

Atividade de Banco de Dados

Play with Docker

Aluno: Dylan Mesquita de Melo

```
#####
#                               #
#   WARNING!!!!                #
#   # This is a sandbox environment. Using personal credentials       #
#   # is HIGHLY! discouraged. Any consequences of doing so are       #
#   # completely the user's responsibilities.                          #
#   #                                                                   #
#   # The FWD team.                                                   #
#####

[node1] (local) root@192.168.0.13 ~
$ docker run --name mysql-pwd -e MYSQL_ROOT_PASSWORD=senha_segura -p 3306:3306 -d mysql:latest
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
43c486e74c6d: Pull complete
86362e2a75e4: Pull complete
ba155de89fc7: Pull complete
1770ba94c103: Pull complete
d89ba43c350c: Pull complete
55f4efd3f008: Pull complete
e7b97b02f10e: Pull complete
2f44111e3dd4: Pull complete
545a2bff0604: Pull complete
Digest: sha256:072f96c2f1ebb13f712fd88d0ef98f2ef9a52ad4163ae67b550ed6720b6d642e
Status: Downloaded newer image for mysql:latest

[node1] (local) root@192.168.0.13 ~
$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
5aff83caf833  mysql:latest  "docker-entrypoint.s..." About a minute ago Up About a minute 0.0.0.0:3306->3306/tcp, 33060/tcp
mysql-pwd

[node1] (local) root@192.168.0.13 ~
$ docker logs mysql-pwd
2025-06-23 15:48:52+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 9.3.0-1.el9 started.
2025-06-23 15:48:52+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2025-06-23 15:48:52+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 9.3.0-1.el9 started.
2025-06-23 15:48:53+00:00 [Note] [Entrypoint]: Initializing database files
2025-06-23T15:48:53.175118Z 0 [System] [MY-015017] [Server] MySQL Server Initialization - start.
2025-06-23T15:48:53.177389Z 0 [System] [MY-013169] [Server] /usr/sbin/mysqld (mysqld 9.3.0) initializing of server in progress as process 80
2025-06-23T15:48:53.187632Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2025-06-23T15:48:53.422125Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2025-06-23T15:48:54.299621Z 6 [Warning] [MY-010453] [Server] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.
2025-06-23T15:48:56.155114Z 0 [System] [MY-015018] [Server] MySQL Server Initialization - end.
2025-06-23 15:48:56+00:00 [Note] [Entrypoint]: Database files initialized
2025-06-23 15:48:56+00:00 [Note] [Entrypoint]: Starting temporary server
2025-06-23T15:48:56.243248Z 0 [System] [MY-015015] [Server] MySQL Server - start.
2025-06-23T15:48:56.243248Z 0 [System] [MY-015015] [Server] MySQL Server - start.
2025-06-23T15:48:56.558244Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 9.3.0) starting as process 121
2025-06-23T15:48:56.580071Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2025-06-23T15:48:56.825369Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2025-06-23T15:48:57.187649Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
2025-06-23T15:48:57.187708Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
2025-06-23T15:48:57.189891Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a different directory.
2025-06-23T15:48:57.226247Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '9.3.0' socket: '/var/run/mysqld/mysqld.sock' port: 0 MySQL Community Server - GPL.
2025-06-23T15:48:57.226225Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Socket: /var/run/mysqld/mysqld.sock
2025-06-23 15:48:57+00:00 [Note] [Entrypoint]: Temporary server started.
Warning: Unable to load '/usr/share/zoneinfo/iso3166.tab' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/leap-seconds.list' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/leapseconds' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/tzdata.zi' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/zone.tab' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/zone1970.tab' as time zone. Skipping it.
2025-06-23 15:48:59+00:00 [Note] [Entrypoint]: Stopping temporary server
2025-06-23T15:48:59.932528Z 11 [System] [MY-013172] [Server] Received SHUTDOWN from user root. Shutting down mysqld (Version: 9.3.0).
2025-06-23T15:49:00.529497Z 0 [System] [MY-010910] [Server] /usr/sbin/mysqld: Shutdown complete (mysqld 9.3.0) MySQL Community Server - GPL.
2025-06-23T15:49:00.529543Z 0 [System] [MY-015016] [Server] MySQL Server - end.
2025-06-23 15:49:00+00:00 [Note] [Entrypoint]: Temporary server stopped
2025-06-23 15:49:00+00:00 [Note] [Entrypoint]: MySQL init process done. Ready for start up.
2025-06-23T15:49:00.961531Z 0 [System] [MY-015015] [Server] MySQL Server - start.
2025-06-23T15:49:01.280208Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 9.3.0) starting as process 1
2025-06-23T15:49:01.289273Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2025-06-23T15:49:01.538016Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2025-06-23T15:49:01.855956Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
2025-06-23T15:49:01.856035Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
2025-06-23T15:49:01.858491Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a different directory.
2025-06-23T15:49:01.895032Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Bind-address: '::' port: 33060, socket: /var/run/mysqld/mysqld.sock
2025-06-23T15:49:01.895063Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '9.3.0' socket: '/var/run/mysqld/mysqld.sock' port: 3306 MySQL Community Server - GPL.
[node1] (local) root@192.168.0.13 ~
$ docker exec -it mysql-pwd mysql -u root -p
Enter password:
```

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Play with Docker

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```
$ docker exec -it mysql-pwd mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 9.3.0 MySQL Community Server - GPL

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owners.

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

mysql> CREATE DATABASE meubanco;
Query OK, 1 row affected (0.003 sec)

mysql> USE meubanco;
Database changed
mysql> CREATE TABLE usuarios (id INT AUTO_INCREMENT PRIMARY KEY, nome VARCHAR(50));
Query OK, 0 rows affected (0.017 sec)

mysql> INSERT INTO usuarios(nome) VALUES ('Joao'), ('Maria');

mysql> SELECT * FROM usuarios
->
-> SELECT * FROM usuarios;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'SELECT * FROM usuarios' at line 3
mysql> SELECT * FROM usuarios;
+----+-----+
| id | nome |
+----+-----+
| 1  | Joao |
| 2  | Maria|
+----+-----+
2 rows in set (0.001 sec)

mysql> SELECT nome FROM usuarios;
+-----+
| nome |
+-----+
| Joao |
| Maria|
+-----+
2 rows in set (0.001 sec)
```