

# mysql replication 설정

1. 5.5부터는 innodb를 기본엔진으로 사용하기 때문에, Myisam을 사용할 경우, 테이블 구성시 엔진타입을 따로 기재해 주어야 함.

- - Master1 : 192.168.20.11
  - Master2 : 192.168.20.12

1. Mysql replication 구성하기(Dual Master)

2. Master1 my.cnf파일 수정

1. /etc/my.cnf파일에 해당 내용 추가하기

```
$> vi /etc/my.cnf
server-id      = 1
binlog-do-db=wordpress (리플리케이션 사용할 DB명, 여러개의 DB일 경우, 한칸씩 띄우면 됨. wordpress mysql, 전체 DB를 복제할경우엔는 따로 설정하지 않아도 됨)
```

3. Master2 /etc/my.cnf파일에 내용 변경

```
$> vi /etc/my.cnf
server-id      = 2
binlog-do-db=wordpress
```

4. Master1에 master 플러그인 설치 및 활성화

```
mysql> INSTALL PLUGIN rpl_semi_sync_master SONAME 'semisync_master.so';
Query OK, 0 rows affected (0.00 sec)
mysql> set global rpl_semi_sync_master_enabled=1;
Query OK, 0 rows affected (0.00 sec)
mysql> set global rpl_semi_sync_master_timeout=1000;
Query OK, 0 rows affected (0.00 sec)
mysql> show variables like 'rpl_semi_sync%';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| rpl_semi_sync_master_enabled | ON |
| rpl_semi_sync_master_timeout | 1000 |
| rpl_semi_sync_master_trace_level | 32 |
| rpl_semi_sync_master_wait_no_slave | ON |
+-----+-----+
```

5. Master2서버에서 쿼리 적용할 수 있게 권한 부여

```
mysql> grant replication slave on *.* to 'repl_test'@'192.168.20.12' identified by 'repltest';
\\Query OK, 0 rows affected (0.00 sec)
```

6. Master2서버에 슬레이브 플러그인 설치 및 활성화

```
mysql> INSTALL PLUGIN rpl_semi_sync_slave SONAME 'semisync_slave.so';
mysql> set global rpl_semi_sync_slave_enabled=1;
mysql> show variables like 'rpl_semi_sync%';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| rpl_semi_sync_slave_enabled | ON |
| rpl_semi_sync_slave_trace_level | 32 |
+-----+-----+
2 rows in set (0.01 sec)
```

7. Master1서버에서 접속할 수 있게 권한 설정

```
mysql> grant replication slave on *.* to 'repl_test'@'192.168.20.11' identified by 'repltest';
```

8. 양쪽 Master서버의 bin log, position 초기화

```
mysql> reset master;
```

## 9. 각 서버 Master상태 확인

### # Master1에서 확인

```
mysql> show master status;
```

```
+-----+-----+-----+-----+
| File      | Position | Binlog_Do_DB | Binlog_Ignore_DB |
+-----+-----+-----+-----+
| mysql-bin.000001 | 100 | wordpress | |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

### # Master2에서 확인

```
mysql> show master status;
```

```
+-----+-----+-----+-----+
| File      | Position | Binlog_Do_DB | Binlog_Ignore_DB |
+-----+-----+-----+-----+
| mysql-bin.000001 | 100 | wordpress | |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

## 10. 양쪽 서버 Master연결 (File과 Position을 맞추면 됨)

### # Master1에서 수행

```
mysql> change master to master_host='192.168.20.12', master_user='repl_test', master_password='repltest', master_log_file='mysql-master-bin.000001', master_log_pos=100;
```

### # Master2에서 수행

```
mysql> change master to master_host='192.168.20.11', master_user='repl_test', master_password='repltest', master_log_file='mysql-master-bin.000001', master_log_pos=100;
```

## 11. 각서버 연결상태확인

### Master1)

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

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

Slave_IO_State:
  Master_Host: 192.168.20.12
  Master_User: repl_test
  Master_Port: 3306
  Connect_Retry: 60
  Master_Log_File: mysql-bin.000001
  Read_Master_Log_Pos: 107
  Relay_Log_File: ha1-relay-bin.000001
  Relay_Log_Pos: 4
  Relay_Master_Log_File: mysql-bin.000001
  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: 107
  Relay_Log_Space: 107
  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: 0
1 row in set (0.00 sec)
ERROR:
No query specified
```

## Master2)

```
mysql> show slave status \G;
***** 1. row *****
Slave_IO_State:
Master_Host: 192.168.20.11
Master_User: repl_test
Master_Port: 3306
Connect_Retry: 60
Master_Log_File: mysql-bin.000001
Read_Master_Log_Pos: 107
Relay_Log_File: ha2-relay-bin.000001
Relay_Log_Pos: 4
Relay_Master_Log_File: mysql-bin.000001
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: 107
Relay_Log_Space: 107
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: 0
1 row in set (0.00 sec)
ERROR:
No query specified
```

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🔄Revision #1

★Created 6 June 2022 16:20:15 by artop0420

✎Updated 8 June 2022 04:00:28 by artop0420