

mysql 用户组 用户

mmm 用户

## MYSQL 安装

1. 用户组 用户 1. Mysql 用户组 用户

```
[root@localhost ~]# groupadd -g 1002 mysql
[root@localhost ~]# useradd -M mysql -u 1002 -g 1002 -d /svc/mysql/
```

1. 安装 依赖 包

```
[root@localhost ~]# yum install ncurses* openssl-devel \
gdbm-devel* curl* gmp* libxml2* libtermcap* cmake* libc-client-devel \
libcurl-devel libxslt -y
```

2. 解压 安装包 并安装 依赖 包

```
[root@localhost ~]# tar -zxf mysql-5.6.34-linux-glibc2.5-x86_64.tar.gz
[root@localhost ~]# mv mysql-5.6.34-linux-glibc2.5-x86_64 /svc/mysql/
[root@localhost ~]# mv -f my.cnf /etc/my.cnf
[root@localhost ~]# cp /svc/mysql/
[root@localhost ~]# ./scripts/mysql_install_db --user=mysql --datadir=/svc/db_data/
[root@localhost ~]# chown -R root: /svc/mysql/
[root@localhost ~]# chown -R mysql: /svc/db_data/
[root@localhost ~]# cp support-files/mysql.server /etc/init.d/mysqld
[root@localhost ~]# chmod +x /etc/init.d/mysqld
```

3. 启动 服务 并 查看 状态

```
[root@localhost ~]# /etc/init.d/mysqld start
Starting mysqld: [ OK ]
```

## 2. MYSQL 1. ID (Active/Standby 2 )

```
[root@localhost ~]# vi /etc/my.cnf
...
server-id = 1 (Active 1, Standby 2 )
```

### 1. (Active/Standby 2 )

```
mysql> grant replication slave on . to 'repl'@'DB_IP' identified by 'repl';
mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)
```

### 2.

```
mysql> show master status \G;

1. row *****
File: binlog.000004
Position: 722
Binlog_Do_DB:
Binlog_Ignore_DB:
Executed_Gtid_Set:
1 row in set (0.00 sec)

ERROR:
No query specified
```

### 3.

```
mysql> change master to master_host='DB_IP', master_user='repl',
master_password='repl', master_log_file='binlog.000004', master_log_pos=722;
Query OK, 0 rows affected, 2 warnings (0.02 sec)
```

### 4. ( DB )

```
mysql> start slave;
Query OK, 0 rows affected (0.00 sec)
```

### 5. Standby (Active/Standby 2 )

```
mysql> show slave status \G;
```

```
***** 1. row *****
```

```
Slave_IO_State: Waiting for master to send event
Master_Host: [] DB_IP
Master_User: repl
Master_Port: 3306
Connect_Retry: 60
Master_Log_File: binlog.000004
Read_Master_Log_Pos: 722
Relay_Log_File: relay-bin.000007
Relay_Log_Pos: 280
Relay_Master_Log_File: binlog.000005
Slave_IO_Running: Yes
Slave_SQL_Running: Yes
Replicate_Do_DB:
Replicate_Ignore_DB:
Replicate_Do_Table:
Replicate_Ignore_Table:
Replicate_Wild_Do_Table:
Replicate_Wild_Ignore_Table:
Last_Errno: 0
Last_Error:
Skip_Counter: 0
Exec_Master_Log_Pos: 120
Relay_Log_Space: 607
Until_Condition: None
Until_Log_File:
Until_Log_Pos: 0
Master_SSL_Allowed: No
Master_SSL_CA_File:
Master_SSL_CA_Path:
Master_SSL_Cert:
Master_SSL_Cipher:
Master_SSL_Key:
Seconds_Behind_Master: 0
Master_SSL_Verify_Server_Cert: No
Last_IO_Errno: 0
Last_IO_Error:
```

```

Last_SQL_Errno: 0
Last_SQL_Error:
Replicate_Ignore_Server_Ids:
Master_Server_Id: 1
    Master_UUID: 2667fd34-0483-11e7-b59d-525400a0f91d
Master_Info_File: /svc/db_data/master.info
    SQL_Delay: 0
    SQL_Remaining_Delay: NULL
Slave_SQL_Running_State: Slave has read all relay log; waiting for the slave I/O thread
to update it
    Master_Retry_Count: 86400
    Master_Bind:
Last_IO_Error_Timestamp:
Last_SQL_Error_Timestamp:
    Master_SSL_Crl:
    Master_SSL_Crlpath:
Retrieved_Gtid_Set:
Executed_Gtid_Set:
    Auto_Position: 0
1 row in set (0.00 sec)

ERROR:
No query specified

```

## Mysql-MMM 架构图

1. Mysql-MMM架构图
2. MMM(Multi-Master Replication Manager for MySQL) 架构图
  - DBMS 支持 ReadWrite, Readonly VIP 模式
3. Component

<div>□ □ □ □</div>	<div>C o m p o n e n t</div>	<div>□ □</div>
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#### 4. MMM□□ □□ (DB□□ )

```
mysql> grant process,super,replication client on . to 'agent'@'□□ IP' identified by 'agent';
Query OK, 0 rows affected (0.00 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)
```

#### 5. MMM-agent □□ (DB□□ )□□ □□ □□□□ (DB□□ )

```
mysql> GRANT REPLICATION CLIENT ON . TO 'monitor'@'MONITOR□□ IP' IDENTIFIED BY 'monitor';
1 row in set (0.00 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)
```

## MMM agent □□

#### 1. □□□ □□□ □□□

1. mysql-mmm-2.2.1-2.el6.noarch.rpm
2. mysql-mmm-agent-2.2.1-2.el6.noarch.rpm

### 3. mysql-mmm-tools-2.2.1-2.el6.noarch.rpm

OS 32 64 32 64 32 64 32 64 . 32 64 perl 32 64  
32 64 32 64 .

### 2. mmm-agent

```
[root@localhost ~]# yum install -y mysql-mmm-2.2.1-2.el6.noarch.rpm
[root@localhost ~]# yum install -y mysql-mmm-agent-2.2.1-2.el6.noarch.rpm
[root@localhost ~]# yum install -y mysql-mmm-tools-2.2.1-2.el6.noarch.rpm
```

### 3. mmm-common.conf

```
$> vi /etc/mysql-mmm/mmm_common.conf

active_master_role writer

<host default>
cluster_interface bond0 # NIC
pid_path /var/run/mysql-mmm/mmm_agentd.pid
bin_path /usr/libexec/mysql-mmm/
replication_user repl #
replication_password repl #
agent_user agent #mmm DBMS
agent_password agentpass #
</host>

<host db1>
ip Mater IP
mode master
peer db2
</host>

<host db2>
ip Standby IP
mode master
peer db1
</host>

<role writer>
hosts db1, db2
ips DB VIP
```

```
mode exclusive
</role>
```

#### 4. mmm - mmm\_agent.conf

```
$> vi /etc/mysql-mmm/mmm_agent.conf

include mmm_common.conf

# The 'this' variable refers to this server. Proper operation requires
# that 'this' server (db1 by default), as well as all other servers, have the
# proper IP addresses set in mmm_common.conf.

this db1 # Active db1, Standby db2
```

#### 5. mmm-agent

```
[root@localhost ~]# /etc/init.d/mysql-mmm-agent start
Starting mmm_agentd: [ OK ]

[root@localhost ~]# ps -ef | grep mmm
root 8052 8031 0 10:12 pts/0 00:00:00 grep mmm
root 18251 1 0 2016 ? 00:00:00 mmm_agentd
root 18253 18251 0 2016 ? 04:03:18 mmm_agentd
```

## MMM-monitor (Statistics#2)

### 1. 安装

1. mysql-mmm-2.2.1-2.el6.noarch.rpm
2. mysql-mmm-monitor-2.2.1-2.el6.noarch.rpm
3. mysql-mmm-tools-2.2.1-2.el6.noarch.rpm

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### 2. svcd 配置 MMM

```
$> vi /etc/mysql-mmm/mmm_common_svcd.conf

active_master_role writer
```



```

<host default>
cluster_interface bond0 1 1 NIC 11111 11
pid_path /var/run/mysql-mmm/mmm_agentd_svcd.db.pid
bin_path /usr/libexec/mysql-mmm/
replication_user repl 1 11111 111 11
replication_password repl 1 11111 111 1111
agent_user agent 1 mmm 11 DBMS 111 111 11
agent_password agentpass 1 1111 11
</host>

```

```

<host db1>
ip svcd.db Mater 11 IP
mode master
peer db2
</host>

```

```

<host db2>
ip svcd.db Standby 11 IP
mode master
peer db1
</host>

```

```

<role writer>
hosts db1, db2
ips svcd.db VIP
mode exclusive
</role>

```

```
$> vi /etc/mysql-mmm/mmm_mon_svcd.db.conf
```

```
include mmm_common_svcd.db.conf
```

```

<monitor>
ip 127.0.0.1
pid_path /var/run/mysql-mmm/mmm_mond_svcd.db.pid
bin_path /usr/libexec/mysql-mmm
status_path /var/lib/mysql-mmm/mmm_mond_svcd.db.status

```

```
ping_ips svcdb RIP  IP  (,) 
auto_set_online 60
port 9991
</monitor>
```

```
<host default>
monitor_user mmm_monitor  mmm 
monitor_password monitorpw  mmm 
</host>
debug 0
```

```
$> vi /etc/mysql-mmm/mmm_mon_log_svcdb.conf
```

```
log4perl.logger = INFO, MMMLog
```

```
log4perl.appender.MMMLog = Log::Log4perl::Appender::File
```

```
log4perl.appender.MMMLog.Threshold = INFO
```

```
log4perl.appender.MMMLog.filename = /var/log/mysql-mmm/mmm_mond_svcdb.log
```

```
log4perl.appender.MMMLog.recreate = 1
```

```
log4perl.appender.MMMLog.layout = PatternLayout
```

```
log4perl.appender.MMMLog.layout.ConversionPattern = %d %5p %m%n
```

### 3. 。

#### 1. init.d 。

```
[root@localhost ~]# cp /etc/init.d/mysql-mmm-monitor /etc/init.d/mysql-mmm-svcdb
```

#### 2. 。

```
$> vi /etc/init.d/mysql-mmm-svcdb
#!/bin/sh
#
# mysql-mmm-monitor This shell script takes care of starting and stopping
#           the mmm monitoring daemon.
#
# chkconfig: - 64 36
# description: MMM Monitor.
# processname: mmm_mond
```

```
# config: /etc/mysql-mmm/mmm_mon.conf
# pidfile: /var/run/mysql-mmm/mmm_mond.pid

# Source function library and defaults file.
. /etc/rc.d/init.d/functions
. /etc/default/mysql-mmm-monitor

# Cluster name (it can be empty for default cases)
CLUSTER='svcdb'
LOCKFILE='/var/lock/subsys/mysql-mmm-monitor'
prog='MMM Monitor Daemon'

if [ "$CLUSTER" != "" ]; then
    MMMD_MON_BIN="/usr/sbin/mmm_mond @$CLUSTER"
    MMMD_MON_PIDFILE="/var/run/mysql-mmm/mmm_mond_${CLUSTER}.pid"
else
    MMMD_MON_BIN="/usr/sbin/mmm_mond"
    MMMD_MON_PIDFILE="/var/run/mysql-mmm/mmm_mond.pid"
fi
```

#### 4. dashboard\_db MMM

```
$> vi /etc/mysql-mmm/mmm_common_dashboard_db.conf
active_master_role writer

<host default>
cluster_interface bond0  NIC  IP
pid_path /var/run/mysql-mmm/mmm_agentd-cssatdb.pid
bin_path /usr/libexec/mysql-mmm/
replication_user repl  DBMS
replication_password repl  DBMS
agent_user agent  mmm  DBMS
agent_password agentpass
</host>

<host db1>
ip dashboard_db Mater  IP
mode master
```

```
peer db2
```

```
</host>
```

```
<host db2>
```

```
ip dashboard_db Standby 192.168.1.10 IP
```

```
mode master
```

```
peer db1
```

```
</host>
```

```
<role writer>
```

```
hosts db1, db2
```

```
ips dashboard_db VIP
```

```
mode exclusive
```

```
</role>
```

```
$> vi /etc/mysql-mmm/mmm_mon_dashboard_db.conf
```

```
include mmm_common_dashboard_db.conf
```

```
<monitor>
```

```
ip 127.0.0.1
```

```
pid_path /var/run/mysql-mmm/mmm_mond_dashboard_db.pid
```

```
bin_path /usr/libexec/mysql-mmm
```

```
status_path /var/lib/mysql-mmm/mmm_mond_dashboard_db.status
```

```
ping_ips dashboard_db RIP 192.168.1.10 192.168.1.10 (,) 192.168.1.10
```

```
auto_set_online 60
```

```
port 9990
```

```
</monitor>
```

```
<host default>
```

```
monitor_user mmm_monitor 192.168.1.10 192.168.1.10
```

```
monitor_password monitorpw 192.168.1.10 192.168.1.10
```

```
</host>
```

```
debug 0
```

```
$> vi /etc/mysql-mmm/mmm_mon_log_dashboard_db.conf
```

```
log4perl.logger = INFO, MMMLog
```

```
log4perl.appender.MMMLog = Log::Log4perl::Appender::File
log4perl.appender.MMMLog.Threshold = INFO
log4perl.appender.MMMLog.filename = /var/log/mysql-mmm/mmm_mond_dashboard_db.log
log4perl.appender.MMMLog.recreate = 1
log4perl.appender.MMMLog.layout = PatternLayout
log4perl.appender.MMMLog.layout.ConversionPattern = %d %5p %m%n
```

1. `cp` `init.d`

2. `init.d` `mysql-mmm-monitor`

```
[root@localhost ~]# cp /etc/init.d/mysql-mmm-monitor /etc/init.d/mysql-mmm-
dashboard_db
```

5. `init.d` `mysql-mmm-monitor`

```
%> vi /etc/init.d/mysql-mmm-dashboard_db
```

```
#!/bin/sh
```

```
mysql-mmm-monitor This shell script takes care of starting and stopping
the mmm monitoring daemon.
```

```
chkconfig: - 64 36
```

```
description: MMM Monitor.
```

```
processname: mmm_mond
```

```
config: /etc/mysql-mmm/mmm_mon.conf
```

```
pidfile: /var/run/mysql-mmm/mmm_mond.pid
```

Source function library and defaults file.

```
. /etc/rc.d/init.d/functions
```

```
. /etc/default/mysql-mmm-monitor
```

Cluster name (it can be empty for default cases)

```
CLUSTER='dashboard_db'
```

```
LOCKFILE='/var/lock/subsys/mysql-mmm-monitor'
```

```
prog='MMM Monitor Daemon'
```

```
if [ "$CLUSTER" != "" ]; then
```

```
MMMD_MON_BIN="/usr/sbin/mmm_mond @$CLUSTER"
```

```
MMMD_MON_PIDFILE="/var/run/mysql-mmm/mmm_mond_$CLUSTER.pid"
```

```
else
```

```
MMMD_MON_BIN="/usr/sbin/mmm_mond"
```

```
MMMD_MON_PIDFILE="/var/run/mysql-mmm/mmm_mond.pid"
```

```
fi
```

## 6. Centos7 MMM-monitor

## 7. systemctl

```
[root@localhost ~]# cd /usr/lib/systemd/system
```

```
[root@localhost system]# cp mysql-mmm-monitor.service mysql-mmm-monitor_svcdb.service
```

```
[root@localhost system]# cp mysql-mmm-monitor.service mysql-mmm-monitor_dashboard_db.service
```

```
[root@localhost system]# systemctl enable mysql-mmm-monitor_svcdb.service
```

```
[root@localhost system]# systemctl enable mysql-mmm-monitor_dashboard_db.service
```

```
$> vi /usr/lib/systemd/system/ mysql-mmm-monitor_svcdb.service
```

```
[Unit]
```

```
Description=MySQL MMM Monitor
```

```
After=network.target mysqld.service
```

```
[Service]
```

```
Type=forking
```

```
PIDFile=/var/run/mmm_mond_svcdb.pid
```

```
ExecStart=/etc/init.d/mysql-mmm-monitor-svcdb start
```

```
ExecStop=/etc/init.d/mysql-mmm-monitor-svcdb stop
```

```
PrivateTmp=true
```

```
[Install]
```

```
WantedBy=multi-user.target
```

```
$> vi /usr/lib/systemd/system/ mysql-mmm-monitor_dashboard_db.service
```

```
[Unit]
```

```
Description=MySQL MMM Monitor
```

```
After=network.target mysqld.service
```

```
[Service]
```

```
Type=forking
```

```
PIDFile=/var/run/mmm_mond_svcdb.pid
```

```
ExecStart=/etc/init.d/mysql-mmm-monitor-dashboard_db start
```

```
ExecStop=/etc/init.d/mysql-mmm-monitor-dashboard_db stop
```

```
PrivateTmp=true
```

```
[Install]
```

```
WantedBy=multi-user.target
```

## 8. ■■■ ■■

### 1. MMM-monitor ■■ ■■ (monitor■■■■ ■■ )

```
[root@localhost ~]# /etc/init.d/mysql-mmm-svcdb start
```

```
Starting mmm_mond: [ OK ]
```

```
[root@localhost ~]# /etc/init.d/mysql-mmm-dashboard_db start
```

```
Starting mmm_mond: [ OK ]
```

### 2. Mysql ■■■■ ■■ ■■ ■■■■ ■■ ■■ (db■■■■ ■■ )

```
[root@localhost ~]# ps -ef | grep mysql
```

```
root 6714 1 0 Jan08 ? 00:00:00 /bin/sh /usr/local/mysql/bin/mysqld_safe --
```

```
datadir=/home/mysqldata --pid-file=/home/mysqldata/localhost.pid
```

```
mysql 7856 6714 0 Jan08 ? 00:26:50 /usr/local/mysql/bin/mysqld --basedir=/usr/local/mysql
```

```
--datadir=/home/mysqldata --plugin-dir=/usr/local/mysql/lib/plugin --user=mysql --log-
```

```
error=/home/mysqldata/error.log --open-files-limit=8192 --pid-
```

```
file=/home/mysqldata/localhost.pid --socket=/tmp/mysql.sock --port=3306
```

### 3. Mysql 启动 配置 检查

```
[root@localhost ~]# mysql -u root -p'root' -e'select now()'
2017-03-12 19:06:14
```

### 4. Mmm 启动 配置 检查

```
[root@localhost ~]# ps -ef | grep mmm
root 10832 1 0 Mar07 ? 00:00:00 mmm_mond-dashboard_db
root 10834 10832 0 Mar07 ? 00:04:27 mmm_mond-dashboard_db
root 10843 10834 0 Mar07 ? 00:01:49 perl /usr/libexec/mysql-mmm/monitor/checker
@dashboard_db ping_ip
root 10846 10834 0 Mar07 ? 00:01:03 perl /usr/libexec/mysql-mmm/monitor/checker
@dashboard_db mysql
root 10848 10834 0 Mar07 ? 00:00:35 perl /usr/libexec/mysql-mmm/monitor/checker
@dashboard_db ping
root 10850 10834 0 Mar07 ? 00:01:29 perl /usr/libexec/mysql-mmm/monitor/checker
@dashboard_db rep_backlog
root 10852 10834 0 Mar07 ? 00:01:28 perl /usr/libexec/mysql-mmm/monitor/checker
@dashboard_db rep_threads
root 10960 1 0 Mar07 ? 00:00:00 mmm_mond-svcdb
root 10962 10960 0 Mar07 ? 00:04:23 mmm_mond-svcdb
root 10969 10962 0 Mar07 ? 00:01:47 perl /usr/libexec/mysql-mmm/monitor/checker
@svcdb ping_ip
root 10972 10962 0 Mar07 ? 00:01:03 perl /usr/libexec/mysql-mmm/monitor/checker
@svcdb mysql
root 10974 10962 0 Mar07 ? 00:00:35 perl /usr/libexec/mysql-mmm/monitor/checker
@svcdb ping
root 10976 10962 0 Mar07 ? 00:01:27 perl /usr/libexec/mysql-mmm/monitor/checker
@svcdb rep_backlog
root 10978 10962 0 Mar07 ? 00:01:27 perl /usr/libexec/mysql-mmm/monitor/checker
@svcdb rep_threads
root 29560 27996 0 21:40 pts/3 00:00:00 grep mmm
```

### 5. MMM 启动 配置 检查 (dashboard\_db)

```
[root@localhost ~]# mmm_control @dashboard_db show
db1(192.168.67.230) master/ONLINE. Roles: writer(192.168.67.229)
db2(192.168.67.231) master/ONLINE. Roles:
```



## 6. MMM 节点 节点 (svcdb)

```
[root@localhost ~]# mmm_control @svcdb show
db1(192.168.67.224) master/ONLINE. Roles: writer(192.168.67.223)
db2(192.168.67.225) master/ONLINE. Roles:
```

## 7. DBMS 节点 节点 (svcdb)

```
[root@localhost ~]# mmm_control @svcdb checks all
db2 ping [last change: 2017/03/09 11:03:42] OK
db2 mysql [last change: 2017/03/09 11:03:42] OK
db2 rep_threads [last change: 2017/03/09 11:03:42] OK
db2 rep_backlog [last change: 2017/03/09 06:02:35] OK: Backlog is null
db1 ping [last change: 2017/03/09 11:03:42] OK
db1 mysql [last change: 2017/03/09 11:03:42] OK
db1 rep_threads [last change: 2017/03/09 11:03:42] OK
db1 rep_backlog [last change: 2017/03/09 11:03:42] OK: Backlog is null
```

## 8. DBMS 节点 节点 (dashboard\_db)

```
[root@localhost ~]# mmm_control @dashboard_db checks all
db2 ping [last change: 2017/03/09 10:58:37] OK
db2 mysql [last change: 2017/03/09 10:58:37] OK
db2 rep_threads [last change: 2017/03/09 10:58:37] OK
db2 rep_backlog [last change: 2017/03/09 10:58:37] OK: Backlog is null
db1 ping [last change: 2017/03/09 10:58:37] OK
db1 mysql [last change: 2017/03/09 10:58:37] OK
db1 rep_threads [last change: 2017/03/09 10:58:37] OK
db1 rep_backlog [last change: 2017/03/09 10:58:37] OK: Backlog is null
```

# FAQ

## 1. 节点 节点 节点

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	❏
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	❏
	❏
	❏
	❏
	❏
	❏
	[root@localhost ~]# rpm -Uvh 123.rpm warning: 123.rpm: Header V3 RSA/SHA256 Signature, key ID 0608b895: NOKEY error: Failed dependency

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2. MMM-monitor 

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[root@localhost

~]#

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