Database Server Setup(MySql)
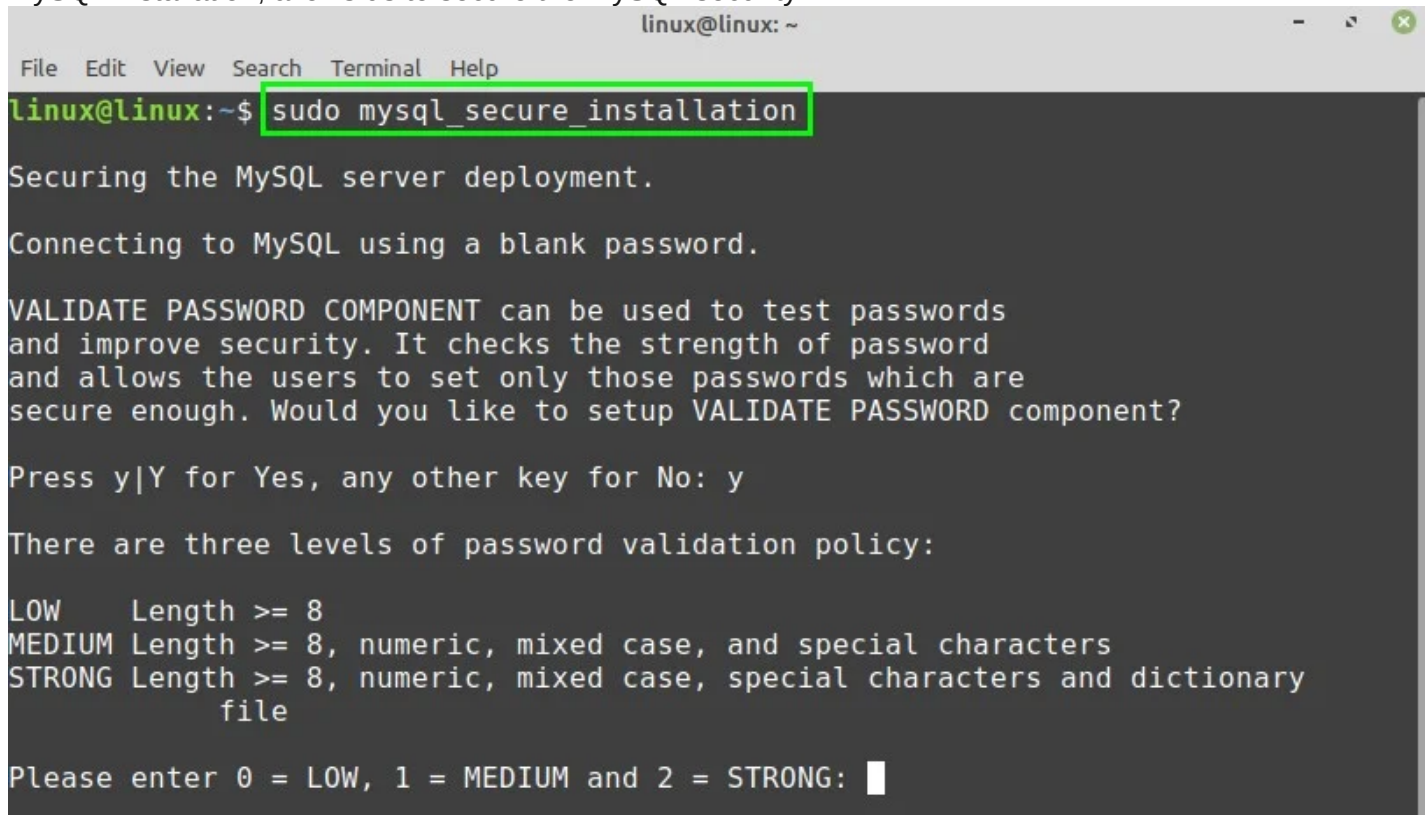
Last updated by | Shakibe Hasan | Jun 19, 2023 at 3:26 PM GMT+6

Installing MySQL

1. {sudo apt update}-to update the apt repository cache
2. {sudo apt install mysql-server}- installing the MySQL server
3. {mysql --version}- to check mysql version
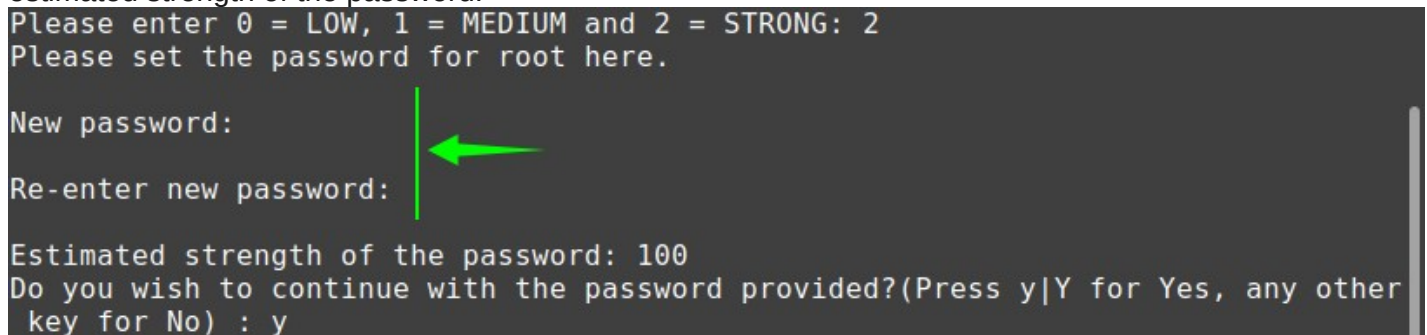4. {sudo systemctl status mysql}- to check the status of the MySQL server

Configuring the MySQL

- {sudo mysql_secure_installation}-The mysql_secure_installation script, which comes by default with the MySQL installation, allows us to secure the MySQL security.

Enter the password and re-enter the password for confirmation. The command line will display the estimated strength of the password.

```
Remove anonymous users? (Press y|Y for Yes, any other key for No) : y
Success.


Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n

 ... skipping.
By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.


Remove test database and access to it? (Press y|Y for Yes, any other key for No)
 : y
 - Dropping test database...
Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

All done!
```

- Creating new user
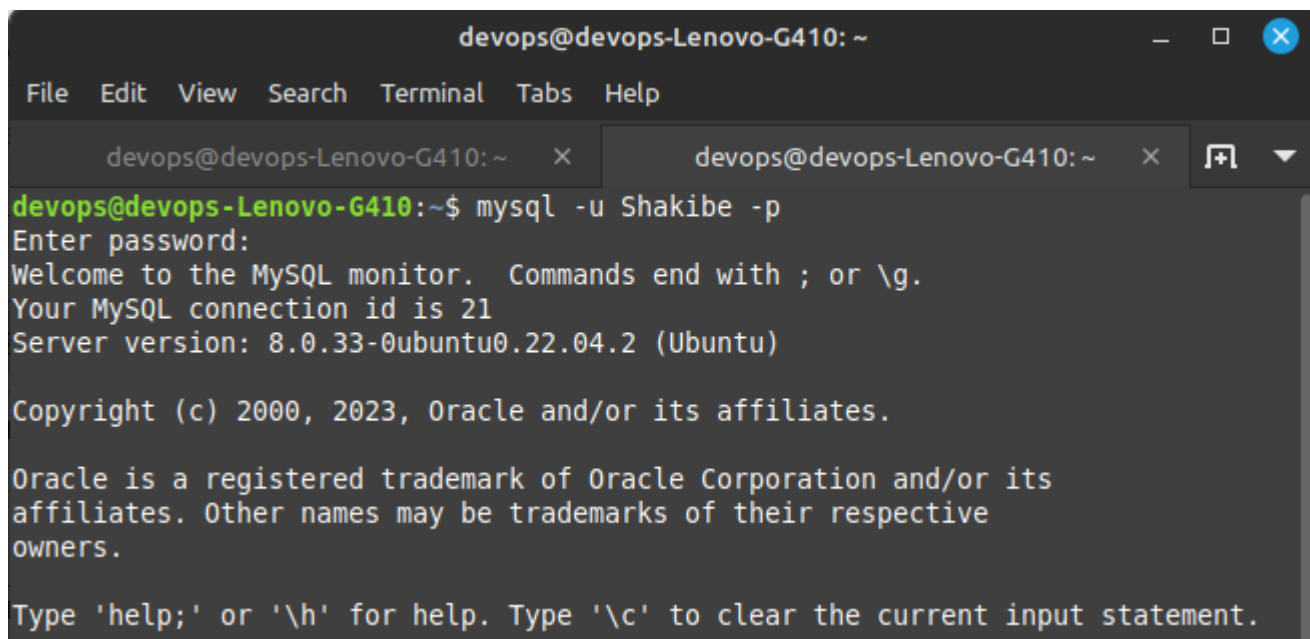 {CREATE USER user_name@'localhost' IDENTIFIED BY 'password';}

```
mysql> CREATE USER 'Shakibe'@'localhost' IDENTIFIED BY '#Devops2023';
Query OK, 0 rows affected (0.20 sec)

mysql> GRANT ALL PRIVILEGES ON *.* TO 'Shakibe'@'localhost';
Query OK, 0 rows affected (0.14 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.06 sec)
```

- Logging into MySQL server
  {mysql -u username –p}

```
                      devops@devops-Lenovo-G410: ~                    _  □  ✕

 File   Edit   View   Search   Terminal   Tabs   Help

     devops@devops-Lenovo-G410:~      ✕        devops@devops-Lenovo-G410:~    ✕

 devops@devops-Lenovo-G410:~$ mysql -u Shakibe -p
 Enter password:
 Welcome to the MySQL monitor.  Commands end with ; or \g.
 Your MySQL connection id is 21
 Server version: 8.0.33-0ubuntu0.22.04.2 (Ubuntu)

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 owners.

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

- Creating a database
  {CREATE DATABASE database_name;}

```
mysql> CREATE DATABASE devopsIntern;
Query OK, 1 row affected (0.21 sec)
```

- To see the list of all available databases
  {show databases;}

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| devopsIntern       |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.01 sec)
```

Ref: https://linuxhint.com/install-mysql-linux-mint-ubuntu/