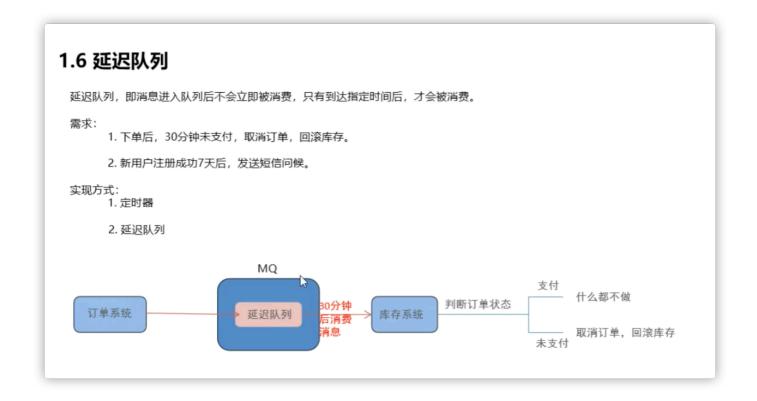
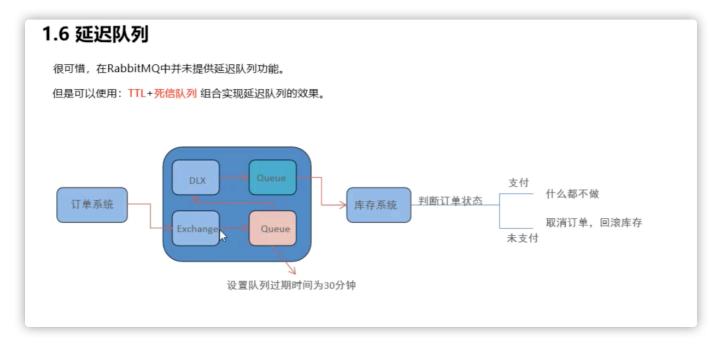
延迟队列





springboot版

参考: https://www.jianshu.com/p/451958b1adca https://www.jianshu.com/p/f6313814bf77

spring版

product

rabbitmq.properties

```
rabbitmq.host=172.16.98.133
rabbitmq.port=5672
rabbitmq.username=guest
rabbitmq.password=guest
rabbitmq.virtual-host=/
```

spring-rabbitmq-producer.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xmlns:context="http://www.springframework.org/schema/context"
       xmlns:rabbit="http://www.springframework.org/schema/rabbit"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
       http://www.springframework.org/schema/beans/spring-beans.xsd
       http://www.springframework.org/schema/context
       https://www.springframework.org/schema/context/spring-context.xsd
       http://www.springframework.org/schema/rabbit
       http://www.springframework.org/schema/rabbit/spring-rabbit.xsd">
    <!--加载配置文件-->
    <context:property-placeholder location="classpath:rabbitmq.properties"/>
    <!-- 定义rabbitmg connectionFactory -->
    <rabbit:connection-factory id="connectionFactory" host="${rabbitmq.host}"</pre>
                               port="${rabbitmq.port}"
                               username="${rabbitmq.username}"
                               password="${rabbitmq.password}"
                               virtual-host="${rabbitmq.virtual-host}"
                               publisher-confirms="true"
                               publisher-returns="true"
    />
    <!--定义管理交换机、队列-->
    <rabbit:admin connection-factory="connectionFactory"/>
    <!--定义rabbitTemplate对象操作可以在代码中方便发送消息-->
    <rabbit:template id="rabbitTemplate" connection-factory="connectionFactory"/>
    <!--
```

```
延迟队列:
           1. 定义正常交换机 (order exchange) 和队列(order queue)
           2. 定义死信交换机 (order_exchange_dlx) 和队列(order_queue_dlx)
           3. 绑定,设置正常队列过期时间为30分钟
    <!-- 1. 定义正常交换机 (order_exchange) 和队列(order_queue)-->
   <rabbit:queue id="order queue" name="order queue">
       <!-- 3。绑定,设置正常队列过期时间为30分钟-->
       <rabbit:queue-arguments>
           <entry key="x-dead-letter-exchange" value="order exchange dlx" />
           <entry key="x-dead-letter-routing-key" value="dlx.order.cancel" />
           <entry key="x-message-tt1" value="10000" value-type="java.lang.Integer" />
       </rabbit:queue-arguments>
   </rabbit:queue>
   <rabbit:topic-exchange name="order exchange">
       <rabbit:bindings>
           <rabbit:binding pattern="order.#" queue="order_queue"></rabbit:binding>
       </rabbit:bindings>
   </rabbit:topic-exchange>
   <!-- 2. 定义死信交换机 (order exchange dlx) 和队列(order queue dlx)-->
   <rabbit:queue id="order_queue_dlx" name="order_queue_dlx"></rabbit:queue>
   <rabbit:topic-exchange name="order exchange dlx">
       <rabbit:bindings>
           <rabbit:binding pattern="dlx.order.#" queue="order queue dlx"></rabbit:binding>
       </rabbit:bindings>
   </rabbit:topic-exchange>
</beans>
```

customer

rabbitmq.properties

```
rabbitmq.host=172.16.98.133
rabbitmq.port=5672
rabbitmq.username=guest
rabbitmq.password=guest
rabbitmq.virtual-host=/
```

spring-rabbitmq-consumer.xml

```
xmlns:rabbit="http://www.springframework.org/schema/rabbit"
      xsi:schemaLocation="http://www.springframework.org/schema/beans"
      http://www.springframework.org/schema/beans/spring-beans.xsd
      http://www.springframework.org/schema/context
      https://www.springframework.org/schema/context/spring-context.xsd
      http://www.springframework.org/schema/rabbit
      http://www.springframework.org/schema/rabbit/spring-rabbit.xsd">
   <!--加载配置文件-->
    <context:property-placeholder location="classpath:rabbitmq.properties"/>
   <!-- 定义rabbitmg connectionFactory -->
   <rabbit:connection-factory id="connectionFactory" host="${rabbitmq.host}"</pre>
                              port="${rabbitmq.port}"
                              username="${rabbitmq.username}"
                              password="${rabbitmq.password}"
                              virtual-host="${rabbitmq.virtual-host}"/>
   <context:component-scan base-package="com.itheima.listener" />
   <!--定义监听器容器-->
       <rabbit:listener-container connection-factory="connectionFactory" acknowledge="manual"</pre>
prefetch="1" >-->
   <rabbit:listener-container connection-factory="connectionFactory" acknowledge="manual" >
           <rabbit:listener ref="ackListener" queue-names="test queue confirm">
</rabbit:listener>-->
           <rabbit:listener ref="qosListener" queue-names="test queue confirm">
</rabbit:listener>-->
       <!--定义监听器,监听正常队列-->
       <rabbit:listener ref="dlxListener" queue-names="test queue dlx"></rabbit:listener>
       <!--延迟队列效果实现: 一定要监听的是 死信队列!!!-->
       <rabbit:listener ref="orderListener" queue-names="order queue dlx"></rabbit:listener>
   </rabbit:listener-container>
</beans>
```

OrderListener

```
import com.rabbitmq.client.Channel;
import org.springframework.amqp.core.Message;
import org.springframework.amqp.rabbit.listener.api.ChannelAwareMessageListener;
import org.springframework.stereotype.Component;

@Component
public class OrderListener implements ChannelAwareMessageListener {
```

```
@Override
   public void onMessage(Message message, Channel channel) throws Exception {
       long deliveryTag = message.getMessageProperties().getDeliveryTag();
       try {
           //1.接收转换消息
           System.out.println(new String(message.getBody()));
           //2. 处理业务逻辑
           System.out.println("处理业务逻辑...");
           System.out.println("根据订单id查询其状态...");
           System.out.println("判断状态是否为支付成功");
           System.out.println("取消订单,回滚库存....");
           //3. 手动签收
           channel.basicAck(deliveryTag,true);
       } catch (Exception e) {
           //e.printStackTrace();
           System.out.println("出现异常, 拒绝接受");
           //4.拒绝签收,不重回队列 requeue=false
           channel.basicNack(deliveryTag,true,false);
       }
   }
}
```