3.3）消息的confirm机制

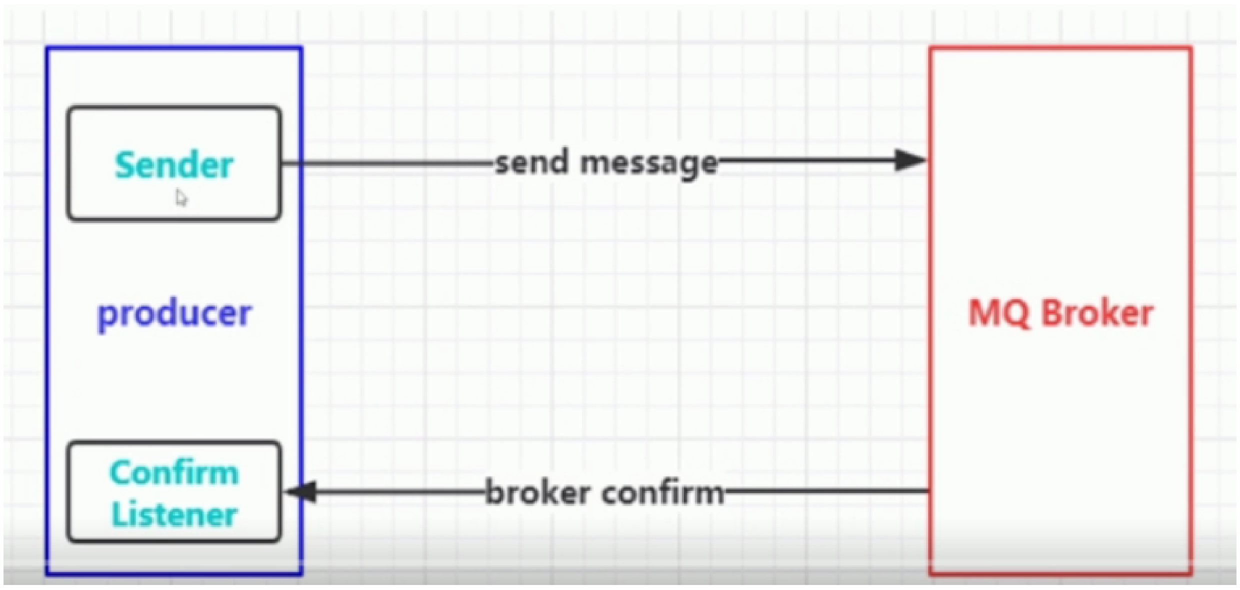
一:mq **的**confirm**机制**

1：**消息的确认**:**指的是生产者将消息投递后，如何**mq-server**接受到消息，就会给生产者一个应答**.

2:**生产者接受到应答，来确保该条消息是否成功发送到了**mq-server

3:confirm**机制是消息可靠性投递的核心保障**

二:mq**的**confirm**机制的核心流程图**



三:confirm**机制的现实步骤**

第一步：在channel **上开启确认模式** channel.confirmSelect();

第二步:**在**channel**上添加监听，用来监听**mq-server**返回的应答**

四:**代码演示**

生产者:**代码**

```
public static void main(String[] args) throws IOException, TimeoutException {
ConnectionFactory connectionFactory = new ConnectionFactory();
```

```
 connectionFactory.setVirtualHost("/");
 connectionFactory.setHost("47.104.128.12");
 connectionFactory.setPort(5672);
Connection connection = connectionFactory.newConnection();
Channel channel = connection.createChannel();
//开启confirm 确认机制
 channel.confirmSelect();
//设置confirm 监听
 channel.addConfirmListener(new AngleConfirmListerner());
//生产消息
 channel.basicPublish("test.confirm.exchange","test.confirm.key",null,"测试confirm消息".getBytes());
}
```

消费者代码:

```
public static void main(String[] args) throws IOException, TimeoutException, InterruptedException {
ConnectionFactory connectionFactory = new ConnectionFactory();
 connectionFactory.setVirtualHost("/");
 connectionFactory.setHost("47.104.128.12");
 connectionFactory.setPort(5672);
Connection connection = connectionFactory.newConnection();
Channel channel = connection.createChannel();
//声明交换机队列以及绑定关系
 channel.exchangeDeclare("test.confirm.exchange","topic",true,true,false,null);
 channel.queueDeclare("test.confirm.queue",true,false,true,null);
 channel.queueBind("test.confirm.queue","test.confirm.exchange","test.confirm.key");
QueueingConsumer queueingConsumer = new QueueingConsumer(channel);
channel.basicConsume("test.confirm.queue",true,queueingConsumer);
while (true) {
 QueueingConsumer.Delivery delivery = queueingConsumer.nextDelivery();
 System.out.println(new String(delivery.getBody()));
}
}
```

confirm消息监听器代码

```
public class AngleConfirmListerner implements ConfirmListener {
 @Override
 public void handleAck(long deliveryTag, boolean multiple) throws IOException {
 System.out.println("消息deliveryTag"+deliveryTag+"被正常签收");
 }
@Override
 public void handleNack(long deliveryTag, boolean multiple) throws IOException {
 System.out.println("消息deliveryTag"+deliveryTag+"没被签收");
```

```
  }
}
```