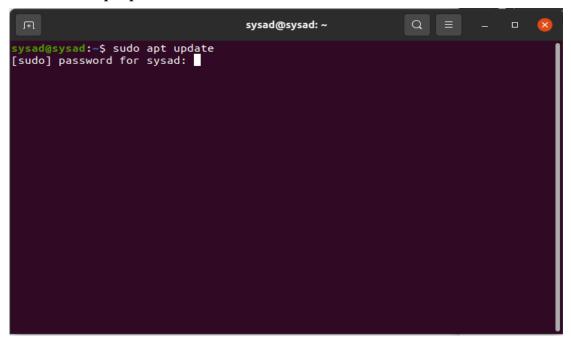
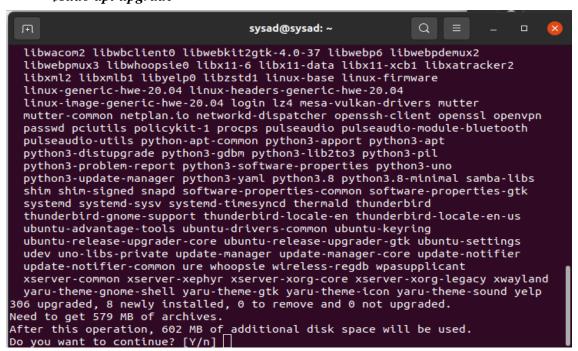
Step 1: Open the terminal and run the following command:

\$sudo apt update



Step 2: Next run upgrade.

\$sudo apt upgrade



Step 3: After successfully updating the package repository, install MySQL Server by running the following command:

\$sudo apt install mysql-server

When asked if you want to continue with the installation, answer **Y** and hit **ENTER**.

```
Ŧ
                                  sysad@sysad: ~
                                                           Q
                                                                          sysad@sysad:~$ sudo apt install mysql-server
[sudo] password for sysad:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
 libllvm11 shim
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
 libaio1 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7
 libevent-pthreads-2.1-7 libfcgi-perl libhtml-template-perl libmecab2
 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
 mysql-client-core-8.0 mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
 libipc-sharedcache-perl mailx tinyca
The following NEW packages will be installed:
 libaio1 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7
 libevent-pthreads-2.1-7 libfcgi-perl libhtml-template-perl libmecab2
 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
 mysql-client-core-8.0 mysql-server mysql-server-8.0 mysql-server-core-8.0
0 upgraded, 16 newly installed, 0 to remove and 0 not upgraded.
Need to get 31.4 MB of archives.
After this operation, 261 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

Step 4: Check if MySQL was successfully installed by running:

\$mysql --version

```
sysad@sysad:~$ mysql --version
mysql Ver 8.0.26-Oubuntu0.20.04.2 for Linux on x86_64 ((Ubuntu))
sysad@sysad:~$
```

Step 5: The MySQL instance on your machine is **insecure** immediately after installation.

1. Secure your MySQL user account with password authentication by running the included security script:

\$sudo mysql_secure_installation

```
sysad@sysad: ~
sysad@sysad:~$ mysql --version
sysad@sysad:~$ sudo mysql_secure_installation
Securing the MySQL server deployment.
Connecting to MySQL using a blank password.
VALIDATE PASSWORD COMPONENT can be used to test passwords
and improve security. It checks the strength of password
and allows the users to set only those passwords which are
secure enough. Would you like to setup VALIDATE PASSWORD component?
Press y|Y for Yes, any other key for No: y
There are three levels of password validation policy:
      Length >= 8
LOW
MEDIUM Length >= 8, numeric, mixed case, and special characters
STRONG Length >= 8, numeric, mixed case, special characters and dictionary
Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG:
```

The program estimates the strength of your password and requires confirmation to continue. Press **Y** if you are happy with the password or any other key if you want a different one.

```
Please set the password for root here.

New password:

Re-enter new password:

Estimated strength of the password: 50

Do you wish to continue with the password provided?(Press y|Y for Yes, any other key for No) : y
```

Step 6: The script then prompts for the following security features:

- Remove anonymous users?
- Disallow root login remotely?
- Remove the test database and access to it?
- Reload privilege tables now?

The recommended answer to all these questions is **Y**. However, if you want a different setting for any reason, enter any other key.

```
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) : y
Success.
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) :
- Dropping test database...
Success.
- Removing privileges on test database...
Success.
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!
sysad@sysad:~$
```

Step 7: Check if MySQL Service Is Running

Upon successfully installing MySQL, the MySQL service starts automatically.

Verify that the MySQL server is running by running:

\$sudo systemctl status mysql

The output should show that the service is operational and running:

Step 8: Log in to MySQL Server

Finally, to log in to the MySQL interface, run the following command:

\$sudo mysql -u root