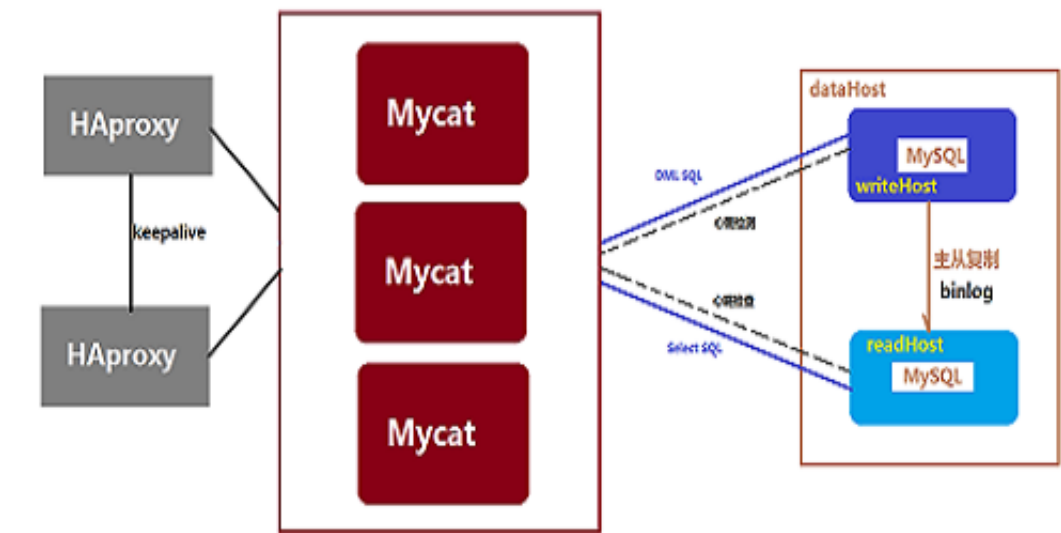


# HAProxy + MyCat + MySQL 集群部署

## 架构图



## 准备节点

### MySQL

#### 1. mysql\_master

```
ip: 172.17.0.6
server-id: 2101
```

#### 2. mysqls/ave01

```
ip: 172.17.0.7
server-id: 2102
```

#### 3. mysqls/ave02

```
ip: 172.17.0.8
server-id: 2103
```

### MyCat

```
mycat_01 ip: 172.17.0.9
mycat_02 ip: 172.17.0.10
```

mycat 模拟用户

```
管理员: root:123456
只读: guest:123456
```

## HAProxy

```
ip: 172.17.0.11
```

## MySQL 主从复制

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参考 [Amoeba for MySQL](#)

## HAProxy

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参考 [RabbitMQ 高可用集群](#)

## 部署 MyCat

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### 1. 下载 MyCat

```
root@mycat_02:~# wget http://dl.mycat.io/1.6-RELEASE/Mycat-server-1.6-RELEASE-20161028204710-linux.tar.gz
root@mycat_02:~# ls
Mycat-server-1.6-RELEASE-20161028204710-linux.tar.gz
root@mycat_02:~# cd /usr/local/
root@mycat_02:/usr/local# tar -zxvf /root/Mycat-server-1.6-RELEASE-20161028204710-linux.tar.gz
```

### 2. 配置 MyCat

server.xml

```

<user name="root">
<property name="password">123456</property>
<property name="schemas">test</property>
</user>

<user name="guest">
  <property name="password">123456</property>
  <property name="schemas">test</property>
  <property name="readOnly">true</property>
</user>

```

## schema.xml

```

<?xml version="1.0"?>
<!DOCTYPE mycat:schema SYSTEM "schema.dtd">
<mycat:schema xmlns:mycat="http://io.mycat/">

  <schema name="test" checkSQLschema="false" sqlMaxLimit="100" dataNode='dnTest'>
  </schema>
  <dataNode name="dnTest" dataHost="robostore" database="test" />
  <dataHost name="robostore" maxCon="1000" minCon="10" balance="1"
    writeType="0" dbType="mysql" dbDriver="native" switchType="2" slaveThreshold="100">
    <heartbeat>show slave status</heartbeat>
    <!-- can have multi write hosts -->
    <writeHost host="master" url="172.17.0.6:3306" user="root"
      password="root">
      <!-- can have multi read hosts -->
      <readHost host="slave01" url="172.17.0.7:3306" user="root" password="root" />
      <readHost host="slave02" url="172.17.0.8:3306" user="root" password="root" />
    </writeHost>
  </dataHost>
</mycat:schema>

```

## 属性解释

balance:

- 0：不开启读写分离机制。
- 1：全部的readHost与stand by writeHost参与select语句的负载均衡，简单的说，当双主双从模式(M1->S1, M2->S2, 并且M1与 M2互为主备)，正常情况下，M2,S1,S2都参与select语句的负载均衡。
- 2. 所有的readHost与writeHost都参与select语句的负载均衡，也就是说，当系统的写操作压力不大的情况下，所有主机都可以承担负载均衡。

writeType:

0: 写操作只写入一个节点

switchType:

-1: 表示不启用主从切换

1: 为默认值, 自动切换

2: 基于主从同步的状态, 决定是否切换, 与show slave status心跳对应

3: 基于多主gality集群切换, 与show status like 'wsrep%'对应

### 3. 运行 MyCat

```
root@mycat_02:/usr/local/mycat/bin# ./mycat start
```