# Replikasi Database Master-Slave pada Linux Ubuntu



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# FAKULTAS ILMU KOMPUTER PROGRAM STUDI SISTEM KOMPUTER UNIVERSITAS SRIWIJAYA PALEMBANG 2024

### Install MariaDB pada Kedua Ubuntu yang akan dipakai

sudo apt install mariadb-server

### **Ubah Konfigurasi MariaDB Master**

sudo nano /etc/mysql/mariadb.conf.d/50-server.cnf

# baris 29, ubah IP bind-address

bind-address = 192.168.100.96 (Ip Master)

# baris 74, lepas comment server-id = 1

# baris 75, lepas comment log bin = /var/log/mysql/mysql-bin.log

### **Restart service MariaDB**

sudo systemctl restart mysql

### Buat user untuk akses replikasi

mysql -u root -p

GRANT REPLICATION SLAVE ON \*.\* TO 'replica'@'192.168.100.95' IDENTIFIED BY 'secret';

### FLUSH PRIVILEGES;

```
MariaDB [(none)]> GRANT REPLICATION SLAVE ON *.* TO 'replica'@'192.168.100.95' IDENTIF IED BY 'secret';
Query OK, 0 rows affected (0,003 sec)
```

```
MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0,001 sec)
```

Tampilkan status master. File dan Position dibutuhkan pada saat konfigurasi Slave.

### Konfigurasi Server MariaDB Slave

sudo nano /etc/mysql/mariadb.conf.d/50-server.cnf

```
# baris 29, ubah IP bind-addressbind-address = 192.168.100.65 (Ip Slave)
```

# baris 74, lepas comment. Ganti dengan nomor lain, server-id = 2

# baris 75, lepas comment log\_bin = /var/log/mysql/mysql-bin.log

```
root@slave-VirtualBox:/home/slave

File Edit View Search Terminal Help

GNU nano 6.2 /etc/mysql/mariadb.conf.d/50-server.cnf *

# Broken reverse DNS slows down connections considerably and name resonable re
```

Restart service MariaDB

```
root@slave-VirtualBox:/home/slave# sudo systemctl restart mysql
```

Konfigurasi koneksi ke Master

```
root@slave-VirtualBox:/home/slave# mysql -u root -p
```

```
MariaDB [(none)]> CHANGE MASTER TO MASTER_HOST='192.168.100.96', MASTER_USER='re plica', MASTER_PASSWORD='secret', MASTER_LOG_FILE='mysql-bin.000002', MASTER_LOG_POS=667;
Query OK, 0 rows affected (0,032 sec)
```

### Jalankan slave

START SLAVE;

```
MariaDB [(none)]> START SLAVE;
Query OK, 0 rows affected (0,001 sec)
```

Jika tidak ada masalah pada saat menjalankan slave, lepas kunci database pada server master

mysql -u root -p

### UNLOCK TABLES;

```
MariaDB [(none)]> mysql -u root -p
MariaDB [(none)]> UNLOCK TABLES;
Query OK, 0 rows affected (0,000 sec)
```

### Tampilkan status slave

SHOW SLAVE STATUS \G

# Pengujian

Membuat Database pada Master

```
MariaDB [(none)]> SHOW DATABASES;
 Database
 information schema
  performance_schema
 sys
4 rows in set (0,000 sec)
MariaDB [(none)]> CREATE DATABASE Clarisa;
Query OK, 1 row affected (0,000 sec)
MariaDB [(none)]> SHOW DATABASES;
| Database
| Clarisa
 information_schema
 mysql
  performance_schema
 sys
5 rows in set (0,001 sec)
```

## Show Databases pada Slave