

# MQ 消息堆积原因分析

部署情况

酒仙桥机房			亦庄机房		
hostname	ip	角色	hostname	ip	角色
namesrv-jxq-1	100.73.14.170	nginx-namesrv/broker-01-logserver	namesrv-yz-1	100.73.14.180	nginx-namesrv/broker-02-logserver
namesrv-jxq-2	100.73.14.171	nginx-mqagent	namesrv-yz-2	100.73.14.181	nginx-mqagent
namesrv-jxq-1	100.73.14.170	namesrv	namesrv-yz-1	100.73.14.180	namesrv
namesrv-jxq-2	100.73.14.171	namesrv	namesrv-yz-2	100.73.14.181	namesrv
	100.73.14.172	broker-01-master		100.73.14.184	broker-01-slave
	100.73.14.173	broker-01-slave		100.73.14.185	broker-01-slave
	100.73.14.174	broker-02-slave		100.73.14.182	broker-02-master
	100.73.14.175	broker-02-slave		100.73.14.183	broker-02-slave

晓月机房消息堆积

<div>root@NameServer-YZ-2:/data/dingcloud-antmq/bin</div> <table><tr><th>#Topic</th><th>#Consumer</th><th>Offset</th><th>#Diff</th><th>#Broker</th><th>Name</th></tr><tr><td>fset</td><td>%RETRY%BenchmarkGroup</td><td>-1</td><td>0</td><td>0</td><td>-1</td></tr><tr><td>T_fuqx_test</td><td>691591</td><td>1</td><td>XY-broker-02</td><td>0</td><td>691592</td></tr><tr><td>T_fuqx_test</td><td>691587</td><td>1</td><td>XY-broker-02</td><td>1</td><td>691588</td></tr><tr><td>T_fuqx_test</td><td>691587</td><td>0</td><td>XY-broker-02</td><td>2</td><td>691587</td></tr><tr><td>T_fuqx_test</td><td>691586</td><td>1</td><td>XY-broker-02</td><td>3</td><td>691587</td></tr><tr><td>T_fuqx_test</td><td>118372</td><td>1</td><td>XY-broker-02</td><td>4</td><td>118373</td></tr><tr><td>T_fuqx_test</td><td>118372</td><td>1</td><td>XY-broker-02</td><td>5</td><td>118373</td></tr><tr><td>T_fuqx_test</td><td>118371</td><td>1</td><td>XY-broker-02</td><td>6</td><td>118372</td></tr><tr><td>T_fuqx_test</td><td>118371</td><td>1</td><td>XY-broker-02</td><td>7</td><td>118372</td></tr></table> <div>Consume TPS: 2521.0 Diff Total: 7 [root@NameServer-YZ-2 bin]#</div>						#Topic	#Consumer	Offset	#Diff	#Broker	Name	fset	%RETRY%BenchmarkGroup	-1	0	0	-1	T_fuqx_test	691591	1	XY-broker-02	0	691592	T_fuqx_test	691587	1	XY-broker-02	1	691588	T_fuqx_test	691587	0	XY-broker-02	2	691587	T_fuqx_test	691586	1	XY-broker-02	3	691587	T_fuqx_test	118372	1	XY-broker-02	4	118373	T_fuqx_test	118372	1	XY-broker-02	5	118373	T_fuqx_test	118371	1	XY-broker-02	6	118372	T_fuqx_test	118371	1	XY-broker-02	7	118372
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T_fuqx_test	693686	2	XY-broker-01	3	693688																																																												
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T_fuqx_test	51954	67124	XY-broker-01	7	119078																																																												

查看consumerstatus

```
[root@NameServer-YZ-2 bin]# cat 1712043517454/*188
#Consumer Properties#
adjustThreadPoolNumsThreshold      : 100000
unitMode                          : false
consumerGroup                     : BenchmarkGroup
messageModel                       : CLUSTERING
allocateMessageQueueStrategy       : com.jiedaibao.antmq.client.consumer.rebalance.AllocateMessageQueueAveragely@2106b899
PROP_CLIENT_VERSION                : ANTMQ1_3_10
consumeConcurrentlyMaxSpan         : 2000
postSubscriptionWhenPull           : false
consumeTimestamp                   : 20240402150052
PROP_CONSUME_TYPE                  : CONSUME_PASSIVELY
consumeMessageBatchMaxSize         : 1
defaultMQPushConsumerImpl         : com.jiedaibao.antmq.client.impl.consumer.DefaultMQPushConsumerImpl@6cb80a0e
PROP_THREADPOOL_CORE_SIZE          : 1
pullThresholdForQueue              : 1000
consumeFromWhere                   : CONSUME_FROM_FIRST_OFFSET
pullInterval                       : 0
PROP_NAMESERVER_ADDR               : 100.73.14.180:9876;100.73.14.181:9876;
pullBatchSize                      : 32
consumeThreadMin                   : 1
PROP_CONSUMER_START_TIMESTAMP      : 1712043052781
consumeThreadMax                   : 1
subscription                       : {}
PROP_CONSUMEORDERLY                : false
messageListener                    : com.jiedaibao.antmq.example.benchmark.ConsumerBenchmark$2@5492e6bf
```

```
#Consumer Subscription#
001 Topic: %RETRY%BenchmarkGroup      ClassFilter: false    SubExpression: *
002 Topic: T_fuqx_test                 ClassFilter: false    SubExpression: *
```

```
#Consumer Offset#
#Topic                                #Broker Name          #QID #Consumer Offset
%RETRY%BenchmarkGroup                XY-broker-02          0    -1
T_fuqx_test                           XY-broker-02          0    706194
T_fuqx_test                           XY-broker-02          1    706189
T_fuqx_test                           XY-broker-02          2    706188
T_fuqx_test                           XY-broker-02          3    706188
T_fuqx_test                           XY-broker-02          4    132974
T_fuqx_test                           XY-broker-02          5    132974
T_fuqx_test                           XY-broker-02          6    132974
T_fuqx_test                           XY-broker-02          7    132974
```

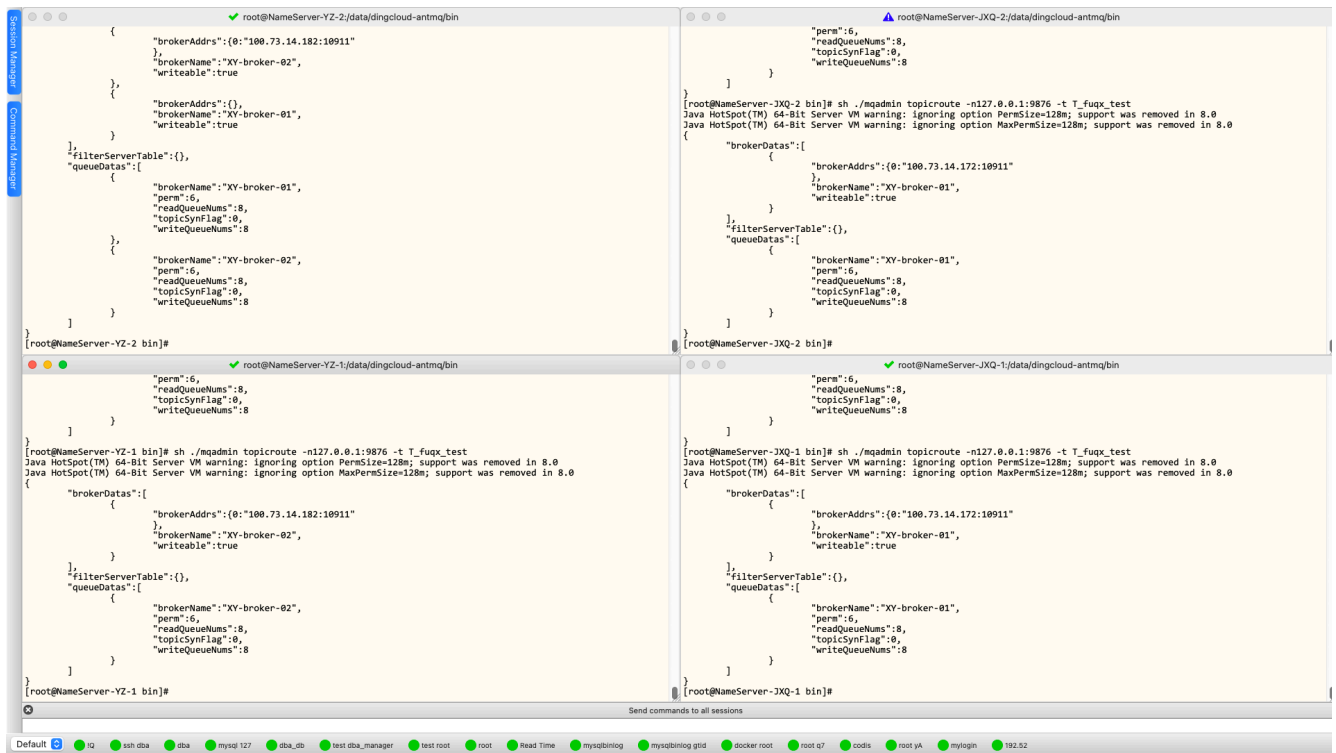
```
[root@NameServer-YZ-2 bin]# cat 1712043517454/*189
#Consumer Properties#
adjustThreadPoolNumsThreshold      : 100000
unitMode                          : false
consumerGroup                     : BenchmarkGroup
messageModel                       : CLUSTERING
allocateMessageQueueStrategy       : com.jiedaibao.antmq.client.consumer.rebalance.AllocateMessageQueueAveragely@7de9c9ca
PROP_CLIENT_VERSION                : ANTMQ1_3_10
consumeConcurrentlyMaxSpan         : 2000
postSubscriptionWhenPull           : false
consumeTimestamp                   : 20240402150052
PROP_CONSUME_TYPE                  : CONSUME_PASSIVELY
consumeMessageBatchMaxSize         : 1
defaultMQPushConsumerImpl         : com.jiedaibao.antmq.client.impl.consumer.DefaultMQPushConsumerImpl@194bb573
PROP_THREADPOOL_CORE_SIZE          : 1
pullThresholdForQueue              : 1000
consumeFromWhere                   : CONSUME_FROM_FIRST_OFFSET
pullInterval                       : 0
PROP_NAMESERVER_ADDR               : 100.73.14.180:9876;100.73.14.181:9876;
pullBatchSize                      : 32
consumeThreadMin                   : 1
PROP_CONSUMER_START_TIMESTAMP      : 1712043052760
consumeThreadMax                   : 1
subscription                       : {}
PROP_CONSUMEORDERLY                : false
messageListener                    : com.jiedaibao.antmq.example.benchmark.ConsumerBenchmark$2@5e4df4c2
```

```
#Consumer Subscription#
001 Topic: %RETRY%BenchmarkGroup      ClassFilter: false    SubExpression: *
002 Topic: T_fuqx_test                 ClassFilter: false    SubExpression: *
```

```
#Consumer Offset#
#Topic                                #Broker Name          #QID #Consumer Offset
T_fuqx_test                           XY-broker-01          4    51957
T_fuqx_test                           XY-broker-01          5    51957
T_fuqx_test                           XY-broker-01          6    51957
T_fuqx_test                           XY-broker-01          7    51956
```

```
#Consumer MQ Detail#
#Topic                                #Broker Name          #QID #ProcessQueueInfo
T_fuqx_test                           XY-broker-01          4    ProcessQueueInfo [commitOffset=51957, cachedMsgMinOffset=0, cachedMsgMaxOffset=0, cachedMsgCount=0, transactionMsgMinOffset=0, transactionMsgMaxOffset=0, transactionMsgC
unt=0, locked=false, tryUnlockTimes=0, lastLockTimestamp=20240402153053341, dropped=false, lastPullTimestamp=2024040215385438, lastConsumeTimestamp=20240402153423260]
T_fuqx_test                           XY-broker-01          5    ProcessQueueInfo [commitOffset=51957, cachedMsgMinOffset=0, cachedMsgMaxOffset=0, cachedMsgCount=0, transactionMsgMinOffset=0, transactionMsgMaxOffset=0, transactionMsgC
unt=0, locked=false, tryUnlockTimes=0, lastLockTimestamp=20240402153053350, dropped=false, lastPullTimestamp=2024040215385438, lastConsumeTimestamp=20240402153423261]
T_fuqx_test                           XY-broker-01          6    ProcessQueueInfo [commitOffset=51957, cachedMsgMinOffset=0, cachedMsgMaxOffset=0, cachedMsgCount=0, transactionMsgMinOffset=0, transactionMsgMaxOffset=0, transactionMsgC
unt=0, locked=false, tryUnlockTimes=0, lastLockTimestamp=20240402153053348, dropped=false, lastPullTimestamp=2024040215385443, lastConsumeTimestamp=20240402153423261]
T_fuqx_test                           XY-broker-01          7    ProcessQueueInfo [commitOffset=51956, cachedMsgMinOffset=0, cachedMsgMaxOffset=0, cachedMsgCount=0, transactionMsgMinOffset=0, transactionMsgMaxOffset=0, transactionMsgC
unt=0, locked=false, tryUnlockTimes=0, lastLockTimestamp=20240402153053351, dropped=false, lastPullTimestamp=2024040215385436, lastConsumeTimestamp=20240402153423260]
```

查看topicroute , 发现topic



查看consumerconnection

消费组重新平衡代码调用流程

启动时注册rebalanceService

在 rebalanceService.run() 中调用

```
this.mqClientFactory.doRebalance();
```

Mq ClientInstance.doRebalance()

```
public void doRebalance() {
    for (String group : this.consumerTable.keySet()) {
        MQConsumerInner impl = this.consumerTable.get(group);
        if (impl != null) {
            try {
                impl.doRebalance();
            } catch (Exception e) {
                log.error("doRebalance exception", e);
            }
        }
    }
}
```

RebalanceImpl.doRebalance()

```
public void doRebalance() {
    Map<String, SubscriptionData> subTable = this.getSubscriptionInner();
    if (subTable != null) {
        for (final Entry<String, SubscriptionData> entry : subTable.entrySet()) {
            final String topic = entry.getKey();
            try {
                this.rebalanceByTopic(topic);
            } catch (Exception e) {
                if (!topic.startsWith(MixAll.RETRY_GROUP_TOPIC_PREFIX)) {
                    log.warn("rebalanceByTopic Exception", e);
                }
            }
        }
    }

    this.truncateMessageQueueNotMyTopic();
}
```

## RebalanceImpl.rebalanceByTopic()

```
private void rebalanceByTopic(final String topic) {
    switch (messageModel) {
        case BROADCASTING: {...}
        case CLUSTERING: {
            Set<MessageQueue> mqSet = this.topicSubscribeInfoTable.get(topic);
            List<String> cidAll = this.mqClientFactory.findConsumerIdList(topic, consumerGroup);
            if (null == mqSet) {...}

            if (null == cidAll) {...}

            if (mqSet != null && cidAll != null) {
                List<MessageQueue> mqAll = new ArrayList<>();
                mqAll.addAll(mqSet);

                Collections.sort(mqAll);
                Collections.sort(cidAll);

                AllocateMessageQueueStrategy strategy = this.allocateMessageQueueStrategy;

                List<MessageQueue> allocateResult = null;
                try {...} catch (Throwable e) {...}

                Set<MessageQueue> allocateResultSet = new HashSet<>();
                if (allocateResult != null) {
                    allocateResultSet.addAll(allocateResult);
                }

                boolean changed = this.updateProcessQueueTableInRebalance(topic, allocateResultSet);
                if (changed) {
                    log.info(
                        "rebalanced allocate source. allocateMessageQueueStrategyName={}, group={}, topic={}, mqAllSize={}, cidAllSize={}, mqAll={}, cidAll={}",
                        strategy.getName(), consumerGroup, topic, mqSet.size(), cidAll.size(), mqSet, cidAll);
                    log.info(
                        "rebalanced result changed. allocateMessageQueueStrategyName={}, group={}, topic={}, ConsumerId={}, rebalanceSize={}, rebalanceMqSet={}",
                        strategy.getName(), consumerGroup, topic, this.mqClientFactory.getClientId(),
                        allocateResultSet.size(), mqAll.size(), cidAll.size(), allocateResultSet);

                    this.messageQueueChanged(topic, mqSet, allocateResultSet);
                }
            }
        }
    }
    break;
}
```

为什么应用出现 找不到 broker-XX 报错？为什么 消费组无法自动平衡？

1. 角色为slave 的 broker 不允许读写，即 isSlaveHide = true。
2. 因为在原来的 RouteInfoManager 中，会先将 topic 队列信息放入 topic 路由数据中的队列信息数据
3. namesrv 和 broker 完全是 本机房对接本机房的，此时应用生产和消费都在本机房
  - a. 当 namesrv 信息是从 nginx 静态文件中获取，而静态文件中只有本机房的 namesrv，此时 broker 只 向本机房注册，
  - b. 而 当一个集群有两组 broker 时，而两组 broker 的 master 从 都在一个机房【idc2】变为 两个机房 一边一个，例如 broker01 的 master 在 idc1，broker02 的 master 在 idc2，
    - i. 此时 通过 namesrv 查询 clusterList 集群状态，
      1. idc1 的 broker 为：broker-01 的 master \*1 + broker-01 的 slave \*1 + broker-02 的 slave \*2
      2. idc2 的 broker 为：broker-01 的 slave \*2 + broker-02 的 master \*1 + broker-02 的 slave \*1
    - ii. 通过 idc2 的 namesrv 查询 topicRoute 获取 topic 路由信息，会出现如下情况

```
{
  "brokerAddrs": {"0": "100.73.14.182:10911"},
  "brokerName": "XY-broker-02",
  "writeable": true
},
{
  "brokerAddrs": {},
  "brokerName": "XY-broker-01",
  "writeable": true
}
},
"filterServerTable": {},
"queueDatas": [
  {
    "brokerName": "XY-broker-01",
    "perm": 6,
    "readQueueNums": 8,
    "topicSynFlag": 0,
    "writeQueueNums": 8
  },
  {
    "brokerName": "XY-broker-02",
    "perm": 6,
    "readQueueNums": 8,
    "topicSynFlag": 0,
    "writeQueueNums": 8
  }
]
}
```

可以看到 broker-01 的 broker 地址为空

iii.

```
↑ ↓ ↻ ← → Unified viewer Do not ignore Highlight words × ⚙ ?
df9daba0
db678891 (RouteInfoManager.java)
> Q- isSlaveHide 1/7 ↑ ↓ 🔍 ⋮

55 55 * @author Lixinwen
56 56 * @since 2013-7-2
57 57 */
58 58 public class RouteInfoManager {
59 59     private static final Logger log = LoggerFactory.getLogger(LoggerName.NamesrvLoggerName);
60 60     private final ReadWriteLock lock = new ReentrantReadWriteLock();
61 61     private final HashMap<String/* topic */, List<QueueData>> topicQueueTable;
62 62     private final HashMap<String/* brokerName */, BrokerData> brokerAddrTable;
63 63     private final HashMap<String, BrokerManageData> brokerManageAddrTable;
64 64     private final HashMap<String/* clusterName */, Set<String/* brokerName */>> clusterAddrTable;
65 65     private final HashMap<String/* brokerAddr */, BrokerLiveInfo> brokerLiveTable;
66 66     private final HashMap<String/* brokerAddr */, List<String>> filterServerTable;
67 67     // hide slave route
68 68     private volatile boolean isSlaveHide = true;
69 69
70 70     private final NamesrvController controller;
71 71
72 72     public RouteInfoManager(final NamesrvController controller) {
73 73         this.topicQueueTable = new HashMap<String, List<QueueData>>>(1024);
74 74         this.brokerAddrTable = new HashMap<String, BrokerData>(128);
75 75         this.brokerManageAddrTable = new HashMap<String, BrokerManageData>(128);
76 76         this.clusterAddrTable = new HashMap<String, Set<String>>(32);
77 77         this.brokerLiveTable = new HashMap<String, BrokerLiveInfo>(256);
78 78         this.filterServerTable = new HashMap<String, List<String>>(256);
79 79         this.controller = controller;
80 80     }
```

```
iShot (购买解锁去水印)
Do not ignore Highlight words
3 differences

db9daba0
db978891 (RouteInfoManager.java)

544 544 public TopicRouteData pickupTopicRouteData(final NIOConnection connection, final String topic) {
545 545     TopicRouteData topicRouteData = new TopicRouteData();
546 546     boolean foundQueueData = false;
547 547     boolean foundBrokerData = false;
548 548     Set<String> brokerNameSet = new HashSet<String>();
549 549     List<BrokerData> brokerDataList = new LinkedList<BrokerData>();
550 550     topicRouteData.setBrokerDatas(brokerDataList);
551 551
552 552     HashMap<String, List<String>> filterServerMap = new HashMap<String, List<String>>();
553 553     topicRouteData.setFilterServerTable(filterServerMap);
554 554
555 555     try {
556 556         try {
557 557             this.lock.readLock().lockInterruptibly();
558 558             List<QueueData> queueDataList = this.topicQueueTable.get(topic);
559 559             if (queueDataList != null) {
560 560                 topicRouteData.setQueueDatas(queueDataList);
561 561                 foundQueueData = true;
562 562                 // topicRouteData.setQueueDatas(queueDataList);
563 563                 foundQueueData = true;
564 564
565 565                 // BrokerName去重
566 566                 Iterator<QueueData> it = queueDataList.iterator();
567 567                 while (it.hasNext()) {
568 568                     QueueData qd = it.next();
569 569                     brokerNameSet.add(qd.getBrokerName());
570 570
571 571                 for (String brokerName : brokerNameSet) {
572 572                     BrokerData brokerData = this.brokerAddrTable.get(brokerName);
573 573                     if (null != brokerData) {
574 574                         BrokerData brokerDataClone = new BrokerData();
575 575                         brokerDataClone.setBrokerName(brokerData.getBrokerName());
576 576                         HashMap<Long, String> addrMapClone = new HashMap<Long, String>();
577 577
578 578                         // 如果客户端连接的是管理网，则返回管理网的broker地址
579 579                         connection, brokerName);
580 580                     }
581 581                     } else {
582 582                         addrMapClone.putAll(brokerData.getBrokerAddrs());
583 583                     }
584 584
585 585                     HashMap<Long, String> setMap = new HashMap<Long, String>();
586 586                     for (Long brokerId : addrMapClone.keySet()) {
587 587                         if (brokerId == MixAll.MASTER_ID) {
588 588                             setMap.put(brokerId, addrMapClone.get(brokerId));
589 589                         } else if (brokerId.equals(MixAll.LOGSERVER)) {
590 590                             // Log server always not seen
591 591                         } else if (!isSlaveHide) {
592 592                             setMap.put(brokerId, addrMapClone.get(brokerId));
593 593                         }
594 594                     }
595 595                     if (setMap.isEmpty()) {
596 596                         it = queueDataList.iterator();
597 597                         while (it.hasNext()) {
598 598                             QueueData queueData = it.next();
599 599                             if (queueData.getBrokerName().equals(brokerName)) {
600 600                                 log.warn(
601 601                                     "[unexpected] pickupTopicRouteData, the broker[{}] brokerAddrs not found", brokerName);
602 602                                 it.remove();
603 603                                 log.warn("removed queueData[{}] of broker [{}]", queueData, brokerName);
604 604                             }
605 605                         }
606 606                     }
607 607                     brokerDataClone.setBrokerAddrs(setMap);
608 608                     brokerDataList.add(brokerDataClone);
609 609                     foundBrokerData = true;
610 610
611 611                     // 增加Filter Server
612 612                     for (final String brokerAddr : brokerDataClone.getBrokerAddrs().values()) {
613 613                         List<String> filterServerList = this.filterServerTable.get(brokerAddr);
614 614                         filterServerMap.put(brokerAddr, filterServerList);
615 615                     }
616 616                 }
617 617             }
618 618             topicRouteData.setQueueDatas(queueDataList);
619 619             foundQueueData = true;
620 620
621 621         } finally {
622 622             this.lock.readLock().unlock();
623 623         }
624 624     } catch (Exception e) {
625 625         log.error("pickupTopicRouteData Exception", e);
626 626     }
627 627
628 628     if (log.isDebugEnabled()) {
629 629         log.debug("pickupTopicRouteData {} {}", topic, topicRouteData);
630 630     }
631 631
632 632     if (foundBrokerData && foundQueueData) {
633 633         return topicRouteData;
634 634     }
635 635
636 636     return null;
637 637 }
638 638 private boolean isManageNet(final NIOConnection connection) {
```