**MASTER-SLAVE REPLICATION MYSQL (centos 7**)

Prerequisites:

1. 2 Linux server cent os 7 server
2. MySQL installed in both servers

**Installing MySQL in Centos 7:**

yum install wget

Download and add the repository, then update.

wget http://repo.mysql.com/mysql-community-release-el7-5.noarch.rpm

sudo rpm -ivh mysql-community-release-el7-5.noarch.rpm

yum update

Install MySQL as usual and start the service. During installation, you will be asked if you want to accept the results, enter Y.

sudo yum install MySQL-server

sudo systemctl start mysqld

To set the rules:

sudo mysql\_secure\_installation

*>provide password required for MySQL root;*

*> choose y for all asked queries in the process;*

Download MySQL Tuner to your home directory.

wget <https://raw.githubusercontent.com/major/MySQLTuner-perl/master/mysqltuner.pl>

perl ./mysqltuner.pl (provide root credentials)

**Master server configuration**

Login MySQL as root

MySQL -u root -p

CREATE USER 'repuser'@'localhost' IDENTIFIED BY '123';

GRANT ALL ON rep.\* TO 'repuser'@'localhost';

Flush privileges;

exit

Edit the configuration file vi /etc/my.cnf

ADD THE BELOW LINES

[mysqld]

server-id=1

binlog-do-db=rep *Add all the database name you want to replicate*

binlog-do-db=rep2

binlog-do-db=rep3

log-bin=mysql-bin

datadir=/var/lib/mysql

socket=/var/lib/mysql/mysql.sock

user=mysql

# Disabling symbolic-links is recommended to prevent assorted security risks

symbolic-links=0

[mysqld\_safe]

log-error=/var/log/mysqld.log

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

*esc > : > wq to save and quit*

*esc > : >q! to quit without saving*

service mysqld restart (varies for different versions)

Login MySQL as root

Mysql -u root -p

GRANT REPLICATON SALVE ON \*.\* TO ‘repuser’@’%’ IDENTIFIED BY ‘123’

Flush privileges;

Use rep ;

Use rep2;

Use rep3;

FLUSH TABLES WITH READ LOCK;

SHOW MASTER STATUS;

+------------------+----------+---------------+------------------+-------------------+

| File | Position | Binlog\_Do\_DB | Binlog\_Ignore\_DB | Executed\_Gtid\_Set |

| mysql-bin.000004 | 2122 | rep,rep2,rep3 | | |

+------------------+----------+---------------+------------------+-------------------+

Note the file no and position ,it is used in slave server to map th bin where the database log is stored for replication.

EXIT

Create dump to transfer the replicated files

MySQL dump -u root -p rep > rep .sql

MySQL dump – u root -p rep2 > rep2.sql

MySQL dump -u root -p rep3 > rep3.sql

ls to check if dump is created

Scp rep.sql root@slaveip :/root/

Scp rep2.sql root@slaveip :/root/

Scp rep3.sql root@slaveip :/root/

Provide root password of slave server

A screenshot of a computer

Description generated with high confidence

Login Mysql as root

UNLOCK TABLES;

**Slave server configuration**

Create database with same name as master that has to be replicated

Login to mysql as root

Create database rep; ….etc

Exit

Edit the configuration file

Vi /etc/my.cnf

[mysqld]

server-id=2

binlog-do-db=rep

binlog-do-db=rep2

binlog-do-db=rep3

log-bin=mysql-bin

datadir=/var/lib/mysql

socket=/var/lib/mysql/mysql.sock

user=mysql

# Disabling symbolic-links is recommended to prevent assorted security risks

symbolic-links=0

[mysqld\_safe]

log-error=/var/log/mysqld.log

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

restart mysqld

service mysqld restart

ls to check if scp command from master has tranfered the dump to slave.

Now inser the dump into created database in slave.

Mysql -u root -p rep < rep.sql / provide mysql password

(Same for remainindg database also)

Login to mysql

Create replication user with same name as in master

CREATE USER 'repuser'@'localhost' IDENTIFIED BY '123';

GRANT ALL ON rep.\* TO 'repuser'@'localhost';

GRANT REPLICATON SALVE ON \*.\* TO ‘repuser’@’%’ IDENTIFIED BY ‘123’

FLUSH PRIVILEGES;

CHANGE MASTER TO MASTER\_HOST='master ip, MASTER\_USER='repuser', MASTER\_PASSWORD='123', MASTER\_LOG\_FILE='mysql-bin.000004', MASTER\_LOG\_POS=2122;

SLAVE START;

SHOW SLAVE STATUS;

A screenshot of a cell phone

Description generated with very high confidence

**NOTE: Newly added databases after the replication process must be followed through same process. By editing .cnf file and export and import of dump.**

**IN CASE OF MULTIPLE SLAVES SAME PROCEDURE CAN BE FOLLOWED WITH CHANGED SLAVE SERVER ID AND SCP COMMAND TO THE REQUIRED SLAVE SERVER IP.**