

# MGR状态监控：---基础篇

## 1.概述：

Perfomance Schema库下的几张表记录了MGR集群的状态信息，可以通过监控下表的信息来获得集群的状态信息：

performance_schema.replication_group_member_stats	#记录节点各自同步数据的状态信息
performance_schema.replication_group_members	#记录节点本身的状态信息
performance_schema.replication_connection_status	#记录从集群中接受到的且在applier队列中排队的事务
performance_schema.replication_applier_status	#记录组复制的专用复制通道
performance_schema.replication_applier_status_by_coordinator	#记录SQL协调器线程分发事务相关的状态
performance_schema.replication_applier_status_by_worker	#记录worker线程应用事务相关的状态

表里具体的字段信息请自行查阅官方文档，本文不再过多赘述。

## 2.集群节点状态：

集群节点状态列表和对应含义如下表所示：

状态值	状态描述	是否和集群同步
ONLINE	表示该节点已经是一个健康的节点，该节点可以正常接受客户端的访问。	是
RECOVERING	表示该节点正在成为集群的活跃节点，目前正在恢复过程中，正在接受来自引导节点的状态转移数据。	否
OFFLINE	表示该Server已加载了MGR插件，但此时Server不属于任何组集群。	否
ERROR	表示该节点处于错误状态，不能作为任何集群的节点正常工作。	否
UNREACHABLE	当某一节点不可访问时，将显示该成员的状态为UNREACHABLE。	否

## 3.查找主节点：

```

root@localhost:mysql.sock 11:43:53 [(none)]> SHOW STATUS LIKE
'group_replication_primary_member';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| group_replication_primary_member | bfd7119e-0d2d-11eb-8c01-fa481f05d800 |
+-----+-----+
1 row in set (0.00 sec)

```

```

root@localhost:mysql.sock 11:43:46 [(none)]> SELECT * FROM performance_schema.replication_group_members;
+-----+-----+-----+-----+-----+-----+-----+
| CHANNEL_NAME | MEMBER_ID | MEMBER_HOST | MEMBER_PORT | MEMBER_STATE | MEMBER_ROLE | MEMBER_VERSION |
+-----+-----+-----+-----+-----+-----+-----+
| group_replication_applier | aeb1a9bf-0d2d-11eb-ac0f-faad9ffd2500 | mgr1 | 3306 | ONLINE | SECONDARY | 8.0.21 |
| group_replication_applier | bfd7119e-0d2d-11eb-8c01-fa481f05d800 | mgr2 | 3306 | ONLINE | PRIMARY | 8.0.21 |
| group_replication_applier | d6b2dae8-0d2d-11eb-9687-fae661bd6b00 | mgr3 | 3306 | ONLINE | SECONDARY | 8.0.21 |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

## 4.集群节点状态信息：

组复制中的每个节点都会各自对从集群中接受的事务进行冲突认证检测，然后进行应用。从集群中接受事务以及应用事务相关的统计信息，这些统计信息对于了解applier队列的增长、发现的事务、验证的事务、已经提交的事务等有用信息。下表提供这类有用信息的一个统计：

```

root@localhost:mysql.sock 17:19:16 [(none)]> SELECT * FROM
performance_schema.replication_group_member_stats\G
ERROR 2006 (HY000): MySQL server has gone away
No connection. Trying to reconnect...
Connection id: 258
Current database: *** NONE ***

***** 1. row *****
CHANNEL_NAME: group_replication_applier
VIEW_ID: 16025809057344168:3
MEMBER_ID: aeb1a9bf-0d2d-11eb-ac0f-faad9ffd2500
COUNT_TRANSACTIONS_IN_QUEUE: 0
COUNT_TRANSACTIONS_CHECKED: 8
COUNT_CONFLICTS_DETECTED: 0
COUNT_TRANSACTIONS_ROWS_VALIDATING: 0
TRANSACTIONS_COMMITTED_ALL_MEMBERS: aaaaaaaa-aaaa-aaaa-aaaa-
aaaaaaaaaaaa:1-1898
LAST_CONFLICT_FREE_TRANSACTION: aaaaaaaa-aaaa-aaaa-aaaa-
aaaaaaaaaaaa:1898
COUNT_TRANSACTIONS_REMOTE_IN_APPLIER_QUEUE: 0
COUNT_TRANSACTIONS_REMOTE_APPLIED: 10
COUNT_TRANSACTIONS_LOCAL_PROPOSED: 1
COUNT_TRANSACTIONS_LOCAL_ROLLBACK: 0
***** 2. row *****
CHANNEL_NAME: group_replication_applier
VIEW_ID: 16025809057344168:3
MEMBER_ID: bfd7119e-0d2d-11eb-8c01-fa481f05d800
COUNT_TRANSACTIONS_IN_QUEUE: 0
COUNT_TRANSACTIONS_CHECKED: 8
COUNT_CONFLICTS_DETECTED: 0
COUNT_TRANSACTIONS_ROWS_VALIDATING: 0
TRANSACTIONS_COMMITTED_ALL_MEMBERS: aaaaaaaa-aaaa-aaaa-aaaa-
aaaaaaaaaaaa:1-1898
LAST_CONFLICT_FREE_TRANSACTION: aaaaaaaa-aaaa-aaaa-aaaa-
aaaaaaaaaaaa:1898

```

```

COUNT_TRANSACTIONS_REMOTE_IN_APPLIER_QUEUE: 0
COUNT_TRANSACTIONS_REMOTE_APPLIED: 1
COUNT_TRANSACTIONS_LOCAL_PROPOSED: 8
COUNT_TRANSACTIONS_LOCAL_ROLLBACK: 0
***** 3. row *****
CHANNEL_NAME: group_replication_applier
VIEW_ID: 16025809057344168:3
MEMBER_ID: d6b2dae8-0d2d-11eb-9687-fae661bd6b00
COUNT_TRANSACTIONS_IN_QUEUE: 0
COUNT_TRANSACTIONS_CHECKED: 8
COUNT_CONFLICTS_DETECTED: 0
COUNT_TRANSACTIONS_ROWS_VALIDATING: 0
TRANSACTIONS_COMMITTED_ALL_MEMBERS: aaaaaaaa-aaaa-aaaa-aaaa-
aaaaaaaaaaaa:1-1898
LAST_CONFLICT_FREE_TRANSACTION: aaaaaaaa-aaaa-aaaa-aaaa-
aaaaaaaaaaaa:1898
COUNT_TRANSACTIONS_REMOTE_IN_APPLIER_QUEUE: 0
COUNT_TRANSACTIONS_REMOTE_APPLIED: 8
COUNT_TRANSACTIONS_LOCAL_PROPOSED: 0
COUNT_TRANSACTIONS_LOCAL_ROLLBACK: 0
3 rows in set (0.00 sec)

```