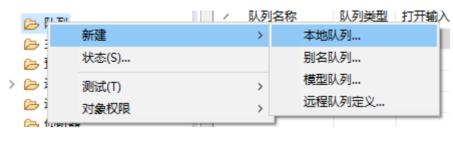
IBM MQ开发手册

下载地址

- 安装过程(略)
- 打开MQ资源管理器,新建 队列管理器

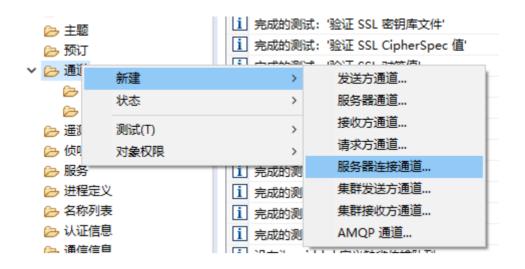


• 展开刚刚新建的队列管理器,选中 队列--新建--本地队列

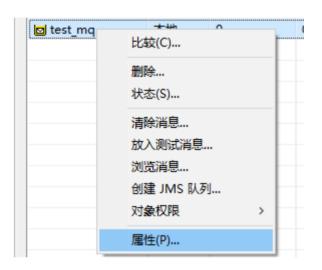


→ 新建本地队列				_		×
创建本地队列						
輸入您要创建的对象的详细信息						
名称:						
test_mq						
选择要从中复制新对象属性的现有对象。						
SYSTEM.DEFAULT.LOCAL.QUEUE					选择((C)
					<i>2</i> ±1	3)
此向导完成时,可自动启动另一向导来创建匹配对象。						
□ 启动向导以创建匹配 JMS 队列						
?	<上一步(B)	下一步(N)>	完成(F)		取消	

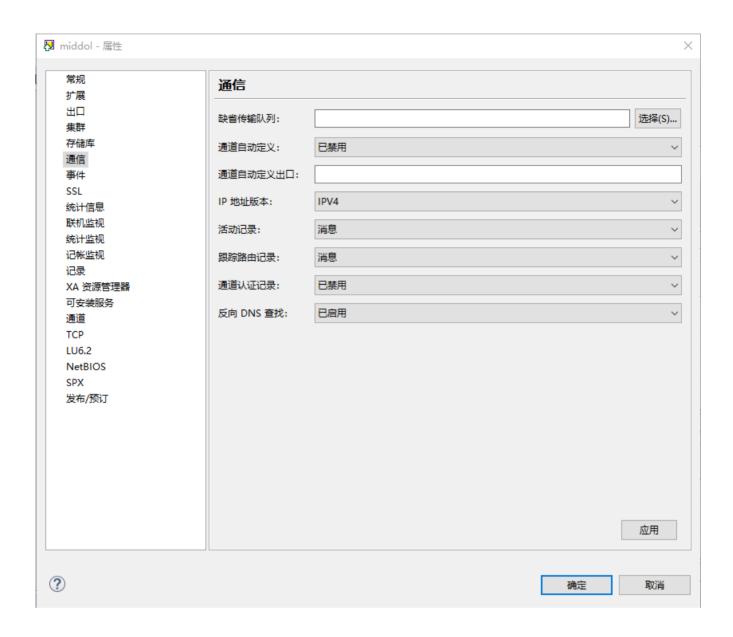
• 新建通道



• 设置队列属性



• 选中新建的队列管理器--属性



注意 #

• windows 系统需要设置登录账户的密码,一管理员身份运行 dos

net user Administrator 123456

项目实例

依赖

```
compile group: 'org.springframework', name: 'spring-jms'
compile group: 'javax.jms', name: 'javax.jms-api', version: '2.0.1'
compile group: 'com.ibm.mq', name: 'com.ibm.mq.allclient', version: '9.1.2.0'
```

• 配置文件

```
project:
mq:
host: 127.0.0.1
port: 1414
queue-manager: test # 队列管理器
channel: MY_CHANNEL # 通道
username: Administrator # 计算机登录账户
password: 123456 # 计算机登录密码
receive-timeout: 20000
```

src/main/groovy 下新建类

JmsConfig.groovy

```
package com.ibm.mq
import com.ibm.mq.jms.MQQueueConnectionFactory
import com.ibm.msg.client.wmq.WMQConstants
import org.springframework.beans.factory.annotation.Value
import org.springframework.context.annotation.Bean
import org.springframework.context.annotation.Configuration
import\ org. spring framework. context. annotation. Primary
import org.springframework.jms.connection.CachingConnectionFactory
import org.springframework.jms.connection.JmsTransactionManager
import org.springframework.jms.connection.UserCredentialsConnectionFactoryAdapter
import org.springframework.jms.core.JmsOperations
import org.springframework.jms.core.JmsTemplate
import\ org. spring framework. transaction. Platform Transaction Manager
@Configuration
class JmsConfig {
    @Value('${project.mq.host}')
    private String host
   @Value('${project.mq.port}')
   private Integer port
   @Value('${project.mq.queue-manager}')
   private String queueManager
   @Value('${project.mq.channel}')
    private String channel
   @Value('${project.mq.username}')
    private String username
```

```
@Value('${project.mq.password}')
             private String password
             @Value('${project.mq.receive-timeout}')
             private long receiveTimeout
             @Bean
             MQQueueConnectionFactory mqQueueConnectionFactory() {
                            MQQueueConnectionFactory mqQueueConnectionFactory = new MQQueueConnectionFactory()
                           mqQueueConnectionFactory.setHostName(host)
                            try {
                                         mqQueueConnectionFactory.setTransportType(WMQConstants.WMQ_CM_CLIENT)
                                          mqQueueConnectionFactory.setCCSID(1208)
                                          mgQueueConnectionFactory.setChannel(channel)
                                         mqQueueConnectionFactory.setPort(port)
                                          mqQueueConnectionFactory.setQueueManager(queueManager)
                            } catch (Exception e) {
                                         e.printStackTrace()
                            return mqQueueConnectionFactory
             }
             @Bean
             User Credentials Connection Factory Adapter\\
userCredentialsConnectionFactoryAdapter(MQQueueConnectionFactory\ mqQueueConnectionFactory)\\
{
                           User Credentials Connection Factory Adapter \ user Credentials Connection Factory Adapter \ = \ Adapter 
new UserCredentialsConnectionFactoryAdapter()
                           userCredentialsConnectionFactoryAdapter.setUsername(username)
                           userCredentialsConnectionFactoryAdapter.setPassword(password)\\
  user Credentials Connection Factory Adapter.set Target Connection Factory (\verb|mqQueueConnectionFactor|) and the connection factory (\verb|mqQueueConnectionFactor|) and the connection factor (\verb|mqQueueConnectionFactor|) and the connect
ry)
                            return userCredentialsConnectionFactoryAdapter
             @Bean
             @Primary
             CachingConnectionFactory
caching {\tt ConnectionFactory} ({\tt UserCredentialsConnectionFactoryAdapter}) \\
userCredentialsConnectionFactoryAdapter) {
                           CachingConnectionFactory cachingConnectionFactory = new CachingConnectionFactory()
   caching Connection Factory. set Target Connection Factory (user Credentials Connection Factory Adapt) \\
er)
                           cachingConnectionFactory.setSessionCacheSize(500)
                           cachingConnectionFactory.setReconnectOnException(true)
                            return cachingConnectionFactory
             }
             @Bean
```

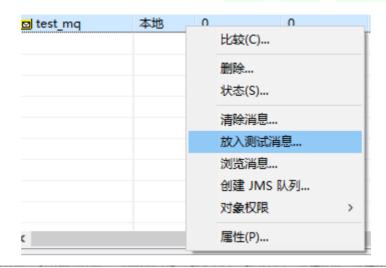
```
PlatformTransactionManager jmsTransactionManager(CachingConnectionFactory
cachingConnectionFactory) {
    JmsTransactionManager jmsTransactionManager = new JmsTransactionManager()
    jmsTransactionManager.setConnectionFactory(cachingConnectionFactory)
    return jmsTransactionManager
}
@Bean
JmsOperations jmsOperations(CachingConnectionFactory cachingConnectionFactory) {
    JmsTemplate jmsTemplate = new JmsTemplate(cachingConnectionFactory)
    jmsTemplate.setReceiveTimeout(receiveTimeout)
    return jmsTemplate
}
```

ReceiveMessage.groovy

```
package com.ibm.mq
import org.springframework.beans.factory.annotation.Autowired
import org.springframework.jms.annotation.JmsListener
import org.springframework.jms.core.JmsOperations
import\ org. spring framework. jms. listener. adapter. Message Listener Adapter
import org.springframework.stereotype.Component
import javax.jms.Message
//消息消费者的类上必须加上@Component,或者是@Service,这样的话,消息消费者类就会被委派给Listener类,原
理类似于使用SessionAwareMessageListener以及MessageListenerAdapter来实现消息驱动POJO
@Component
class ReceiveMessage extends MessageListenerAdapter {
   @Autowired
   JmsOperations jmsOperations;
   /**
    * @destination test_mg对应ibm中创建的队列
    * @param message
    */
   @Override
   @JmsListener(destination = "test_mq")
   void onMessage(Message message) {
       String messageBody = new String(message.getBody(Object).toString());
       println "成功监听middol_send消息队列,传来的值为: ${messageBody}"
   }
```

在主类添加扫描注解

测试, 启动项目, 打开IBM MQ资源管理器, 选中 队列 -- 右键 -- 放入测试数据





• 后台控制台打印

Running application...

Grails application running at http://localhost:8080 in environment: development 成功监听middol_send消息队列,传来的值为: hello

.