

# **Mysql Master-slave-configuration**

# Take both machine ip

Master ip: 172.31.35.248Slave ip: 172.31.43.145

## Installing My sql on both machines:

To install it, update the package index on your server if you've not done so recently:

- sudo apt update

Then install the mysql-server package:

- sudo apt install mysql-server

Ensure that the server is running using the systemctl start command:

- sudo systemctl start mysql.service

You can refer this doc : click here

## **Confuguring Master to Slave Replication of mySql**

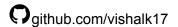
## Stop mysql service:

- sudo systemctl stop mysql.service

#### Open configuration file on slave1 and add following lines then save and exit:

server-id = 2 auto-increment-increment = 2 auto-increment-offset = 2 log-slave-updates replicate-do-db = test101





bind-address = 0.0.0.0 .. changed this to this

#### Open configuration file on master and changed following line then save and exit:

server-id = 1 ... Uncomment & changed this to this bind-address = 0.0.0.0 ... changed this to this

## Start mysql service and check status on both machine:

- sudo systemctl start mysql.service
- sudo systemctl status mysql.service





#### Check the mysql port on which ip it is running on

netstat -tulpn | grep "mysql"

```
root@ip-172-31-43-145:~# netstat -tulpn | grep "mysql"
tcp 0 00.0.0.3306 0.0.0.0:* LISTEN 15293/mysqld
tcp 0 0127.0.0.1:33060 0.0.0.0:* LISTEN 15293/mysqld
root@ip-172-31-43-145:~# ■
```

### **Create replication user on master:**

Slave ip: 172.31.43.145

Slave dns: ip-172-31-43-145.ap-south-1.compute.internal

Replication user: vishal

Replication pass: Replication@123

- Login to my sql on master
- Use and replace below slave query acc. to yours then fire them in mysql

create user 'vishal'@'ip-172-31-43-145.ap-south-1.compute.internal' IDENTIFIED BY 'Replication@123';

grant all privileges on \*.\* to 'vishal'@'ip-172-31-43-145.ap-south-1.compute.internal' with grant option;

 $ALTER\ USER\ 'vishal'@'ip-172-31-43-145.ap-south-1. compute. internal'\ IDENTIFIED\ WITH\ mysql\_native\_password\ BY\ 'Replication@123';$ 

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| Notation | Notation
```

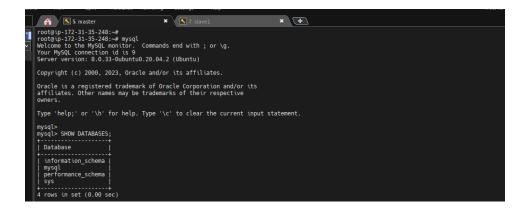




Check iist of tables and create one and insert data in table on Master:

As I mentioned table in slave configuration file: test101

Create same on master and slave by login on to them



SHOW DATABASES;

CREATE DATABASE test101;

USE test101;

create table test( tutorial\_id INT NOT NULL AUTO\_INCREMENT, tutorial\_title VARCHAR(100) NOT NULL, tutorial\_author VARCHAR(40) NOT NULL, submission\_date DATE, PRIMARY KEY ( tutorial\_id ));



#### select \* from test;

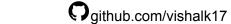
INSERT INTO test (tutorial\_title, tutorial\_author, submission\_date) VALUES ("Learn MySQL", "DB Check-1", NOW());

```
mysql>
mysql> select * from test;
Empty set (0.00 sec)
mysql> INSERT INTO test (tutorial_title, tutorial_author, submission_date) VALUES ("Learn MySQL", "DB Check-1", NOW());
Query OK, 1 row affected, 1 warning (0.00 sec)
mysql> SELECT * FROM test;
| tutorial_id | tutorial_title | tutorial_author | submission_date |
| 1 | Learn MySQL | DB Check-1 | 2023-06-29 |
| 1 row in set (0.00 sec)
mysql> |
```

## Move to the slave machine:

Master ip: 172.31.35.248

- Check whether you are able to reach to the master over ip and 3306 port:
- telnet 172.31.35.248 3306





- Login to mysql
- Fire below queries
  - stop slave;
  - show slave status\G
  - exit

```
rooteip-172-31-43-145:~#
rooteip-172-31-43-145:~#
rooteip-172-31-43-145:~#
rooteip-172-31-43-145:~#
rooteip-172-31-43-145:~#
rooteip-172-31-43-145:~#
rooteip-172-31-43-145:~#
rooteip-172-31-43-145:~#
welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 157
Server version: 8.0-33-olubutu0.20.04.2 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> stop slave;
Query OK, 0 rows affected, 2 warnings (0.00 sec)
mysql> stop slave;
Query OK, 0 rows affected, 2 warnings (0.00 sec)
mysql> show slave status\G
Empty set, 1 warning (0.00 sec)
mysql> exit
Bye
rooteip-172-31-43-145:~#
```

Now login on slave using master replication user credential

Master ip: 172.31.35.248 Replication user: vishal

Replication pass: Replication@123

- mysql -p Replication@123 -uvishal -h 172.31.35.248
- stop slave;
- show slave status\G
- exit



```
mysql> stop slave;
Query OK, 0 rows affected, 2 warnings (0.00 sec)
mysql> stop slave;
Query OK, 0 rows affected, 2 warnings (0.00 sec)
mysql> stop slave status\6
Empty set, 1 warning (0.00 sec)
mysql> sow slave status\6
Empty set, 1 warning (0.00 sec)
mysql> exit
Bye
root@ip-172-31-43-145:~# mysql -p Replication@123 -u vishal -h 172.31.35.248
Enter password:
ERROR 1045 (28000): Access denied for user 'vishal'@'ip-172-31-43-145.ap-south-1.compute.internal' (using password not@ip-172-31-43-145:~# mysql -pReplication@123 -uvishal -h 172.31.35.248
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MysQL monitor. Commands end with; or \g.
Your MysQL connection id is 13
Server version: 8.0.33-Oubuntu0.20.04.2 (Ubuntu)

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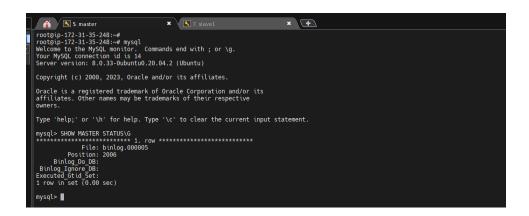
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> stop slave;
Query OK, 0 rows affected, 2 warnings (0.00 sec)
mysql> show slave status\6
Empty set, 1 warning (0.00 sec)
mysql> exit
Bye
```

On master slave get below details by firing below query:

- Get file name and position

File: binlog.000005

- Position: 2006



#### Now login in mysql using slave credential on slave machine

Fire below quries copy and paste details aquired from master machine :

Master ip: 172.31.35.248'File name: binlog.000005

Position: 2006

CHANGE MASTER TO MASTER\_HOST = '172.31.35.248', MASTER\_USER = 'vishal', MASTER\_PASSWORD = 'Replication@123', MASTER\_LOG\_FILE = 'binlog.000005', MASTER\_LOG\_POS = 2006;

```
Totalpy 17-21-43-145:uf
rootalpy 17-21-43-145:
```

## Check replication:

On master ADD another entry under test101 database:

SHOW DATABASES;





- use test101;
- select \* from test;
- INSERT INTO test (tutorial\_title, tutorial\_author, submission\_date) VALUES ("Learn AWS", "DB Check-1", NOW());
- select \* from test;

Check with slave now

It has to replicate