

# Replication

This interface shows the replication graph and relationship of all registered MySQL servers, as well as `SLAVE STATUS` and `MASTER STATUS` where it applies on hovering over each of the server block. The display gets updated after every one minute.

The servers are color-coded to represent the different states of the replication servers: green denotes stable, red disconnected servers and yellow not in sync. The yellow color is decided if any of the following variables return the below value:

```
'SLAVE IO RUNNING' = No
```

or

```
'SLAVE SQL RUNNING' = No
```

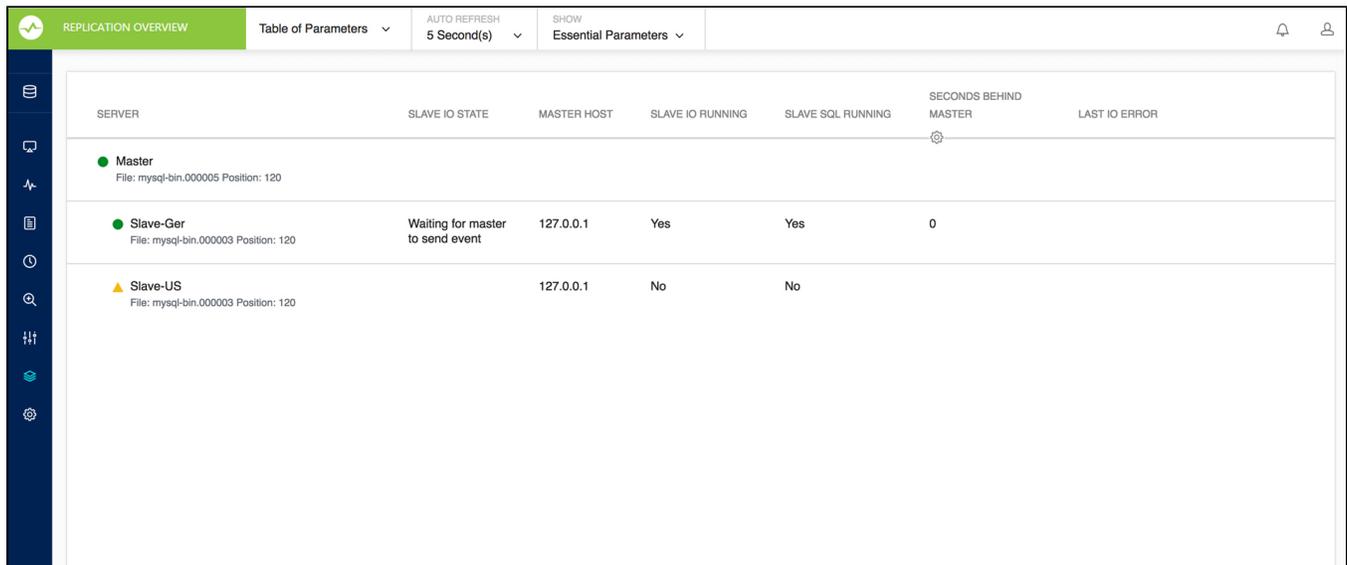
or

```
'SECONDS BEHIND MASTER' >= 450 Secs (this is the default global value for all the servers. A user can also set a value according to their MySQL environment)
```

From Monyog 8.1.0, the user can set the **Seconds Behind Master** threshold value for all the servers in SQL DM for MySQL by clicking the icon in the **Seconds Behind Master** column or in the dialog pop-up upon clicking the respective server in the table/topology.

There are two interfaces that the user can choose to see the information about the replication setup:

- **Table of Parameters:** This table contains the result set of `SHOW [ALL] SLAVE STATUS` for servers which have been marked as replication slaves in SQL DM for MySQL. The first time the number of columns in the table is condensed to only display 'Essential Parameters'. To get the detailed view, you can select the option 'All Parameters' from the drop-down menu in the header.



The screenshot shows the 'REPLICATION OVERVIEW' interface. At the top, there are controls for 'Table of Parameters', 'AUTO REFRESH 5 Second(s)', and 'SHOW Essential Parameters'. Below this is a table with the following columns: SERVER, SLAVE IO STATE, MASTER HOST, SLAVE IO RUNNING, SLAVE SQL RUNNING, SECONDS BEHIND MASTER, and LAST IO ERROR. The table lists three servers: a Master server (green dot), a Slave-Ger server (green dot), and a Slave-US server (yellow triangle). The Slave-Ger server is in a 'Waiting for master to send event' state, while the Slave-US server is in a 'No' state for both IO and SQL running.

SERVER	SLAVE IO STATE	MASTER HOST	SLAVE IO RUNNING	SLAVE SQL RUNNING	SECONDS BEHIND MASTER	LAST IO ERROR
● Master File: mysql-bin.000005 Position: 120						
● Slave-Ger File: mysql-bin.000003 Position: 120	Waiting for master to send event	127.0.0.1	Yes	Yes	0	
▲ Slave-US File: mysql-bin.000003 Position: 120		127.0.0.1	No	No		

You can sort any column which removes the hierarchy listing of servers. To view slaves in the hierarchy, click the **SHOW HIERARCHY** link.

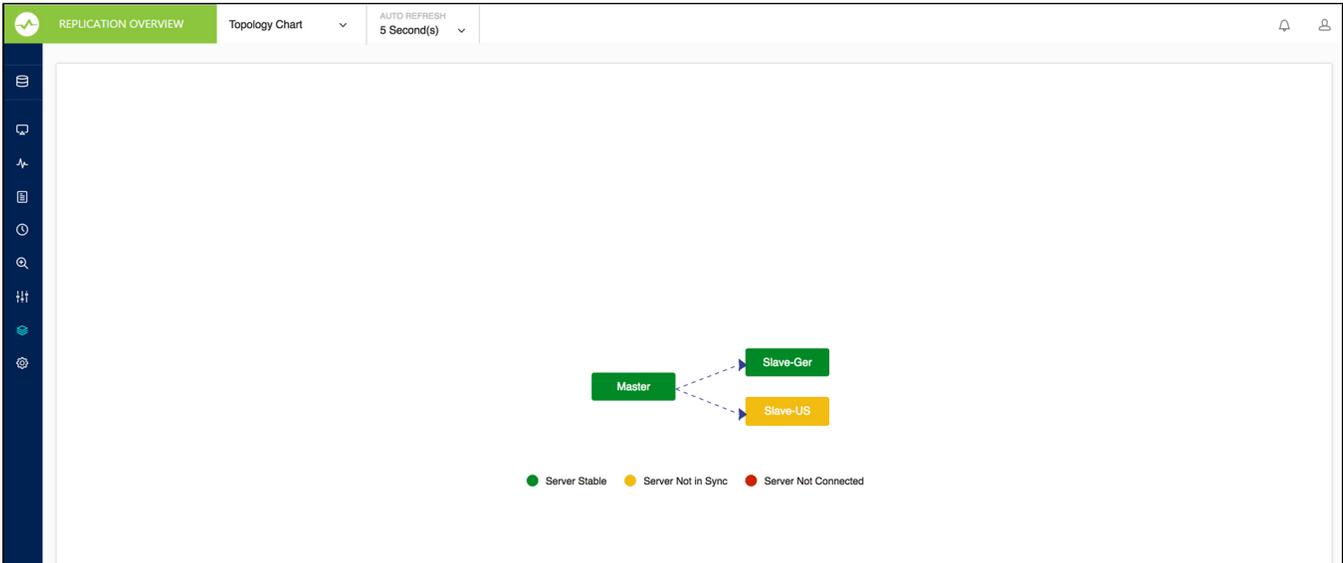
Also, if the I/O thread ('Slave\_IO\_Running') is not running, it dynamically brings out the Last IO Error column for a quick view on what went wrong with the Slave IO Thread. It works similarly for SQL thread ('Slave\_SQL\_Running') as well.

REPLICATION OVERVIEW

Table of Parameters | AUTO REFRESH 5 Second(s) | SHOW All Parameters | SHOW HIERARCHY

SERVER	SLAVE IO STATE	MASTER HOST	MASTER USER	MASTER PORT	CONNECT RETRY	MASTER LOG FILE	READ MASTER LOG POS	RELAY LOG FILE	RELAY LOG POS
<p>● Slave-Ger</p> <p>File: mysql-bin.000003 Position: 120</p>	Waiting for master to send event	127.0.0.1	rsandbox	23700	60	mysql-bin.000005	120	mysql-relay.000012	283
<p>▲ Slave-US</p> <p>File: mysql-bin.000003 Position: 120</p>		127.0.0.1	rsandbox	23700	60	mysql-bin.000005	120	mysql-relay.000012	283
<p>● Master</p> <p>File: mysql-bin.000005 Position: 120</p>									

- Topology Chart:** This interface shows the replication graph and relationship of all registered MySQL servers which are marked as master/slave, as well as SLAVE STATUS and MASTER STATUS while hovering over each of the server blocks. The display gets updated at the user-specified refresh interval which is a browser-specific setting. The default interval is 5 seconds.



The server blocks on clicking gives the result set of SHOW [ALL] SLAVE STATUS for the slave and SHOW MASTER STATUS for the master servers.