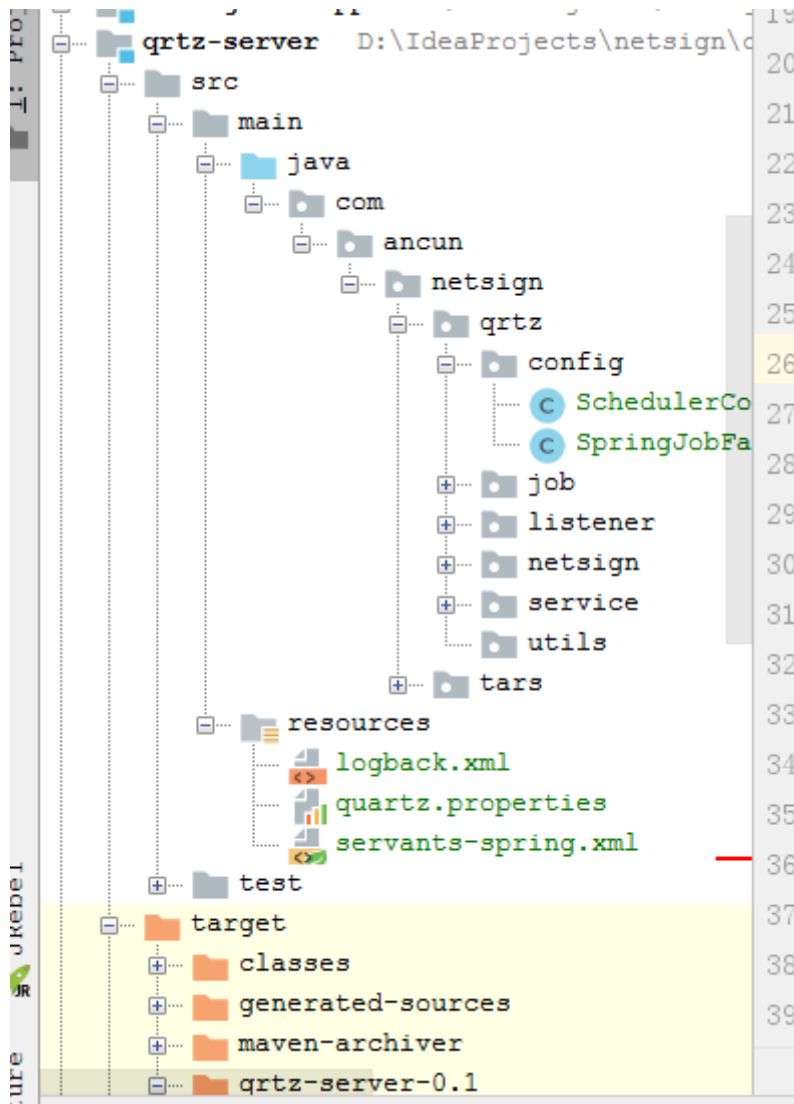


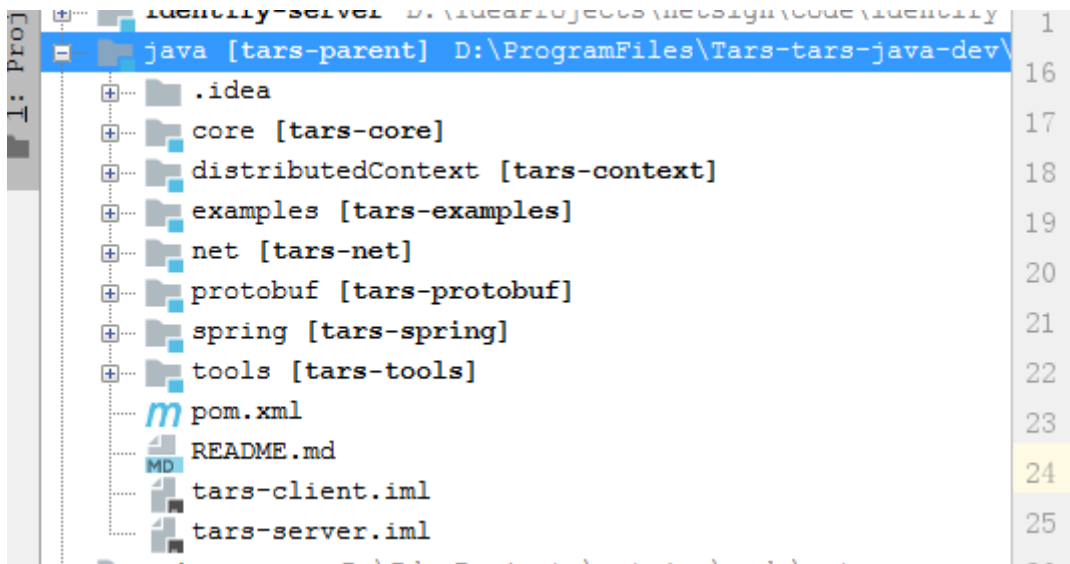
# tars 服务端的本地调试

## 一、准备工作

首先需要有一个tars服务项目，比如我的：

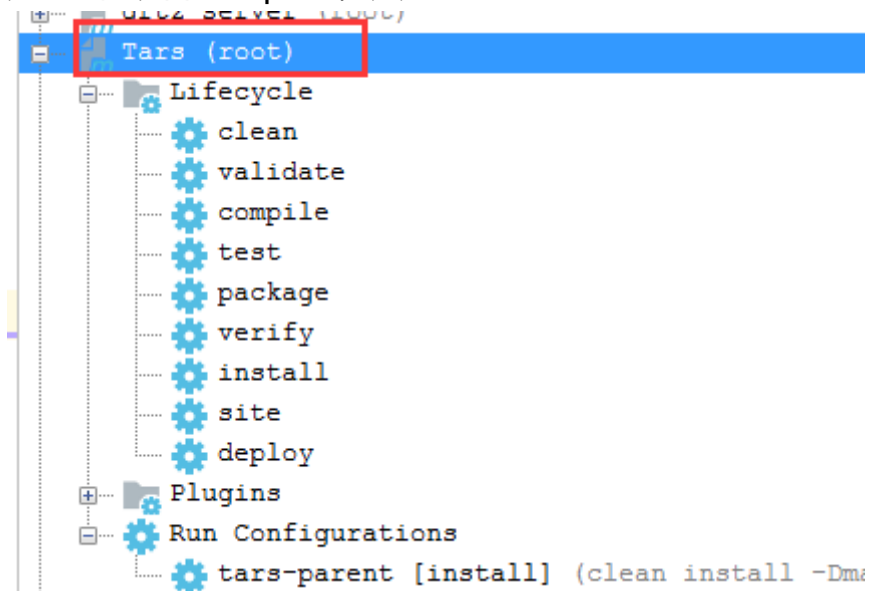


其次需要把tars源码装载到本地，比如我的是：

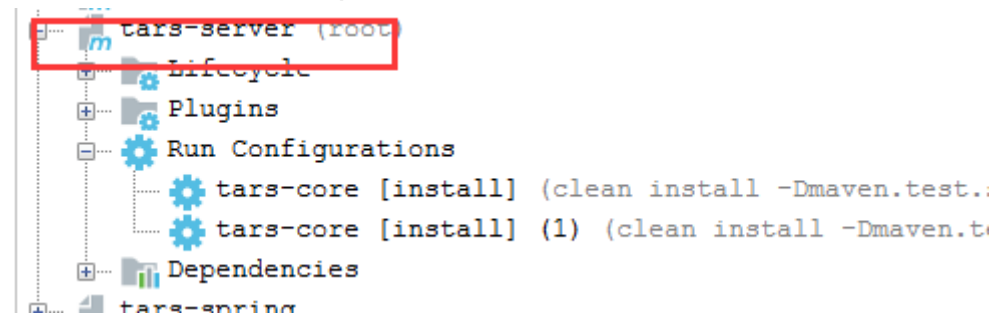


当在tars源码的处理是：

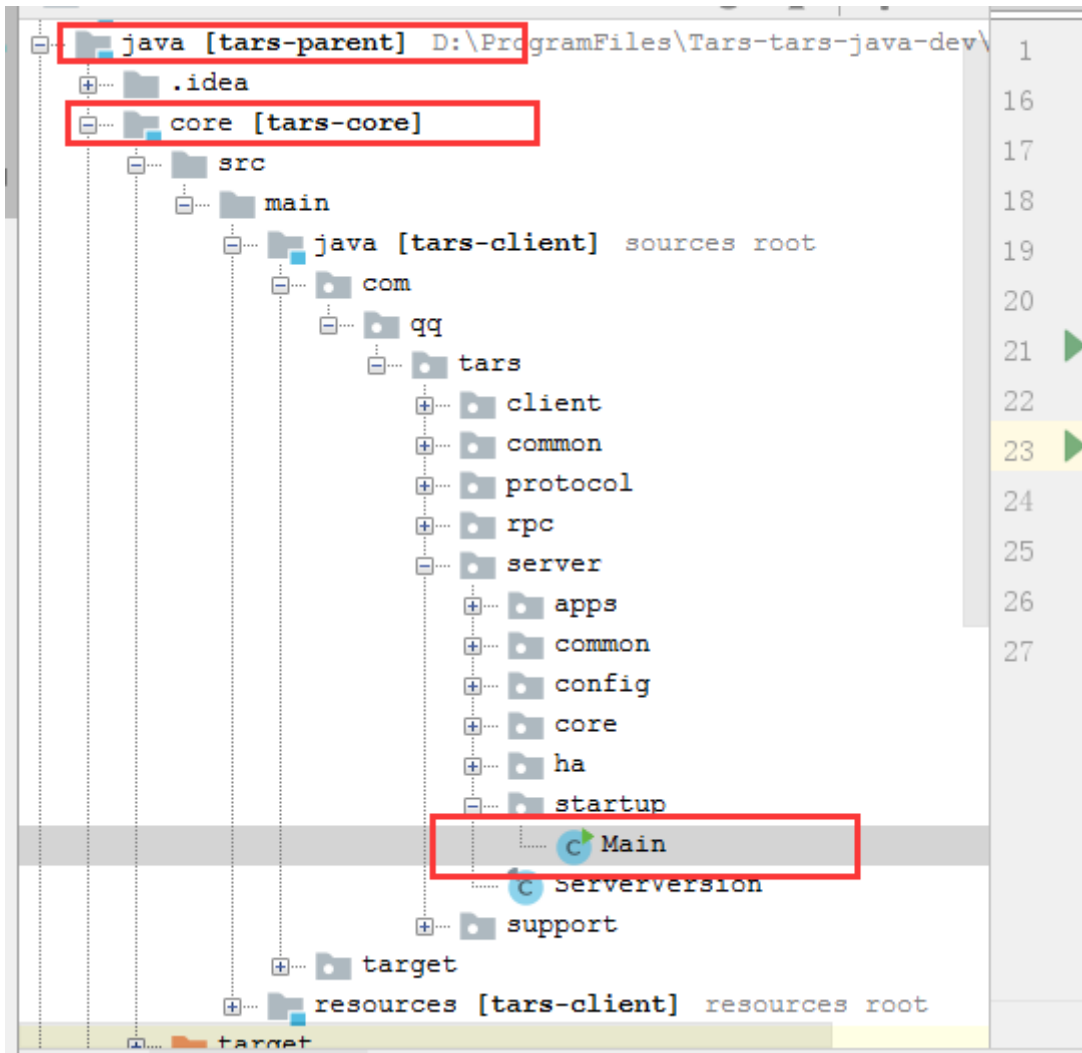
先tars根项目reimport，以及install。



再tars-server项目reimport，以及install：



其实在项目就是先大环境再里面的小的：



## 二、tars服务项目的处理

1、由于我用的是servant-spring处理，所以，项目的mvn tars:tars2java,就没有运行，当然你也可以运行一下。

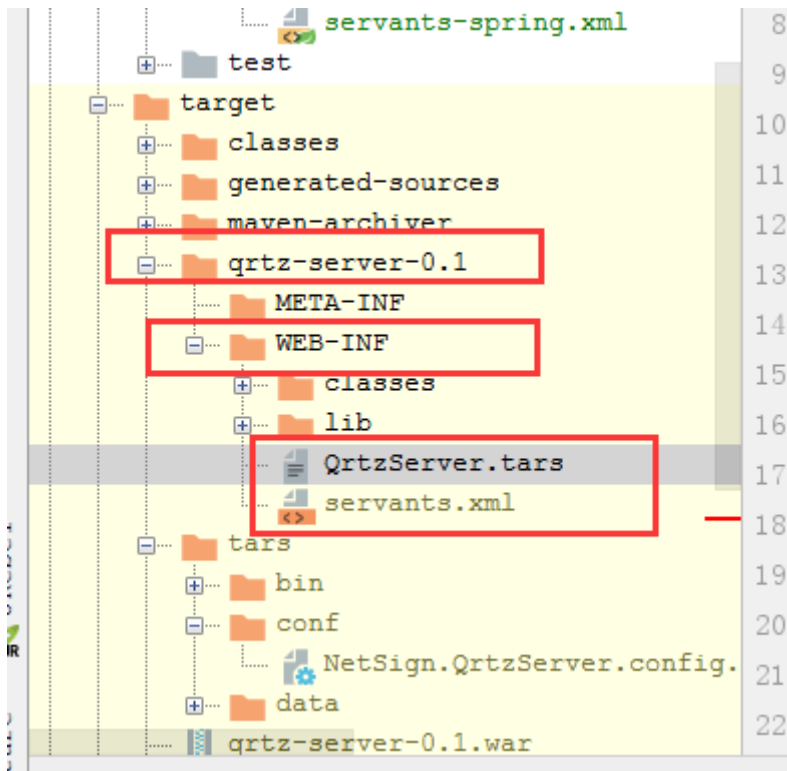
2、编译项目

3、获取tars服务代码

运行

```
mvn tars:build -Dapp=NetSign -Dserver=QuartzServer -DjvmParams="-Xms256m -Xmx256m -Dcom.sun.management.jmxremote.ssl=false -Dcom.sun.management.jmxremote.authenticate=false -Xdebug -Xrunjdwp:transport=dt_socket,address=9000,server=y,suspend=n" -DskipTests
```

当然运行前需要把两个文件放入WEB-INF目录下：



quartz-server-0.1是install项目得到的目录

QrtzServer.tars(我的好像可以忽略) , servants.xml是需要放进去的文件 :

QrtzServer.tars文件如下 :

```
1 module NetSign
2 {
3     interface QrtzServer
4     {
5
6         /**
7          * 添加任务
8          * @param quartzDto
9          * @param quartzStr
10         * @param msg
11         * @return
12         */
13         int addSchedule(String quartzDto, out string quartzStr, out string
msg);
14
15         /**
16         * 获取任务列表
17         * @param quartzDto
18         * @param quartzStr
19         * @param msg
20         * @return
```

```
21 */
22 int getScheduleList(String quartzDto, out string quartzStr, out string
msg);
23
24 /**
25 * 运行任务
26 * @param quartzDto
27 * @param quartzStr
28 * @param msg
29 * @return
30 */
31 int doSchedule(String quartzDto, out string quartzStr, out string msg);
32
33 /**
34 * 暂停任务
35 * @param quartzDto
36 * @param quartzStr
37 * @param msg
38 * @return
39 */
40 int pauseSchedule(String quartzDto, out string quartzStr, out string ms
g);
41
42 /**
43 * 从暂停中恢复任务运行
44 * @param quartzDto
45 * @param quartzStr
46 * @param msg
47 * @return
48 */
49 int recoverSchedule(String quartzDto, out string quartzStr, out string
msg);
50
51 /**
52 * 删除任务
53 * @param quartzDto
54 * @param quartzStr
55 * @param msg
56 * @return
57 */
58 int deleteSchedule(String quartzDto, out string quartzStr, out string m
sg);
```

```
59 };  
60 };
```

servant.xml文件如下：

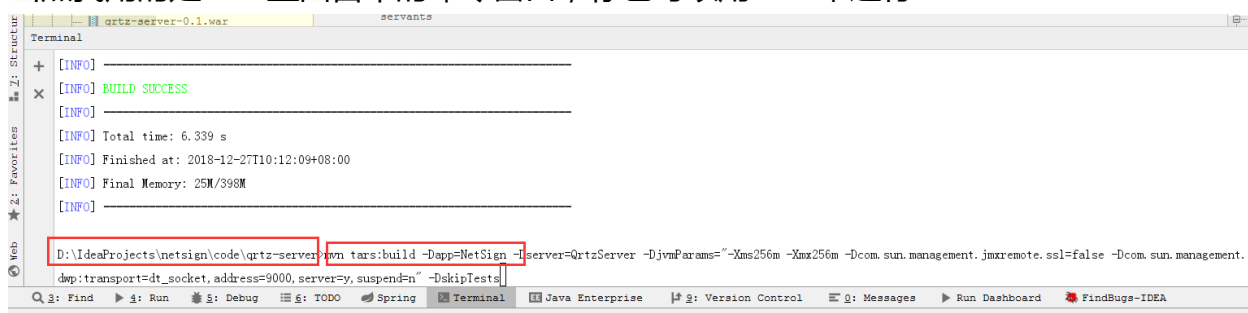
```
1 <?xml version="1.0" encoding="UTF-8"?>  
2 <servants>  
3   <servant name="QrtzServerObj">  
4     <home-api>com.ancun.netsign.qrtz.netsign.QrtzServerServant</home-api>  
5     <home-class>com.ancun.netsign.qrtz.netsign.impl.QrtzServerServantImpl</home-class>  
6   </servant>  
7   <listener>  
8     <listener-class>com.ancun.netsign.qrtz.listener.QrtzServerListener</listener-class>  
9   </listener>  
10 </servants>
```

到项目根目录下运行：

```
1 mvn tars:build -Dapp=NetSign -Dserver=QrtzServer -DjvmParams="-Xms256m -Xmx256m -Dcom.sun.management.jmxremote.ssl=false -Dcom.sun.management.jmxremote.authenticate=false -Xdebug -Xrunj  
2   dp:transport=dt_socket,address=9000,server=y,suspend=n" -DskipTests
```

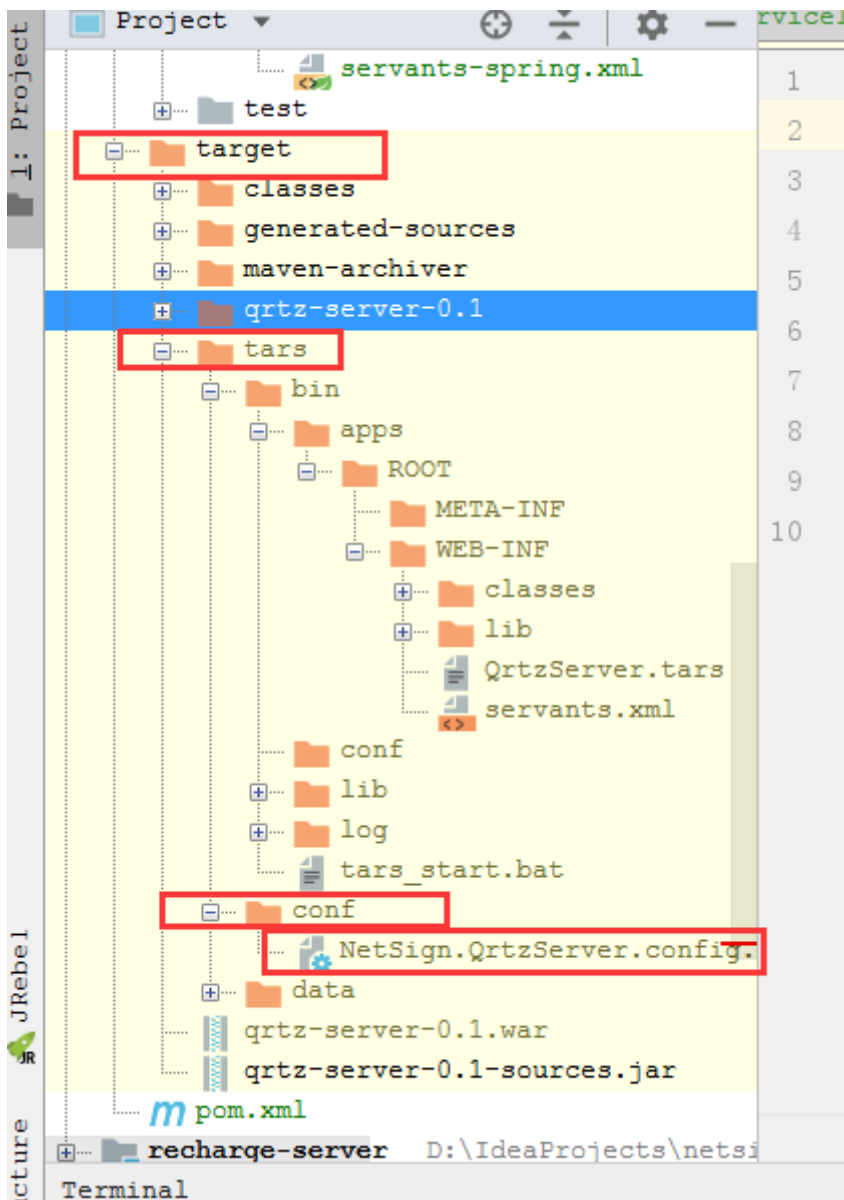
-Dapp=NetSign -Dserver=QrtzServer 就是QrtzServer.tars里面的module NetSign interface QrtzServer

当然我用的是idea里面自带的命令窗口，你也可以用cmd来运行：



#### 4、添加配置

需要修改conf下的NetSign.QrtzServer.config.conf文件



修改后的NetSign.QrtzServer.config.conf文件如下：标红的是需要注意修改的地方

```
1 <tars>
2 <application>
3 enableset=N
4 setdivision=NULL
5 <client>
6 locator=tars.tarsregistry.QueryObj@tcp -h 192.168.0.36 -p 17890
7 sync-invoke-timeout=20000
8 async-invoke-timeout=20000
9 refresh-endpoint-interval=60000
10 stat=tars.tarsstat.StatObj
11 property=tars.tarsproperty.PropertyObj
12 report-interval=60000
13 modulename=NetSign.QrtzServer
```

```
14 </client>
15 <server>
16 node=tars.tarsnode.ServerObj@tcp -h 192.168.0.36 -p 19386 -t 6
0000
17 app=NetSign
18 server=QrtzServer
19 localip=192.168.0.36
20 local=tcp -h 127.0.0.1 -p 18015 -t 3000
21 basepath=D:\IdeaProjects\netsign\code\qrtz-server\target\tars
\bin
22 datapath=D:\IdeaProjects\netsign\code\qrtz-server\target\tars
\data
23 logpath=D:\IdeaProjects\netsign\code\qrtz-server\target\tars\b
in\log
24 loglevel=DEBUG
25 logsize=15M
26 log=tars.tarslog.LogObj
27 config=tars.tarsconfig.ConfigObj
28 notify=tars.tarsnotify.NotifyObj
29 mainclass=com.qq.tars.server.startup.Main
30 jvmparams=-Xms256m -Xmx256m -
Dcom.sun.management.jmxremote.ssl=false -Dcom.sun.management.jmxre
mote.authenticate=false -Xdebug -Xrunjdw:transport=dt_socket,addr
ess=9000,server=y,suspend=n
31 sessiontimeout=120000
32 sessioncheckinterval=60000
33 tcpnodelay=true
34 udpbuffersize=8192
35 charsetname=UTF-8
36 <NetSign.QrtzServer.QetzServerObjAdapter>
37 allow
38 endpoint=tcp -h 192.168.0.36 -p 18015 -t 60000
39 handlegroup=NetSign.QrtzServer.QetzServerObjAdapter
40 maxconns=200000
41 protocol=tars
42 queuecap=10000
43 queuetimeout=60000
```



```

44  servant=NetSign.QrtzServer.QetzServerObj
45  shmcap=0
46  shmkey=0
47  threads=5
48  </NetSign.QrtzServer.QetzServerObjAdapter>
49  </server>
50  </application>
51  </tars>

```

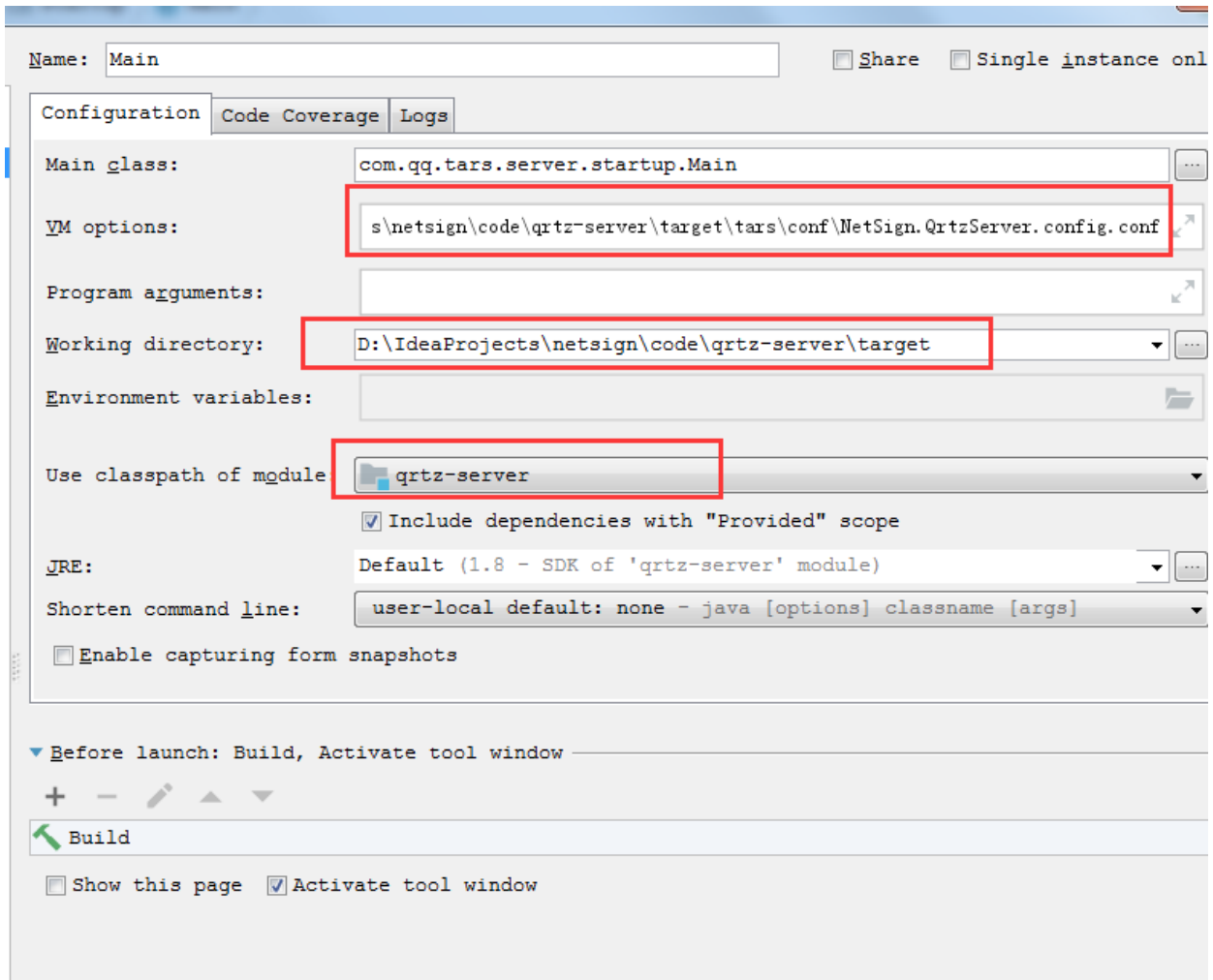
```

qtz-server > target > tars > conf > NetSign.QrtzServer.config.conf >
JobServiceImpl.java x quartz.properties x NetSign.QrtzServer.config.conf x QrtzServer.tar:
1  <tars>~
2  <application>~
3  enableset=N
4  setdivision=NULL
5  <client>~
6  locator=tars.tarsregistry.QueryObj@tcp -h 192.168.0.36 -p 17890
7  sync-invoke-timeout=20000
8  async-invoke-timeout=20000
9  refresh-endpoint-interval=60000
10 stat=tars.tarsstat.StatObj
11 property=tars.tarsproperty.PropertyObj
12 report-interval=60000
13 modulename=NetSign.QrtzServer
14 </client>~
15 <server>~
16 node=tars.tarsnode.ServerObj@tcp -h 192.168.0.36 -p 19386 -t 60000
17 app=NetSign
18 server=QrtzServer
19 localip=192.168.0.36
20 local=tcp -h 127.0.0.1 -p 18015 -t 3000
21 basepath=D:\IdeaProjects\netsign\code\qrtz-server\target\tars\bin
22 datapath=D:\IdeaProjects\netsign\code\qrtz-server\target\tars\data
23 logpath=D:\IdeaProjects\netsign\code\qrtz-server\target\tars\bin\log
24 loglevel=DEBUG
25 logsize=15M
26 log=tars.tarslog.LogObj
27 config=tars.tarsconfig.ConfigObj
28 notify=tars.tarsnotify.NotifyObj
29 mainclass=com.qq.tars.server.startup.Main
30 jvmparams=-Xms256m -Xmx256m -Dcom.sun.management.jmxremote.ssl=false -Dcom.sun.management
31 sessiontimeout=120000
32 sessioncheckinterval=60000
33 tcpnodelay=true
34 udpbuffersize=8192

```

```
tcpnodelay=true
udpbufferize=8192
charsetname=UTF-8
<NetSign.QrtzServer.QetzServerObjAdapter>~
allow~
endpoint=tcp -h 192.168.0.36 -p 18015 -t 60000
handlegroup=NetSign.QrtzServer.QetzServerObjAdapter
maxconns=200000
protocol=tars
queuecap=10000
queuetimeout=60000
servant=NetSign.QrtzServer.QetzServerObj
shmcap=0
shmkey=0
threads=5
</NetSign.QrtzServer.QetzServerObjAdapter>~
</server>~
</application>~
</tars>~
```

### 三、运行Main进行调试



通过idea Application启动

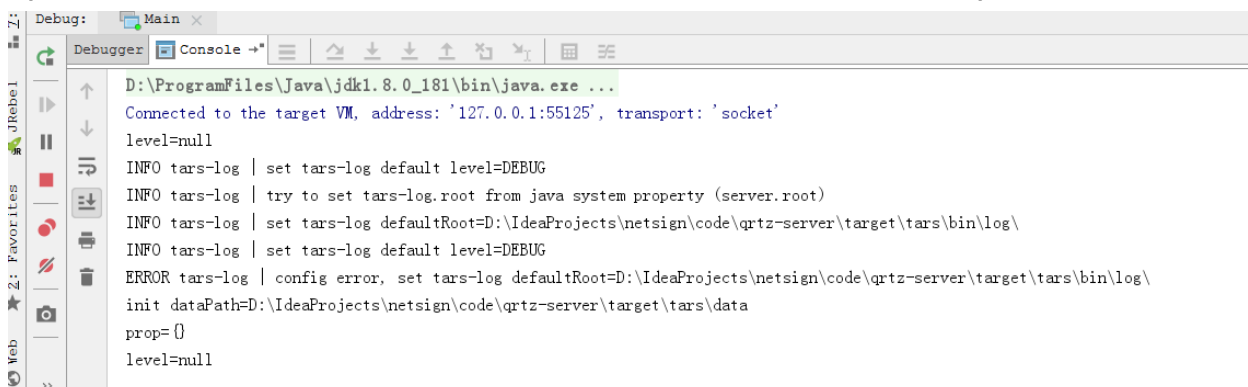
Main class: com.qq.tars.server.startup.Main

Vm options; -Xms256m -Xmx256m -Dcom.sun.management.jmxremote.ssl=false -  
 Dcom.sun.management.jmxremote.authenticate=false -  
 Dconfig=D:\IdeaProjects\netsign\code\qrtz-  
 server\target\tars\conf\NetSign.QrtzServer.config.conf

Working directory: D:\IdeaProjects\netsign\code\qrtz-server\target

Use classpath of module: qrtz-server

( 不知道是什么原因，虽然我启动成功了但是还是连接不上 )



```
e Edit Selection Find View Goto Tools Project Preferences Help
tables_mysql_innodb.sql x tables_mysql.sql x stderr.log.2018-12-27 x stdout.log.2018-12-27 x tars_client.log.2018-12-27 x tars_om_client.log.2018-12-27 x
407 Caused by: com.qq.tars.rpc.exc.NotConnectedException: connect failed to 192.168.0.36:19386
408   at com.qq.tars.client.rpc.ServantClient.reConnect(ServantClient.java:115)
409   at com.qq.tars.client.rpc.ServantClient.ensureConnected(ServantClient.java:124)
410   at com.qq.tars.client.rpc.ServantClient.invokeWithAsync(ServantClient.java:164)
411   ... 17 more
412 2018-12-27 10:39:28.903 ERROR NodeHelper|keepAlive|error
413 com.qq.tars.rpc.exc.ClientException: tars.tarsnode.ServerObj|error occurred on invoker with async
414   at com.qq.tars.client.ObjectProxy.invoke(ObjectProxy.java:103)
415   at com.sun.proxy.$Proxy7.async_keepAlive(Unknown Source)
416   at com.qq.tars.support.node.NodeHelper.keepAlive(NodeHelper.java:57)
417   at com.qq.tars.support.om.ScheduledServiceMgr$NodeHandleThread.run(ScheduledServiceMgr.java:72)
418   at java.lang.Thread.run(Thread.java:748)
419   at java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:511)
420   at java.util.concurrent.FutureTask.runAndReset$$$capture(FutureTask.java:308)
421   at java.util.concurrent.FutureTask.runAndReset(FutureTask.java)
422   at java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.access$301(ScheduledThreadPoolExecutor.java:180)
423   at java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:294)
424   at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
425   at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
426   at java.lang.Thread.run(Thread.java:748)
427 Caused by: java.io.IOException: error occurred on invoker with async
428   at com.qq.tars.client.rpc.tars.TarsInvoker.invokeWithAsync(TarsInvoker.java:157)
429   at com.qq.tars.client.rpc.tars.TarsInvoker.doInvokeServant(TarsInvoker.java:60)
430   at com.qq.tars.client.rpc.ServantInvoker.doInvoke(ServantInvoker.java:44)
431   at com.qq.tars.rpc.common.support.AbstractInvoker.invoke(AbstractInvoker.java:75)
432   at com.qq.tars.client.ObjectProxy.invoke(ObjectProxy.java:95)
433   ... 12 more
434 Caused by: com.qq.tars.rpc.exc.NotConnectedException: connect failed to 192.168.0.36:19386
435   at com.qq.tars.client.rpc.ServantClient.reConnect(ServantClient.java:115)
436   at com.qq.tars.client.rpc.ServantClient.ensureConnected(ServantClient.java:124)
437   at com.qq.tars.client.rpc.ServantClient.invokeWithAsync(ServantClient.java:164)
438   ... 17 more
439
440
```

```
D:\IdeaProjects\netsign\code\qrtz-server\target\tars\bin\log\tars_client.log.2018-12-27 - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
tables_mysql_innodb.sql x tables_mysql.sql x stderr.log.2018-12-27 x stdout.log.2018-12-27 x tars_client.log.2018-12-27 x tars_om_client.log.2018-12-27 x
8098   at com.qq.tars.client.ObjectProxyFactory.getObjectProxy(ObjectProxyFactory.java:53)
8099   at com.qq.tars.client.ServantProxyFactory.getServantProxy(ServantProxyFactory.java:46)
8100   at com.qq.tars.client.Communicator.stringToProxy(Communicator.java:73)
8101   at com.qq.tars.client.Communicator.stringToProxy(Communicator.java:56)
8102   at com.qq.tars.support.stat.StatHelper.getPrx(StatHelper.java:44)
8103   at com.qq.tars.support.stat.StatHelper.report(StatHelper.java:50)
8104   at com.qq.tars.client.ObjectProxy$ServantStatRepeater.run(ObjectProxy.java:192)
8105   at java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:511)
8106   at java.util.concurrent.FutureTask.runAndReset$$$capture(FutureTask.java:308)
8107   at java.util.concurrent.FutureTask.runAndReset(FutureTask.java)
8108   at java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.access$301(ScheduledThreadPoolExecutor.java:180)
8109   at java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:294)
8110   at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
8111   at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
8112   at java.lang.Thread.run(Thread.java:748)
8113 2018-12-27 10:39:44.875 ERROR report stat worker error|tars.tarsnode.ServerObj
8114 com.qq.tars.rpc.exc.NoConnectionException: tars.tarsregistry.QueryObj|tars.tarsregistry.QueryObj try to select active invoker, size=1, no such active connection invoker
8115   at com.qq.tars.client.ObjectProxy.invoke(ObjectProxy.java:101)
8116   at com.sun.proxy.$Proxy38.findObjectByIdInSameGroup(Unknown Source)
8117   at com.qq.tars.support.query.QueryHelper.getServerNodes(QueryHelper.java:57)
8118   at com.qq.tars.client.ObjectProxyFactory.updateServantEndpoints(ObjectProxyFactory.java:123)
8119   at com.qq.tars.client.ObjectProxyFactory.getObjectProxy(ObjectProxyFactory.java:53)
8120   at com.qq.tars.client.ServantProxyFactory.getServantProxy(ServantProxyFactory.java:46)
8121   at com.qq.tars.client.Communicator.stringToProxy(Communicator.java:73)
8122   at com.qq.tars.client.Communicator.stringToProxy(Communicator.java:56)
8123   at com.qq.tars.support.stat.StatHelper.getPrx(StatHelper.java:44)
8124   at com.qq.tars.support.stat.StatHelper.report(StatHelper.java:50)
8125   at com.qq.tars.client.ObjectProxy$ServantStatRepeater.run(ObjectProxy.java:192)
8126   at java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:511)
8127   at java.util.concurrent.FutureTask.runAndReset$$$capture(FutureTask.java:308)
8128   at java.util.concurrent.FutureTask.runAndReset(FutureTask.java)
8129   at java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.access$301(ScheduledThreadPoolExecutor.java:180)
8130   at java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:294)
8131   at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
8132   at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
8133   at java.lang.Thread.run(Thread.java:748)
8134 Caused by: com.qq.tars.rpc.common.exc.NoInvokerException: tars.tarsregistry.QueryObj try to select active invoker, size=1, no such active connection invoker
8135   at com.qq.tars.client.rpc.loadbalance.RoundRobinLoadBalance.select(RoundRobinLoadBalance.java:93)
8136   at com.qq.tars.client.rpc.loadbalance.DefaultLoadBalance.select(DefaultLoadBalance.java:78)
8137   at com.qq.tars.client.ObjectProxy.invoke(ObjectProxy.java:94)
8138   ... 18 more
8139 2018-12-27 10:39:44.875 INFO ServantStatRepeater run(), use: 0
8140
```

```
File Edit Selection Find View Goto Tools Project Preferences Help
tables_mysql_innodb.sql x tables_mysql.sql x stderr.log.2018-12-27 x stdout.log.2018-12-27 x tars_client.log.2018-12-27 x tars_om_client.log.2018-12-27 x
1152 2018-12-27 10:39:38.909 INFO java.net.ConnectException: Connection refused: no further information
1153 2018-12-27 10:39:38.909 INFO at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
1154 2018-12-27 10:39:38.909 INFO at sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:717)
1155 2018-12-27 10:39:38.909 INFO at com.qq.tars.net.core.nio.TCPAcceptor.handleConnectEvent(TCPAcceptor.java:44)
1156 2018-12-27 10:39:38.909 INFO at com.qq.tars.net.core.nio.Reactor.dispatchEvent(Reactor.java:173)
1157 2018-12-27 10:39:38.909 INFO at com.qq.tars.net.core.nio.Reactor.run(Reactor.java:104)
1158 2018-12-27 10:39:48.904 INFO java.net.ConnectException: Connection refused: no further information
1159 2018-12-27 10:39:48.904 INFO at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
1160 2018-12-27 10:39:48.904 INFO at sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:717)
1161 2018-12-27 10:39:48.904 INFO at com.qq.tars.net.core.nio.TCPAcceptor.handleConnectEvent(TCPAcceptor.java:44)
1162 2018-12-27 10:39:48.904 INFO at com.qq.tars.net.core.nio.Reactor.dispatchEvent(Reactor.java:173)
1163 2018-12-27 10:39:48.904 INFO at com.qq.tars.net.core.nio.Reactor.run(Reactor.java:104)
1164 2018-12-27 10:39:58.908 INFO java.net.ConnectException: Connection refused: no further information
1165 2018-12-27 10:39:58.908 INFO at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
1166 2018-12-27 10:39:58.908 INFO at sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:717)
1167 2018-12-27 10:39:58.908 INFO at com.qq.tars.net.core.nio.TCPAcceptor.handleConnectEvent(TCPAcceptor.java:44)
1168 2018-12-27 10:39:58.908 INFO at com.qq.tars.net.core.nio.Reactor.dispatchEvent(Reactor.java:173)
1169 2018-12-27 10:39:58.908 INFO at com.qq.tars.net.core.nio.Reactor.run(Reactor.java:104)
1170 2018-12-27 10:40:08.906 INFO java.net.ConnectException: Connection refused: no further information
1171 2018-12-27 10:40:08.906 INFO at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
1172 2018-12-27 10:40:08.906 INFO at sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:717)
1173 2018-12-27 10:40:08.906 INFO at com.qq.tars.net.core.nio.TCPAcceptor.handleConnectEvent(TCPAcceptor.java:44)
1174 2018-12-27 10:40:08.906 INFO at com.qq.tars.net.core.nio.Reactor.dispatchEvent(Reactor.java:173)
1175 2018-12-27 10:40:08.906 INFO at com.qq.tars.net.core.nio.Reactor.run(Reactor.java:104)
1176 2018-12-27 10:40:18.904 INFO java.net.ConnectException: Connection refused: no further information
1177 2018-12-27 10:40:18.904 INFO at sun.nio.ch.SocketChannelImpl.checkConnect(Native Method)
1178 2018-12-27 10:40:18.904 INFO at sun.nio.ch.SocketChannelImpl.finishConnect(SocketChannelImpl.java:717)
1179 2018-12-27 10:40:18.904 INFO at com.qq.tars.net.core.nio.TCPAcceptor.handleConnectEvent(TCPAcceptor.java:44)
1180 2018-12-27 10:40:18.904 INFO at com.qq.tars.net.core.nio.Reactor.dispatchEvent(Reactor.java:173)
1181 2018-12-27 10:40:18.904 INFO at com.qq.tars.net.core.nio.Reactor.run(Reactor.java:104)
1182
```

接下来，继续处理这个问题：应该是数据源获取不到的原因吧

## 附加：

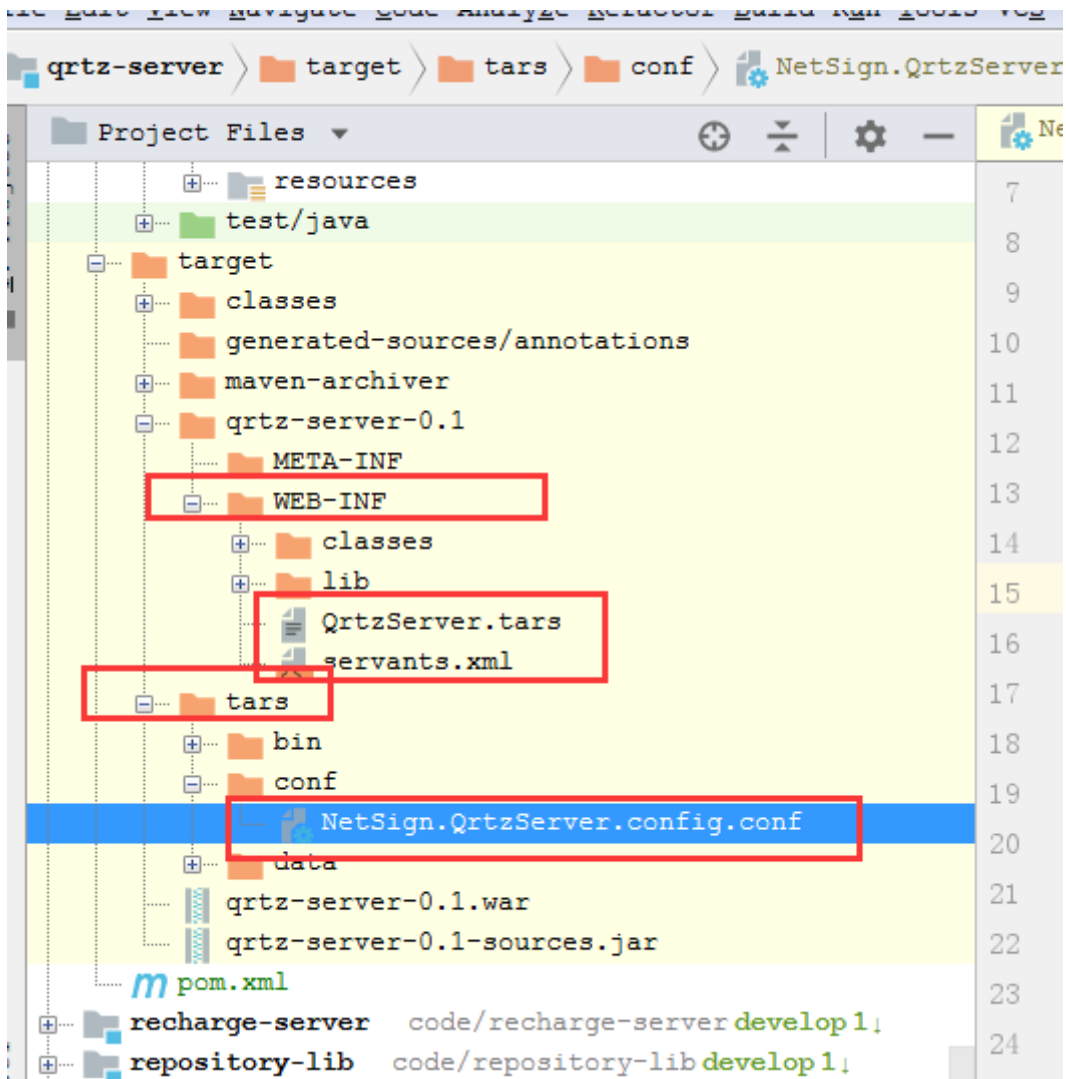
1、由于我设置的tars服务平台地址有问题，所以启动的时候一直报连接不上的问题，只要重新修改tarsconf的配置就好了，重新配置代码如下：

```
1 <application>
2 <qz>
3 refreshJobTime=5
4 </qz>
5 <db>
6 driverClass = com.mysql.jdbc.Driver
7 jdbcUrl = jdbc:mysql://192.168.0.93:3306/ancun_netsign_new?useUnicode=true&characterEncoding=UTF-8&autoReconnect=true&failOverReadOnly=false&useSSL=false
8 user = root
9 password = 123456
10 maxPoolSize = 100
11 minIdle = 3
12 maxLifetime = 60000
13 connectivityCheckTimeoutMs = 1000
```

```
14  expected99thPercentileMs = 10
15  </db>
16  </application>
17  <tars>
18  <application>
19  enableset = N
20  setdivision = NULL
21  <client>
22  locator = tars.tarsregistry.QueryObj@tcp -h 192.168.0.239 -p 1
    7890
23  sync-invoke-timeout = 20000
24  async-invoke-timeout = 20000
25  refresh-endpoint-interval = 60000
26  stat = tars.tarsstat.StatObj
27  property = tars.tarsproperty.PropertyObj
28  report-interval = 60000
29  modulename = NetSign.QrtzServer
30  </client>
31  <server>
32  node = tars.tarsnode.ServerObj@tcp -h 192.168.0.239 -p 19386 -
    t 60000
33  app = NetSign
34  server = QrtzServer
35  localip = 192.168.0.36
36  local = tcp -h 127.0.0.1 -p 18015 -t 3000
37  basepath = D:\IdeaProjects\netsign\code\qrtz-server\target\tar
    s\bin
38  datapath = D:\IdeaProjects\netsign\code\qrtz-server\target\tar
    s\data
39  logpath = D:\qrtz-server\\log
40  loglevel = DEBUG
41  logsize = 15M
42  log = tars.tarslog.LogObj
43  config = tars.tarsconfig.ConfigObj
44  notify = tars.tarsnotify.NotifyObj
45  mainclass = com.qq.tars.server.startup.Main
```

```
46  jvmparams = -Xms256m -Xmx256m -Dcom.sun.management.jmxremote.s
sl=false -Dcom.sun.management.jmxremote.authenticate=false -Xdebug
-Xrunjdwp:transport=dt_socket, address = 9000, server = y, suspend
= n
47  sessiontimeout = 120000
48  sessioncheckinterval = 60000
49  tcpnodelay = true
50  udpbuffersize = 8192
51  charsetname = UTF-8
52  <NetSign.QrtzServer.QrtzServerObjAdapter>
53  allow
54  endpoint = tcp -h 192.168.0.36 -p 18015 -t 60000
55  handlegroup = NetSign.QrtzServer.QrtzServerObjAdapter
56  maxconns = 200000
57  protocol = tars
58  queuecap = 10000
59  queuetimeout = 60000
60  servant = NetSign.QrtzServer.QrtzServerObj
61  shmcap = 0
62  shmkey = 0
63  threads = 5
64  </NetSign.QrtzServer.QrtzServerObjAdapter>
65  </server>
66  </application>
67  </tars>
```

2、在运行的时候添加上配置文件，一定要添加到编译后的地方  
如图：

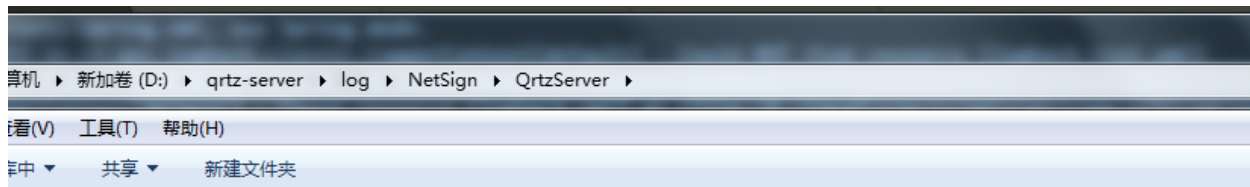


3、由于未知原因导致自动注入不了bean（需要继续研究），所以我这边直接使用springUtils来获取容器里面的bean了。

```
public JobService getJobService() {  
    if(null == jobService) {  
        return SpringUtils.getBean(JobService.class);  
    }  
    return jobService;  
}
```

4、最后提供一个启动成功的日志，给大家看看





名称	修改日期	类型	大小
tars_dyeing	2019\1\2 星期三 ...	文件夹	
log-main.log	2019\1\2 星期三 ...	文本文档	2,869 KB
stderr.log.2019-01-02	2019\1\2 星期三 ...	2019-01-02 文件	3 KB
stdout.log.2019-01-02	2019\1\2 星期三 ...	2019-01-02 文件	2,878 KB
tars_client.log.2019-01-02	2019\1\2 星期三 ...	2019-01-02 文件	2 KB

```
1 2019-01-02 16:27:29.876 INFO try to init invoker[conf=ServletProxyConfig{communicatorId=adc1178e0638cd99e96e385854b51, locator=tars.tarsregistry.QueryObj@tcp-h.192.168.0.239-p.17890, stat=tars.tarsstat.StatObj, objectName=tars.tarsnode.ServerObj@tcp-h.192.168.0.239-p.19386-t.60000, simpleObjectName=tars.tarsnode.ServerObj, moduleName=NetSign.QrtzServer, connections=4, connectTimeout=3000, syncTimeout=20000, asyncTimeout=20000, enableSet=false, setDivision=null, refreshInterval=60000, reportInterval=60000, checkInterval=60000, tryInterval=30, minTimeoutInvoke=20, frequencyFailInvoke=50, frequencyFailRadio=0.5, tcpNoDelay=false, charsetName=UTF-8, directConnection=true}
2 2019-01-02 16:27:29.876 INFO try to Init Invoker[active=true][tars://192.168.0.239:19386/Tars.tarsnode.ServerObj]
3 2019-01-02 16:27:30.442 INFO tars.tarsnode.ServerObj try to refresh RoundRobinLoadBalance's invoker cache, size=1
4 2019-01-02 16:27:30.44 INFO tars.tarsnode.ServerObj refresh RoundRobinLoadBalance's invoker cache done, staticWeightInvokersCache size=0, sortedInvokersCache size=1
```

```
1 2019-01-02 16:27:30.190 INFO 一月 02, 2019 4:27:30 下午 org.springframework.context.support.ClassPathXmlApplicationContext.prepareRefresh
2 信息: Refreshing org.springframework.context.support.ClassPathXmlApplicationContext@3c419631: startup date [Wed Jan 02 16:27:30 CST 2019]; root of context hierarchy
3
4 2019-01-02 16:27:30.250 INFO 一月 02, 2019 4:27:30 下午 org.springframework.beans.factory.xml.XmlBeanDefinitionReader.loadBeanDefinitions
5 信息: Loading XML bean definitions from class path resource [servants-spring.xml]
```

```
7 2019-01-02 16:27:32.663 INFO Med Jan 02 16:27:32 CST 2019 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
8 2019-01-02 16:27:33.236 INFO Med Jan 02 16:27:33 CST 2019 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
9 2019-01-02 16:27:33.277 INFO Med Jan 02 16:27:33 CST 2019 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be established by default if explicit option isn't set. For compliance with existing applications not using SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
10
11
12
13
14
15 2019-01-02 16:27:32.457[main] INFO org.quartz.impl.StdSchedulerFactory Quartz scheduler 'AncunScheduler' initialized from default resource file in Quartz package: 'quartz.properties'
16 2019-01-02 16:27:32.458[main] INFO org.quartz.core.QuartzScheduler Scheduler AncunScheduler_v-NON_CLUSTERED started.
17 2019-01-02 16:27:32.458[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 任务列表: [QuartzBeanVO{jobName='ancunJob', jobGroup='ancunJobGroup', description='null', jobClassName='com.ancun.netsign.qrtz.job.AncunJob', cronExpression='0/5 * * * *?', triggerName='ancunTrigger', triggerState='ACQUIRED', oldJobName='ancunJob', oldJobGroup='ancunJobGroup'}]
18 2019-01-02 16:27:32.458[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 添加任务: [QuartzBeanVO{jobName='ancunJob', jobGroup='ancunJobGroup', description='null', jobClassName='com.ancun.netsign.qrtz.job.AncunJob', cronExpression='0/5 * * * *?', triggerName='ancunTrigger', triggerState='ACQUIRED', oldJobName='ancunJob', oldJobGroup='ancunJobGroup'}]
19 2019-01-02 16:27:32.458[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 定期任务 开始启动.....
20 2019-01-02 16:27:32.460[main] INFO com.ancun.netsign.qrtz.service.impl.JobServiceImpl 每隔5秒,重新运行任务1
21 2019-01-02 16:27:32.460[main] INFO com.ancun.netsign.qrtz.service.impl.JobServiceImpl 每隔5秒,重新运行任务1
22 2019-01-02 16:27:32.534[main] WARN com.zaxxer.hikari.HikariConfig HikariPool-1 - idleTimeout is close to or more than maxLifetime, disabling it.
23 2019-01-02 16:27:32.534[main] INFO com.zaxxer.hikari.HikariDataSource HikariPool-1 - Starting...
24 2019-01-02 16:27:33.132[main] INFO com.zaxxer.hikari.HikariDataSource HikariPool-1 - Start completed.
25 2019-01-02 16:27:33.160[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 任务列表: [QuartzBeanVO{jobName='ancunJob', jobGroup='ancunJobGroup', description='null', jobClassName='com.ancun.netsign.qrtz.job.UpdateContractStatusJob', cronExpression='0/2 * * * *?', triggerName='contractTrigger', triggerState='ACQUIRED', oldJobName='UpdateContractStatusJob', oldJobGroup='contract'}]
26 2019-01-02 16:27:33.161[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 添加任务: [QuartzBeanVO{jobName='ancunJob', jobGroup='ancunJobGroup', description='null', jobClassName='com.ancun.netsign.qrtz.job.AncunJob', cronExpression='0/5 * * * *?', triggerName='ancunTrigger', triggerState='ACQUIRED', oldJobName='ancunJob', oldJobGroup='ancunJobGroup'}]
27 2019-01-02 16:27:33.161[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 添加任务: [QuartzBeanVO{jobName='UpdateContractStatusJob', jobGroup='contract', description='null', jobClassName='com.ancun.netsign.qrtz.job.UpdateContractStatusJob', cronExpression='0/2 * * * *?', triggerName='contractTrigger', triggerState='ACQUIRED', oldJobName='UpdateContractStatusJob', oldJobGroup='contract'}]
28 2019-01-02 16:27:33.171[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 添加任务: [QuartzBeanVO{jobName='UpdateContractStatusJob', jobGroup='contract', description='null', jobClassName='com.ancun.netsign.qrtz.job.UpdateContractStatusJob', cronExpression='0/2 * * * *?', triggerName='contractTrigger', triggerState='ACQUIRED', oldJobName='UpdateContractStatusJob', oldJobGroup='contract'}]
29 2019-01-02 16:27:33.171[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 添加任务: [QuartzBeanVO{jobName='UpdateContractStatusJob', jobGroup='contract', description='null', jobClassName='com.ancun.netsign.qrtz.job.UpdateContractStatusJob', cronExpression='0/2 * * * *?', triggerName='contractTrigger', triggerState='ACQUIRED', oldJobName='UpdateContractStatusJob', oldJobGroup='contract'}]
30 2019-01-02 16:27:33.172[main] INFO com.ancun.netsign.qrtz.listener.QrtzServerListener 定期任务 开始启动结束.....
31 2019-01-02 16:27:34.004[AncunScheduler_Worker-1] INFO com.ancun.netsign.qrtz.job.UpdateContractStatusJob [2019-01-02]: 开始执行任务
32 2019-01-02 16:27:34.023[AncunScheduler_Worker-1] INFO com.ancun.netsign.qrtz.service.impl.ContractServiceImpl 获取接入者[ancun]已失效但状态还没有改掉的合同信息
33 2019-01-02 16:27:34.030[AncunScheduler_Worker-1] INFO com.ancun.netsign.qrtz.job.UpdateContractStatusJob 处理接入者[ancun]下的合同信息[1]
34 2019-01-02 16:27:34.030[AncunScheduler_Worker-1] INFO com.ancun.netsign.qrtz.service.impl.ContractServiceImpl 获取接入者[yjngm]已失效但状态还没有改掉的合同信息
35 2019-01-02 16:27:34.044[AncunScheduler_Worker-1] INFO com.ancun.netsign.qrtz.job.UpdateContractStatusJob 处理接入者[yjngm]下的合同信息[[ContractPO{id=1, userId=0, contractNo='adsfsdf', contractName='123', platformName='null', contractType=null, contractStatus=0, beginSignTime=Wed Nov 14 17:19:05 CST 2018, completedSignTime=null, signUserCount=1, signOrder=0, validityTime=10, watermarkStr='null', approveFlowId=null, contractTypeEntity=null, contractUserSet=null}, ContractPO{id=2, userId=0, contractNo='dfsdfsdf', contractName='123', platformName='null', contractType=4, contractStatus=0, CST 2018, completedSignTime=null, signUserCount=1, signOrder=0, validityTime=12, watermarkStr='null', approveFlowId=5, contractTypeEntity=null, contractUserSet=null}, ContractPO{id=3, userId=0, contractNo='sdfsdf', platformName='123', contractType='null', contractStatus=5, beginSignTime=Wed Nov 14 20:18:07 CST 2018, completedSignTime=5, signUserCount=1, signOrder=0, validityTime=10, watermarkStr='null', approveFlowId=5, contractTypeEntity=null, contractUserSet=null}, ContractPO{id=4, userId=0, contractNo='123456', contractName='test2', platformName='null', contractType=4, contractStatus=5, beginSignTime=Wed Nov 14 20:19:40 CST 2018, completedSignTime=null, signUserCount=1, signOrder=0,
```

```
D:\qartz-server\log\NetSign\QrtzServer\stdout.log.2019-01-02 - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
-----
1 2019-01-02 16:27:30.99 INFO [SERVER] find servants-spring.xml, use Spring mode.
2 2019-01-02 16:27:31.99 INFO 16:27:31.006 |-INFO in ch.qos.logback.classic.LoggerContext[default] - Could NOT find resource [logback-test.xml]
3 16:27:31.007 |-INFO in ch.qos.logback.classic.LoggerContext[default] - Could NOT find resource [logback.groovy]
4 16:27:31.007 |-INFO in ch.qos.logback.classic.LoggerContext[default] - Found resource [logback.xml] at [file:/D:/IdeaProjects/netsign/code/qrtz-server/target/classes/logback.xml]
5 16:27:31.008 |-WARN in ch.qos.logback.classic.LoggerContext[default] - Resource [logback.xml] occurs multiple times on the classpath.
6 16:27:31.008 |-WARN in ch.qos.logback.classic.LoggerContext[default] - Resource [logback.xml] occurs at [file:/D:/IdeaProjects/netsign/code/qrtz-server/target/classes/logback.xml]
7 16:27:31.008 |-WARN in ch.qos.logback.classic.LoggerContext[default] - Resource [logback.xml] occurs at [jar:file:/D:/m2/repository/com/ancun/netsign/log-lib/0.1/log-lib-0.1.jar!/logback.xml]
8 16:27:31.051 |-INFO in ch.qos.logback.core.joran.action.AppenderAction - About to instantiate appender of type [ch.qos.logback.core.ConsoleAppender]
9 16:27:31.054 |-INFO in ch.qos.logback.core.joran.action.AppenderAction - Naming appender as [STDOUT]
10 16:27:31.059 |-INFO in ch.qos.logback.core.joran.action.MestedComplexPropertyIA - Assuming default type [ch.qos.logback.classic.encoder.PatternLayoutEncoder] for [encoder] property
11 16:27:31.086 |-INFO in ch.qos.logback.core.joran.action.AppenderAction - About to instantiate appender of type [ch.qos.logback.classic.sift.SiftingAppender]
12 16:27:31.088 |-INFO in ch.qos.logback.core.joran.action.AppenderAction - Naming appender as [SIFT]
13 16:27:31.092 |-INFO in ch.qos.logback.core.joran.action.MestedComplexPropertyIA - Assuming default type [ch.qos.logback.classic.sift.MDCBasedDiscriminator] for [discriminator] property
14 16:27:31.096 |-INFO in ch.qos.logback.classic.joran.action.RootLoggerAction - Setting level of ROOT logger to INFO
15 16:27:31.097 |-INFO in ch.qos.logback.classic.joran.action.AppenderRefAction - Attaching appender named [STDOUT] to Logger[ROOT]
16 16:27:31.097 |-INFO in ch.qos.logback.classic.joran.action.AppenderRefAction - Attaching appender named [SIFT] to Logger[ROOT]
17 16:27:31.097 |-INFO in ch.qos.logback.classic.joran.action.ConfigurationAction - End of configuration.
18 16:27:31.098 |-INFO in ch.qos.logback.classic.joran.JoranConfigurator@74bdc168 - Registering current configuration as safe fallback point
19
20
21 2019-01-02 16:27:32.270 INFO -----
22 2019-01-02 16:27:32.270 INFO =====ApplicationContext配置成功,在普通类可以通过调用SpringUtils.getAppContext()获取applicationContext对象,applicationContext=org.springframework.context.support.ClassPathXmlApplicationContext@3c0
startup date [Wed Jan 02 16:27:30 CST 2019]; root of context hierarchy=====
23 2019-01-02 16:27:32.270 INFO -----
24 2019-01-02 16:27:32.374 INFO [SERVER] server starting at tcp -h 192.168.0.36 -p 18015 -t 60000...
25 2019-01-02 16:27:32.374 INFO [SERVER] server started at tcp -h 192.168.0.36 -p 18015 -t 60000...
26 2019-01-02 16:27:32.377 INFO 16:27:32.375 [main] INFO c.a.n.q.listener.QrtzServerListener Tars 服务启动...
27
28 2019-01-02 16:27:32.406 INFO [SERVER] server starting at tcp -h 127.0.0.1 -p 18015 -t 3000...
29 2019-01-02 16:27:32.406 INFO [SERVER] server started at tcp -h 127.0.0.1 -p 18015 -t 3000...
30 2019-01-02 16:27:32.409 INFO 16:27:32.409 [main] INFO c.a.n.q.listener.QrtzServerListener Tars服务 Qrtz-Server 开始启动.....
31
32 2019-01-02 16:27:32.437 INFO 16:27:32.436 [main] INFO org.quartz.impl.StdSchedulerFactory Using default implementation for ThreadExecutor
33
34 2019-01-02 16:27:32.454 INFO 16:27:32.454 [main] INFO o.quartz.core.SchedulerSignallerImpl Initialized Scheduler Signaller of type: class org.quartz.core.SchedulerSignallerImpl
35
36 2019-01-02 16:27:32.455 INFO 16:27:32.455 [main] INFO org.quartz.core.QuartzScheduler Quartz Scheduler v.2.3.0 created.
37
38 2019-01-02 16:27:32.456 INFO 16:27:32.456 [main] INFO org.quartz.simpl.RAMJobStore RAMJobStore initialized.
39
40 2019-01-02 16:27:32.457 INFO 16:27:32.457 [main] INFO org.quartz.core.QuartzScheduler Scheduler meta-data: Quartz Scheduler (v2.3.0) 'AncunScheduler' with instanceId 'NON_CLUSTERED'
41 Scheduler class: 'org.quartz.core.QuartzScheduler' - running locally.
42 NOT STARTED.
43 Currently in standby mode.
44 Number of jobs executed: 0
45 Using thread pool 'org.quartz.simpl.SimpleThreadPool' - with 5 threads.
46 Using job-store 'org.quartz.simpl.RAMJobStore' - which does not support persistence, and is not clustered.
47
48
49 2019-01-02 16:27:32.457 INFO 16:27:32.457 [main] INFO org.quartz.impl.StdSchedulerFactory Quartz scheduler 'AncunScheduler' initialized from default resource file in Quartz package:
'quartz.properties'
```

## 参考资料：

[https://tars.tencent.com/base/help/TARS\\_quick\\_start\\_Java.html](https://tars.tencent.com/base/help/TARS_quick_start_Java.html)

<https://wenku.baidu.com/view/77bfc3ffb04e852458fb770bf78a6529647d35c8.html>

<http://www.quartz-scheduler.org/>

<https://github.com/quartz-scheduler/quartz>