

I installed Rocky 9.3 in a VirtualBox VM

Using [this documentation](#), I installed MariaDB:

Login as the root user

> sudo su

Install the package

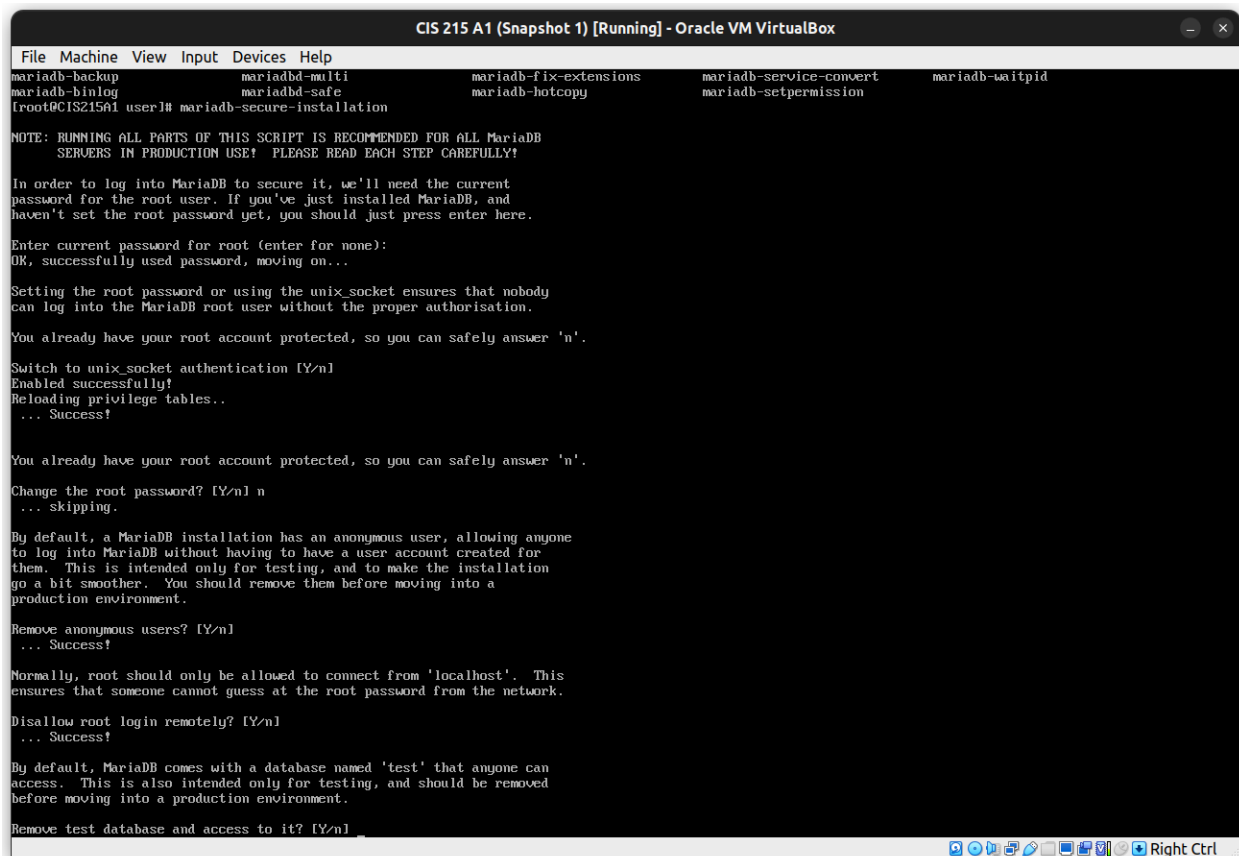
> dnf install mariadb-server

Enable and start the service

> systemctl enable --now mariadb

Then ran a recommended security script

> mariadb-secure-installation



```
File Machine View Input Devices Help
mariadb-backup      mariadb-multi      mariadb-fix-extensions  mariadb-service-convert  mariadb-waitpid
mariadb-binlog     mariadb-safe      mariadb-hotcopy         mariadb-setpermission
[root@CIS215A1 user]# 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]
Enabled successfully!
Reloading privilege tables..
... Success!

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

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]
... 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]
... 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]
```

```
CIS 215 A1 (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Switch to unix_socket authentication [Y/n]
Enabled successfully!
Reloading privilege tables..
... Success!

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

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]
... 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]
... 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]
- 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]
... 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@CIS215A1 user1#
```

I then created a database user via the mysql commandline

user : password

```
> CREATE USER 'user'@'%' IDENTIFIED BY 'password';
```

```
> GRANT ALL ON * . * TO 'user'@'%'
```

I tested the connection to the database via Azure Data Studio, and could not connect. I found that the firewall was enabled and blocking, so I disabled it for the time being.

I also got sick of using the VM TTY so I configured a SSH connection to the host.

I then used data studio to create a database called FUN with a table called FUN with an integer pk and a string, the same as the database in #2