

# Atividade 07 - ASR Telemática

## Como Instalar o MySQL com o PhpMyAdmin no Docker

1) Verificar Instalação do Docker:

```
cisco@labvm:~$ docker --version
Docker version 28.2.2, build 28.2.2-0ubuntu1~22.04.1
cisco@labvm:~$ docker-compose --version
docker-compose version 1.29.2, build unknown
cisco@labvm:~$
```

2) Criar um Diretório para o Projeto e Criar o arquivo docker-compose.yml:

```
cisco@labvm:~$ mkdir mysql-docker-tutorial
cisco@labvm:~$ cd mysql-docker-tutorial
cisco@labvm:~/mysql-docker-tutorial$ cd ..
cisco@labvm:~$ setxkbmap -layout br
cisco@labvm:~$ cd mysql-docker-tutorial
cisco@labvm:~/mysql-docker-tutorial$ mkdir -p data/mysql
cisco@labvm:~/mysql-docker-tutorial$ nano docker-compose.yml
```

3) Escreva o conteúdo do arquivo:

```
GNU nano 6.2 docker-compose.yml *
version: '3.8'

services:
  mysql:
    image: mysql:8.0
    container_name: mysql_container
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: rootpassword123
      MYSQL_DATABASE: meubanco
      MYSQL_USER: meusuario
      MYSQL_PASSWORD: password123
    ports:
      - "3306:3306"
    volumes:
      - ./data/mysql:/var/lib/mysql
    networks:
      - mysql-network

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute  ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

```

GNU nano 6.2                                docker-compose.yml *
phpmyadmin:
  image: phpmyadmin/phpmyadmin:latest
  container_name: phpmyadmin_container
  restart: always
  environment:
    PMA_HOST: mysql
    PMA_PORT: 3306
  ports:
    - "8080:80"
  depends_on:
    - mysql
  networks:
    - mysql-network

networks:
  mysql-network
    driver: bridge
EOF
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line

```

- 4) Executar os containers usando 'docker-compose up -d' e verificar se estão rodando:

```

danielinux@danielinux-virtualbox:~/mysql-phpmyadmin-docker$ sudo docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS      PORTS
9d33d9ea2d08   phpmyadmin/phpmyadmin              "/docker-entrypoint...." 28 minutes ago Up 11 minutes 0.0.0.0:8080->80/tcp, :::8080->80/tcp
phpmyadmin_container
cd8327692510   mysql:8.0                          "docker-entrypoint.s..." 29 minutes ago Up 11 minutes 0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
mysql_container

danielinux@danielinux-virtualbox:~/mysql-phpmyadmin-docker$ docker-compose ps
      Name                                Command                  State      Ports
-----
mysql_container      docker-entrypoint.sh    Up         0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
phpmyadmin_container /docker-entrypoint.sh   Up         0.0.0.0:8080->80/tcp, :::8080->80/tcp

danielinux@danielinux-virtualbox:~/mysql-phpmyadmin-docker$ docker-compose ps
      Name                                Command                  State      Ports
-----
mysql_container      docker-entrypoint.sh    Up         0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
phpmyadmin_container /docker-entrypoint.sh   Up         0.0.0.0:8080->80/tcp, :::8080->80/tcp

```

5) Acessar o PhpMyAdmin:

- Abra o navegador para 'http://localhost:8080'
- Use o Usuário e Senha definidos no docker-compose.yml

6) Conectar ao MySQL diretamente via linha de comando (opcional);

```
danielinux@danielinux-virtualbox:~/mysql-phpmyadmin-docker$ docker-compose re
start
Restarting phpmyadmin_container ... done
Restarting mysql_container ... done
danielinux@danielinux-virtualbox:~/mysql-phpmyadmin-docker$ docker exec -it m
ysql_container mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.44 MySQL Community Server - GPL

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owners.

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

mysql> █
```