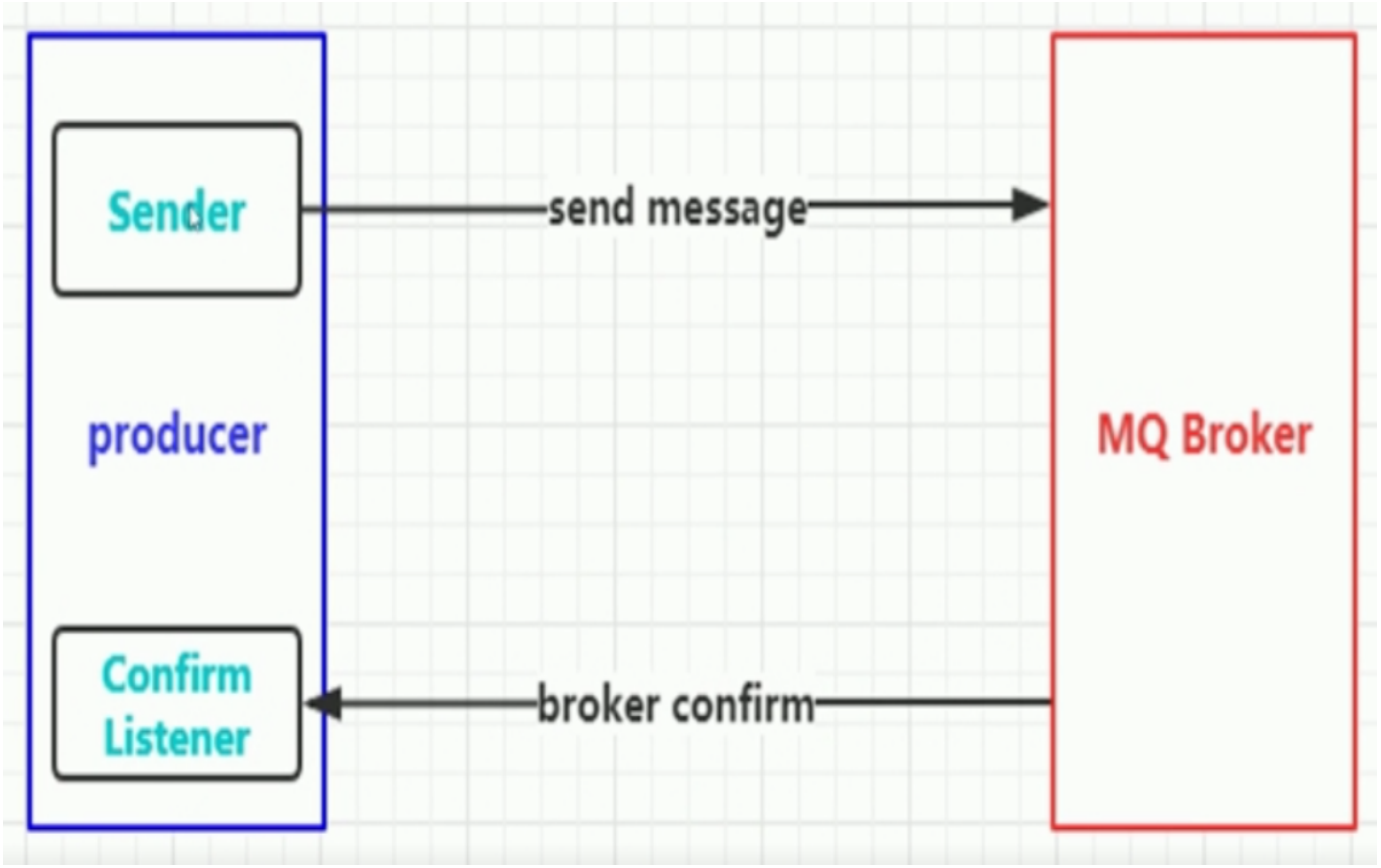
3.3）消息的确认Confirm

一:理解Confirm消息确认机制

1.1)**消息的确认是指，生产端投递消息后，若**mq-server**接受到消息，就会给生产者一个应答**

1.2）**生产端根据**mq broker**返回应答来确认该条消息是否正常发送到了**broker,**这种方式是消息可靠性投递的核心保障**

1.3）**消息确认机制的流程图**



1.4）**如何来做消息的**confirm

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

第二部;**在**channel**上增加**confirm**监听，来监听成功和异常的**confirm**结果**

1.5)**代码演示 生产者**:

```
public static void main(String[] args) throws IOException, TimeoutException {
ConnectionFactory connectionFactory = new ConnectionFactory();
 connectionFactory.setVirtualHost("cloudmall");
 connectionFactory.setHost("47.104.128.12");
 connectionFactory.setPort(5672);
Connection connection = connectionFactory.newConnection();
Channel channel = connection.createChannel();
//开启confirm
 channel.confirmSelect();
channel.addConfirmListener(new ConfirmListener() {
 /**
 * 接口成功
 *
 * @param deliveryTag deliveryTag 消息id
 * @param multiple 是否批量
 * @throws IOException
 */
 @Override
 public void handleAck(long deliveryTag, boolean multiple) throws IOException {
 System.out.println("消息id" + deliveryTag + ".....ack");
 }
@Override
 public void handleNack(long deliveryTag, boolean multiple) throws IOException {
 System.out.println("消息id" + deliveryTag + ".....no ack");
 }
```

```
 });
channel.basicPublish("test.confirm.exchange", "test.confirm.key", null, "confirm消息".getBytes());
 }
```

消费者:

```
public static void main(String[] args) throws IOException, TimeoutException, InterruptedException {
ConnectionFactory connectionFactory = new ConnectionFactory();
 connectionFactory.setVirtualHost("cloudmall");
 connectionFactory.setHost("47.104.128.12");
 connectionFactory.setPort(5672);

Connection connection = connectionFactory.newConnection();
Channel channel = connection.createChannel();
channel.exchangeDeclare("test.confirm.exchange","topic",true,false,null);
 channel.queueDeclare("test.confirm.queue",true,false,false,null);
 channel.queueBind("test.confirm.queue","test.confirm.exchange","test.confirm.#");
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()));
 }
}
```