

Tutorial 4 (Part I)

MySQL Installation

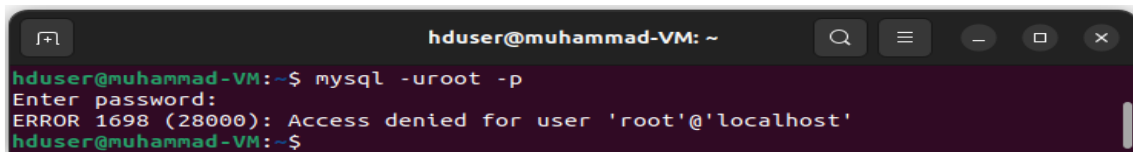
- 1) Open a terminal in Ubuntu OS. Install required packages. Set password to **password** when prompted.

```
$sudo apt update
$sudo apt install mysql-server
$sudo apt install mysql-client
$sudo apt install libmariadb-java
```

- 2) Create database **Test** and **testtable** table.

```
$mysql -uroot -p
```

Considering that MySQL doesn't currently have a password. Any password will result in an error, therefore, **finish step 4** before continuing to set the password for MySQL. We are using "password" to login for MySQL.



After completion of step 4, at the MySQL command prompt, Create the table in MySQL by using the following commands as

```
mysql>create database Test;
mysql>use Test;
mysql>CREATE TABLE testtable (id INTEGER PRIMARY KEY,
description VARCHAR(255));
mysql>show tables;
```

- 3) Exit the mysql session.

4) Reset Root Password

If you are facing any error during the login of mysql session

For MySQL 8 or above version and you can check the version by using (`$mysql --version`) on Ubuntu, run following commands as shown in the provided in the text format and the screenshot.

```
$sudo mysql
mysql>UPDATE mysql.user SET authentication_string=null WHERE User='root';
mysql>flush privileges;
mysql>ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY
'password';
```

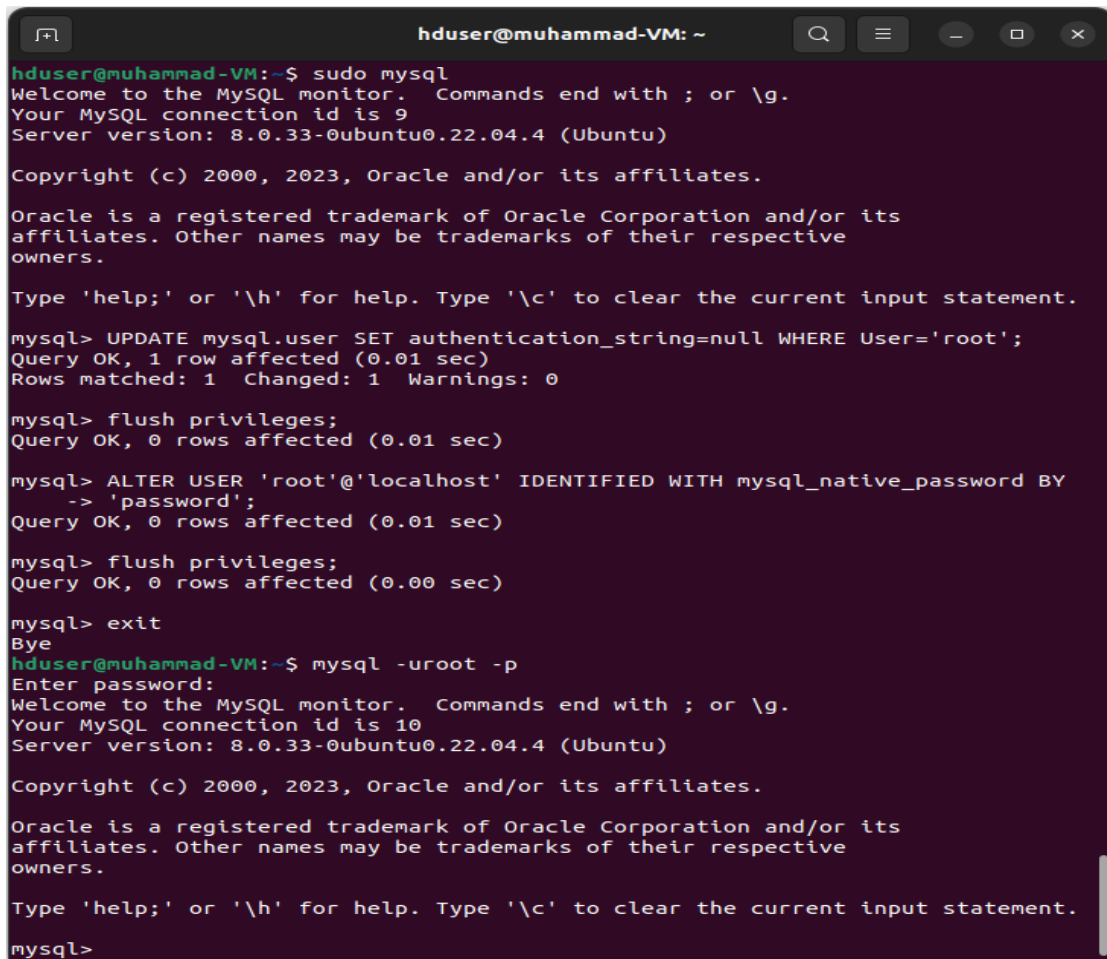
Flush privileges again.

```
mysql>flush privileges;
```

Exit MySQL.

```
mysql>exit
```

```
$mysql -uroot -p
```

A terminal window titled 'hduser@muhammad-VM: ~' showing the process of resetting the MySQL root password. The user runs 'sudo mysql' and enters the MySQL monitor. They execute 'UPDATE mysql.user SET authentication_string=null WHERE User='root';', 'flush privileges;', and 'ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'password';'. After another 'flush privileges;', they exit the monitor. Then, they run 'mysql -uroot -p', enter the password 'password', and are logged in as root. The terminal output includes MySQL version 8.0.33-0ubuntu0.22.04.4 and connection ID 9 and 10.

```
hduser@muhammad-VM:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.33-0ubuntu0.22.04.4 (Ubuntu)

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owners.

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

mysql> UPDATE mysql.user SET authentication_string=null WHERE User='root';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> flush privileges;
Query OK, 0 rows affected (0.01 sec)

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY
-> 'password';
Query OK, 0 rows affected (0.01 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)

mysql> exit
Bye
hduser@muhammad-VM:~$ mysql -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.33-0ubuntu0.22.04.4 (Ubuntu)

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owners.

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

mysql>
```

Note: When logging in to MySQL, use password as 'password'.

Reference:

<https://devanswers.co/how-to-reset-mysql-root-password-ubuntu/>