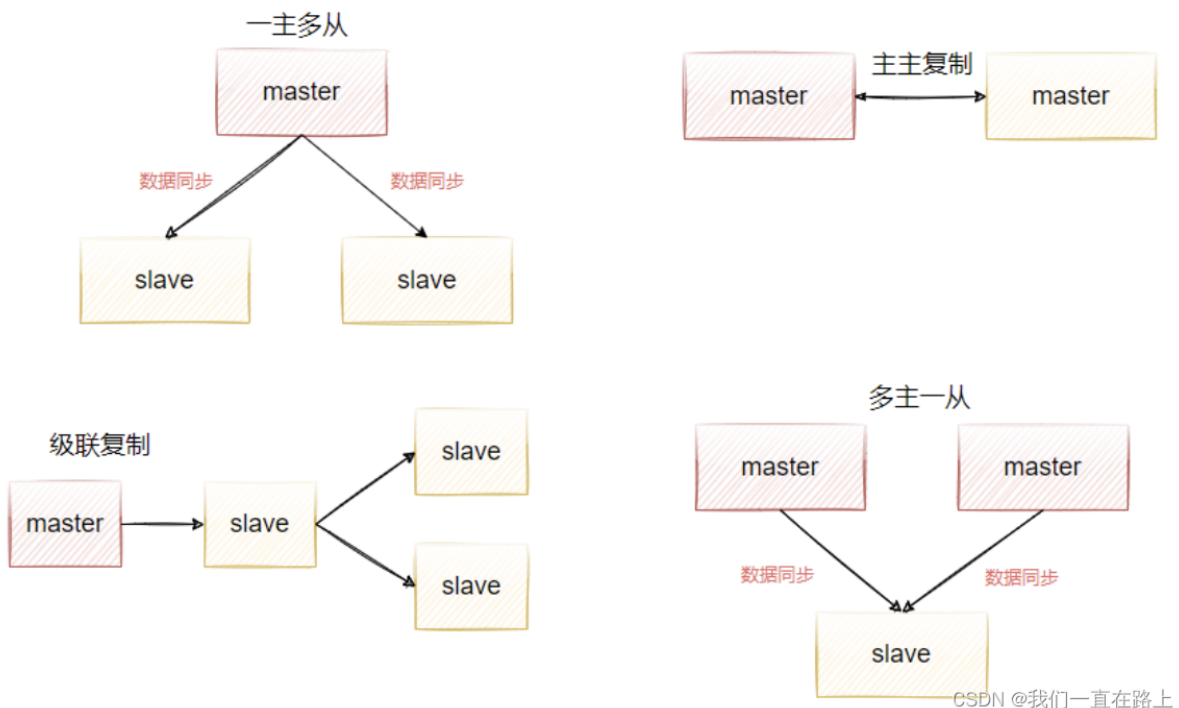


# 架構調整：從「一主多從」變為「級聯複製」

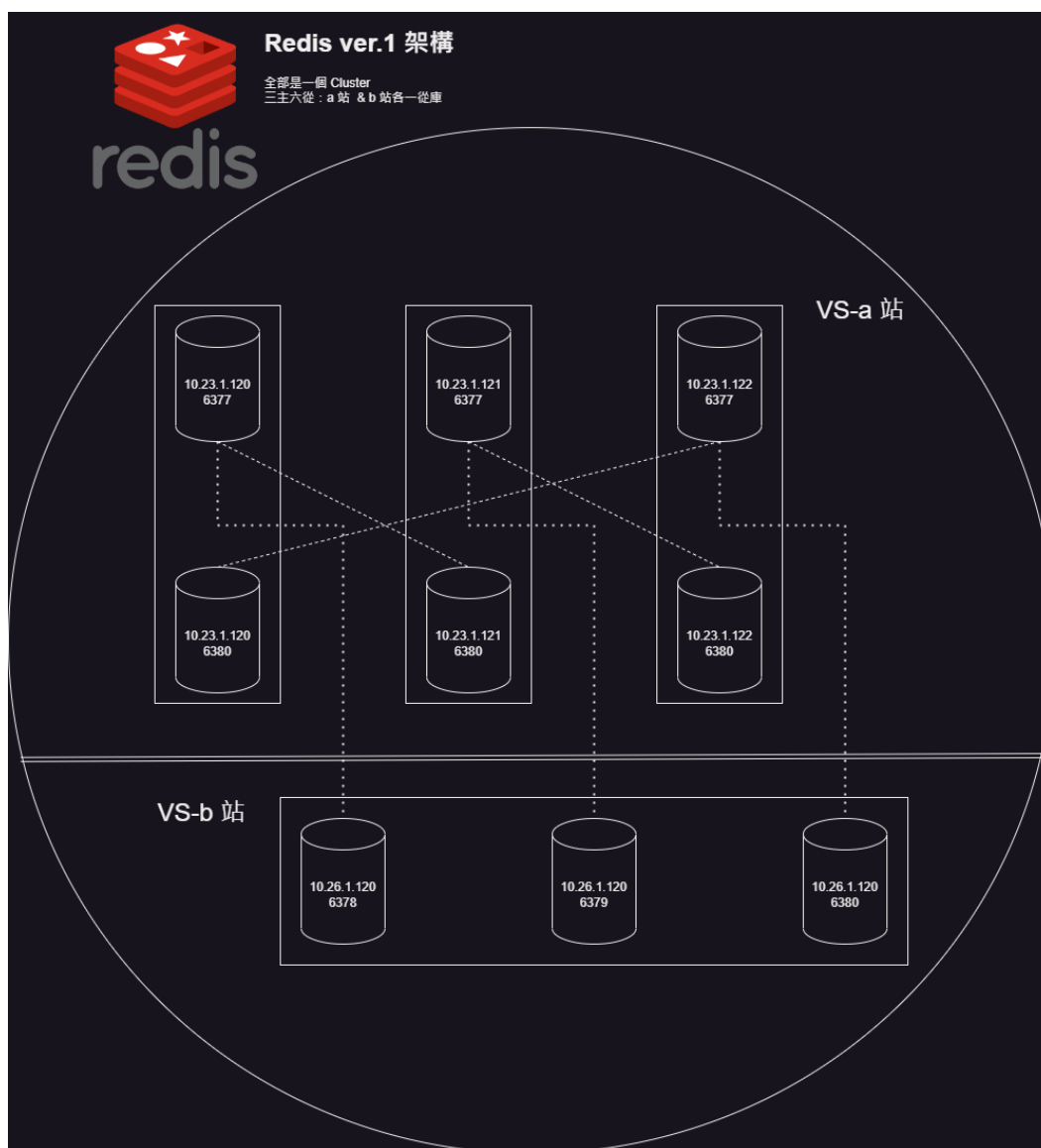


## UAT 實作細節

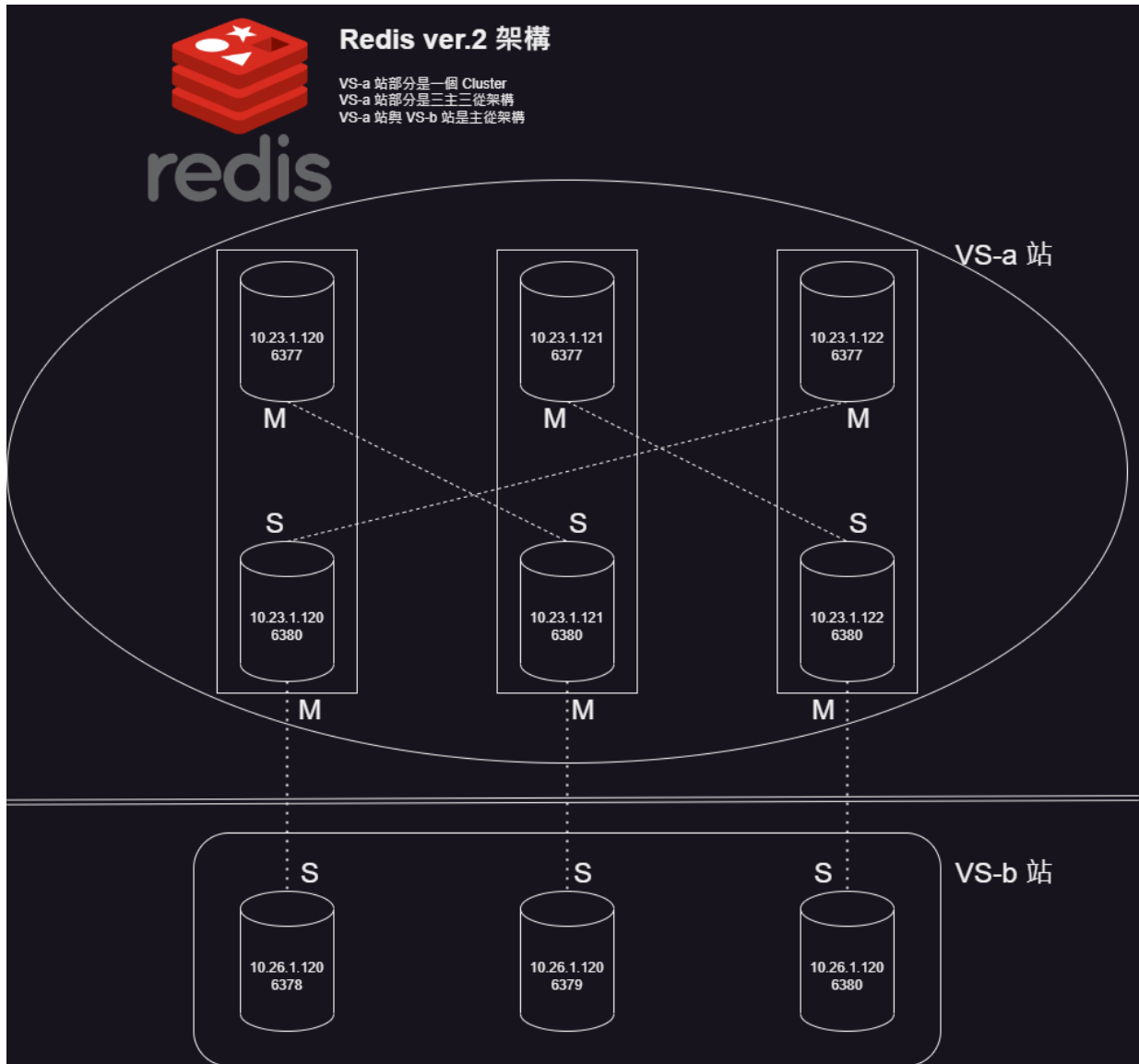
```
## 登入 lab: 10.21.1.3
$ ssh 10.21.1.3

## 查看現在的 node 關係
$ sudo su
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname -i | cut -d ' ' -f 1` -p 6378 -a newld20200909 cluster nodes 2> /dev/null
04349595dc7b856fd27a2c87d33c842cd506e1f2 10.21.1.122:6380@16380 slave b96b5dd558e7568f383aa4ab2fa625edac4bd020 0 1673243148000 17 connected
959f6718cefd96214ec46025e835f9b405802983 10.21.1.3:6380@16380 slave b96b5dd558e7568f383aa4ab2fa625edac4bd020 0 1673243150129 17 connected
6de8c57e166e6987e4f6473181d237c261ce41e5 10.21.1.3:6378@16378 myself,slave 23a405fd0d07732e0117bb367f9e0b850ebfb14b 0 1673243148000 16 conn
fb7a8a516331499dc0cce6e754651192487a2692 10.21.1.122:6377@16377 master - 0 1673243147000 15 connected 10923-16383
23a405fd0d07732e0117bb367f9e0b850ebfb14b 10.21.1.120:6377@16377 master - 0 1673243147000 16 connected 0-5461
b96b5dd558e7568f383aa4ab2fa625edac4bd020 10.21.1.121:6377@16377 master - 0 1673243146000 17 connected 5462-10922
f7def362c61ae67a2025f8f820062c40d8061743 10.21.1.120:6380@16380 slave fb7a8a516331499dc0cce6e754651192487a2692 0 1673243148122 15 connected
9cc6fcd015145cfe8bf81150bd58b4b8397e07e0 10.21.1.121:6380@16380 slave 23a405fd0d07732e0117bb367f9e0b850ebfb14b 0 1673243149126 16 connected
289cd799d35d8362a87c94057879bb111875e57a 10.21.1.3:6382@16382 slave fb7a8a516331499dc0cce6e754651192487a2692 0 1673243146000 15 connected
```

- Master - 10.21.1.120:6377@16377
  - Replica/Slave - 10.21.1.121:6380@16380
  - Replica/Slave - 10.21.1.3:6378@16378
- Master - 10.21.1.121:6377@16377
  - Replica/Slave - 10.21.1.122:6380@16380
  - Replica/Slave - 10.21.1.3:6380@16380
- Master - 10.21.1.122:6377@16377
  - Replica/Slave - 10.21.1.120:6380@16380
  - Replica/Slave - 10.21.1.3:6382@16382



## 理想的聯級複製



- 最上面的圖都沒有提到 cluster 狀態，就代表 cluster 在這些架構轉換裡面是不被考慮的。

```
## 登入 cluster 任一主機，以 master 身分登入，擷取 vs-b 的 instance 資訊
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname -i` -p 6377 -c -a newld20200909 cluster nodes | grep 10.21.1.3
Warning: Using a password with '-a' or '-u' option on the command line interface may not be safe.
959f6718cefd96214ec46025e835f9b405802983 10.21.1.3:6380@16380 slave b96b5dd558e7568f383aa4ab2fa625edac4bd020 0 1673252273000 17 connected
289cd799d35d8362a87c94057879bb111875e57a 10.21.1.3:6382@16382 slave fb7a8a516331499dc0cce6e754651192487a2692 0 1673252272000 15 connected
6de8c57e166e6987e4f6473181d237c261ce41e5 10.21.1.3:6378@16378 master, fail - 1673247094291 1673247090282 16 disconnected

## 把三個 vs-b 的 instance 逐一從 cluster 刪除
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname -i` -p 6377 -c -a newld20200909 cluster forget 959f6718cefd96214ec46025e835f9b4058029
Warning: Using a password with '-a' or '-u' option on the command line interface may not be safe.
OK
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname -i` -p 6377 -c -a newld20200909 cluster forget 289cd799d35d8362a87c94057879bb111875e5
Warning: Using a password with '-a' or '-u' option on the command line interface may not be safe.
OK
$ /usr/local/redis-cluster/bin/redis-cli -h `hostname -i` -p 6377 -c -a newld20200909 cluster forget 6de8c57e166e6987e4f6473181d237c261ce41
Warning: Using a password with '-a' or '-u' option on the command line interface may not be safe.
OK
[gok@vs-uat-redis-01 ~]$ /usr/local/redis-cluster/bin/redis-cli -h `hostname -i` -p 6377 -c -a newld20200909 cluster nodes | grep 10.21.1.3
Warning: Using a password with '-a' or '-u' option on the command line interface may not be safe.
```

[illegible]

```
### 如果現在回到 vs-a 查看 cluster nodes 狀態, 會出現 fail 為正常
### 因為 vs-b 的主機在 cluster 中無法被正確定位: #cluster-enabled yes
$ /usr/local/redis-cluster/bin/redis-cli -h 'hostname' -i -p 6380 -c a newId20200909 cluster nodes | grep fail
Warning: Using a password with '-' or '-'u' option on the command line interface may not be safe.
6de8c57e166e6987e4f6473181d237c261ce41e5 10.21.1.3:6378@16378 master,fail - 1673247099000 16 disconnected
289cf799d35d362a82a78c9405f7b9b111875e57a 10.21.1.3:6382@16382 slave,fail fb7ba8516331499d0cc6e6754651192487a2692 1673252949003 16732529480
167325718cfcd962124ac4602585f9b405802e57a 10.21.1.3:6380@16380 slave,fail b9b65dd558e7496d383aa4ab2fa625edac4bd020 1673252949003 16732529456
```