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/mysqld.log
> pid-file=/var/run/mysqld/mysqld.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

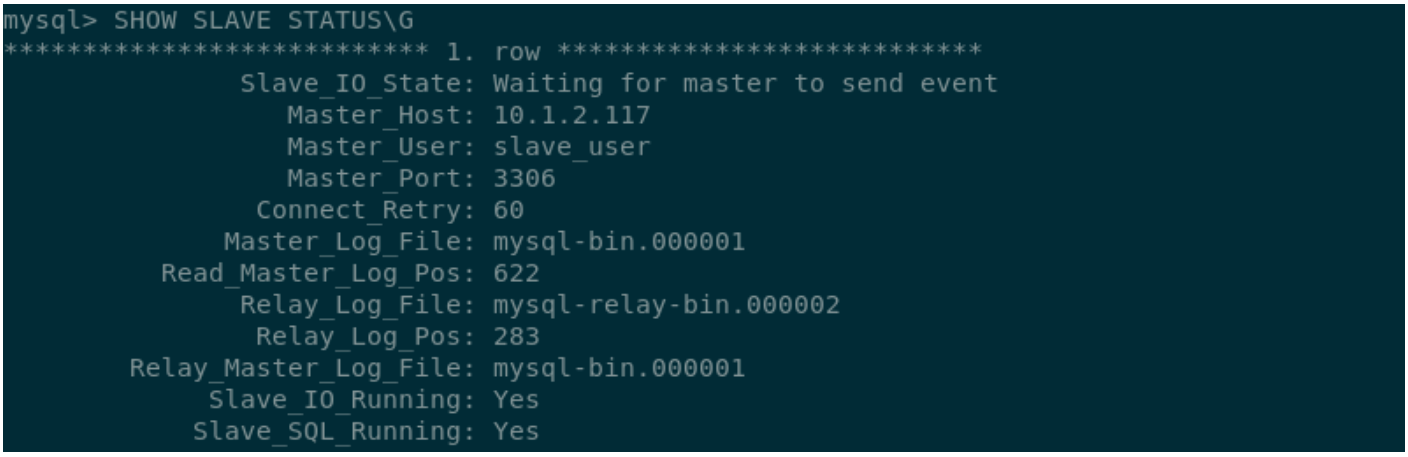
> [mysqld]
> server-id = 2
> relay-log = /var/lib/mysql/mysql-relay-bin.log
> log_bin = /var/lib/mysql/mysql-bin.log
> binlog-do-db=mydb
> datadir=/var/lib/mysql
> socket=/var/lib/mysql/mysql.sock
> symbolic-links=0
> sql_mode=NO_ENGINE_SUBSTITUTION,STRICT_TRANS_TABLES
>
> [mysqld_safe]
> log-error=/var/log/mysqld.log
> pid-file=/var/run/mysqld/mysqld.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.



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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