

MySQL Replication

*** TESTED FOR CENTOS 7 ***

NEED TO HAVE PORT 3306 OPENED! -- MASTER = 10.1.2.117, SLAVE = 10.1.2.118

Master:

```
vi /etc/my.cnf
```

```
“ [mysqld]
  bind-address = 10.1.2.117
  server-id = 1
  log_bin = /var/lib/mysql/mysql-bin.log
  binlog-do-db=mydb
  datadir=/var/lib/mysql
  socket=/var/lib/mysql/mysql.sock
  symbolic-links=0
  sql_mode=NO_ENGINE_SUBSTITUTION,STRICT_TRANS_TABLES

  [mysqld_safe]
  log-error=/var/log/mysql.log
  pid-file=/var/run/mysql/mysql.pid
```

```
systemctl restart mysql
```

If new server without db create before you grant permissions, if you already have a db running keep reading to see how you can move your db to slave.

```
GRANT REPLICATION SLAVE ON *.* TO 'slave_user'@'%' IDENTIFIED BY 'password';
FLUSH PRIVILEGES;
USE mydb;
FLUSH TABLES WITH READ LOCK;
```

Note down the position number you will need it on a future command.

```
SHOW MASTER STATUS;
```

```
+-----+-----+-----+-----+
| File           | Position | Binlog_Do_DB | Binlog_Ignore_DB |
+-----+-----+-----+-----+
| mysql-bin.000001 |      665 | newdatabase  |                   |
+-----+-----+-----+-----+

1 row in set (0.00 sec)
```

```
mysqldump -u root -p --opt mysql > mysql.sql
```

```
UNLOCK TABLES;
```

Slave:

```
CREATE DATABASE mydb;
```

Now import the DB from the MASTER

```
mysql -u root -p mydb < /path/to/mydb.sql
```

vi /etc/my.cnf

```
“ [mysqld]
  server-id = 2
  relay-log = /var/lib/mysql/mysql-relay-bin.log
  log_bin = /var/lib/mysql/mysql-bin.log
  binlog-do-db=mydb
  datadir=/var/lib/mysql
  socket=/var/lib/mysql/mysql.sock
  symbolic-links=0
  sql_mode=NO_ENGINE_SUBSTITUTION,STRICT_TRANS_TABLES

[mysqld_safe]
  log-error=/var/log/mysql.log
  pid-file=/var/run/mysql/mysql.pid
```

To add more DB's create another line with the db name: binlog-do-db=mydb2 in my.cnf

```
systemctl restart mysql
```

```
CHANGE MASTER TO MASTER_HOST='10.1.2.117',MASTER_USER='slave_user', MASTER_PASSWORD='password',  
MASTER_LOG_FILE='mysql-bin.000001', MASTER_LOG_POS=665;  
START SLAVE;  
SHOW SLAVE STATUS\G
```

Look at **Slave_IO_State** & **Slave_IO_Running** & **Slave_SQL_Running** & make sure **Master_LOG** and **Read_Master_Log_Pos** matches the master.

```
mysql> SHOW SLAVE STATUS\G  
***** 1. row *****  
Slave_IO_State: Waiting for master to send event  
Master_Host: 10.1.2.117  
Master_User: slave_user  
Master_Port: 3306  
Connect_Retry: 60  
Master_Log_File: mysql-bin.000001  
Read_Master_Log_Pos: 622  
Relay_Log_File: mysql-relay-bin.000002  
Relay_Log_Pos: 283  
Relay_Master_Log_File: mysql-bin.000001  
Slave_IO_Running: Yes  
Slave_SQL_Running: Yes
```

If there is an issue in connecting, you can try starting slave with a command to skip over it:

```
SET GLOBAL SQL_SLAVE_SKIP_COUNTER = 1;  
SLAVE START;
```

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