SISTEM TERDISTRIBUSI

“Membuat Replikasi Master-Slave untuk Database MySQL atau MariaDB”

Disusun oleh :

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PROGRAM STUDI SISTEM KOMPUTER

FAKULTAS ILMU KOMPUTER

UNIVERSITAS SRIWIJAYA

PALEMBANG

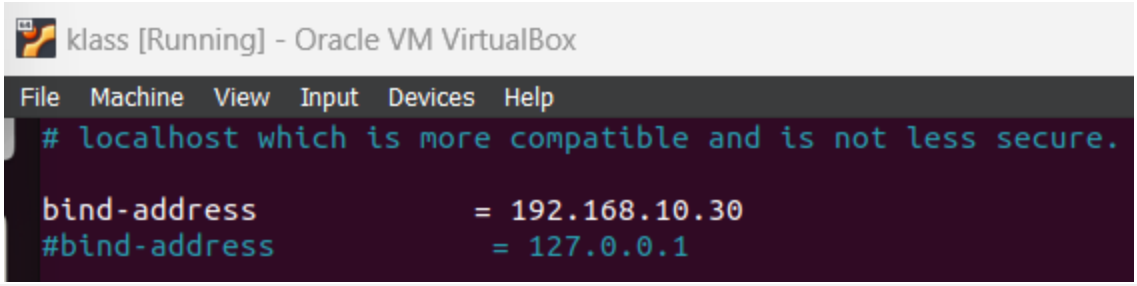
2023/2024

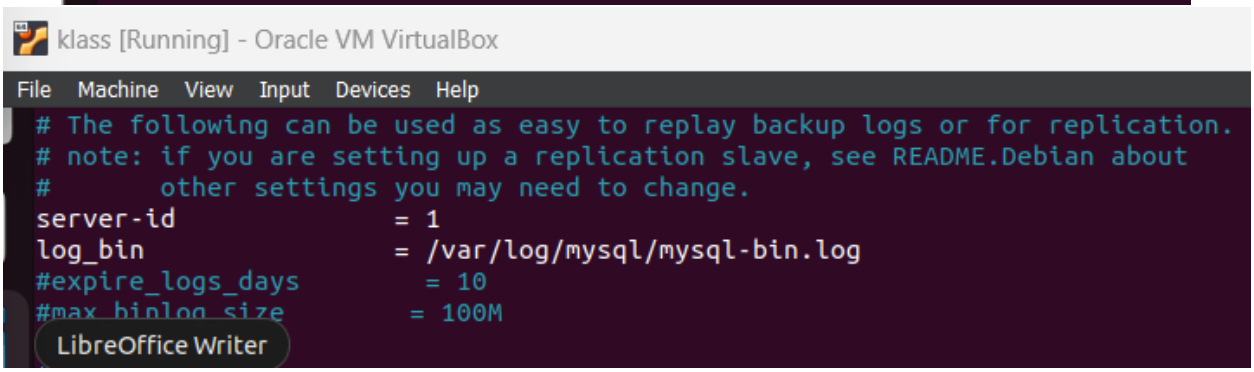
Perangkat yang digunakan pada percobaan replikasi:

1. Linux Ubuntu
2. MySql / MariaDB
3. IP Master: 192.168.10.30
4. IP Slave: 192.168.10.32

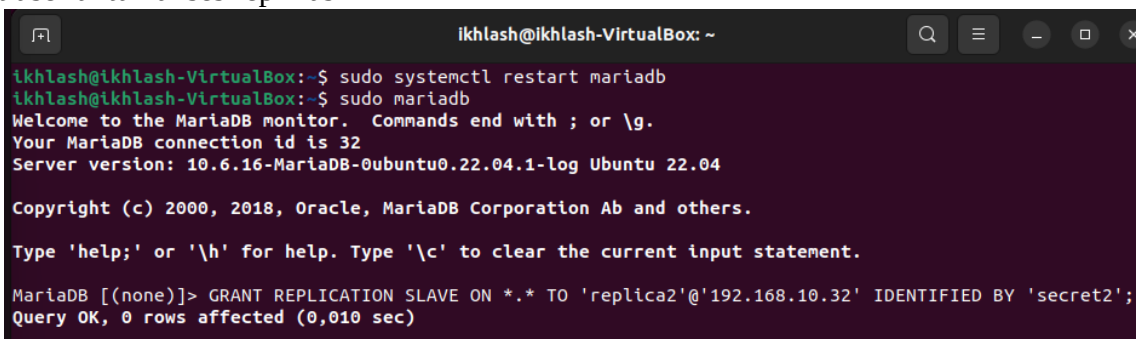
Konfigurasi Server MariaDB Master

Ubah konfigurasi MariaDB pada CLI

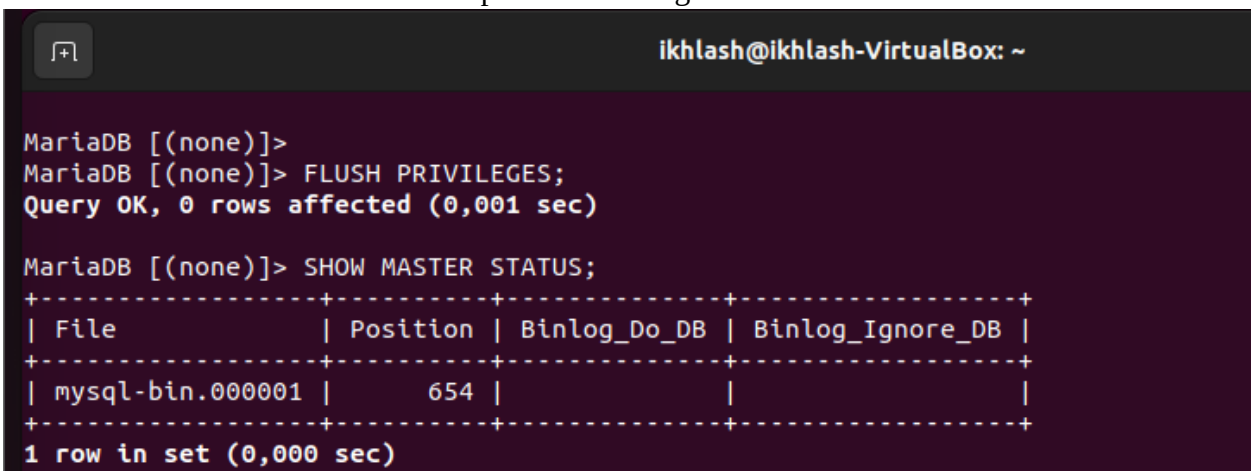




Buat user untuk akses replikasi

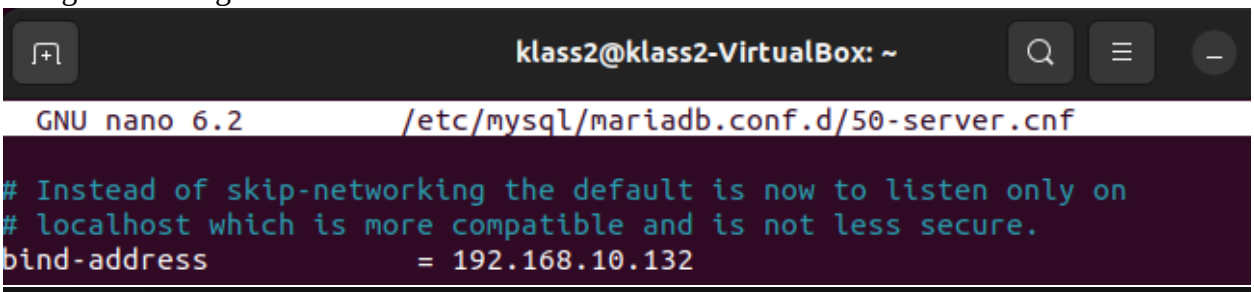


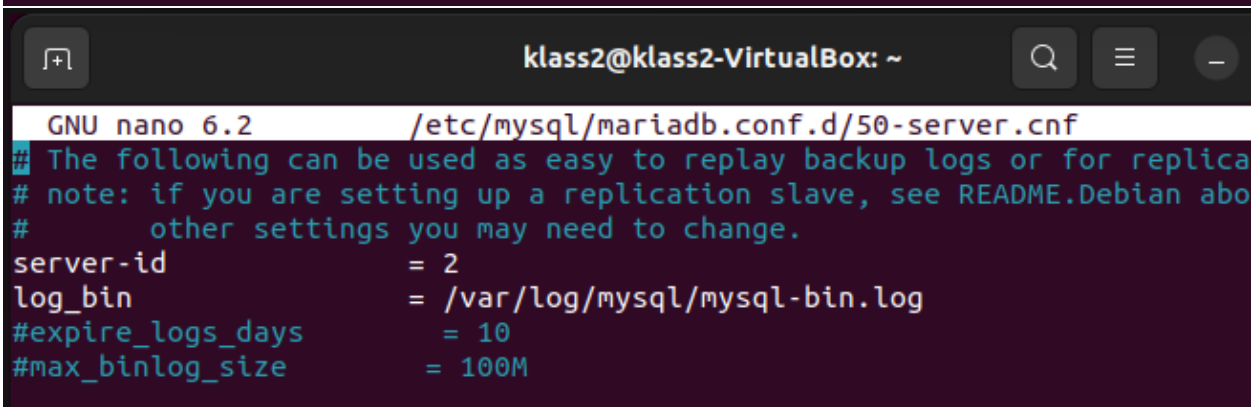
Kunci database agar tidak ada perubahan pada saat konfigurasi replikasi, Menampilkan status master. File dan Position dibutuhkan pada saat konfigurasi Slave.



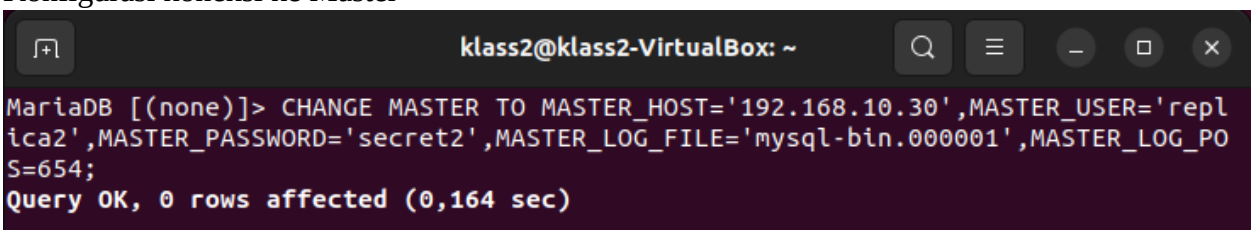
Konfigurasi Server MariaDB Slave

Mengubah konfigurasi MariaDB

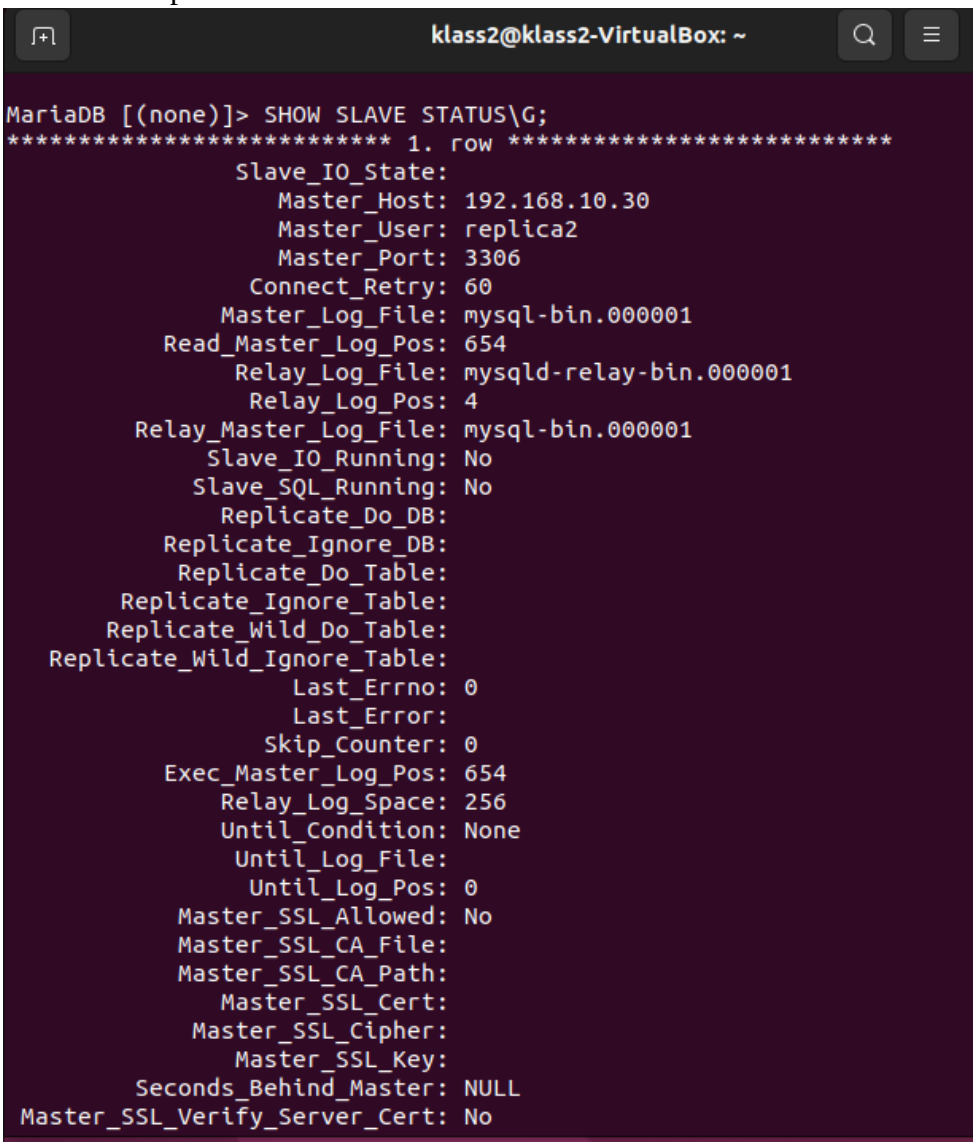




Konfigurasi koneksi ke Master



Jalankan slave dan Tampilkan status slave



Pengujian

Pembuatan Database CRUD Record Pada Server Master.

```
MariaDB [(none)]> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
4 rows in set (0,015 sec)
```

```
MariaDB [(none)]> CREATE DATABASE klass2003;
Query OK, 1 row affected (0,002 sec)

MariaDB [(none)]> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| klass2003          |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0,000 sec)
```

Setiap selesai menjalankan satu perintah pada server Master periksa server Slave apakah ada terjadi hal yang sama pada server Master.

```
MariaDB [(none)]> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| klass2003          |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0,000 sec)
```

Tampilan database pada Slave