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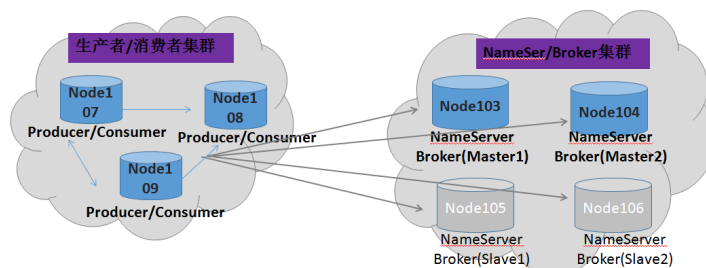
一 机器部署

7台机器，均为16G内存

每台服务器均有4个CPU，2核

机器名	IP地址	用途
xxdlyc01/node103	10.128.31.103	消息队列压力测试机
xxdlyc02/node104	10.128.31.104	消息队列压力测试机
xxdlyc03/node105	10.128.31.105	消息队列压力测试机
xxdlyc04/node106	10.128.31.106	消息队列压力测试机
xxdlyc05/node107	10.128.31.107	消息队列压力测试机
xxdlyc06/node108	10.128.31.108	消息队列压力测试机
xxdlyc07/node109	10.128.31.109	消息队列压力测试机

多Master/多Slave同步双写高可用部署



Master与Slave通过制定相同的**brokerName**配对，其中Master的 **BrokerId** 必须是0，Slave的**BrokerId** 必须是大于0。

每台机器master机器均采用异步刷盘方式

[illegible]

```
[root@xxdlyc02 2m-2s-sync]# more 2m2s-sync-broker.properties
brokerClusterName=DefaultCluster
brokerName=broker-master2
brokerId=0
deleteWhen=04
fileReservedTime=48
brokerRole=SYNC MASTER
flushDiskType=ASYNC_FLUSH
#autoCreateTopicEnable=TRUE
```

二 性能评测

1、评测目的

测试consumer端的集群模式消费。

2、评测指标

- (1) topic关联的readQueueNums读队列数值
- (2) 属于同一个consumerGroup的consumer个数
- (3) 所有consumer消费消息的总条数
- (4) 每个consumer消费消息，读取的队列Id
- (5) 部署集群中的master机器台数

3、评测逻辑

如果有 5 个队列，2 个 consumer，那么第一个 Consumer 消费 3 个队列，第二 consumer 消费 2 个队列。

如果Consumer 超过队列数量，那么多余的Consumer 将不能消费消息。

队列数量、Consumer数量、Rebalance结果如下表

队列数量	Consumer数量	Rebalance结果
5	2	C1 : 3 C2 : 2
6	3	C1 : 3 C2 : 3
10	20	C1-C10 : 1 C11-C20 : 0
20	6	C1 : 4 C2 : 4 C3-C4 : 3

4、评测过程

- (1) 发送消息前，查看服务端的topic关联的队列个数。
- (2) producer端向topic名称为“clusterTopicTest”队列发送消息，定为20条，发送消息后并记录每条消息的

chenyongsuda,您好

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息总数，判断消息是否有丢失。

专题 Rocketmq 集群消费测试

闻 | 退出

的queueId，判断队列是否达到了负载均衡。

第一组：保持A不变，增加B，使得 $A > B$ ，然后重复步骤1-5。

第二组：保持A不变，增加B，使得 $A = B$ ，然后重复步骤1-5。

第三组：保持A不变，增加B，使得 $A = 2 * B$ ，然后重复步骤1-5。

第三组：增加A，保持B不变，使得 $2 * A = B$ ，然后重复步骤1-5。

第五组：减少A，保持B不变，使得 $2 * A < B$ ，然后重复步骤1-5。

(8) 注意：master机器个数，每台master机器上指定topic的队列数，两数值相乘，才是最终的rocketmq做负载均衡的队列个数。（步骤6的master机器个数为2）

队列数量	Consumer数量	Rebalance结果 (期望)	Rebalance结果 (实际)	Master机器	消费条数	
Master1	Master2					
8	5	C1 : 4	C1 : 4	4	0	8
C2 : 3	C2 : 3	1	2	3		
C3 : 3	C3 : 3	0	3	3		
C4 : 3	C4 : 3	3	0	3		
C5 : 3	C5 : 3	0	3	3		

2台master机器，每个topic有8个队列，期望的队列个数 $2*8=16$ 个，实际的队列个数 $4+3+3+3+3 = 16$ 个，可以看出期望、实际的queue分布是相同的结果。

```
send ok. index=13, msgId=0A801F6800002A9F00000046C7D0645B, queueId=5, offset=13, brokerName=broker-master2
send ok. index=14, msgId=0A801F6800002A9F00000046C7D06470, queueId=6, offset=13, brokerName=broker-master2
send ok. index=15, msgId=0A801F6800002A9F00000046C7D064F5, queueId=7, offset=13, brokerName=broker-master2
send ok. index=16, msgId=0A801F6700002A9F00000047FED4E5DC, queueId=0, offset=184, brokerName=broker-master1
send ok. index=17, msgId=0A801F6700002A9F00000047FED4E661, queueId=1, offset=182, brokerName=broker-master1
send ok. index=18, msgId=0A801F6700002A9F00000047FED4E6E6, queueId=2, offset=183, brokerName=broker-master1
send ok. index=19, msgId=0A801F6700002A9F00000047FED4E76B, queueId=3, offset=183, brokerName=broker-master1
send all message ok. total=20
```

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```
4984 consumer started ...
instanceName=4984,queueId=0,msgId=0A801F6700002A9F00000047FED4E1BC, success=1, body=data0,storeHost=/10.128.31.103:10911
instanceName=4984,queueId=1,msgId=0A801F6700002A9F00000047FED4E240, success=2, body=data1,storeHost=/10.128.31.103:10911
instanceName=4984,queueId=2,msgId=0A801F6700002A9F00000047FED4E2C4, success=3, body=data2,storeHost=/10.128.31.103:10911
instanceName=4984,queueId=3,msgId=0A801F6700002A9F00000047FED4E348, success=4, body=data3,storeHost=/10.128.31.103:10911
instanceName=4984,queueId=0,msgId=0A801F6700002A9F00000047FED4E5DC, success=5, body=data6,storeHost=/10.128.31.103:10911
instanceName=4984,queueId=1,msgId=0A801F6700002A9F00000047FED4E661, success=6, body=data17,storeHost=/10.128.31.103:10911
instanceName=4984,queueId=2,msgId=0A801F6700002A9F00000047FED4E6E6, success=7, body=data18,storeHost=/10.128.31.103:10911
instanceName=4984,queueId=3,msgId=0A801F6700002A9F00000047FED4E76E, success=8, body=data19,storeHost=/10.128.31.103:10911
```

consumer2的消费记录：

```
8044 consumer started ...
instanceName=8044,queueId=7,msgId=0A801F6700002A9F00000047FED4E558, success=1, body=data7,storeHost=/10.128.31.103:10911
instanceName=8044,queueId=0,msgId=0A801F6800002A9F00000046C7D06154, success=2, body=data8,storeHost=/10.128.31.104:10911
instanceName=8044,queueId=1,msgId=0A801F6800002A9F00000046C7D061D8, success=3, body=data9,storeHost=/10.128.31.104:10911
```

consumer3的消费记录：

```
9540 consumer started ...
instanceName=9540,queueId=2,msgId=0A801F6800002A9F00000046C7D0625C, success=1, body=data10,storeHost=/10.128.31.104:10911
instanceName=9540,queueId=3,msgId=0A801F6800002A9F00000046C7D062E1, success=2, body=data11,storeHost=/10.128.31.104:10911
instanceName=9540,queueId=4,msgId=0A801F6800002A9F00000046C7D06366, success=3, body=data12,storeHost=/10.128.31.104:10911
```

consumer4的消费记录：

```
8640 consumer started ...
instanceName=8640,queueId=4,msgId=0A801F6700002A9F00000047FED4E30C, success=1, body=data4,storeHost=/10.128.31.103:10911
instanceName=8640,queueId=5,msgId=0A801F6700002A9F00000047FED4E450, success=2, body=data5,storeHost=/10.128.31.103:10911
instanceName=8640,queueId=6,msgId=0A801F6700002A9F00000047FED4E4D4, success=3, body=data6,storeHost=/10.128.31.103:10911
```

consumer5的消费记录：

```
9788 consumer started ...
instanceName=9788,queueId=5,msgId=0A801F6800002A9F00000046C7D063EB, success=1, body=data13,storeHost=/10.128.31.104:10911
instanceName=9788,queueId=6,msgId=0A801F6800002A9F00000046C7D06470, success=2, body=data14,storeHost=/10.128.31.104:10911
instanceName=9788,queueId=7,msgId=0A801F6800002A9F00000046C7D064F5, success=3, body=data15,storeHost=/10.128.31.104:10911
```

第二组，总发送条数20条

队列数量	Consumer数量	Reblance结果 (期望)	Reblance结果 (实际)	Master机器	消费条数	
Master1	Master2					
8	8	C1 : 2	C1 : 2	2	0	4
C2 : 2	C2 : 2	0	2	2		
C3 : 2	C3 : 2	0	2	2		
C4 : 2	C4 : 2	0	2	2		
C5 : 2	C5 : 2	0	2	2		
C6 : 2	C6 : 2	2	0	4		
C7 : 2	C7 : 2	2	0	2		
C8 : 2	C8 : 2	2	0	2		

8个consumer消费消息总条数：8+3+3+3+3 = 20条

2台master机器，每个topic有8个队列，期望的队列个数 2*8=16个，实际的队列个数 2+2+2+2+2+2+2+2 = 16

个，可以看出期望、实际的queue分布是相同的结果。

8个consumer消费消息总条数：4+2+2+2+2+2+4+2+2 = 20条

producer的发送记录：

```
send ok. index=14,msgId=0A801F6800002A9F00000046C7D06896,queueId=6,offset=14,brokerName=broker-master2
send ok. index=15,msgId=0A801F6800002A9F00000046C7D0691B,queueId=7,offset=14,brokerName=broker-master2
send ok. index=16,msgId=0A801F6700002A9F00000047FED4EC10,queueId=0,offset=186,brokerName=broker-master1
send ok. index=17,msgId=0A801F6700002A9F00000047FED4EC95,queueId=1,offset=184,brokerName=broker-master1
send ok. index=18,msgId=0A801F6700002A9F00000047FED4ED1A,queueId=2,offset=185,brokerName=broker-master1
send ok. index=19,msgId=0A801F6700002A9F00000047FED4ED9F,queueId=3,offset=185,brokerName=broker-master1
send all message ok. total=20
```

consumer1的消费记录：

```
3456 consumer started ...
instanceName=3456,queueId=2,msgId=0A801F6700002A9F00000047FED4E8F8, success=1, body=data2,storeHost=/10.128.31.103:10911
instanceName=3456,queueId=3,msgId=0A801F6700002A9F00000047FED4E97C, success=2, body=data3,storeHost=/10.128.31.103:10911
instanceName=3456,queueId=2,msgId=0A801F6700002A9F00000047FED4ED1A, success=3, body=data18,storeHost=/10.128.31.103:10911
instanceName=3456,queueId=3,msgId=0A801F6700002A9F00000047FED4ED9F, success=4, body=data19,storeHost=/10.128.31.103:10911
|
```

consumer2的消费记录：

```
8900 consumer started ...
instanceName=8900,queueId=4,msgId=0A801F6800002A9F00000046C7D0678C, success=1, body=data12,storeHost=/10.128.31.104:10911
instanceName=8900,queueId=5,msgId=0A801F6800002A9F00000046C7D06811, success=2, body=data13,storeHost=/10.128.31.104:10911
|
```

consumer3的消费记录：

```
20:05:27.993 [MettyClientSelector_1] DEBUG io.metty.util.internal.Cleaner - java.nio.ByteBuffer.Cleaner(): available
6976 consumer started ...
instanceName=6976,queueId=0,msgId=0A801F6800002A9F00000046C7D0657A, success=1, body=data8,storeHost=/10.128.31.104:10911
instanceName=6976,queueId=1,msgId=0A801F6800002A9F00000046C7D065FE, success=2, body=data9,storeHost=/10.128.31.104:10911
|
```

consumer4的消费记录：

```
8716 consumer started ...
instanceName=8716,queueId=2,msgId=0A801F6800002A9F00000046C7D06682, success=1, body=data10,storeHost=/10.128.31.104:10911
instanceName=8716,queueId=3,msgId=0A801F6800002A9F00000046C7D06707, success=2, body=data11,storeHost=/10.128.31.104:10911
|
```

consumer5的消费记录：

```
8912 consumer started ...
instanceName=8912,queueId=6,msgId=0A801F6800002A9F00000046C7D06896, success=1, body=data14,storeHost=/10.128.31.104:10911
instanceName=8912,queueId=7,msgId=0A801F6800002A9F00000046C7D0691B, success=2, body=data15,storeHost=/10.128.31.104:10911
|
```

consumer6的消费记录：

```
5688 consumer started ...
instanceName=5688,queueId=8,msgId=0A801F6700002A9F00000047FED4F13C, success=1, body=data6,storeHost=/10.128.31.103:10911
instanceName=5688,queueId=7,msgId=0A801F6700002A9F00000047FED4F1C0, success=2, body=data7,storeHost=/10.128.31.103:10911
|
```

consumer7的消费记录：

```
2340 consumer started ...
instanceName=2340,queueId=0,msgId=0A801F6700002A9F00000047FED4EE24, success=1, body=data0,storeHost=/10.128.31.103:10911
instanceName=2340,queueId=1,msgId=0A801F6700002A9F00000047FED4EEA8, success=2, body=data1,storeHost=/10.128.31.103:10911
instanceName=2340,queueId=0,msgId=0A801F6700002A9F00000047FED4F244, success=3, body=data16,storeHost=/10.128.31.103:10911
instanceName=2340,queueId=1,msgId=0A801F6700002A9F00000047FED4F2C9, success=4, body=data17,storeHost=/10.128.31.103:10911
```

consumer8的消费记录：

```
8096 consumer started ...
instanceName=8096,queueId=0,msgId=0A801F6800002A9F00000046C7D069A0, success=1, body=data8,storeHost=/10.128.31.104:10911
instanceName=8096,queueId=1,msgId=0A801F6800002A9F00000046C7D06A24, success=2, body=data9,storeHost=/10.128.31.104:10911
```

第三组，总发送条数20条

队列数量	Consumer数量	Reblance结果 (期望)	Reblance结果 (实际)	Master机器	消费条数	
Master1	Master2					
8	4	C1：4	C1：4	4	0	8
C2：4	C2：4	4	0	4		
C3：4	C3：4	0	4	4		
C4：4	C4：4	0	4	4		

8个consumer消费消息总条数：8+3+3+3+3 = 20条

2台master机器，每个topic有8个队列， 期望的队列个数 2*8=16个，实际的队列个数 4+4+4+4 = 16个，可以看出期望、实际的queue分布是相同的结果。

8个consumer消费消息总条数：8+4+4+4 = 20条

producer的发送记录：

```
send ok. index=13,msgId=0A801F6800002A9F00000046C96AB4E3,queueId=5,offset=16,brokerName=broker-master2
send ok. index=14,msgId=0A801F6800002A9F00000046C96AB568,queueId=6,offset=16,brokerName=broker-master2
send ok. index=15,msgId=0A801F6800002A9F00000046C96AB5ED,queueId=7,offset=16,brokerName=broker-master2
send ok. index=16,msgId=0A801F6700002A9F00000048007168EC,queueId=0,offset=190,brokerName=broker-master1
send ok. index=17,msgId=0A801F6700002A9F0000004800716971,queueId=1,offset=188,brokerName=broker-master1
send ok. index=18,msgId=0A801F6700002A9F00000048007169F6,queueId=2,offset=189,brokerName=broker-master1
send ok. index=19,msgId=0A801F6700002A9F0000004800716A7B,queueId=3,offset=189,brokerName=broker-master1
send all message ok. total=20
```

consumer1的消费记录：

```
6940 consumer started ...
instanceName=6940,queueId=0,msgId=0A801F6700002A9F00000048007164CC, success=1, body=data0,storeHost=/10.128.31.103:10911
instanceName=6940,queueId=1,msgId=0A801F6700002A9F0000004800716550, success=2, body=data1,storeHost=/10.128.31.103:10911
instanceName=6940,queueId=2,msgId=0A801F6700002A9F00000048007165D4, success=3, body=data2,storeHost=/10.128.31.103:10911
instanceName=6940,queueId=3,msgId=0A801F6700002A9F0000004800716658, success=4, body=data3,storeHost=/10.128.31.103:10911
instanceName=6940,queueId=0,msgId=0A801F6700002A9F00000048007168EC, success=5, body=data16,storeHost=/10.128.31.103:10911
instanceName=6940,queueId=1,msgId=0A801F6700002A9F0000004800716971, success=6, body=data17,storeHost=/10.128.31.103:10911
instanceName=6940,queueId=2,msgId=0A801F6700002A9F00000048007169F6, success=7, body=data18,storeHost=/10.128.31.103:10911
instanceName=6940,queueId=3,msgId=0A801F6700002A9F0000004800716A7B, success=8, body=data19,storeHost=/10.128.31.103:10911
```

consumer2的消费记录：

```
7432 consumer started ...
instanceName=7432,queueId=4,msgId=0A801F6700002A9F00000048007166DC, success=1, body=data4,storeHost=/10.128.31.103:10911
instanceName=7432,queueId=5,msgId=0A801F6700002A9F0000004800716760, success=2, body=data5,storeHost=/10.128.31.103:10911
instanceName=7432,queueId=6,msgId=0A801F6700002A9F00000048007167E4, success=3, body=data6,storeHost=/10.128.31.103:10911
instanceName=7432,queueId=7,msgId=0A801F6700002A9F0000004800716868, success=4, body=data7,storeHost=/10.128.31.103:10911
```

consumer3的消费记录：

```
9544 consumer started ...
instanceName=9544,queueId=4,msgId=0A801F6800002A9F00000046C96AB24C, success=1, body=data8,storeHost=/10.128.31.104:10911
instanceName=9544,queueId=1,msgId=0A801F6800002A9F00000046C96AB2D0, success=2, body=data9,storeHost=/10.128.31.104:10911
instanceName=9544,queueId=2,msgId=0A801F6800002A9F00000046C96AB354, success=3, body=data10,storeHost=/10.128.31.104:10911
instanceName=9544,queueId=3,msgId=0A801F6800002A9F00000046C96AB3D9, success=4, body=data11,storeHost=/10.128.31.104:10911
```

consumer4的消费记录：

```
9780 consumer started ...
instanceName=9780,queueId=4,msgId=0A801F6800002A9F00000046C96AB45E, success=1, body=data12,storeHost=/10.128.31.104:10911
instanceName=9780,queueId=5,msgId=0A801F6800002A9F00000046C96AB4E3, success=2, body=data13,storeHost=/10.128.31.104:10911
instanceName=9780,queueId=6,msgId=0A801F6800002A9F00000046C96AB568, success=3, body=data14,storeHost=/10.128.31.104:10911
instanceName=9780,queueId=7,msgId=0A801F6800002A9F00000046C96AB5ED, success=4, body=data15,storeHost=/10.128.31.104:10911
```

第四组，总发送条数20条

队列数量	Consumer数量	Reblance结果 (期望)	Reblance结果 (实际)	Master机器	消费条数	
Master1	Master2					
4	8	C1：1	C1：1	1	0	3
C2：1	C2：1	1	0	3		
C3：1	C3：1	0	1	2		
C4：1	C4：1	0	1	2		
C5：1	C5：1	0	1	2		
C6：1	C6：1	0	1	2		
C7：1	C7：1	1	0	3		
C8：1	C8：1	1	0	3		

8个consumer消费消息总条数：8+3+3+3+3 = 20条

2台master机器，每个topic有8个队列，期望的队列个数 2*4=8个，实际的队列个数 1+1+1+1+1+1+1+1= 8个，可以看出期望、实际的queue分布是相同的结果。

8个consumer消费消息总条数：3+3+2+2+2+3+3 = 20条

producer的发送记录：

```
send ok. index=15,msgId=0A801F6800002A9F00000046C96ABA11,queueId=3,offset=175,brokerName=broker-master2
send ok. index=16,msgId=0A801F6700002A9F0000004800716F22,queueId=0,offset=193,brokerName=broker-master1
send ok. index=17,msgId=0A801F6700002A9F0000004800716FA7,queueId=1,offset=191,brokerName=broker-master1
send ok. index=18,msgId=0A801F6700002A9F000000480071702C,queueId=2,offset=192,brokerName=broker-master1
send ok. index=19,msgId=0A801F6700002A9F00000048007170B1,queueId=3,offset=192,brokerName=broker-master1
send all message ok. total=20
```

consumer1的消费记录：

```
6516 consumer started ...
instanceName=6516, queueId=1, msgId=0A801F6700002A9F0000004800716B84, success=1, body=data1, storeHost=/10.128.31.103:10911
instanceName=6516, queueId=1, msgId=0A801F6700002A9F0000004800716D94, success=2, body=data9, storeHost=/10.128.31.103:10911
instanceName=6516, queueId=1, msgId=0A801F6700002A9F0000004800716FA7, success=3, body=data17, storeHost=/10.128.31.103:10911
```

consumer2的消费记录：

```
5876 consumer started ...
instanceName=5876, queueId=0, msgId=0A801F6700002A9F0000004800716B00, success=1, body=data0, storeHost=/10.128.31.103:10911
instanceName=5876, queueId=0, msgId=0A801F6700002A9F0000004800716D10, success=2, body=data8, storeHost=/10.128.31.103:10911
instanceName=5876, queueId=0, msgId=0A801F6700002A9F0000004800716F22, success=3, body=data16, storeHost=/10.128.31.103:10911
```

consumer3的消费记录：

```
7240 consumer started ...
instanceName=7240, queueId=0, msgId=0A801F6800002A9F00000046C96AB672, success=1, body=data4, storeHost=/10.128.31.104:10911
instanceName=7240, queueId=0, msgId=0A801F6800002A9F00000046C96AB882, success=2, body=data12, storeHost=/10.128.31.104:10911
```

consumer4的消费记录：

```
8856 consumer started ...
instanceName=8856, queueId=3, msgId=0A801F6800002A9F00000046C96AB7FE, success=1, body=data7, storeHost=/10.128.31.104:10911
instanceName=8856, queueId=3, msgId=0A801F6800002A9F00000046C96ABA11, success=2, body=data15, storeHost=/10.128.31.104:10911
```

consumer5的消费记录：

```
6516 consumer started ...
instanceName=6516, queueId=1, msgId=0A801F6700002A9F0000004800716B84, success=1, body=data1, storeHost=/10.128.31.103:10911
instanceName=6516, queueId=1, msgId=0A801F6700002A9F0000004800716D94, success=2, body=data9, storeHost=/10.128.31.103:10911
instanceName=6516, queueId=1, msgId=0A801F6700002A9F0000004800716FA7, success=3, body=data17, storeHost=/10.128.31.103:10911
```

consumer6的消费记录：

```
5876 consumer started ...
instanceName=5876, queueId=0, msgId=0A801F6700002A9F0000004800716B00, success=1, body=data0, storeHost=/10.128.31.103:10911
instanceName=5876, queueId=0, msgId=0A801F6700002A9F0000004800716D10, success=2, body=data8, storeHost=/10.128.31.103:10911
instanceName=5876, queueId=0, msgId=0A801F6700002A9F0000004800716F22, success=3, body=data16, storeHost=/10.128.31.103:10911
```

consumer7的消费记录：

```
7240 consumer started ...
instanceName=7240, queueId=0, msgId=0A801F6800002A9F00000046C96AB672, success=1, body=data4, storeHost=/10.128.31.104:10911
instanceName=7240, queueId=0, msgId=0A801F6800002A9F00000046C96AB882, success=2, body=data12, storeHost=/10.128.31.104:10911
```

consumer8的消费记录：

```
8856 consumer started ...
instanceName=8856, queueId=3, msgId=0A801F6800002A9F00000046C96AB7FE, success=1, body=data7, storeHost=/10.128.31.104:10911
instanceName=8856, queueId=3, msgId=0A801F6800002A9F00000046C96ABA11, success=2, body=data15, storeHost=/10.128.31.104:10911
```

第五组，总发送条数20条

队列数量	Consumer数量	Reblance结果 (期望)	Reblance结果 (实际)	Master机器	消费条数

Master1	Master2					
3	7	C1 : 1	C1 : 1	0	1	3
C2 : 1	C2 : 1	1	0	4		
C3 : 1	C3 : 1	0	1	3		
C4 : 1	C4 : 1	1	0	3		
C5 : 1	C5 : 1	1	0	4		
C6 : 1	C6 : 1	0	1	3		
C7 : 0	C7 : 0	0	0	0		

8个consumer消费消息总条数：8+3+3+3+3 = 20条

2台master机器，每个topic有8个队列，期望的队列个数 2*3=6个，实际的队列个数 1+1+1+1+1+1+0 = 6个，可以看出期望、实际的queue分布是相同的结果。

8个consumer消费消息总条数：3+4+3+3+4+3+0 = 20条

```
producer的发送记录：

send ok. index=15,msgId=0A801F6800002A9F00000046C96ABA11,queueId=3,offset=175,brokerName=broker-master2
send ok. index=16,msgId=0A801F6700002A9F0000004800716F22,queueId=0,offset=193,brokerName=broker-master1
send ok. index=17,msgId=0A801F6700002A9F0000004800716FA7,queueId=1,offset=191,brokerName=broker-master1
send ok. index=18,msgId=0A801F6700002A9F000000480071702C,queueId=2,offset=192,brokerName=broker-master1
send ok. index=19,msgId=0A801F6700002A9F00000048007170B1,queueId=3,offset=192,brokerName=broker-master1
send all message ok. total=20
```

```
consumer1的消费记录：

6864 consumer started ...
instanceName=6864,queueId=2,msgId=0A801F6800002A9F00000046C96ACE23, success=1, body=data5,storeHost=/10.128.31.104:10911
instanceName=6864,queueId=2,msgId=0A801F6800002A9F00000046C96ACFB0, success=2, body=data11,storeHost=/10.128.31.104:10911
instanceName=6864,queueId=2,msgId=0A801F6800002A9F00000046C96AD13F, success=3, body=data17,storeHost=/10.128.31.104:10911
```

```
consumer2的消费记录：

10120 consumer started ...
instanceName=10120,queueId=0,msgId=0A801F6700002A9F000000480071806A, success=1, body=data0,storeHost=/10.128.31.103:10911
instanceName=10120,queueId=0,msgId=0A801F6700002A9F00000048007181F6, success=2, body=data6,storeHost=/10.128.31.103:10911
instanceName=10120,queueId=0,msgId=0A801F6700002A9F0000004800718382, success=3, body=data12,storeHost=/10.128.31.103:10911
instanceName=10120,queueId=0,msgId=0A801F6700002A9F0000004800718511, success=4, body=data18,storeHost=/10.128.31.103:10911
```

```
consumer3的消费记录：

4340 consumer started ...
instanceName=4340,queueId=0,msgId=0A801F6800002A9F00000046C96ACD1E, success=1, body=data3,storeHost=/10.128.31.104:10911
instanceName=4340,queueId=0,msgId=0A801F6800002A9F00000046C96ACEA7, success=2, body=data9,storeHost=/10.128.31.104:10911
instanceName=4340,queueId=0,msgId=0A801F6800002A9F00000046C96AD035, success=3, body=data15,storeHost=/10.128.31.104:10911
```

```
consumer4的消费记录：

11248 consumer started ...
instanceName=11248,queueId=2,msgId=0A801F6700002A9F0000004800718172, success=1, body=data2,storeHost=/10.128.31.103:10911
instanceName=11248,queueId=2,msgId=0A801F6700002A9F00000048007182FE, success=2, body=data8,storeHost=/10.128.31.103:10911
instanceName=11248,queueId=2,msgId=0A801F6700002A9F000000480071848C, success=3, body=data14,storeHost=/10.128.31.103:10911
```

consumer5的消费记录：

```
10256 consumer started ...
instanceName=10256,queueId=1,msgId=0A801F6700002A9F00000048007180EE, success=1, body=data1,storeHost=/10.128.31.103:10911
instanceName=10256,queueId=1,msgId=0A801F6700002A9F000000480071827A, success=2, body=data7,storeHost=/10.128.31.103:10911
instanceName=10256,queueId=1,msgId=0A801F6700002A9F0000004800718407, success=3, body=data13,storeHost=/10.128.31.103:10911
instanceName=10256,queueId=1,msgId=0A801F6700002A9F0000004800718596, success=4, body=data19,storeHost=/10.128.31.103:10911
```

consumer6的消费记录：

```
4748 consumer started ...
instanceName=4748,queueId=1,msgId=0A801F6800002A9F00000046C96ACD9F, success=1, body=data4,storeHost=/10.128.31.104:10911
instanceName=4748,queueId=1,msgId=0A801F6800002A9F00000046C96ACF2B, success=2, body=data10,storeHost=/10.128.31.104:10911
instanceName=4748,queueId=1,msgId=0A801F6800002A9F00000046C96AD0BA, success=3, body=data16,storeHost=/10.128.31.104:10911
```

consumer7的消费记录：

```
9328 consumer started ...
```

二 评测结果

- 1、rocketmq集群消费模式，订阅消息的确达到了队列负载均衡，与这种负载均衡消费相关的因素有：master 机器个数、特定topic的queue个数，这两个数值相乘，才是rocketmq最终计算队列的总数。
- 2、rocketmq的集群消费能力，保证消息准确性，完整性，所有被消费的消息总数与producer端发送的消息总数是一致的，不存在消息丢弃的情况。
- 3、分析consumer消费日志，说明每条消息在相同consumerGroup组的不同consumer端中仅仅只会被消费一次。
- 4、在集群消费模式下，如果consumer的总数，超过了队列总数，那么多余的consumer端将不能消费消息。

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
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
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