"Replikasi Database Master-Slave pada Linux Ubuntu"



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FAKULTAS ILMU KOMPUTER PROGRAM STUDI SISTEM KOMPUTER UNIVERSITAS SRIWIJAYA PALEMBANG 2024

Ip Master 192.168.100.96

Ip Slave 192.168.100.95

- 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

baris 74, lepas comment server-id = 1

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

```
GNU nano 6.2 /etc/mysql/mariadb.conf.d/50-server.cnf
bind-address = 192.168.100.96

# # * Fine Tuning

# key_buffer_size = 128M
#max_allowed_packet = 16
#thread_stack = 192K
#thread_cache_size = 8
# This replaces the startup script and checks MyISAM tables if needed
# the first time they are touched
#myisam_recover_options = BACKUP
#max_connections = 100
#table_cache = 64
```

- 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
- # 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 r
```

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.0000002', 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

```
root@slave-VirtualBox: /home/slave
File
     Edit View Search Terminal Help
MariaDB [(none)]> SHOW SLAVE STATUS \G
                        **** 1. row
                Slave IO State: Waiting for master to send event
                   Master Host: 192.168.100.96
                   Master User: replica
                   Master_Port: 3306
                 Connect Retry: 60
               Master Log File: mysql-bin.000002
           Read Master Log Pos: 667
                Relay Log File: mysqld-relay-bin.000002
                 Relay Log Pos: 555
         Relay Master Log File: mysql-bin.000002
              Slave_IO_Running: Yes
             Slave SQL Running: Yes
               Replicate Do DB:
           Replicate Ignore DB:
            Replicate Do Table:
        Replicate Ignore Table:
       Replicate Wild Do Table:
   Replicate Wild Ignore Table:
                    Last Errno: 0
                    Last Error:
                  Skip Counter: 0
```

Pengujian

Membuat Database pada Master

Show Databases pada Slave