

## 版本問題！

- ## 基本邏輯

- ```
## 注意：現在 UAT 的 lab 機器有兩個版本的 Redis
$ /usr/local/redis-cluster/bin/redis-server -v
Redis server v=7.0.5 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=1fa39f349e85dde3
$ /usr/local/redis/bin/redis-server -v
Redis server v=5.0.9 sha=00000000:0 malloc=jemalloc-5.1.0 bits=64 build=841c5ada03fd9517
```

[illegible][illegible]

```
## b 站三服務都先脫離 Slave 的狀態
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname` -p 6378 -c -a newld20200909 2> /dev/null replicaof no one
OK
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname` -p 6380 -c -a newld20200909 2> /dev/null replicaof no one
OK
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname` -p 6382 -c -a newld20200909 2> /dev/null replicaof no one
OK

## 把 cluster-enabled no 修改為 cluster-enabled yes
$ vim /opt/centos/redis-6378.conf
$ vim /opt/centos/redis-6380.conf
$ vim /opt/centos/redis-6382.conf
```

```
## 重啟 b 站服務
## 關閉服務
netstat -nulp | grep -e :63 | awk '{print $7}' | awk -F '/' '{print $1}' | xargs kill

## 移除各 nodes 底下的配置文件 nodes.conf & 資料文件 dump.rdb & aof
mv /usr/local/redis-cluster/data/dump.rdb /usr/local/redis-cluster/data/dump.rdb.orig
mv /usr/local/redis-cluster/data/appendonly.aof /usr/local/redis-cluster/data/appendonly.aof.orig
mv /usr/local/redis-cluster/data/nodes-6378.conf /usr/local/redis-cluster/data/nodes-6378.conf.orig
mv /usr/local/redis-cluster/data/nodes-6380.conf /usr/local/redis-cluster/data/nodes-6380.conf.orig
mv /usr/local/redis-cluster/data/nodes-6382.conf /usr/local/redis-cluster/data/nodes-6382.conf.orig

## 啟動服務：Redis 5.0.9 的版本
/usr/local/redis/bin/redis-server /opt/centos/redis-6378.conf
/usr/local/redis/bin/redis-server /opt/centos/redis-6380.conf
/usr/local/redis/bin/redis-server /opt/centos/redis-6382.conf
```

情境二：源站全掛掉，vs-b 自成 cluster 2

```
M: ea29398c590af3c1a4e7a923120854dc5cc6f669 10.21.1.3:6380
  slots:[5461-10922] (5462 slots) master
[OK] All nodes agree about slots configuration.
>>> Check for open slots...
>>> Check slots coverage...
[OK] All 16384 slots covered.
```

```
## 把原本的 dump.rdb & appendonly.aof 放回
mv /usr/local/redis-cluster/data/dump.rdb.origin /usr/local/redis-cluster/data/dump.rdb
mv /usr/local/redis-cluster/data/appendonly.aof.origin /usr/local/redis-cluster/data/appendonly.aof

## 重啟 b 站服務
## 關閉服務
netstat -ntulp | grep -e :63 | awk '{print $7}' | awk -F '/' '{print $1}' | xargs kill
## 啟動服務: Redis 5.0.9 的版本
/usr/local/redis/bin/redis-server /opt/centos/redis-6378.conf
/usr/local/redis/bin/redis-server /opt/centos/redis-6380.conf
/usr/local/redis/bin/redis-server /opt/centos/redis-6382.conf
```

```
#### 先關閉源站 cluster 的所有服務
## 分別登入 10.21.1.120 & 10.21.1.121 & 10.21.1.122 執行

$ sudo su
$ sh /opt/centos/stop_redis_all.sh
停止服務中
已成功停止服務

## 確認相關 port 6377 & 6380 都已經關閉
$ netstat -ntulp | grep :63
tcp        0      0 0.0.0.0:6379          0.0.0.0:*             LISTEN     17753/./redis-serve
tcp6       0      0 :::6379              :::*                   LISTEN     17753/./redis-serve

## vs-b 的三個 instance 要脫離 slave 身分
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname` -p 6378 -c -a newld20200909 2> /dev/null replicaof no one
OK
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname` -p 6380 -c -a newld20200909 2> /dev/null replicaof no one
OK
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname` -p 6382 -c -a newld20200909 2> /dev/null replicaof no one
OK

## 進入 vs-b 各 instance, 修改 conf 檔案
## 主要是把 cluster-enabled yes 變成不是註解
$ vim /opt/centos/redis-6378.conf
$ vim /opt/centos/redis-6380.conf
$ vim /opt/centos/redis-6382.conf

## 停止 vs-b 各 instance 的服務
$ netstat -ntulp | grep -e :63 | awk '{print $7}' | awk -F '/' '{print $1}' | xargs kill
$ netstat -ntulp | grep -e :63
tcp        0      0 0.0.0.0:6379          0.0.0.0:*             LISTEN     1429/./redis-server
tcp6       0      0 :::6379              :::*                   LISTEN     1429/./redis-server

## 移除各 nodes 底下的配置文件 nodes.conf & 資料文件 dump.rdb
mv /usr/local/redis-cluster/data/dump.rdb /usr/local/redis-cluster/data/dump.rdb.origin
mv /usr/local/redis-cluster/data/nodes-6378.conf /usr/local/redis-cluster/data/nodes-6378.conf.origin
mv /usr/local/redis-cluster/data/nodes-6380.conf /usr/local/redis-cluster/data/nodes-6380.conf.origin
mv /usr/local/redis-cluster/data/nodes-6382.conf /usr/local/redis-cluster/data/nodes-6382.conf.origin

## 重啟 vs-b 各 instance 的服務
$ /usr/local/redis-cluster/bin/redis-server /opt/centos/redis-6378.conf
```

```
$ /usr/local/redis-cluster/bin/redis-server /opt/centos/redis-6380.conf
$ /usr/local/redis-cluster/bin/redis-server /opt/centos/redis-6382.conf
## 查看 vs-b 各 instance 的服務是否都順利啟動
$ netstat -nulp | grep -e :63
tcp        0      0 10.21.1.3:6378      0.0.0.0:*           LISTEN      23303/redis-server
tcp        0      0 10.21.1.3:6379      0.0.0.0:*           LISTEN      1429/./redis-server
tcp        0      0 10.21.1.3:6380      0.0.0.0:*           LISTEN      23315/redis-server
tcp        0      0 10.21.1.3:6382      0.0.0.0:*           LISTEN      23327/redis-server
tcp6       0      0 :::6379              :::*                LISTEN      1429/./redis-server
```

### 針對 vs-b 的三個 instance 建立 cluster

```
$ /usr/local/redis-cluster/bin/redis-cli --cluster create 10.21.1.3:6378 10.21.1.3:6380 10.21.1.3:6382 --cluster-replicas 0 -a newld2020090
```

## 進入任一 port 查看 cluster 狀態

```
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname` -p 6378 -c -a newld20200909 2> /dev/null cluster nodes
/usr/local/redis-cluster/bin/redis-cli -h `hostname` -p 6378 -c -a newld20200909 2> /dev/null cluster nodes
289cd799d35d8362a87c94057879bb111875e57a 10.21.1.3:6382@16382 slave fb7a8a516331499dc0cce6e754651192487a2692 0 1673584080000 15 connected
23a405fd0d07732e0117bb367f9e0b850ebfb14b 10.21.1.120:6377@16377 master, fail? - 1673584038779 1673584035853 16 disconnected 0-5461
6de8c57e166e6987e4f6473181d237c261ce41e5 10.21.1.3:6378@16378 myself, master - 0 1673584081000 0 connected [9940-<-b96b5dd558e7568f383aa4ab2
9cc6fcd015145cf8b8f81150bd58b4b8397e07e0 10.21.1.121:6380@16380 slave, fail? 23a405fd0d07732e0117bb367f9e0b850ebfb14b 1673584041800 16735840
959f6718cefd96214ec46025e835f9b405802983 10.21.1.3:6380@16380 slave b96b5dd558e7568f383aa4ab2fa625edac4bd020 0 1673584082088 17 connected
b96b5dd558e7568f383aa4ab2fa625edac4bd020 10.21.1.121:6377@16377 master, fail? - 1673584037772 1673584035853 17 disconnected 5462-10922
f7def362c61ae67a2025f8f820062c40d8061743 10.21.1.120:6380@16380 slave, fail? fb7a8a516331499dc0cce6e754651192487a2692 1673584043412 16735840
04349595dc7b856fd27a2c87d33c842cd506e1f2 10.21.1.122:6380@16380 slave, fail? b96b5dd558e7568f383aa4ab2fa625edac4bd020 1673584040793 16735840
fb7a8a516331499dc0cce6e754651192487a2692 10.21.1.122:6377@16377 master, fail? - 1673584042807 1673584035854 15 disconnected 10923-16383
```

## 脫離先前的 cluster

## 參考資料

redis主从同步，总是显示master\_link\_status:down的解决方法-阿里云开发者社区

查看了redis日志，发现日志里出现很多的“I/O error trying to sync with MASTER:connection lost” 百度了下，发现是客户-output-buffer-limit slave这个参数配置不当造成的。网上找到的相关说明：# 这个参数太小的话，错误日志会显示I/O error trying to sync withMASTER: connection lost # 这是说负责发数据给slave的客户，如果buffer超过

<https://developer.aliyun.com/article/503045>

