INSTALLATION ET DEBUT

Prèrequis

- Un serveur Linux
- 500 MB de RAM
- 1 CPU
- 10 GB de disque

Installation

- Mettez à jour les repos

```
apt update && apt upgrade -y
```

- Installez le paquet mariadb-server

```
apt install mariadb-server
```

- Testez si le serveur est bien installé

```
root@sql-front-01:~# ss -lntp |grep 3306
LISTEN 0      80         127.0.0.1:3306      0.0.0.0:*
users:(("mariadbd",pid=4326,fd=21))



root@sql-front-01:~# systemctl status mysql
* mariadb.service - MariaDB 10.11.4 database server
     Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; preset: enabled)
     Active: active (running) since Wed 2023-11-08 13:29:24 UTC; 2min 20s ago
       Docs: man:mariadbd(8)
             https://mariadb.com/kb/en/library/systemd/
   Main PID: 4326 (mariadbd)
     Status: "Taking your SQL requests now..."
      Tasks: 11 (limit: 9395)
     Memory: 81.6M
        CPU: 813ms
     CGroup: /system.slice/mariadb.service
             `-4326 /usr/sbin/mariadbd
```

```
Nov 08 13:29:24 sql-front-01 mariadbd[4326]: 2023-11-08 13:29:24 0 [Note] InnoDB: Loading buffer pool(s) from /var/lib/mysql/ib_buffer_pool
Nov 08 13:29:24 sql-front-01 mariadbd[4326]: 2023-11-08 13:29:24 0 [Note] InnoDB: Buffer pool(s) load completed at 231108 13:29:24
Nov 08 13:29:24 sql-front-01 mariadbd[4326]: 2023-11-08 13:29:24 0 [Warning] You need to use --log-bin to make --expire-logs-days or --binlog-expire-logs-seconds work.
Nov 08 13:29:24 sql-front-01 mariadbd[4326]: 2023-11-08 13:29:24 0 [Note] Server socket created on IP: '127.0.0.1'.
Nov 08 13:29:24 sql-front-01 mariadbd[4326]: 2023-11-08 13:29:24 0 [Note] /usr/sbin/mariadbd: ready for connections.
Nov 08 13:29:24 sql-front-01 mariadbd[4326]: Version: '10.11.4-MariaDB-1~deb12u1' socket: '/run/mysqld/mysqld.sock'  port: 3306  Debian 12
Nov 08 13:29:24 sql-front-01 systemd[1]: Started mariadb.service - MariaDB 10.11.4 database server.
Nov 08 13:29:24 sql-front-01 /etc/mysql/debian-start[4341]: Upgrading MySQL tables if necessary.
Nov 08 13:29:24 sql-front-01 /etc/mysql/debian-start[4352]: Checking for insecure root accounts.
Nov 08 13:29:24 sql-front-01 /etc/mysql/debian-start[4356]: Triggering myisam-recover for all MyISAM tables and aria-recover for all Aria tables
```

Gestion des bases de donnée

- Se connecter à MariaDB

```
root@sql-front-01:~# mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.4-MariaDB-1~deb12u1 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]>
```

- Lister les bases de donnée

```
MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
4 rows in set (0.001 sec)
```

- Créer une base de donnée

```
MariaDB [(none)]> create database TEST;
Query OK, 1 row affected (0.001 sec)
```

- Supprimer une base de donnée

```
MariaDB [(none)]> drop database TEST;
Query OK, 0 rows affected (0.003 sec)
```

- Sélectionner une base de donnée

```
MariaDB [(none)]> use mysql;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [mysql]>
```

- Lister les tables

```
MariaDB [mysql]> show tables;
+---------------------------+
| Tables_in_mysql           |
+---------------------------+
| column_stats              |
| columns_priv              |
| db                        |
| event                     |
| func                      |
| general_log               |
```

```
| global_priv               |
| gtid_slave_pos            |
| help_category             |
| help_keyword              |
| help_relation             |
| help_topic                |
| index_stats               |
| innodb_index_stats        |
| innodb_table_stats        |
| plugin                    |
| proc                      |
| procs_priv                |
| proxies_priv              |
| roles_mapping             |
| servers                   |
| slow_log                  |
| table_stats               |
| tables_priv               |
| time_zone                 |
| time_zone_leap_second     |
| time_zone_name            |
| time_zone_transition      |
| time_zone_transition_type |
| transaction_registry      |
| user                      |
+---------------------------+
31 rows in set (0.001 sec)
```

Gestion des utilisateurs

- Créer un utilisateur

```
MariaDB [(none)]> create user 'test'@'localhost';
Query OK, 0 rows affected (0.002 sec)
```

- Créer un utilisateur avec mot de passe

```
MariaDB [(none)]> create user 'test1'@'localhost' identified by 'password';
Query OK, 0 rows affected (0.001 sec)
```

- Mettre à jour le mot de passe d'un utilisateur

```
MariaDB [(none)]> set password for  'test'@'localhost' = password ('password');
Query OK, 0 rows affected (0.002 sec)
```

- Donner les droits a un utilisateur sur une base de donnée

```
MariaDB [(none)]> grant usage on test.* to  'test1'@'localhost';
Query OK, 0 rows affected (0.001 sec)
```

- Supprimer un utilisateur

```
MariaDB [(none)]> drop user 'test1'@'localhost';
Query OK, 0 rows affected (0.002 sec)
```

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