Ingresamos al contenedor de Ubuntu en Ubuntu, lo actualizamos

```
root@ubuntudocker-VirtualBox:/home/ubuntudocker# docker run -it ubuntu
root@971b076e5b49:/# apt update
Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [109 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal InRelease [265 kB]
Get:3 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [21.6 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [651 kB]
Get:5 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [671 kB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [177 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:8 http://archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:9 http://archive.ubuntu.com/ubuntu focal/universe amd64 Packages [11.3 MB]
Get:10 http://archive.ubuntu.com/ubuntu focal/main amd64 Packages [1275 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [177 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal/restricted amd64 Packages [33.4 kB]
Get:13 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1060 kB]
Get:14 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [29.6 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [934 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [209 kB]
Get:17 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [4301 B]
Fetched 17.2 MB in 4s (3916 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
6 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@971b076e5b49:/# sudo apt install mariadb-server
bash: sudo: command not found
root@971b076e5b49:/# apt install mariadb-server
```

y luego procedemos a instalar MariaDB

```
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Setting up perl (5.30.0-9ubuntu0.2) ...
Setting up mariadb-client-10.3 (1:10.3.25-0ubuntu0.20.04.1) ...
Setting up libio-html-perl (1.001-1) ...
Setting up libtimedate-perl (2.3200-1) ...
Setting up libfcgi-perl (0.79-1) ...
Setting up libterm-readkey-perl (2.38-1build1) ...
Setting up liburi-perl (1.76-2) ...
Setting up libdbi-perl:amd64 (1.643-1) ...
Setting up libhttp-date-perl (6.05-1) ...
Setting up libhtml-tagset-perl (3.20-4) ...
Setting up liblwp-mediatypes-perl (6.04-1) ...
Setting up libencode-locale-perl (1.05-1) ...
Setting up libdbd-mysql-perl:amd64 (4.050-3) ...
Setting up libhtml-parser-perl (3.72-5) ...
Setting up mariadb-server-10.3 (1:10.3.25-0ubuntu0.20.04.1) ...
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialo
g.pm line 76.)
debconf: falling back to frontend: Readline
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Setting up libhttp-message-perl (6.22-1) ...
Setting up libcgi-pm-perl (4.46-1) ...
Setting up libhtml-template-perl (2.97-1) ...
Setting up mariadb-server (1:10.3.25-0ubuntu0.20.04.1) ...
Setting up libcgi-fast-perl (1:2.15-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.1) ...
root@451954a76ced:/#
```

Luego procedemos a configurar mariaDB

```
root@451954a76ced:/# mysql_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
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
Enter current password for root (enter for none):
```

Iniciamos el servicio de mysql, para que pueda funcionar correctamente

```
root@451954a76ced:/# service mysql start
 * Starting MariaDB database server mysqld
```

Configuraciones iniciales de mariaDB

```
Enter current password for root (enter for none):
OK, successfully used password, moving on...

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

Set 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] Y
```

Creamos un usuario root:

```
root@451954a76ced:/# mariadb
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 57
Server version: 10.3.25-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

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)]> GRANT ALL ON *.* TO 'admin'@'localhost' IDENTIFIED BY 'clave1+*' WITH GRANT OPTION;
Query OK, 0 rows affected (0.016 sec)
```

Revisamos si quedo bien instalado

```
mysqladmin  Ver 9.1 Distrib 10.3.25-MariaDB, for debian-linux-gnu on x86_64
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Server version          10.3.25-MariaDB-0ubuntu0.20.04.1
Protocol version        10
Connection              Localhost via UNIX socket
UNIX socket             /var/run/mysqld/mysqld.sock
Uptime:                 17 min 35 sec

Threads: 7  Questions: 475  Slow queries: 0  Opens: 177  Flush tables: 1  Open tables: 31  Queries per second avg: 0.450
root@451954a76ced:/#
```

Luego ingresamos a mariadb y creamos las tres bases de datos

```
root@451954a76ced:/# mariadb
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 60
Server version: 10.3.25-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> CREATE DATABASE `urreadata`;
Query OK, 1 row affected (0.012 sec)

MariaDB [(none)]> CREATE DATABASE `pachondata`;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> CREATE DATABASE `cubillosdata`;
Query OK, 1 row affected (0.000 sec)
```

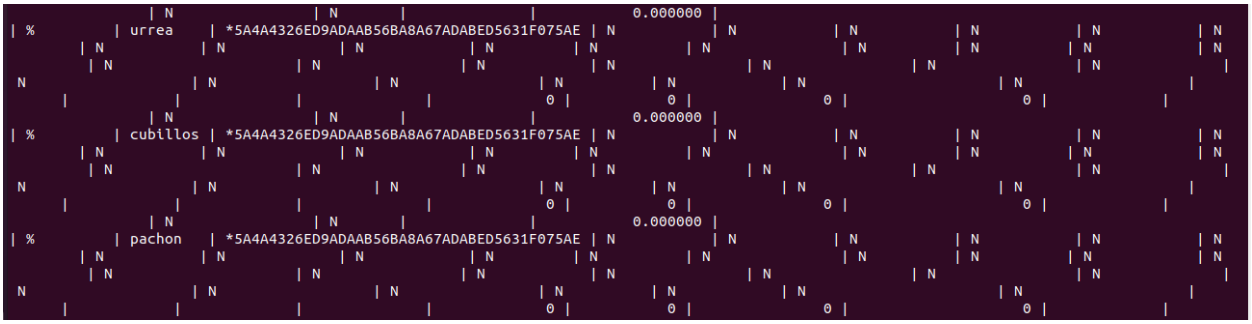
Creamos los tres usuarios

```
MariaDB [(none)]> CREATE USER 'urrea' IDENTIFIED BY 'clave';
Query OK, 0 rows affected (0.000 sec)

MariaDB [(none)]> CREATE USER 'cubillos' IDENTIFIED BY 'clave';
Query OK, 0 rows affected (0.000 sec)

MariaDB [(none)]> CREATE USER 'pachon' IDENTIFIED BY 'clave';
Query OK, 0 rows affected (0.000 sec)
```

Confirmamos la creación de los usuarios:



Creamos las tablas