

1.把example跑起来，能在dashboard中查到自己发送的消息

新建Topic：2101210386-test-Topic

发送消息：

```
"C:\Program Files\Eclipse Foundation\jdk-11.0.12-hotspot\bin\java.exe" ...
RocketMQLog:WARN No appenders could be found for logger (io.netty.util.internal.InternalThreadLocalMap).
RocketMQLog:WARN Please initialize the logger system properly.
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB83338947230000, offsetMsgId=2F66888A00002A9F0000000000918A10, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB833389474C0001, offsetMsgId=2F66888A00002A9F0000000000918AE9, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB83338947700002, offsetMsgId=2F66888A00002A9F0000000000918BC2, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB83338947940003, offsetMsgId=2F66888A00002A9F0000000000918C98, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB83338947B80004, offsetMsgId=2F66888A00002A9F0000000000918D74, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB83338947DC0005, offsetMsgId=2F66888A00002A9F0000000000918E4D, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB83338948090006, offsetMsgId=2F66888A00002A9F0000000000918F26, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB833389482C0007, offsetMsgId=2F66888A00002A9F0000000000918FFF, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB833389484F0008, offsetMsgId=2F66888A00002A9F00000000009190D8, messageQueue=MessageQueue [topic=2101210386-test-Topic,
SendResult [sendStatus=SEND_OK, msgId=7F00000162D01F89AB83338948710009, offsetMsgId=2F66888A00002A9F00000000009191B1, messageQueue=MessageQueue [topic=2101210386-test-Topic,
00:10:35.113 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[47.102.136.138:10911] result: true
00:10:35.116 [NettyClientSelector_1] INFO RocketmqRemoting - closeChannel: close the connection to remote address[47.102.136.138:9876] result: true
Process finished with exit code 0
```

根据Topic查询：

TOPIC

MESSAGE KEY

MESSAGE ID

Only Return 2000 Messages

Topic: 2101210386-test-Topic

Begin: 2022-03-09 11:10

End: 2022-04-14 13:10

QSEARCH

Message ID	Tag	Key	StoreTime	Operation
7F00000123881F89AB8347151CE10012	WHR	1	2022-03-14 19:16:02	MESSAGE DETAIL
7F00000123881F89AB8347151CBF0011	WHR	1	2022-03-14 19:16:02	MESSAGE DETAIL
7F00000123881F89AB8347151C9C0010	WHR	1	2022-03-14 19:16:02	MESSAGE DETAIL
7F00000123881F89AB8347151C79000F	WHR	1	2022-03-14 19:16:02	MESSAGE DETAIL
7F00000123881F89AB8347151C57000E	WHR	1	2022-03-14 19:16:02	MESSAGE DETAIL

根据MsgID查询：

MsgID：7F0000013E8C1F89AB83371FDA2B0005

Message ID:

7F0000013E8C1F89AB83371FDA2B0005

Topic:

2101210386-test-Topic

Tag:

WHR

Key:

1

Storetime:

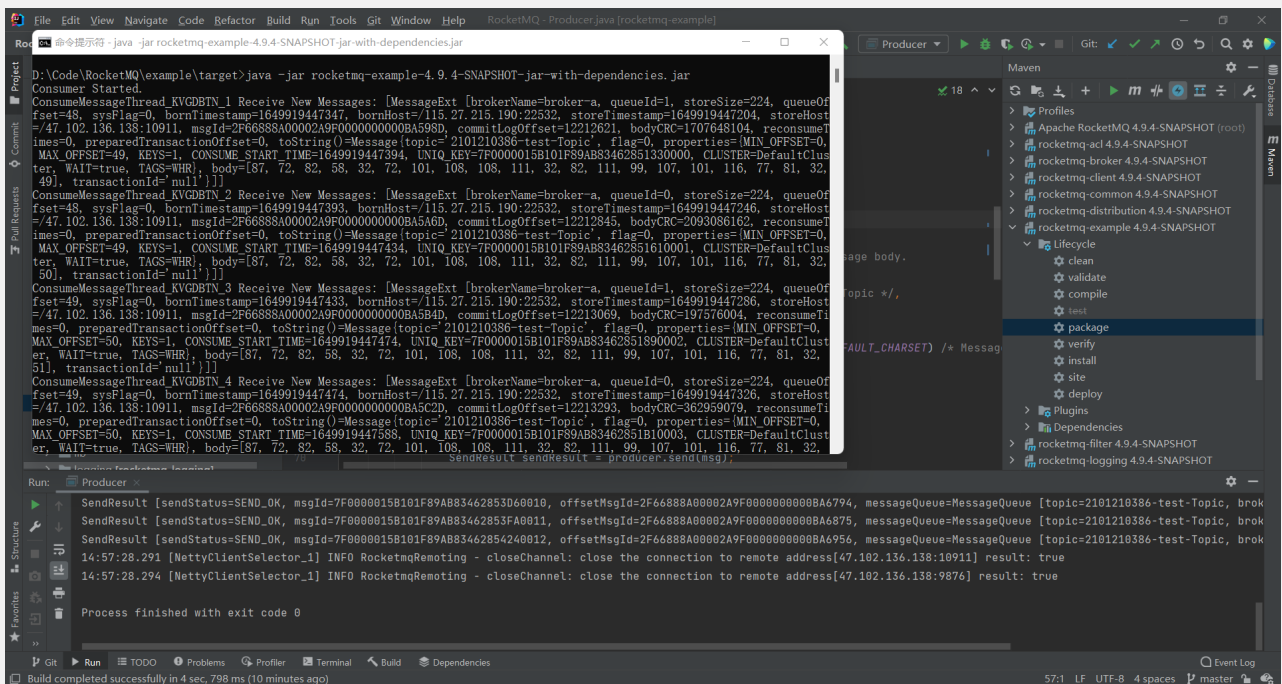
2022-03-11

Message body:

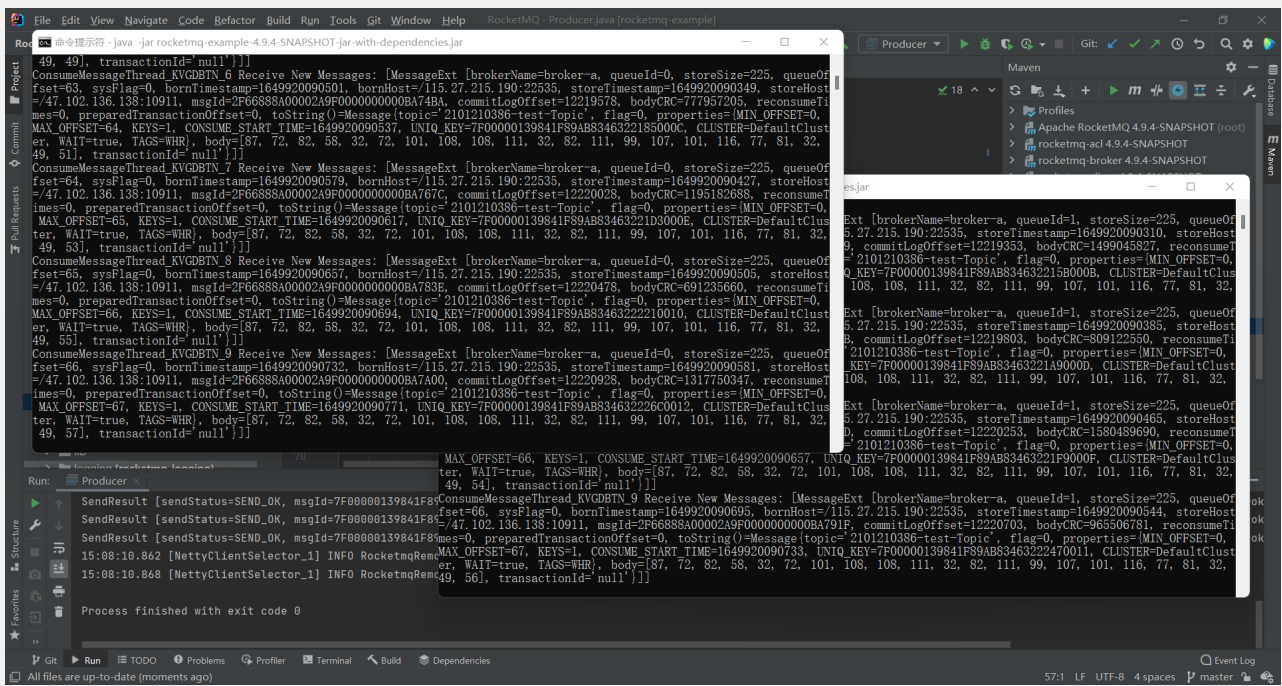
WHR: Hello RocketMQ 15

2.把消费者打成jar包，在自己的电脑上同时跑2个进程，看看会发生什么现象，然后解释下可能的原因

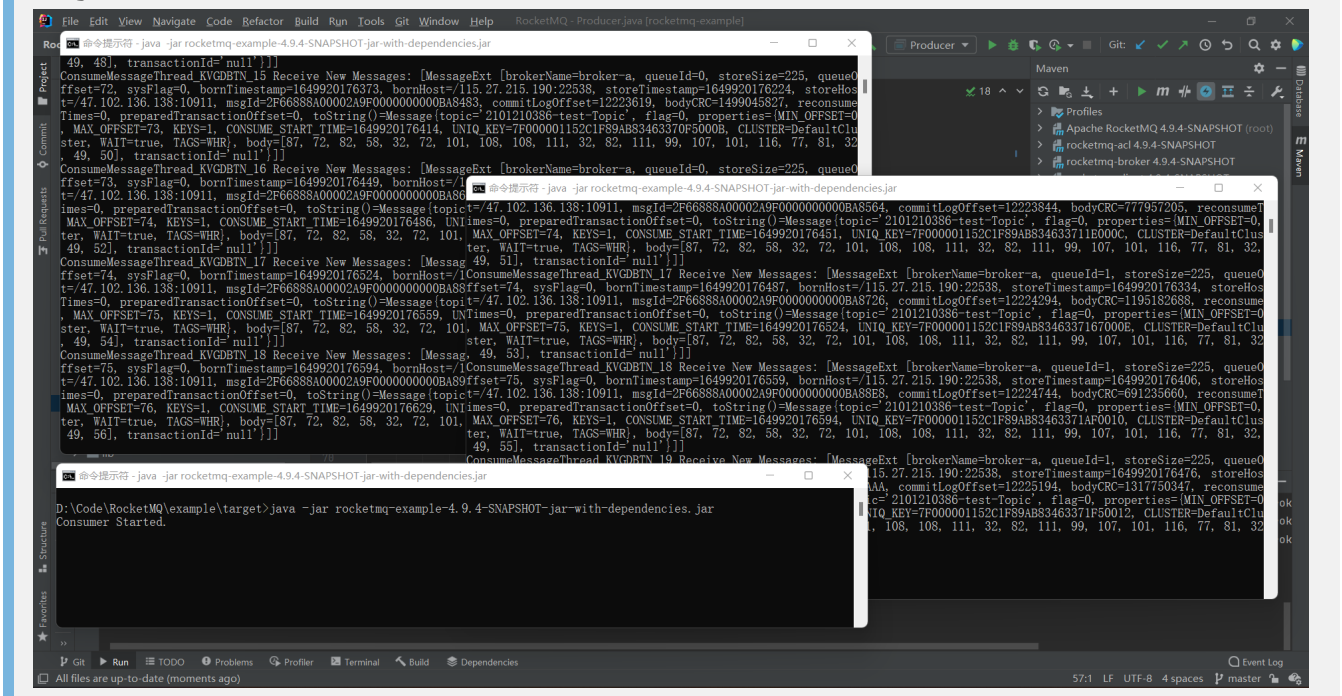
同时运行1个Consumer:



同时运行2个Consumer:



同时运行3个Consumer:



Topic : 2101210386-test-Topic 设定的readQueue值为2。

可以看到，只有一个Consumer的时候，Consumer消费了queueId=0和queueId=1的消息。Consumer增加到两个的时候，原有的Consumer只消费queueId=0的消息，新增的Consumer只消费queueId=1的消息。而Consumer进一步增加的时候，新的Consumer不会消费任何消息。一个Topic的消息被分为多个队列。在同一个ConsumerGroup中，Consumer会固定的分配到一个或几个队列读取消息；但是一个队列只会分配给一个Consumer。