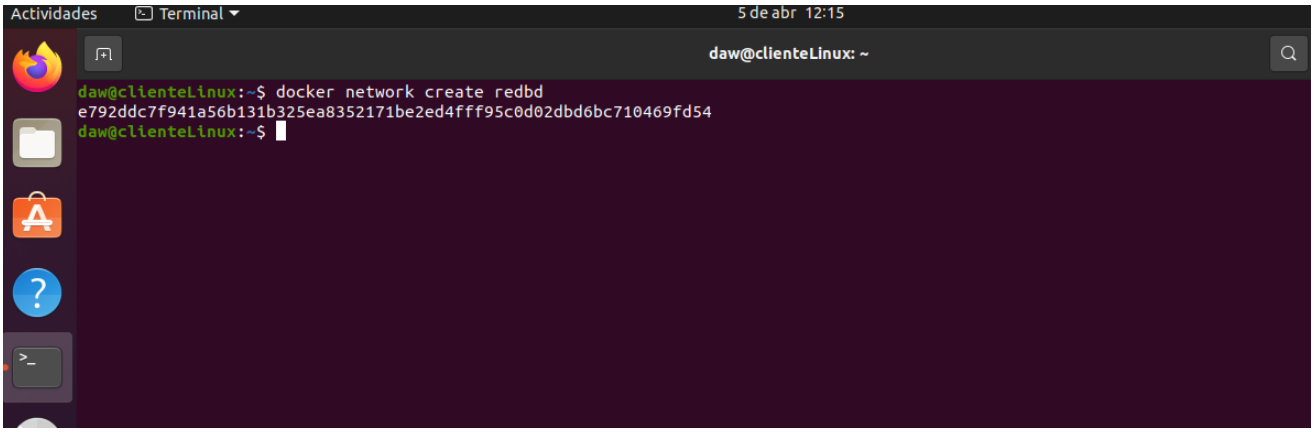
Ejercicio 3 - redes Despliegue de contenedores en red: Adminer y MariaDB

1. Crea una red bridge redbd

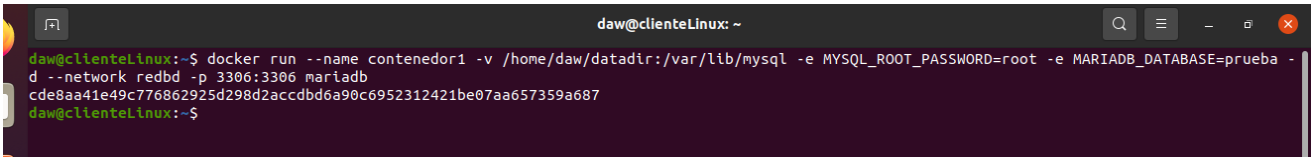
```
docker network create redbd
```



2.Crea un contenedor con una imagen de mariaDB que estará en la red redbd .

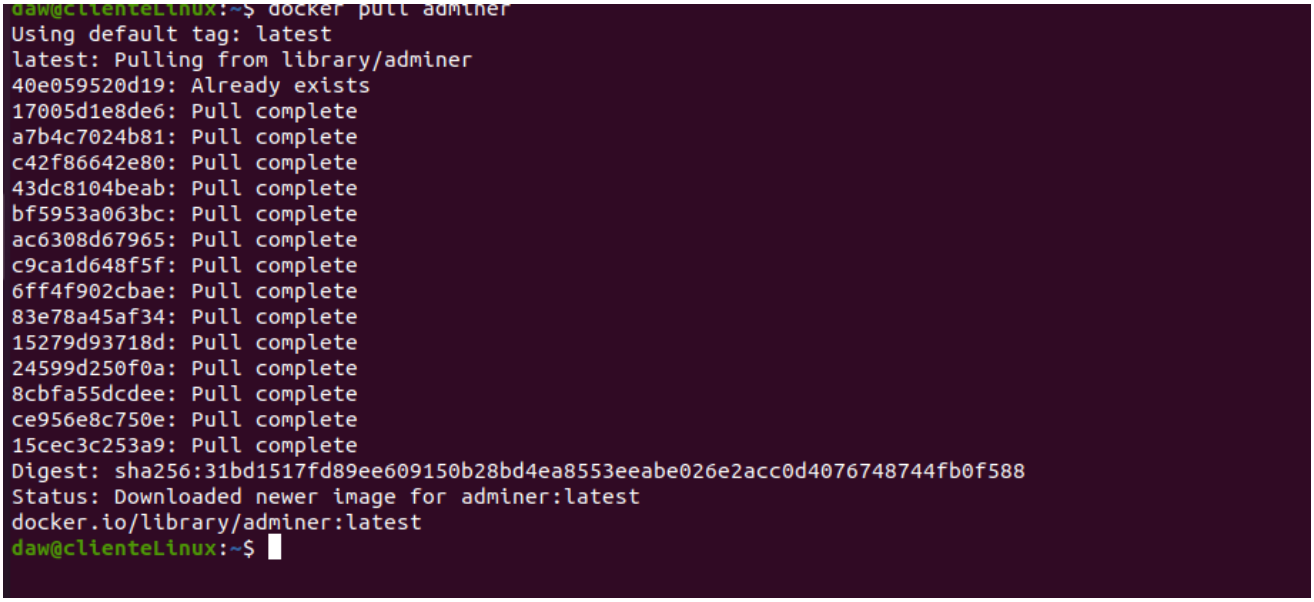
Este contenedor se ejecutará en segundo plano, y será accesible a través del puerto 3306. (Es necesario definir la contraseña del usuario root y un volumen de datos persistente)

```
docker run --name contenedor1 -v /home/daw/datadir:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=root -e
MARIADB_DATABASE=prueba -d --network redbd -p 3306:3306 mariadb
```

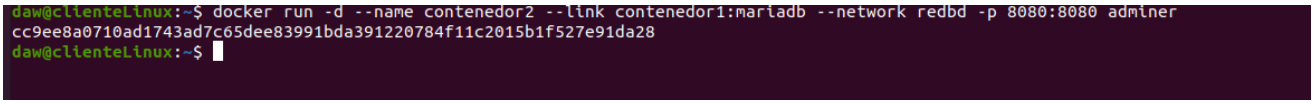


3. Crea un contenedor con Adminer que se pueda conectar al contenedor de la BD

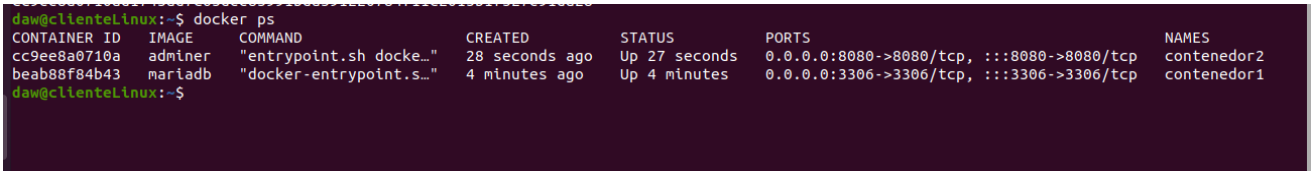
```
docker pull adminer
```



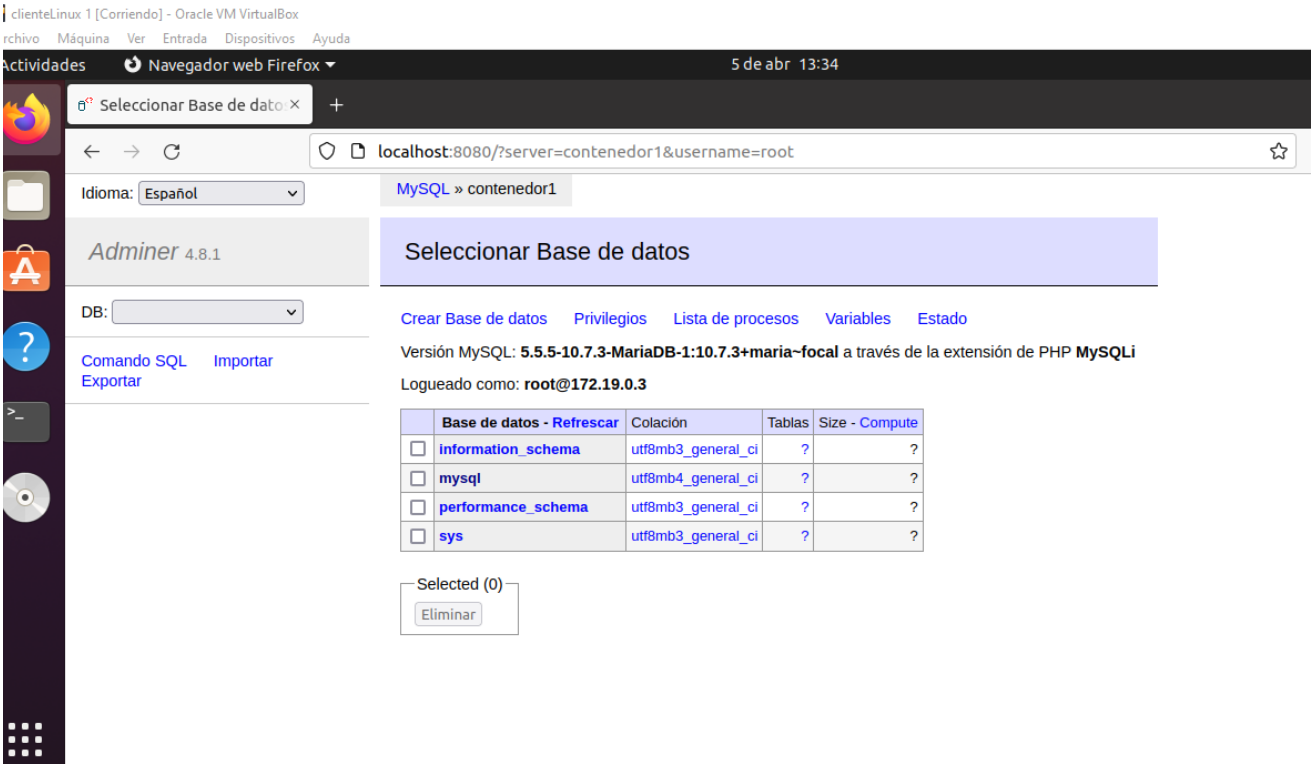

```
docker run -d --name contenedor2 --link contenedor1:mariadb --network redbd -p 8080:8080 adminer
```



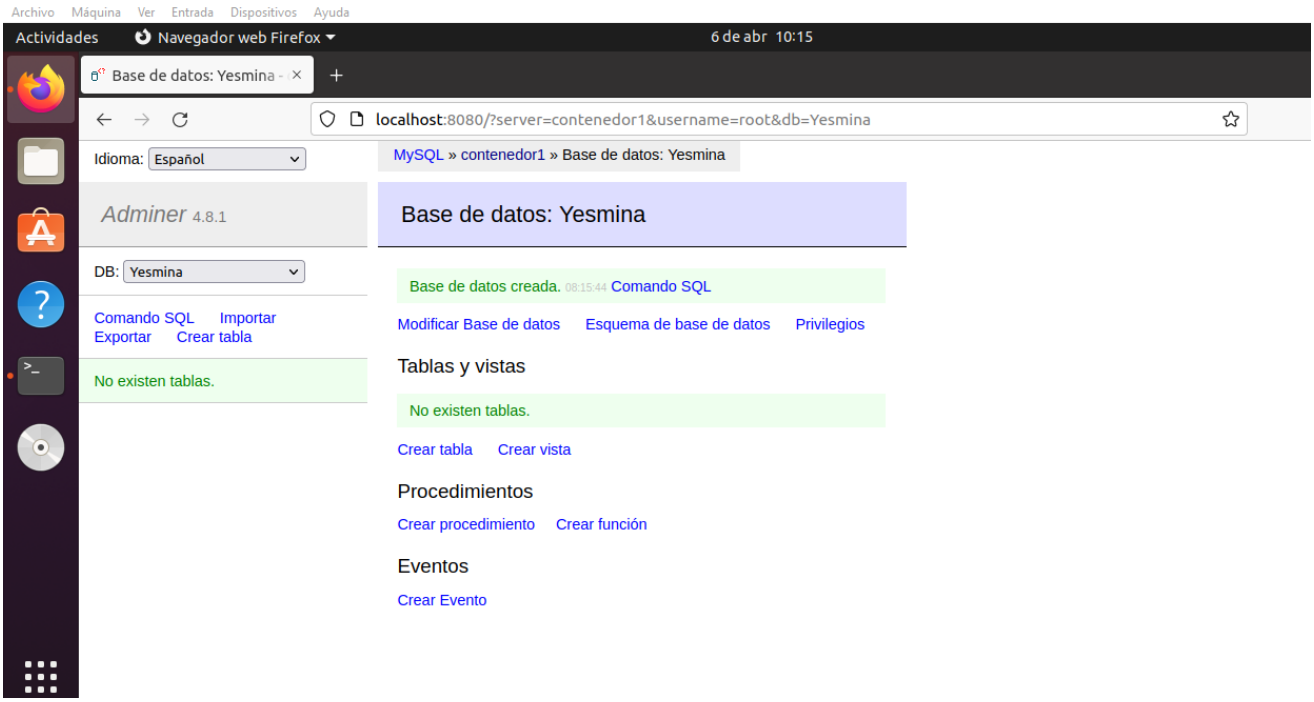
-compruebo que los dos contenedores estan ok



4. Comprueba que el contenedor Adminer puede conectar con el contenedor mysql abriendo un navegador web y accediendo a la URL: http://localhost:8080

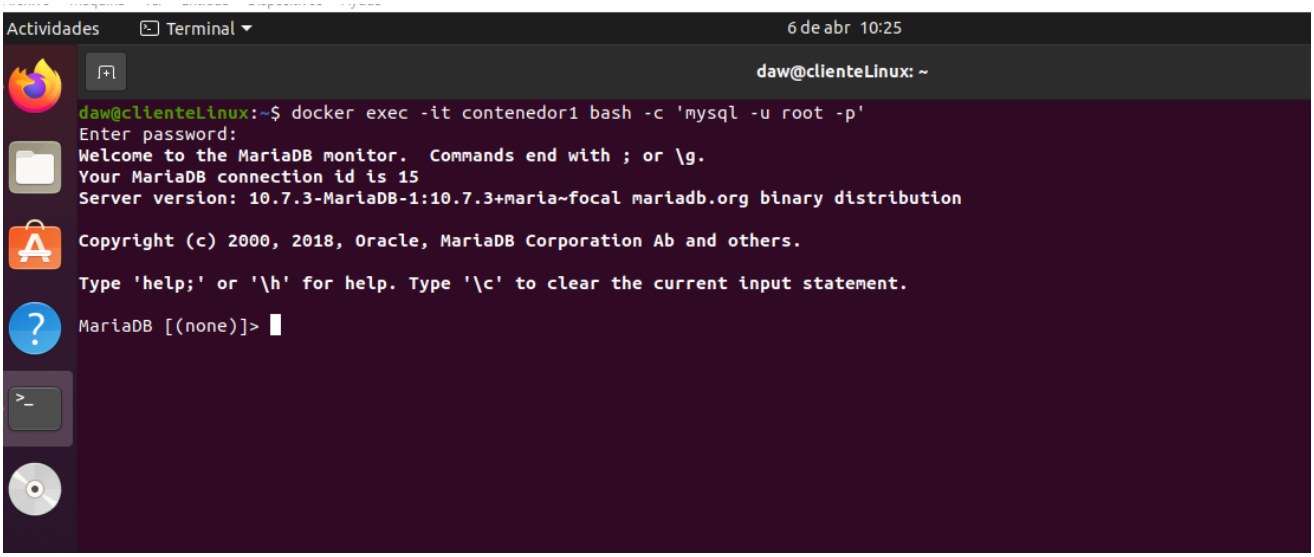


Pantallazo donde se vea la creación de una BD con la interfaz web Adminer



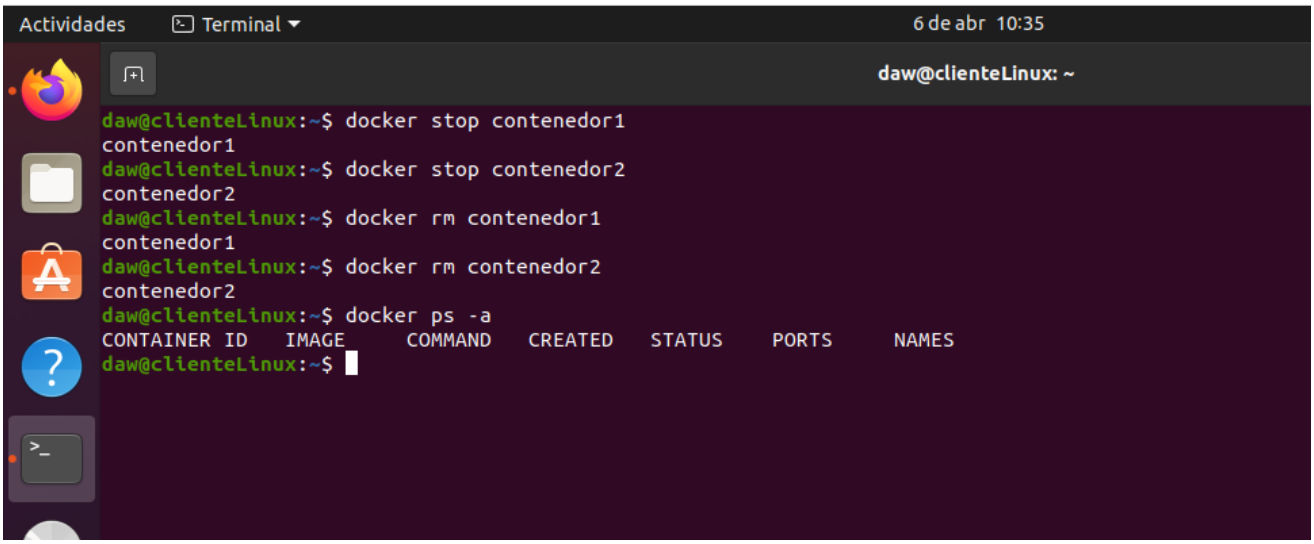
Pantallazo donde se entre a la consola del servidor web en modo texto y se compruebe que se ha creado la BD

```
docker exec -it contenedor1 bash -c 'mysql -u root -p'
```



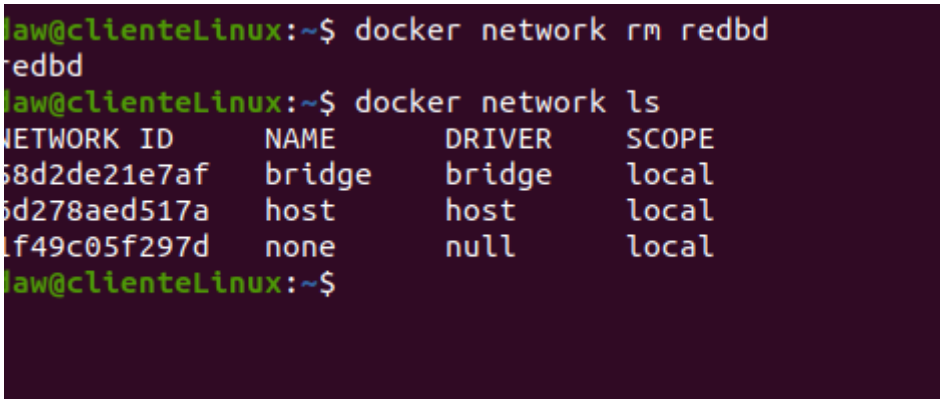
Borrar los contenedores, la red, y los volúmenes utilizados

-Paramos y borramos los contenedores



-Ahora ya podriamos borrar la red

```
docker network rm redbd
```



-Y por ultimo busco y limpio todos los volumenes creados (con lo del alamcenamiento persistente)y porque me confundi varias veces al crear los contenedores .

```
docker volume ls
```


```
docker volume prune
```

```
daw@clienteLinux:~$ docker volume prune
WARNING! This will remove all local volumes not used by at least one container.
Are you sure you want to continue? [y/N] y
Deleted Volumes:
0a0fee9bed71a71088a2025ccf7c6299068dd4f1e220389e0407e106e0966fbd
655fa75943947e151365b093cf9d354c5511aa56acab256b8e1d8093263e30e6
7f346093309d8d8f09c0d444ce53f7b916681514670b60f03e1b778daf852080
9cd3531d89838afb59cfa0e91a797040263ff414815612e6778378c86a61f609
d8f1c564ab838094991fa458f02864d22ee12eb42c74ad9da9824cf36d71b483
da06d88f692519f9c15ad6e8c5862920d50075e9fb0d494b9be34b5a419fb080
07d5114e75096556e595232aa0700bbae858c65900c6aa785c77493a8b38482d

Total reclaimed space: 1.015GB
```

-compruebo que se hayan borrado

```
daw@clienteLinux:~$ docker volume ls
DRIVER    VOLUME NAME
daw@clienteLinux:~$
```