



sarah@debian: ~



```
root@debian:/# sudo apt-get install mariadb-server
```



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Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

galera-4 gawk libaiol libcgi-fast-perl libcgi-pm-perl  
libconfig-inifiles-perl libdbd-mariadb-perl libdbi-perl libfcgi-bin  
libfcgi-perl libfcgi0ldbl libhtml-template-perl libmariadb3 libsigsegv2  
libterm-readkey-perl mariadb-client-10.5 mariadb-client-core-10.5  
mariadb-common mariadb-server-10.5 mariadb-server-core-10.5 mysql-common  
rsync socat

Suggested packages:

gawk-doc libmldbm-perl libnet-daemon-perl libsql-statement-perl  
libipc-sharedcache-perl mailx mariadb-test netcat-openbsd openssh-server

The following NEW packages will be installed:

galera-4 gawk libaiol libcgi-fast-perl libcgi-pm-perl  
libconfig-inifiles-perl libdbd-mariadb-perl libdbi-perl libfcgi-bin  
libfcgi-perl libfcgi0ldbl libhtml-template-perl libmariadb3 libsigsegv2  
libterm-readkey-perl mariadb-client-10.5 mariadb-client-core-10.5  
mariadb-common mariadb-server mariadb-server-10.5 mariadb-server-core-10.5  
mysql-common rsync socat

0 upgraded, 24 newly installed, 0 to remove and 0 not upgraded.

Need to get 17.2 MB of archives.

After this operation, 158 MB of additional disk space will be used.

Do you want to continue? [Y/n] ☐



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```
Setting up libcgi-pm-perl (4.51-1) ...
Setting up libfcgi-bin (2.4.2-2) ...
Setting up libhtml-template-perl (2.97-1.1) ...
Setting up socat (1.7.4.1-3) ...
Setting up libmariadb3:amd64 (1:10.5.18-0+deb11u1) ...
Setting up libfcgi-perl:amd64 (0.79+ds-2) ...
Setting up libterm-readkey-perl (2.38-1+b2) ...
Setting up libaiol:amd64 (0.3.112-9) ...
Setting up libdbi-perl:amd64 (1.643-3+b1) ...
Setting up rsync (3.2.3-4+deb11u1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/rsync.service → /lib
/systemd/system/rsync.service.
Setting up mariadb-server-core-10.5 (1:10.5.18-0+deb11u1) ...
Setting up libcgi-fast-perl (1:2.15-1) ...
Setting up libdbd-mariadb-perl (1.21-3) ...
Setting up mariadb-client-core-10.5 (1:10.5.18-0+deb11u1) ...
Setting up mariadb-client-10.5 (1:10.5.18-0+deb11u1) ...
Setting up mariadb-server-10.5 (1:10.5.18-0+deb11u1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /l
ib/systemd/system/mariadb.service.
Setting up mariadb-server (1:10.5.18-0+deb11u1) ...
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for libc-bin (2.31-13+deb11u5) ...
root@debian:/#
```



sarah@debian: ~



```
root@debian:/# mariadb-secure-installation
```



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```
root@debian:/# mariadb-secure-installation
```

```
NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB  
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!
```

```
In order to log into MariaDB to secure it, we'll need the current  
password for the root user. If you've just installed MariaDB, and  
haven't set the root password yet, you should just press enter here.
```

```
Enter current password for root (enter for none):
```

```
OK, successfully used password, moving on...
```

```
Setting the root password or using the unix_socket ensures that nobody  
can log into the MariaDB root user without the proper authorisation.
```

```
You already have your root account protected, so you can safely answer 'n'.
```

```
Switch to unix_socket authentication [Y/n] █
```





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Change the root password? [Y/n] n  
... skipping.

By default, a MariaDB installation has an anonymous user, allowing anyone to log into MariaDB without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.

Remove anonymous users? [Y/n] 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? [Y/n] y  
... Success!

By default, MariaDB 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? [Y/n] █



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By default, MariaDB 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? [Y/n] y

- 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? [Y/n] y

... Success!

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB installation should now be secure.

Thanks for using MariaDB!

root@debian:/#



sarah@debian: ~



```
root@debian:/# sudo mariadb -u root -p
```





sarah@debian: ~



```
root@debian:/# sudo mariadb -u root -p
```

```
Enter password:
```

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
```

```
Your MariaDB connection id is 38
```

```
Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11
```

```
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)]> █
```



sarah@debian: ~



```
root@debian:/# sudo mariadb -u root -p
```

```
Enter password:
```

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
```

```
Your MariaDB connection id is 38
```

```
Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11
```

```
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)]>
```

```
MariaDB [(none)]> exit
```

```
Bye
```

```
root@debian:/# █
```



sarah@debian: ~



```
root@debian:/# sudo mariadb -u root -p
```

```
Enter password:
```

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
```

```
Your MariaDB connection id is 39
```

```
Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11
```

```
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)]> CREATE DATABASE IF NOT EXISTS web1; █
```



sarah@debian: ~



```
root@debian:/# sudo mariadb -u root -p
```

```
Enter password:
```

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
```

```
Your MariaDB connection id is 39
```

```
Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11
```

```
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)]> CREATE DATABASE IF NOT EXISTS web1;
```

```
Query OK, 1 row affected (0.000 sec)
```

```
MariaDB [(none)]> █
```



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```
root@debian:/# sudo mariadb -u root -p
```

```
Enter password:
```

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
```

```
Your MariaDB connection id is 39
```

```
Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11
```

```
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)]> CREATE DATABASE IF NOT EXISTS web1;
```

```
Query OK, 1 row affected (0.000 sec)
```

```
MariaDB [(none)]> USE web1;
```

```
Database changed
```

```
MariaDB [web1]> █
```

sarah@debian: ~

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 40

Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11

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)]&gt; USE web1;

**Database changed**

MariaDB [web1]&gt; CREATE TABLE IF NOT EXISTS user (id INT NOT NULL PRIMARY KEY AUTO-INCREMENT, nom VARCHAR(100) NOT NULL, prenom VARCHAR(100) NOT NULL, sexe VARCHAR(1) NOT NULL, age INT NOT NULL);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'AUTO-INCREMENT, nom VARCHAR(100) NOT NULL, prenom VARCHAR(100) NOT NULL, sexe...' at line 1

MariaDB [web1]&gt; CREATE TABLE IF NOT EXISTS user (id INT NOT NULL PRIMARY KEY AUTO\_INCREMENT, nom VARCHAR(100) NOT NULL, prenom VARCHAR(100) NOT NULL, sexe VARCHAR(1) NOT NULL, age INT NOT NULL);

**Query OK, 0 rows affected (0.027 sec)**

MariaDB [web1]&gt; █





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

MariaDB [(none)]> USE web1;

**Database changed**

MariaDB [web1]> CREATE TABLE IF NOT EXISTS user (id INT NOT NULL PRIMARY KEY AUTO-INCREMENT, nom VARCHAR(100) NOT NULL, prenom VARCHAR(100) NOT NULL, sexe VARCHAR(1) NOT NULL, age INT NOT NULL);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'AUTO-INCREMENT, nom VARCHAR(100) NOT NULL, prenom VARCHAR(100) NOT NULL, sexe...' at line 1

MariaDB [web1]> CREATE TABLE IF NOT EXISTS user (id INT NOT NULL PRIMARY KEY AUTO\_INCREMENT, nom VARCHAR(100) NOT NULL, prenom VARCHAR(100) NOT NULL, sexe VARCHAR(1) NOT NULL, age INT NOT NULL);

**Query OK, 0 rows affected (0.027 sec)**

MariaDB [web1]> INSERT INTO user (nom, prenom, sexe, age) VALUES ('Ferguson', 'Sarah', 'F', 26), ('Gagnon', 'Alex', 'M', 20), ('Roy', 'Mathieu', 'M', 39), ('Michaud', 'Emma', 'F', 14);

**Query OK, 4 rows affected (0.003 sec)**

**Records: 4 Duplicates: 0 Warnings: 0**

MariaDB [web1]> █



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Your MariaDB connection id is 41

Server version: 10.5.18-MariaDB-0+deb11u1 Debian 11

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)]> USE web1;

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 [web1]> SELECT \* FROM user;

id	nom	prenom	sexe	age
1	Ferguson	Sarah	F	26
2	Gagnon	Alex	M	20
3	Roy	Mathieu	M	39
4	Michaud	Emma	F	14

4 rows in set (0.000 sec)

MariaDB [web1]>



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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)]> USE web1;

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 [web1]> SELECT \* FROM user;

id	nom	prenom	sexe	age
1	Ferguson	Sarah	F	26
2	Gagnon	Alex	M	20
3	Roy	Mathieu	M	39
4	Michaud	Emma	F	14

4 rows in set (0.000 sec)

MariaDB [web1]> exit

Bye

root@debian: /#