

# Avaliação 04 - Banco de Dados

## 3. Executar o contêiner MySQL

```
[node1] (local) root@192.168.0.13 ~
$ docker run --name mysql-pwd -e MYSQL_ROOT_PASSWORD=123456A -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
958d7f5cf224: Pull complete
Digest: sha256:072f96c2f1ebb13f712fd88d0ef98f2ef9a52ad4163ae67b550ed6720b6d642e
Status: Downloaded newer image for mysql:latest
6fe310b4b915d9d6fa4c5f3f4bedee531e12edaf327b83f0da0f6f03f321238
```

## Verificar o contêiner

```
[node1] (local) root@192.168.0.13 ~
$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAMES
6fe310b4b915   mysql:latest   "docker-entrypoint.s..." 47 seconds ago Up 46 seconds 0.0.0.0:3306->3306/tcp, 33060/tcp
mysql-pwd
```

```
[node1] (local) root@192.168.0.13 ~
$ docker logs mysql-pwd
2025-06-18 17:53:51+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 9.3.0-1.el9 started.
2025-06-18 17:53:51+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2025-06-18 17:53:51+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 9.3.0-1.el9 started.
2025-06-18 17:53:51+00:00 [Note] [Entrypoint]: Initializing database files
2025-06-18T17:53:51.879038Z 0 [System] [MY-015017] [Server] MySQL Server Initialization - start.
2025-06-18T17:53:51.881139Z 0 [System] [MY-013169] [Server] /usr/sbin/mysqld (mysqld 9.3.0) initializing of server in progress as process 79
2025-06-18T17:53:51.889148Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2025-06-18T17:53:52.111611Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2025-06-18T17:53:53.153790Z 6 [Warning] [MY-010453] [Server] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.
2025-06-18T17:53:54.788286Z 0 [System] [MY-015018] [Server] MySQL Server Initialization - end.
2025-06-18 17:53:54+00:00 [Note] [Entrypoint]: Database files initialized
2025-06-18 17:53:54+00:00 [Note] [Entrypoint]: Starting temporary server
2025-06-18T17:53:54.883177Z 0 [System] [MY-015015] [Server] MySQL Server - start.
2025-06-18T17:53:55.179580Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 9.3.0) starting as process 120
2025-06-18T17:53:55.198122Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2025-06-18T17:53:55.427696Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2025-06-18T17:53:55.771112Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
2025-06-18T17:53:55.771176Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
2025-06-18T17:53:55.773041Z 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.
2025-06-18T17:53:55.807049Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Socket: /var/run/mysqld/mysqlx.sock
2025-06-18T17:53:55.807231Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '9.3.0' socket: '/var/run/mysqld/mysqlx.sock' port: 0 MySQL Community Server - GPL.
2025-06-18 17:53:55+00:00 [Note] [Entrypoint]: Temporary server started.
'/var/lib/mysql/mysql.sock' -> '/var/run/mysqld/mysqld.sock'
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.
```

## 5. Acessar o MySQL via terminal

```
[node1] (local) root@192.168.0.13 ~  
$ 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 10  
Server version: 9.3.0 MySQL Community Server - GPL  
  
Copyright (c) 2000, 2025, Oracle and/or its affiliates.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

## 6. Criar um banco de dados e tabela

```
mysql> CREATE DATABASE meubanco;  
Query OK, 1 row affected (0.002 sec)  
  
mysql> USE meubanco;  
Database changed  
mysql> CREATE TABLE usuarios (id INT AUTO_INCREMENT PRIMARY KEY, nome VARCHAR(50));  
Query OK, 0 rows affected (0.006 sec)  
  
mysql> INSERT INTO usuarios (nome) VALUES ('Joo'), ('Maria');  
Query OK, 2 rows affected (0.009 sec)  
Records: 2  Duplicates: 0  Warnings: 0
```