-Aug-2017 16:23:01.831 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive
[D:\apache-tomcat-9.0.0\webapps\dubboconsumer.war] has finished in [1,170] ms
31-Aug-2017 16:23:01.831 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [D:\
apache-tomcat-9.0.0\webapps\dubboprovider.war]
31-Aug-2017 16:23:02.859 信息 [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet
contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found
in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
31-Aug-2017 16:23:02.874 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive
[D:\apache-tomcat-9.0.0\webapps\dubboprovider.war] has finished in [1,043] ms
31-Aug-2017 16:23:02.880 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application direct
ory [D:\apache-tomcat-9.0.0\webapps\docs]
31-Aug-2017 16:23:02.898 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application di
rectory [D:\apache-tomcat-9.0.0\webapps\docs] has finished in [18] ms
31-Aug-2017 16:23:02.898 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application direct
ory [D:\apache-tomcat-9.0.0\webapps\examples]
31-Aug-2017 16:23:03.163 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application di
rectory [D:\apache-tomcat-9.0.0\webapps\examples] has finished in [265] ms
31-Aug-2017 16:23:03.163 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application direct
ory [D:\apache-tomcat-9.0.0\webapps\host-manager]
31-Aug-2017 16:23:03.200 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application di
rectory [D:\apache-tomcat-9.0.0\webapps\host-manager] has finished in [36] ms
```

Dubbo 相关服务

```
Tomcat
methods=lookup,collect&pid=16212&revision=2.8.4&side=provider&timestamp=1504167779062], dubbo version: 2.8.4, current host: 192.168.43.241
31-Aug-2017 16:23:00.655 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive [D:\apache-tomcat-9.0.0\webapps\dubbo-monitor.war] has finished in [6,823] ms
31-Aug-2017 16:23:00.655 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [D:\apache-tomcat-9.0.0\webapps\dubboconsumer.war]
31-Aug-2017 16:23:01.815 信息 [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
31-Aug-2017 16:23:01.831 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive [D:\apache-tomcat-9.0.0\webapps\dubboconsumer.war] has finished in [1,176] ms
31-Aug-2017 16:23:01.831 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [D:\apache-tomcat-9.0.0\webapps\dubboprovider.war]
31-Aug-2017 16:23:02.859 信息 [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
31-Aug-2017 16:23:02.874 信息 [main] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive [D:\apache-tomcat-9.0.0\webapps\dubboprovider.war] has finished in [1,043] ms
31-Aug-2017 16:23:02.880 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [D:\apache-tomcat-9.0.0\webapps\docs]
31-Aug-2017 16:23:02.898 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [D:\apache-tomcat-9.0.0\webapps\docs] has finished in [18] ms
31-Aug-2017 16:23:02.898 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [D:\apache-tomcat-9.0.0\webapps\examples]
31-Aug-2017 16:23:03.163 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [D:\apache-tomcat-9.0.0\webapps\examples] has finished in [265] ms
31-Aug-2017 16:23:03.163 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [D:\apache-tomcat-9.0.0\webapps\host-manager]
31-Aug-2017 16:23:03.200 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [D:\apache-tomcat-9.0.0\webapps\host-manager] has finished in [36] ms
31-Aug-2017 16:23:03.203 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [D:\apache-tomcat-9.0.0\webapps\manager]
31-Aug-2017 16:23:03.243 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [D:\apache-tomcat-9.0.0\webapps\manager] has finished in [41] ms
31-Aug-2017 16:23:03.244 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [D:\apache-tomcat-9.0.0\webapps\ROOT]
31-Aug-2017 16:23:03.276 信息 [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [D:\apache-tomcat-9.0.0\webapps\ROOT] has finished in [32] ms
31-Aug-2017 16:23:03.280 信息 [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
31-Aug-2017 16:23:03.298 信息 [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["ajp-nio-8009"]
31-Aug-2017 16:23:03.307 信息 [main] org.apache.catalina.startup.Catalina.start Server startup in 37937 ms
```

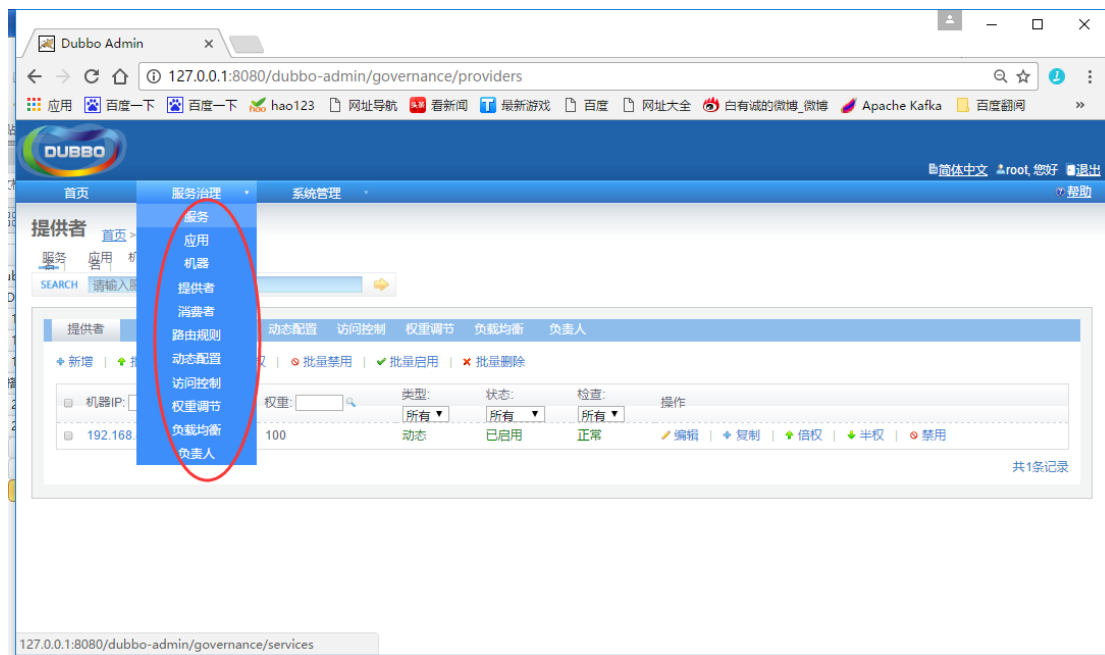
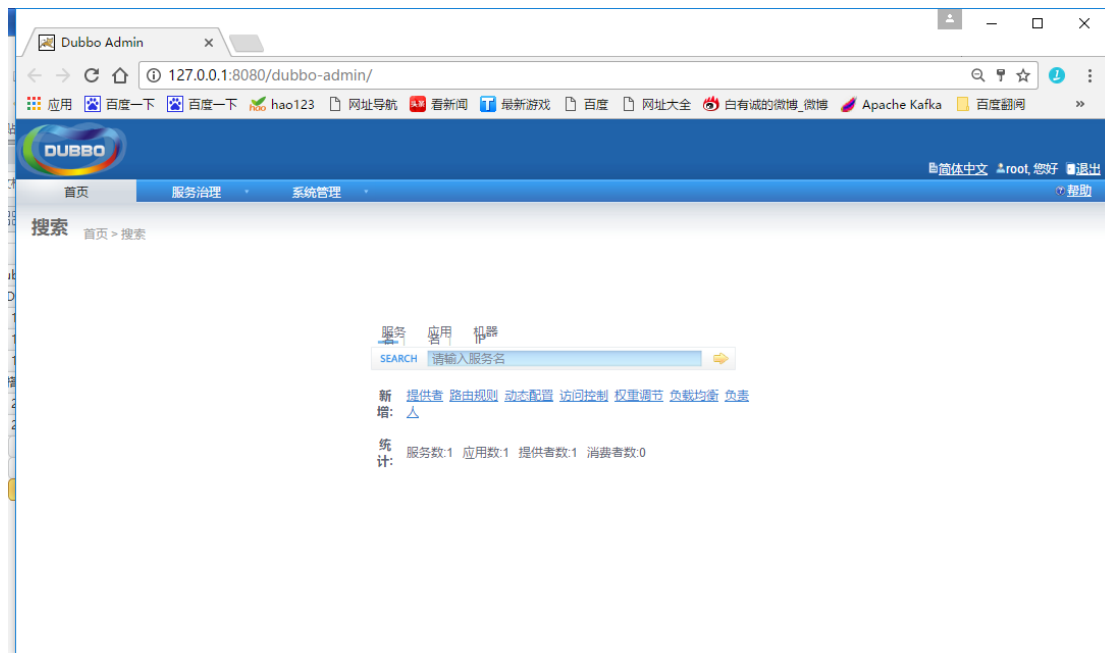
正常启动

登录 dubbo-admin

<http://127.0.0.1:8080/dubbo-admin> root/root



输入账号 root 密码root 点击【登录】

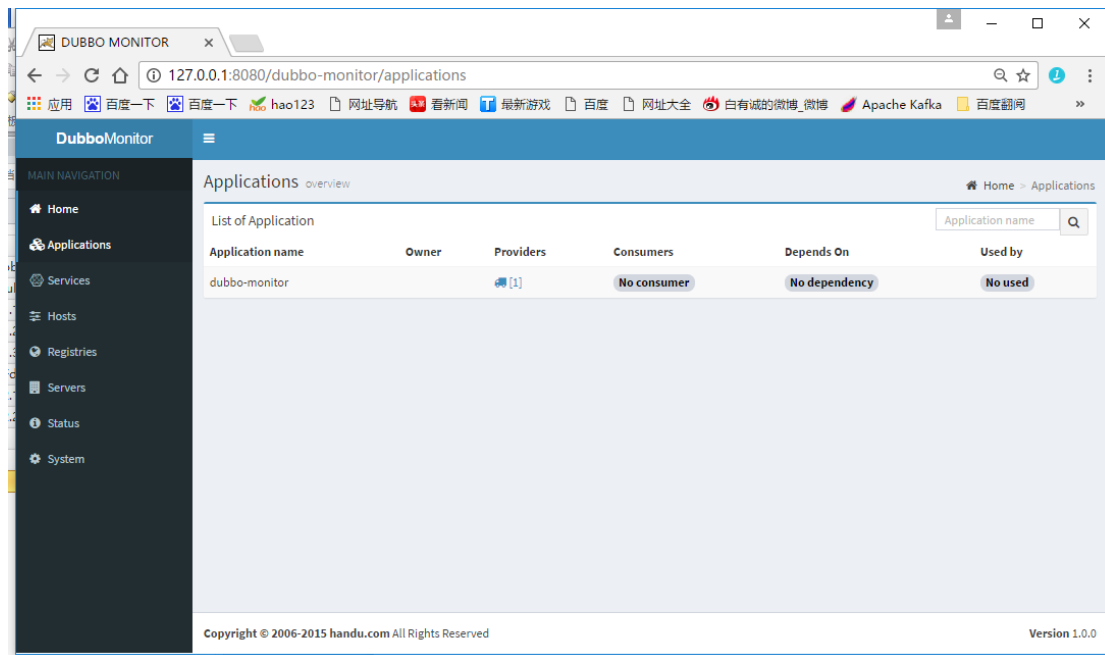


可操作相关功能。

登录dubbo- monitor

<http://127.0.0.1:8080/dubbo-monitor> 输入用户名 root 密码 root，点击【登录】

【用户名和密码为配置文件所配置的账号和密码】



可操作相关功能。

参考来源：<http://blog.csdn.net/rogerjava/article/details/54743455>

3 dubbo 开发服务、注册服务、消费服务

先给出阿里巴巴 dubbo 的主页：

<http://code.alibabatech.com/wiki/display/dubbo/Home-zh>

demo 下载地址：<http://download.csdn.net/detail/u012049463/6763315>

获取： provider.rar

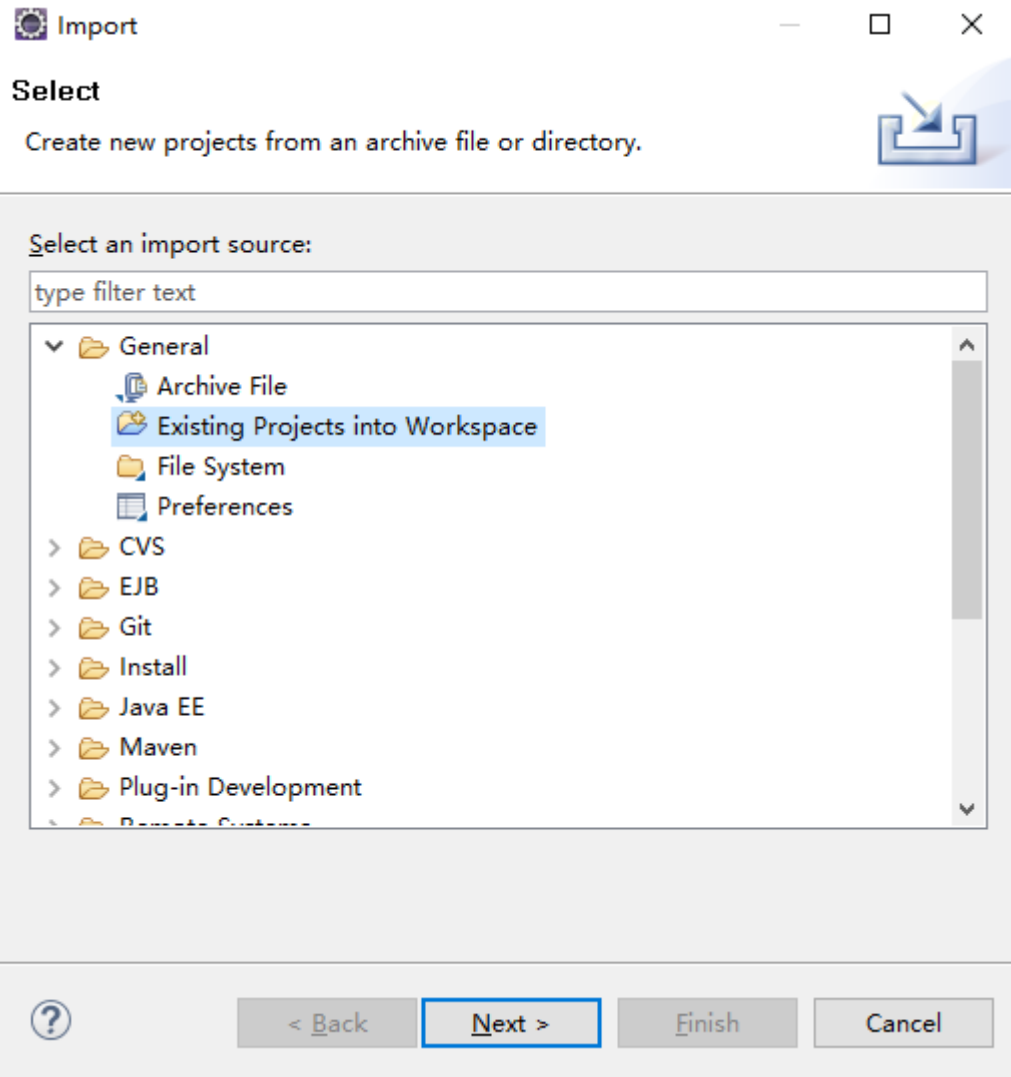
提供： dubboprovider.rar 、 dubboconsumer.rar

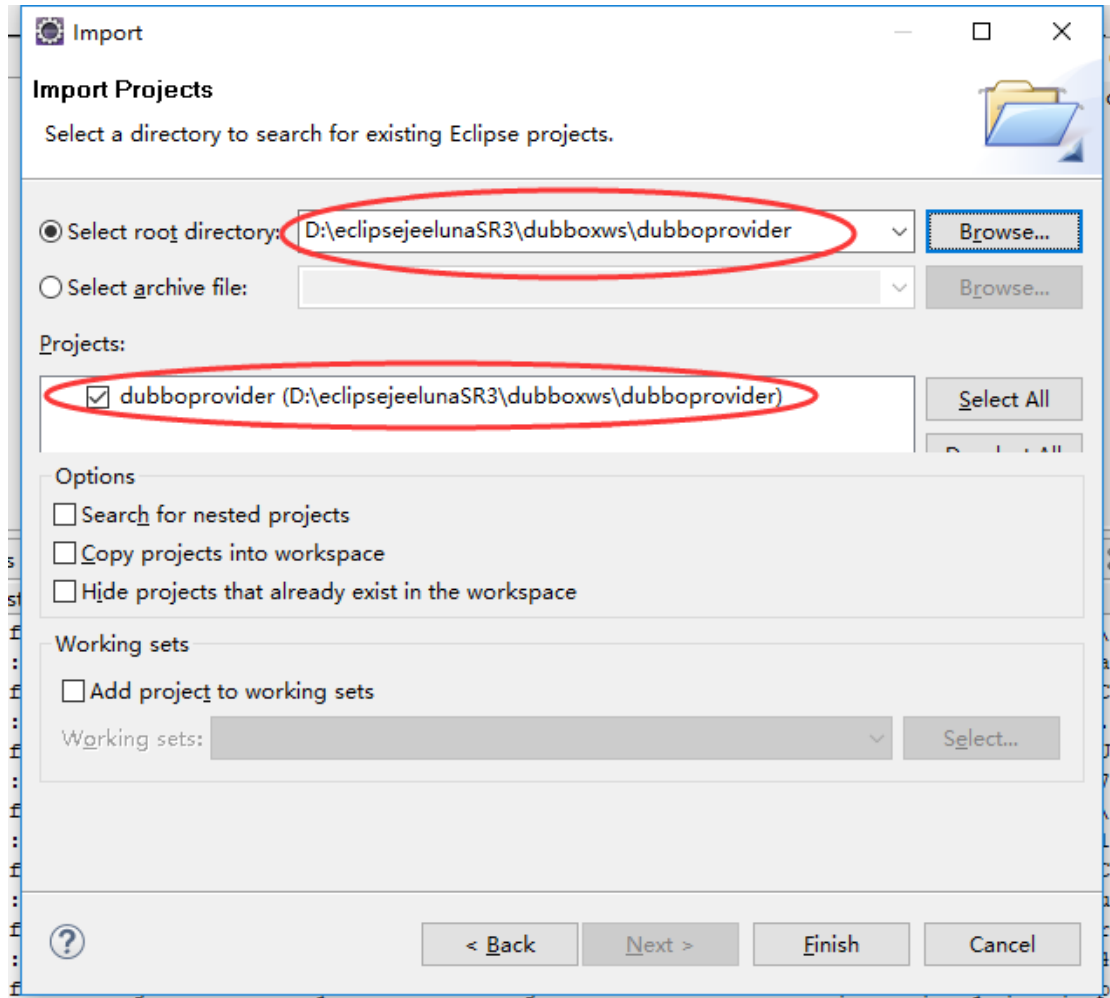
3.1 导入源代码

解压后文件夹： D:\eclipsejeelunaSR3\dubboxws\dubboprovider

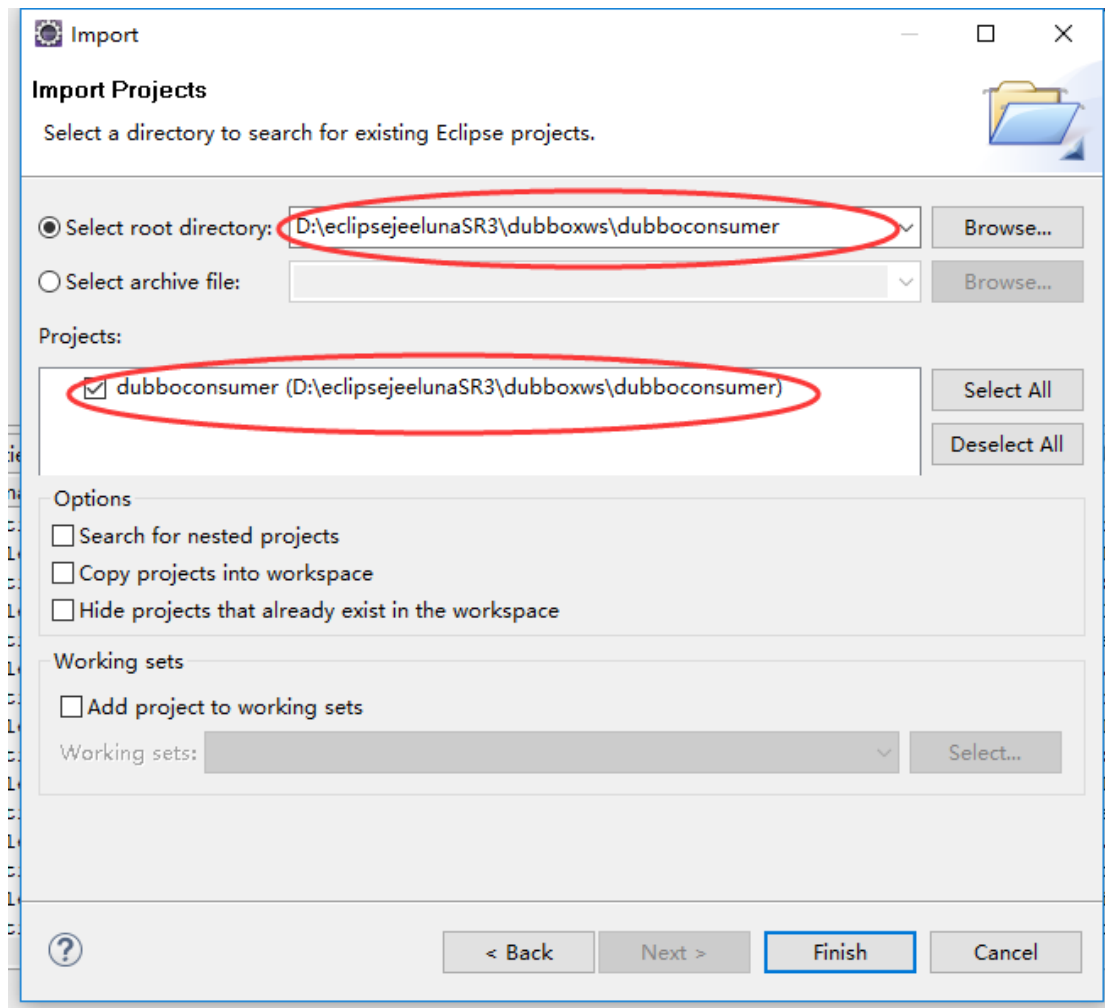
解压后文件夹： D:\eclipsejeelunaSR3\dubboxws\ dubboconsumer

通过导入已存在项目，导入到 eclipse 中





点击【Finish】



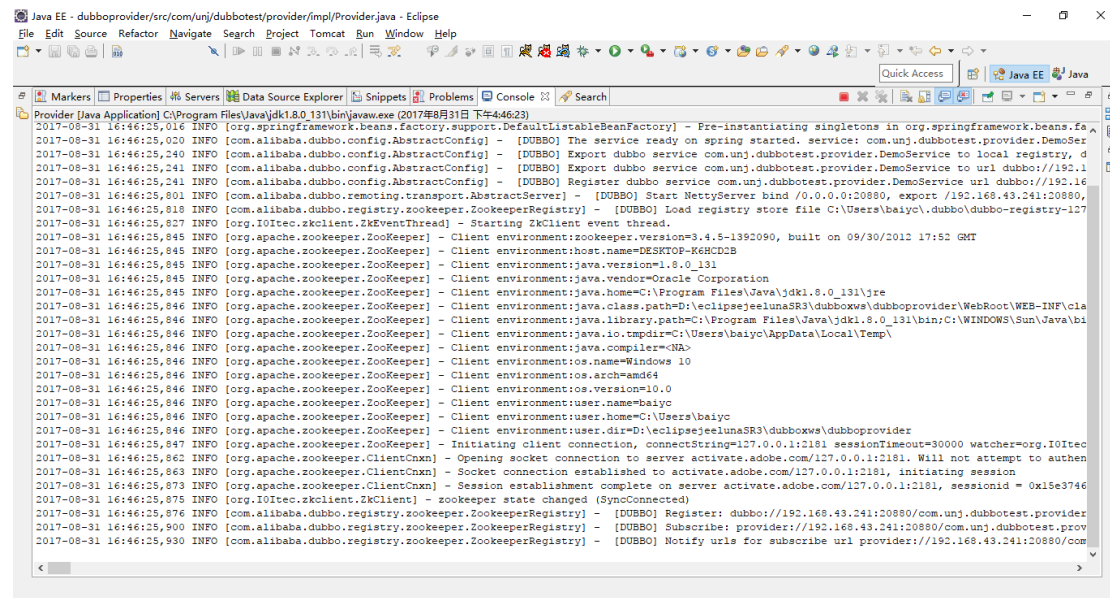
点击【Finish】

3.1.1 Dubboprovider 配置

修改 eclipse 中的配置： /dubboprovider/src/applicationContext.xml

```
<?xml version="1.0" encoding="UTF-8"?>
    <!-- 具体的实现bean -->
    <bean id="demoService"
class="com.unj.dubbotest.provider.impl.DemoServiceImpl" />
    <!-- 提供方应用信息，用于计算依赖关系 -->
    <dubbo:application name="xixi_provider" />
    <!-- 使用zookeeper注册中心暴露服务地址 -->
    <dubbo:registry address="zookeeper://127.0.0.1:2181" />
    <!-- 用dubbo协议在20880端口暴露服务 -->
    <dubbo:protocol name="dubbo" port="20880" />
    <!-- 声明需要暴露的服务接口 -->
    <dubbo:service interface="com.unj.dubbotest.provider.DemoService"
ref="demoService" />
</beans>
```

运行服务提供类注册: /dubboprovider/src/com/unj/dubbotest/provider/impl/Provider.java
右键 Run as -> java application



```
Provider [Java Application] C:\Program Files\Java\jdk1.8.0_131\bin\java.exe (2017年8月31日 下午4:46:23)
2017-08-31 16:46:25,016 INFO [org.springframework.beans.factory.support.DefaultListableBeanFactory] - Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@41e7c8cf: beans defined by classes in [com.alibaba.dubbo.config.spring, com.unj.dubbotest.provider]
2017-08-31 16:46:25,020 INFO [com.alibaba.dubbo.config.AbstractConfig] - [DUBBO] The service ready on spring started. service: com.unj.dubbotest.provider.DemoService
2017-08-31 16:46:25,240 INFO [com.alibaba.dubbo.config.AbstractConfig] - [DUBBO] Export dubbo service com.unj.dubbotest.provider.DemoService to local registry, d
2017-08-31 16:46:25,241 INFO [com.alibaba.dubbo.config.AbstractConfig] - [DUBBO] Export dubbo service com.unj.dubbotest.provider.DemoService to url dubbo://192.1
2017-08-31 16:46:25,241 INFO [com.alibaba.dubbo.config.AbstractConfig] - [DUBBO] Register dubbo service com.unj.dubbotest.provider.DemoService url dubbo://192.16
2017-08-31 16:46:25,241 INFO [com.alibaba.dubbo.remoting.transport.AbstractServer] - [DUBBO] Start NettyServer bind /0.0.0.0:20880, export /192.168.43.241:20880,
2017-08-31 16:46:25,241 INFO [com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO] Load registry store file C:\Users\baicyo\dubbo\dubbo-registry-127
2017-08-31 16:46:25,241 INFO [org.I0Itec.zkclient.ZkEventThread] - Starting ZkClient event thread.
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:zookeeper.version=3.4.5-1392090, built on 09/30/2012 17:52 GMT
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:host.name=DESKTOP-K6HCDB
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.version=1.8.0_131
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.vendor=Oracle Corporation
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.home=C:\Program Files\Java\jdk1.8.0_131\jre
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.class.path=D:\eclipse\workspace\dubbo\dubbo-provider\src\main\resources
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.library.path=C:\Program Files\Java\jdk1.8.0_131\bin;C:\WINDOWS\Sun\Java\bin
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.io.tmpdir=C:\Users\baicyo\AppData\Local\Temp\
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.compiler=NA
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:os.name=Windows 10
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:os.arch=amd64
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:os.version=10.0
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:user.name=baicyo
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:user.home=C:\Users\baicyo
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:user.dir=D:\eclipse\workspace\dubbo\dubbo-provider
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ZooKeeper] - Initiating client connection, connectString=127.0.0.1:2181 sessionTimeout=30000 watcher=org.I0Itec
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ClientCnxn] - Opening socket connection to server activate.adobe.com/127.0.0.1:2181. Will not attempt to authen
2017-08-31 16:46:25,241 INFO [org.apache.zookeeper.ClientCnxn] - Socket connection established to activate.adobe.com/127.0.0.1:2181, initiating session
2017-08-31 16:46:25,241 INFO [org.I0Itec.zkclient.ZkClient] - Session establishment complete on server activate.adobe.com/127.0.0.1:2181, sessionId = 0x15e3746
2017-08-31 16:46:25,241 INFO [com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO] Register: dubbo://192.168.43.241:20880/com.unj.dubbotest.provider
2017-08-31 16:46:25,241 INFO [com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO] Subscribe: provider://192.168.43.241:20880/com.unj.dubbotest.prov
2017-08-31 16:46:25,241 INFO [com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO] Notify urls for subscribe url provider://192.168.43.241:20880/com
```

提供服务日志信息:

```
2017-08-31 16:46:25,847 INFO [org.apache.zookeeper.ZooKeeper] -
Initiating client connection, connectString=127.0.0.1:2181
sessionTimeout=30000 watcher=org.I0Itec.zkclient.ZkClient@55b699ef
2017-08-31 16:46:25,862 INFO [org.apache.zookeeper.ClientCnxn] - Opening
socket connection to server activate.adobe.com/127.0.0.1:2181. Will not
attempt to authenticate using SASL (unknown error)
2017-08-31 16:46:25,863 INFO [org.apache.zookeeper.ClientCnxn] - Socket
connection established to activate.adobe.com/127.0.0.1:2181, initiating
session
2017-08-31 16:46:25,873 INFO [org.apache.zookeeper.ClientCnxn] - Session
establishment complete on server activate.adobe.com/127.0.0.1:2181,
sessionId = 0x15e374641270003, negotiated timeout = 30000
2017-08-31 16:46:25,875 INFO [org.I0Itec.zkclient.ZkClient] - zookeeper
state changed (SyncConnected)
2017-08-31 16:46:25,876 INFO
[com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO]
Register:
dubbo://192.168.43.241:20880/com.unj.dubbotest.provider.DemoService?a
nyhost=true&application=xixi_provider&dubbo=2.5.2&interface=com.unj.d
ubbotest.provider.DemoService&methods=sayHello, getUsers&pid=964&side=
provider&timestamp=1504169185076, dubbo version: 2.5.2, current host:
127.0.0.1
2017-08-31 16:46:25,900 INFO
```

```
[com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO]
Subscribe:
provider://192.168.43.241:20880/com.unj.dubbo.test.provider.DemoService?anyhost=true&application=xixi_provider&category=configurators&check=false&dubbo=2.5.2&interface=com.unj.dubbo.test.provider.DemoService&methods=sayHello, getUsers&pid=964&side=provider&timestamp=1504169185076, dubbo version: 2.5.2, current host: 127.0.0.1
2017-08-31 16:46:25,930 INFO
[com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO]
Notify urls for subscribe url
provider://192.168.43.241:20880/com.unj.dubbo.test.provider.DemoService?anyhost=true&application=xixi_provider&category=configurators&check=false&dubbo=2.5.2&interface=com.unj.dubbo.test.provider.DemoService&methods=sayHello, getUsers&pid=964&side=provider&timestamp=1504169185076, urls:
[empty://192.168.43.241:20880/com.unj.dubbo.test.provider.DemoService?anyhost=true&application=xixi_provider&category=configurators&check=false&dubbo=2.5.2&interface=com.unj.dubbo.test.provider.DemoService&methods=sayHello, getUsers&pid=964&side=provider&timestamp=1504169185076], dubbo version: 2.5.2, current host: 127.0.0.1
```

3.1.2 Dubboconsumer 配置

修改 eclipse 中配置: /dubboconsumer/src/applicationContext.xml

```
<?xml version="1.0" encoding="UTF-8"?>
  <!-- 消费方应用名，用于计算依赖关系，不是匹配条件，不要与提供方一样 -->
  <dubbo:application name="hehe_consumer" />

  <!-- 使用zookeeper注册中心暴露服务地址 -->
  <dubbo:registry address="zookeeper://127.0.0.1:2181" />

  <!-- 生成远程服务代理，可以像使用本地bean一样使用demoService -->
  <dubbo:reference id="demoService"
interface="com.unj.dubbo.test.provider.DemoService" />
</beans>
```

运行服务消费类: /dubboconsumer/src/com/alibaba/dubbo/demo/pp/Consumer.java
右键 Run as -> java application

```
Consumer [Java Application] C:\Program Files\Java\jdk1.8.0_131\bin\java.exe (2017年8月31日 下午4:51:44)
2017-08-31 16:51:45,586 INFO [org.apache.zookeeper.ZooKeeper] - Starting ZkClient event thread.
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:zookeeper.version=3.4.5-1392090, built on 09/30/2012 17:52 GMT
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:host.name=DESKTOP-K6HCDB
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.version=1.8.0_131
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.vendor=Oracle Corporation
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.home=C:\Program Files\Java\jdk1.8.0_131\jre
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.class.path=D:\eclipse\workspace\dubboconsumer\WebRoot\WEB-INF\classes
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.library.path=C:\Program Files\Java\jdk1.8.0_131\bin;C:\WINDOWS\Sun\Java\bin
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.io.tmpdir=C:\Users\baicy\AppData\Local\Temp\
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:java.compiler=<NA>
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:os.name=Windows 10
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:os.arch=amd64
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:os.version=10.0
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:user.name=baicy
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:user.home=C:\Users\baicy
2017-08-31 16:51:45,610 INFO [org.apache.zookeeper.ZooKeeper] - Client environment:user.dir=D:\eclipse\workspace\dubboconsumer
2017-08-31 16:51:45,611 INFO [org.apache.zookeeper.ZooKeeper] - Initiating client connection, connectString=127.0.0.1:2181 sessionTimeout=30000 watcher=org.I0Itec
2017-08-31 16:51:45,612 INFO [org.apache.zookeeper.ClientCnxn] - Opening socket connection to server activate.adobe.com/127.0.0.1:2181. Will not attempt to authen
2017-08-31 16:51:46,130 INFO [org.apache.zookeeper.ClientCnxn] - Socket connection established to activate.adobe.com/127.0.0.1:2181, initiating session
2017-08-31 16:51:46,144 INFO [org.apache.zookeeper.ClientCnxn] - Session establishment complete on server activate.adobe.com/127.0.0.1:2181, sessionId = 0x15e3746
2017-08-31 16:51:46,146 INFO [org.I0Itec.zkclient.ZkClient] - zookeeper state changed (SyncConnected)
2017-08-31 16:51:46,183 INFO [com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO] Register: consumer://192.168.43.241/com.unj.dubbotest.provider.D
2017-08-31 16:51:46,271 INFO [com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO] Subscribe: consumer://192.168.43.241/com.unj.dubbotest.provider.D
2017-08-31 16:51:46,488 INFO [com.alibaba.dubbo.remoting.transport.AbstractClient] - [DUBBO] Notify urls for subscribe url consumer://192.168.43.241/com.unj.d
2017-08-31 16:51:46,488 INFO [com.alibaba.dubbo.remoting.transport.AbstractClient] - [DUBBO] Succeeded connect to server /192.168.43.241:20880 from NettyClient 1
2017-08-31 16:51:46,607 INFO [com.alibaba.dubbo.config.AbstractConfig] - [DUBBO] Start NettyClient DESKTOP-K6HCDB/192.168.43.241 connect to the serv
hello tom
{name='jack', sex='m', age='20'}
{name='tom', sex='m', age='21'}
{name='rose', sex='w', age='19'}
```

已调用 demoService 服务进行消费。

日志信息：

```
2017-08-31 16:51:45,611 INFO [org.apache.zookeeper.ZooKeeper] -
Initiating client connection, connectString=127.0.0.1:2181
sessionTimeout=30000 watcher=org.I0Itec.zkclient.ZkClient@32a068d1
2017-08-31 16:51:46,127 INFO [org.apache.zookeeper.ClientCnxn] - Opening
socket connection to server activate.adobe.com/127.0.0.1:2181. Will not
attempt to authenticate using SASL (unknown error)
2017-08-31 16:51:46,130 INFO [org.apache.zookeeper.ClientCnxn] - Socket
connection established to activate.adobe.com/127.0.0.1:2181, initiating
session
2017-08-31 16:51:46,144 INFO [org.apache.zookeeper.ClientCnxn] - Session
establishment complete on server activate.adobe.com/127.0.0.1:2181,
sessionId = 0x15e374641270004, negotiated timeout = 30000
2017-08-31 16:51:46,146 INFO [org.I0Itec.zkclient.ZkClient] - zookeeper
state changed (SyncConnected)
2017-08-31 16:51:46,183 INFO
[com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO]
Register:
consumer://192.168.43.241/com.unj.dubbotest.provider.DemoService?appl
ication=hehe_consumer&category=consumers&check=false&dubbo=2.5.2&inte
rface=com.unj.dubbotest.provider.DemoService&methods=sayHello,getUser
s&pid=12428&side=consumer&timestamp=1504169505248, dubbo version:
2.5.2, current host: 192.168.43.241
2017-08-31 16:51:46,210 INFO
[com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO]
Subscribe:
```

consumer://192.168.43.241/com.unj.dubbotest.provider.DemoService?application=hehe_consumer&category=providers,configurators,routers&dubbo=2.5.2&interface=com.unj.dubbotest.provider.DemoService&methods=sayHello,getUsers&pid=12428&side=consumer×tamp=1504169505248, dubbo version: 2.5.2, current host: 192.168.43.241

2017-08-31 16:51:46,271 INFO

[com.alibaba.dubbo.registry.zookeeper.ZookeeperRegistry] - [DUBBO] Notify urls for subscribe url

consumer://192.168.43.241/com.unj.dubbotest.provider.DemoService?application=hehe_consumer&category=providers,configurators,routers&dubbo=2.5.2&interface=com.unj.dubbotest.provider.DemoService&methods=sayHello,getUsers&pid=12428&side=consumer×tamp=1504169505248, urls:

[dubbo://192.168.43.241:20880/com.unj.dubbotest.provider.DemoService?anyhost=true&application=xixi_provider&dubbo=2.5.2&interface=com.unj.dubbotest.provider.DemoService&methods=sayHello,getUsers&pid=964&side=provider×tamp=1504169185076,

empty://192.168.43.241/com.unj.dubbotest.provider.DemoService?application=hehe_consumer&category=configurators&dubbo=2.5.2&interface=com.unj.dubbotest.provider.DemoService&methods=sayHello,getUsers&pid=12428&side=consumer×tamp=1504169505248,

empty://192.168.43.241/com.unj.dubbotest.provider.DemoService?application=hehe_consumer&category=routers&dubbo=2.5.2&interface=com.unj.dubbotest.provider.DemoService&methods=sayHello,getUsers&pid=12428&side=consumer×tamp=1504169505248], dubbo version: 2.5.2, current host: 192.168.43.241

2017-08-31 16:51:46,488 INFO

[com.alibaba.dubbo.remoting.transport.AbstractClient] - [DUBBO] Succesed connect to server /192.168.43.241:20880 from NettyClient 192.168.43.241 using dubbo version 2.5.2, channel is NettyChannel [channel=[id: 0x59309333, /192.168.43.241:61152 => /192.168.43.241:20880]], dubbo version: 2.5.2, current host: 192.168.43.241

2017-08-31 16:51:46,488 INFO

[com.alibaba.dubbo.remoting.transport.AbstractClient] - [DUBBO] Start NettyClient DESKTOP-K6HCD2B/192.168.43.241 connect to the server /192.168.43.241:20880, dubbo version: 2.5.2, current host: 192.168.43.241

2017-08-31 16:51:46,607 INFO [com.alibaba.dubbo.config.AbstractConfig] - [DUBBO] Refer dubbo service com.unj.dubbotest.provider.DemoService from url zookeeper://127.0.0.1:2181/com.alibaba.dubbo.registry.RegistryService?anyhost=true&application=hehe_consumer&check=false&dubbo=2.5.2&interface=com.unj.dubbotest.provider.DemoService&methods=sayHello,getUsers&pid=12428&side=consumer×tamp=1504169505248, dubbo version: 2.5.2,


```
current host: 192.168.43.241
Hello tom
{name='jack',sex='m',age='20'}
{name='tom',sex='m',age='21'}
{name='rose',sex='w',age='19'}
```

4 资料参考信息

4.1 学习文档【dubbo-学习文档-20170831.zip】

01.DDubbo 开源.pptx
02DeveloperGuide-zh-Dubbo.pdf
03Dubbo 功能介绍.pdf
04dubbo 源码解析 2.0.pdf

4.2 编译部署资料

zookeeper 安装包: zookeeper-3.4.6.tar.gz
dubbo 源码: dubbo-master-2.5.4-SNAPSHOT.zip
dubbox 源码: dubbox-master-2.8.4.zip 源码
dubbo.xsd 文件: dubbo-opensesame-master-xsd-20170815.zip
服务提供和消费源码 demo: provider.rar
可部署 dubbo-admin 包: dubbo-admin-2.8.4.war
可部署 dubbo-monitor 包: dubbo-monitor.war [对应源码 handu-dubbo-monitor-master.zip]

4.3 网络参考资料，感谢分享

- 1、<http://blog.csdn.net/kefeng824/article/details/44055947>
- 2、<http://blog.csdn.net/rogerjava/article/details/54743455>
- 3、<http://blog.csdn.net/wilsonke/article/details/39896595>
- 4、<http://blog.csdn.net/zi544434558/article/details/53022776>
- 5、<http://www.2cto.com/kf/201604/496793.html>
- 6、<http://www.2cto.com/kf/201604/496793.html>

5 错误日志解决办法参考

5.1 使用 maven 库问题

日志信息：

[DEBUG] Using mirror nexus (<http://www.dssmr.com:8080/nexus/content/groups/public>) for central (<http://repo.maven.apache.org/maven2>).

[DEBUG] Using mirror nexus (<http://www.dssmr.com:8080/nexus/content/groups/public>) for central (<http://repo.maven.apache.org/maven2>).

[DEBUG] Using mirror nexus (<http://www.dssmr.com:8080/nexus/content/groups/public>) for central (<http://repo.maven.apache.org/maven2>).

[DEBUG] Dependency collection stats: {ConflictMarker.analyzeTime=0, ConflictMarker.markTime=0, ConflictMarker.nodeCount=101, ConflictIdSorter.graphTime=1, ConflictIdSorter.topsortTime=0, ConflictIdSorter.conflictIdCount=27, ConflictIdSorter.conflictIdCycleCount=0, ConflictResolver.totalTime=2, ConflictResolver.conflictItemCount=49, DefaultDependencyCollector.collectTime=93, DefaultDependencyCollector.transformTime=3}

[DEBUG] org.apache.maven.plugins:maven-compiler-plugin:jar:2.3.2:

[DEBUG] org.apache.maven:maven-plugin-api:jar:2.0.6:compile

[DEBUG] org.apache.maven:maven-artifact:jar:2.0.6:compile

[DEBUG] org.apache.maven:maven-core:jar:2.0.6:compile

....

[DEBUG] Configuring mojo org.apache.maven.plugins:maven-surefire-plugin:2.17:test from plugin realm ClassRealm[plugin>org.apache.maven.plugins:maven-surefire-plugin:2.17, parent: sun.misc.Launcher\$AppClassLoader@60f09995]

[WARNING] **Error injecting: org.apache.maven.plugin.surefire.SurefirePlugin**
java.lang.TypeNotPresentException: Type org.apache.maven.plugin.surefire.SurefirePlugin not present

at org.eclipse.sisu.space.URLClassSpace.loadClass(URLClassSpace.java:115)

at org.eclipse.sisu.space.NamedClass.load(NamedClass.java:46)

由于使用了多个仓库，且仓库中不存在对应的 jar 包。

<http://www.dssmr.com:8080/nexus/content/groups/public>

<http://repo.maven.apache.org/maven2>

后续修改直接访问阿里云仓库 <http://maven.aliyun.com/nexus/content/groups/public>

由于公司访问外网有代理，个人使用手机 wifi 热点连接外网编译，也可在配置文件中设置代理。

解决办法参考：1.2 章节。

5.2 Error injecting:

org.apache.maven.plugin.surefire.SurefirePlugin

错误日志信息同上

由于之前未使用个人手机 wifi 热点网络，且 maven 配置文件也未设置代理，只有手工下载 jar 包，并通过 `mvn install:install` 命令方式加入到本地 maven 仓库。

个人一般去百度上搜索: **org.apache.maven.plugin.surefire.SurefirePlugin jar groupId artifactId**



查到对应信息 maven 配置信息

```
<groupId>org.apache.maven.surefire</groupId>
```

```
<artifactId>surefire</artifactId>
```

```
<version>2.17</version>
```

通过信息拼接可去对应网站下载:

<http://mvnrepository.com/artifact/org.apache.maven.surefire/surefire/2.17>

org.apache.maven.plugins x Index of /groups/public x Central Repository: org x Maven Repository: org

mvnrepository.com/artifact/org.apache.maven.surefire/surefire/2.17

应用 百度一下 百度一下 hao123 网址导航 看新闻 最新游戏 百度 网址大全 白有诚的微博

Home » org.apache.maven.surefire » surefire » 2.17

Indexed Artifacts (7.70M)

Popular Categories

- Aspect Oriented
- Actor Frameworks
- Application Metrics
- Build Tools
- Bytecode Libraries
- Command Line Parsers
- Cache Implementations
- Cloud Computing
- Code Analyzers
- Collections
- Configuration Libraries
- Core Utilities
- Date and Time Utilities
- Dependency Injection
- Embedded SQL Databases

Note: There is a new version for this artifact

New Version 2.20

Apache Maven Surefire » 2.17

Surefire is a test framework project. This is the aggregator POM in Apache Maven Surefire project.

License	Apache 2.0
HomePage	http://maven.apache.org/surefire
Date	(Mar 12, 2014)
Repositories	Central Apache Releases Central Redhat GA
Used By	5 artifacts

Maven Gradle SBT Ivy Grape Leiningen Builder

```
<!-- https://mvnrepository.com/artifact/org.apache.maven.surefire/surefire -->
<dependency>
  <groupId>org.apache.maven.surefire</groupId>
  <artifactId>surefire</artifactId>
  <version>2.17</version>
  <type>pom</type>
</dependency>
```

☒ Include comment with link to declaration

下载完包后，通过配置命令行方式加入本地 maven 仓库

`mvn install:install-file`

`-Dfile=D:\eclipsejeelunaSR3\gitws\dubboxjar\maven-surefire-plugin-2.17.jar`

`-DgroupId=org.apache.maven.surefire -DartifactId=surefire -Dversion=2.17 -Dpackaging=jar`

在网页上查看对应依赖包:

mvnrepository.com/artifact/org.apache.maven.surefire/surefire/2.17

应用 百度一下 hao123 网址导航 看新闻 最新游戏 百度 网址大全 白有诚的俱

JDBC Pools
JPA Implementations
JSON Libraries
JVM Languages
Logging Frameworks
Logging Bridges
Mail Clients
Maven Plugins
Mocking
Object/Relational Mapping
PDF Libraries
Top Categories

Compile Dependencies (0)

Category/License	Group / Artifact	Version	Updates
------------------	------------------	---------	---------

Test Dependencies (1)

Category/License	Group / Artifact	Version	Updates
Testing EPL 1.0	junit » junit	3.8.1	4.12

Managed Dependencies (22)

Category/License	Group / Artifact	Version	Updates
Code Analyzer Apache 2.0	com.google.code.findbugs » jsr305	2.0.1	3.0.2
I/O Apache 2.0	commons-io » commons-io	2.2	2.5
Mocking BSD	jmock » jmock	1.0.1	2.8.3
Testing EPL 1.0	junit » junit	3.8.1	4.12
Core Utils Apache 2.0	org.apache.commons » commons-lang3	3.1	3.6
Build Tool Apache 2.0	org.apache.maven » maven-core	2.0.9	3.5.0

如缺少对应依赖包，点解对应依赖包，可快速定位到该依赖包对应版本信息，并下载对应依赖包，并加入本地仓库。

有时通过 `mvn install:install` 加入本地仓库的依赖包的 `pom` 比较小，例如

org > apache > maven > plugins > maven-surefire-plugin > 2.17					搜索"2.17"
名称	修改日期	类型	大小		
_remote.repositories	2017/8/16 15:53	REPOSITORIES ...	1 KB		
m2e-lastUpdated.properties	2017/8/31 14:47	PROPERTIES 文件	1 KB		
maven-surefire-plugin-2.17.jar	2017/8/16 15:50	JAR 压缩文件	34 KB		
maven-surefire-plugin-2.17.pom	2017/8/17 15:25	POM 文件	5 KB		
maven-surefire-plugin-2.17.pom.bak	2017/8/16 15:53	BAK 文件	1 KB		

通过命令行生成的只有 1k : `maven-surefire-plugin-2.17.pom.bak`

通过访问阿里云仓库或其他仓库发现有 5k 大小：

<http://maven.aliyun.com/nexus/content/groups/public/org/apache/maven/plugins/maven-surefire-plugin/2.17/>

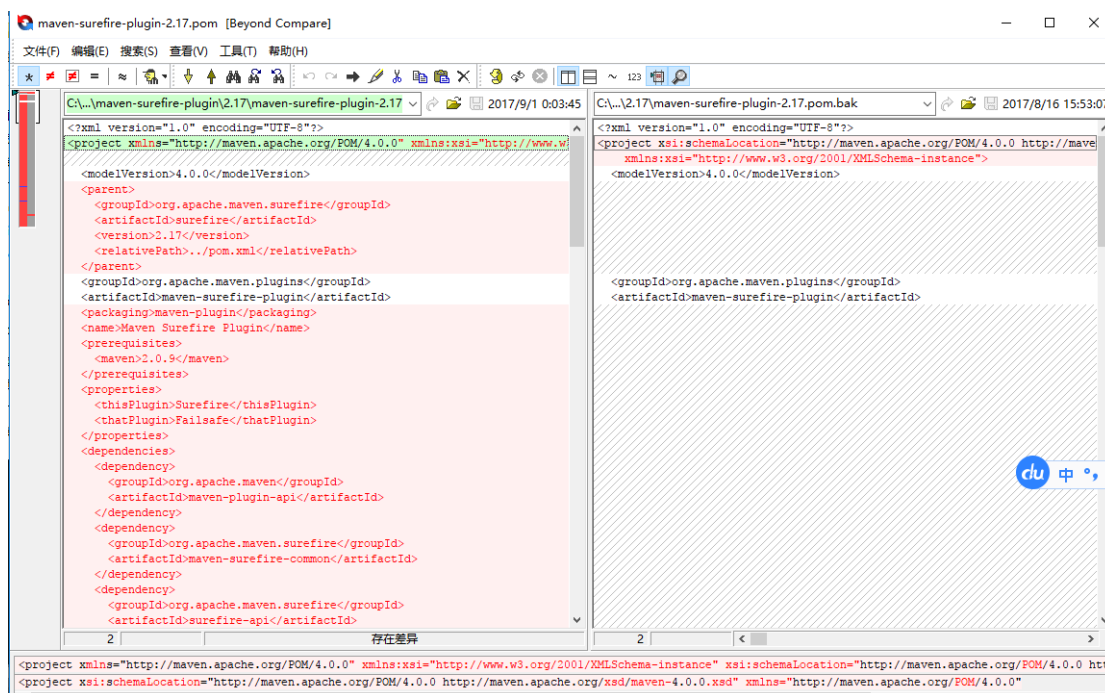
或其他仓库：

<http://central.maven.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.17/>

可下载下来，覆盖通过手工命令方式生成的 `pom` 文件。

Name	Last Modified	Size	Description
Parent Directory			
maven-surefire-plugin-2.17-javadoc.jar	Thu Mar 13 04:04:47 CST 2014	39221	
maven-surefire-plugin-2.17-javadoc.jar.md5	Thu Mar 13 04:04:47 CST 2014	32	
maven-surefire-plugin-2.17-javadoc.jar.sha1	Thu Mar 13 04:04:47 CST 2014	40	
maven-surefire-plugin-2.17-site-source.zip	Thu Mar 13 04:04:39 CST 2014	40528	
maven-surefire-plugin-2.17-site-source.zip.sha1	Thu Mar 13 04:04:39 CST 2014	40	
maven-surefire-plugin-2.17-sources.jar	Tue May 03 17:05:45 CST 2016	13918	
maven-surefire-plugin-2.17-sources.jar.md5	Tue May 03 17:05:45 CST 2016	32	
maven-surefire-plugin-2.17-sources.jar.sha1	Tue May 03 17:05:45 CST 2016	40	
maven-surefire-plugin-2.17.jar	Tue May 03 17:05:45 CST 2016	34231	
maven-surefire-plugin-2.17.jar.md5	Tue May 03 17:05:45 CST 2016	32	
maven-surefire-plugin-2.17.jar.sha1	Tue May 03 17:05:45 CST 2016	40	
maven-surefire-plugin-2.17.pom	Tue May 03 17:05:45 CST 2016	5001	
maven-surefire-plugin-2.17.pom.md5	Tue May 03 17:05:45 CST 2016	32	
maven-surefire-plugin-2.17.pom.sha1	Tue May 03 17:05:45 CST 2016	40	
maven-surefire-plugin-2.17.pom.properties	Fri Oct 28 09:28:32 CST 2016	135	

通过比较软件比较二者文件,发现丢失了 parent、prerequisites、dependencies、build、plugins、profiles 等节点信息。



备注：如正常配置阿里云仓库且网络正常，可不需要手工增加 jar 包到本地仓库，编译过程中，程序会自动从 maven 仓库中下载缺少的 maven 依赖 jar 包增加到本地仓库。但不排除确实缺失部分 jar 包，可按照此方式搜索并增加到本地仓库，在开发过程中确实搜索过，阿里云仓库上也缺少对应 jar 包，从其它地方下载并加入到本地仓库进行编译。

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