

Process Document to Manage Mysql Replication Environments at Radico Rampur

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Infrastructure Used

- Mysql 8.0.12 on Windows 2012 (IP 172.30.3.155) as **MASTER** Node .
- Mysql 8.0.12 on Windows 2012 (IP 172.30.3.220) as **1st SLAVE Node**
- Mysql 8.0.12 on Linux / Centos 6.10 (IP 172.30.3.6) as **2nd SLAVE Node**

Mysql Replication Manual Monitoring

Status for mysql slave status on Linux mysql Slave

1. Login on Centos server as root
2. login on mysql shell
 1. mysql -u root -p
 2. give password
3. Run
 1. mysql>
 2. mysql> show slave status\G
 3. expect output as following with **Seconds_Behind_Master: 0 sec or > 100 Sec**

```
***** 1. row *****
Slave_IO_State: Waiting for master to send event
Master_Host: 172.30.3.155
Master_User: slave_user
Master_Port: 3306
```

Connect_Retry: 60
Master_Log_File: binlog.000073
Read_Master_Log_Pos: 127606919
Relay_Log_File: mysql-relay-bin.000007
Relay_Log_Pos: 12171808
Relay_Master_Log_File: binlog.000073
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: 127606919
Relay_Log_Space: 12172016
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: bf9992ff-6c9b-11e9-8f14-30e1716afbdc
Master_Info_File: mysql.slave_master_info
SQL_Delay: 0
SQL_Remaining_Delay: NULL
Slave_SQL_Running_State: Slave has read all relay log; waiting for more updates
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
Replicate_Rewrite_DB:
Channel_Name:
Master_TLS_Version:
Master_public_key_path:
Get_master_public_key: 0
1 row in set (0.00 sec)

4. There should not be any error on the last line

Status for mysql slave status on Windows mysql Slave

1. Login on Centos server as root
2. Open the mysql cli of Windows Server (172.30.3.220) by
3. `mysql -h 172.30.3.220 -uroot -p`
4. give the password
5. `mysql> show slave status\G`
6. expect output as following with **Seconds_Behind_Master: 0 sec or > 100 Sec**
7. There should not be any error on the last line

Contingency Plan and execution

The execution plan below is for any failures on Mysql Environment

Master node (172.30.3.155) Failure

In case the Server Hardware , Mysql Software or Long. Downtime Plan of Master Mysql Node , the following plan will ensure the immediate availability of Mysql Environment .

Steps

1. Shut down the Master node and ensure that Master node is not working .
2. On the Ist Slave , I.E Windows Slave Server (172.30.3.220) , put the IP of Master Mysql Server for Client Access Availability
3. Open Mysql CLI of Mysql Workbench and give password for login

4. On mysql> prompt
5. *mysql>STOP SLAVE;*
6. *mysql>RESET MASTER;*
7. That's It Now your Master server is Running .
8. On Sencond Slave server , I.e Linux Mysql Server
 1. *mysql> STOP SLAVE;*
 2. *mysql> START SLAVE;*
9. check the slave status as per Mysql manual monitoring for Replication