

Avaliação 06 - Dupla: Clara Livia e Pedro Julius

Evidenciação:

1. Arquivo Dockerfile:

```
pedroelara@DESKTOP-02ACKG5:~$ cd docker
pedroelara@DESKTOP-02ACKG5:~/docker$ cat Dockerfile
FROM alpine:3.5
MAINTAINER Arvind Rawat <arvindr226@gmail.com>

RUN apk add --update --no-cache bash \
    curl \
    curl-dev \
    php7-intl \
    php7-openssl \
    php7-dba \
    php7-sqlite3 \
    php7-pear \
    php7-phpdbg \
    php7-litespeed \
    php7-gmp \
    php7-pdo_mysql \
    php7-pcntl \
    php7-common \
    php7-xsl \
    php7-fpm \
    php7-mysqlnd \
    php7-enchanted \
    php7-pspell \
    php7-snmp \
    php7-doc \
    php7-mbstring \
    php7-dev \
    php7-xmlrpc \
    php7-embed \
    php7-xmlreader \
    php7-pdo_sqlite \
    php7-exif \
    php7-opcache \
    php7-ldap \
    php7-posix \
    php7-session \
    php7-gd \
    php7-gettext \
    php7-json \
    php7-xml \
    php7 \
    php7-iconv \
    php7-sysvshm \
    php7-curl \
    php7-shmop \
    php7-odbc \
    php7-phar \
    php7-pdo_pgsql \
    php7-imap \
    php7-pdo_dblib \
    php7-pgsql \
    php7-pdo_odbc \
    php7-xdebug \
    php7-zip \
    php7-apache2 \
    php7-cgi \
    php7-ctype \
    php7-mcrypt \
    php7-wddx \
    php7-bcmath \
    php7-calendar \
```

```

php7-tidy \
php7-dom \
php7-sockets \
php7-soap \
php7-apcu \
php7-sysvmsg \
php7-zlib \
php7-ftp \
php7-sysvsem \
php7-pdo \
php7-bz2 \
php7-mysqli \
apache2 \
libxml2-dev \
apache2-utils
RUN ln -s /usr/bin/php7 /usr/bin/php
RUN curl -sS https://getcomposer.org/installer | php7 -- --install-dir=/usr/bin --filename=composer
RUN rm -rf /var/cache/apk/*
# AllowOverride All
RUN sed -i '264s#AllowOverride None#AllowOverride All#' /etc/apache2/httpd.conf
#Rewrite Moduble Enable
RUN sed -i 's#\#LoadModule rewrite_module modules/mod_rewrite.so#LoadModule rewrite_module modules/mod_rewrite.so#' /etc/apache2/httpd.conf
# Document Root to /var/www/html/
RUN sed -i 's#/var/www/localhost/htdocs#/var/www/html#g' /etc/apache2/httpd.conf
#Start apache
RUN mkdir -p /run/apache2
RUN mkdir /var/www/html/
VOLUME /var/www/html/
WORKDIR /var/www/html/
EXPOSE 80
EXPOSE 443
CMD /usr/sbin/apachectl -D FOREGROUND
pedroclara@DESKTOP-02ACKG5:~/docker$ cat docker-compose.yml

```

2. Arquivo docker-compose.yml

```

pedroclara@DESKTOP-02ACKG5:~/docker$ cat docker-compose.yml
version: "2.0"
services:
  web:
    container_name: apache_server
    image: arvindr226/alpine-lamp
    ports:
      - "80:80"
      - "443:443"
    volumes:
      - ./html:/var/www/html
    restart: always
  mysql_db:
    image: mysql:latest
    container_name: mysql_server
    ports:
      - 3306:3306
    environment:
      MYSQL_DATABASE: pedroclara
      MYSQL_ROOT_PASSWORD: pedroclara
    restart: always
  phpmyadmin:
    image: phpmyadmin/phpmyadmin
    container_name: phpmyadmin
    environment:
      - PMA_ARBITRARY=1
    restart: always
    ports:
      - 8080:80
    volumes:
      - /sessions

```

3. Comando docker-compose up -d

```
pedroelara@DESKTOP-02ACKG5:~/docker$ docker-compose up -d
Creating network "docker_default" with the default driver
Pulling web (arvindr226/alpine-lamp:latest)...
latest: Pulling from arvindr226/alpine-lamp
627beaf3eaaf: Pull complete
327aced67773: Pull complete
aa449f77edcf: Pull complete
dcec7a986957: Pull complete
88076738f96d: Pull complete
01e37daa7cb3: Pull complete
f01dc3fe8b52: Pull complete
0cc1d0ac6950: Pull complete
52276c54c525: Pull complete
f61819548151: Pull complete
Digest: sha256:bc586019e3c8bf685ac26cbbd2579490e8c9dc631e18670a00696ec9da426f44
Status: Downloaded newer image for arvindr226/alpine-lamp:latest
Pulling mysql_db (mysql:latest)...
latest: Pulling from library/mysql
c1ad9731b2c7: Pull complete
54f6eb0ee84d: Pull complete
cfff8691bc5: Pull complete
89a783b5ac8a: Pull complete
6a8393c7be5f: Pull complete
af768d0b181e: Pull complete
810d6aaaf54a: Pull complete
2e014a8ae4c9: Pull complete
```

4. Comando docker build

```
pedroelara@DESKTOP-02ACKG5:~/docker$ docker build -t pedro_elara:phpmyadmin .
Sending build context to Docker daemon 6.144kB
Step 1/16 : FROM alpine:3.5
3.5: Pulling from library/alpine
8cae0e1ac61c: Pull complete
Digest: sha256:66952b313e51c3bd1987d7c4ddf5dba9bc0fb6e524eed2448fa660246b3e76ec
Status: Downloaded newer image for alpine:3.5
--> f80194ae2e0c
Step 2/16 : MAINTAINER Arvind Rawat <arvindr226@gmail.com>
--> Running in 2686ee4c5e18
Removing intermediate container 2686ee4c5e18
--> 3f73d54d8b16
Step 3/16 : RUN apk add --update --no-cache bash
php7-intl php7-openssl curl php7-dba curl-dev
php7-sqlite3 php7-gmp php7-pear php7-pdo_mysql php7-phpdbg php7-pcntl php7-litespeed
php7-mysqlnd php7-common php7-enchanted php7-xml php7-pspell php7-fpm php7-snmp
php7-xmlrpc php7-exif php7-doc php7-embed php7-openssl php7-session php7-dev php7-pdo_sqlite
php7-gettext php7-posix php7-jquery php7-opcache php7-xmlreader php7-ldap php7-gd php7
php7-shmop php7-iconv php7-odbc php7-sysvshm php7-phar php7-curl php7-pdo_pgsql
php7-imap php7-pdo_odbc php7-cgi php7-xdebug php7-pgsql php7-zip php7-mcrypt
php7-apache2 7-wddx php7-tidy php7-bcmath php7-dom php7-ctype php7-calendar php7-sockets php7-soap
php7-bz2 php7-apcu php7-ftp php7-mysqli php7-sysvsem apache2 php7-zlib php7-pdo libxml2-dev
che2-utils
--> Running in 678bc7a63680
fetch http://dl-cdn.alpinelinux.org/alpine/v3.5/main/x86_64/APKINDEX.tar.gz
fetch http://dl-cdn.alpinelinux.org/alpine/v3.5/main/x86_64/APKINDEX.tar.gz
fetch http://dl-cdn.alpinelinux.org/alpine/v3.5/community/x86_64/APKINDEX.tar.gz
fetch http://dl-cdn.alpinelinux.org/alpine/v3.5/community/x86_64/APKINDEX.tar.gz
(1/137) Installing libuuid (2.28.2-r1)
(2/137) Installing apr (1.5.2-r1)
(3/137) Installing expat (2.2.0-r1)
(4/137) Installing apr-util (1.5.4-r2)
(5/137) Installing pcre (8.39-r0)
(6/137) Installing apache2 (2.4.35-r0)
Executing apache2-2.4.35-r0.pre-install
```

5. Mostrando imagens e containers

```
Successfully built 8979ae81b6c0
Successfully tagged pedro_e_clara:phpmyadmin
pedroclara@DESKTOP-02ACKG5:~/docker$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
pedro_e_clara        phpmyadmin         8979ae81b6c0       11 seconds ago    173MB
mysql                latest            65b636d5542b       2 weeks ago       524MB
alpine               latest            e66264b98777       3 weeks ago       5.53MB
phpmyadmin/phpmyadmin latest            4a4023c7e22a       4 weeks ago       510MB
alpine               3.5               f80194ae2e0c       3 years ago       4MB
arvindr226/alpine-lamp latest            ebe47cc582df       5 years ago       173MB
pedroclara@DESKTOP-02ACKG5:~/docker$ docker ps
CONTAINER ID   IMAGE                  COMMAND                  CREATED        STATUS        PORTS
7632f998c8e4   mysql:latest          "docker-entrypoint.s..." 4 minutes ago  Up 4 minutes  0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
33dbe7b280e9   arvindr226/alpine-lamp "/bin/sh -c '/usr/sb..." 4 minutes ago  Up 4 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp, 0.0.0.0:443->443/tcp, :::443->443/tcp
a94a9ab19aaf   phpmyadmin/phpmyadmin "/docker-entrypoint..." 4 minutes ago  Up 4 minutes  0.0.0.0:8080->80/tcp, :::8080->80/tcp
```

6. Funcionamento do Mysql

```
pedroclara@DESKTOP-02ACKG5:~/docker$ docker exec -it mysql_server bash
root@7632f998c8e4:/# mysql
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)
root@7632f998c8e4:/# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.29 MySQL Community Server - GPL

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owners.

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

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| pedroclara |
| performance_schema |
| sys |
+-----+
5 rows in set (0.01 sec)

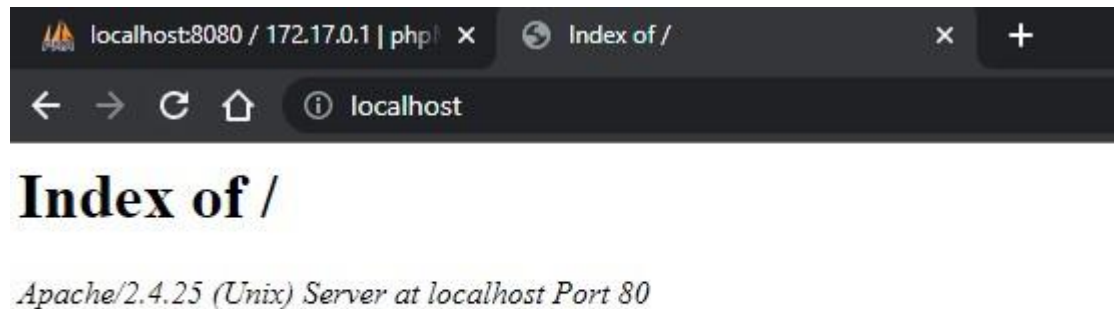
mysql> exit
Bye
root@7632f998c8e4:/# exit
exit
```

7. Descobrimos o IP para o servidor do Mysql

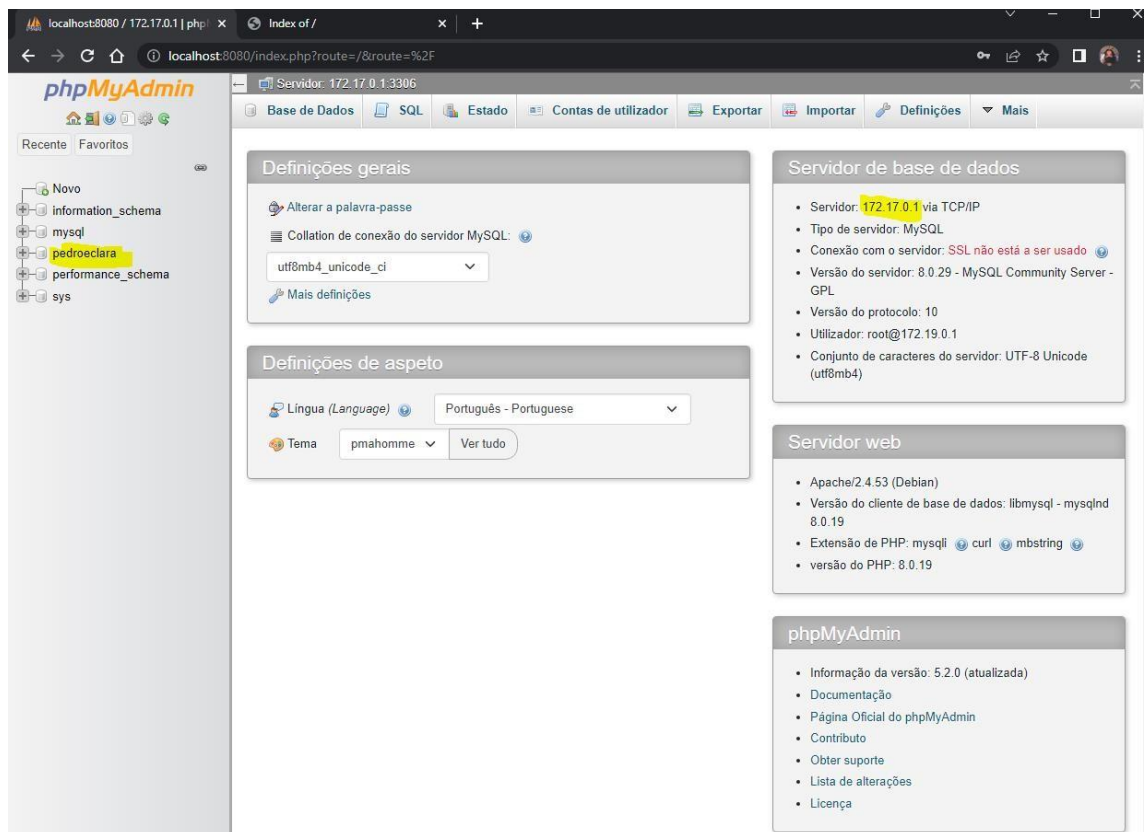
```
pedroelara@DESKTOP-02ACKG5:~/docker$ ifconfig
br-8180ec10b6b3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.19.0.1 netmask 255.255.0.0 broadcast 172.19.255.255
    inet6 fe80::42:deff:fee3:afad prefixlen 64 scopeid 0x20<link>
    ether 02:42:de:e3:af:ad txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4 bytes 356 (356.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
    inet6 fe80::42:fff:fe9d:7d5d prefixlen 64 scopeid 0x20<link>
    ether 02:42:0f:9d:7d:5d txqueuelen 0 (Ethernet)
    RX packets 21579 bytes 1156601 (1.1 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 39289 bytes 58799231 (58.7 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

8. Mostrando o Apache na porta 80



9. Mostrando o phpmyadmin já logado na porta 8080



10. Logando do Docker Hub, renomeando a tag e a imagem e dando o push

```
pedroclara@DESKTOP-02ACKG5:~/docker$ sudo docker login -u claralivia -p claralivia docker.io
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
pedroclara@DESKTOP-02ACKG5:~/docker$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
claralivia/pedroclara-phpmyadmin  latest     8979ae81b6c0  2 hours ago  173MB
pedroclara/phpmyadmin             latest     8979ae81b6c0  2 hours ago  173MB
mysql                          latest     65b636d5542b  2 weeks ago  524MB
alpine                        latest     e66264b98777  3 weeks ago  5.53MB
phpmyadmin/phpmyadmin          latest     4a4023c7e22a  4 weeks ago  510MB
alpine                        3.5       f80194ae2e0c  3 years ago  4MB
arvindr226/alpine-lamp         latest     ebe47cc582df  5 years ago  173MB
pedroclara@DESKTOP-02ACKG5:~/docker$ docker tag claralivia/pedroclara-phpmyadmin claralivia/pedroclara-phpmyadmin:version1
pedroclara@DESKTOP-02ACKG5:~/docker$ docker push claralivia/pedroclara-phpmyadmin:version1
The push refers to repository [docker.io/claralivia/pedroclara-phpmyadmin]
84c465c6f0ea: Preparing
6b067400077c: Preparing
9768189efaf0: Preparing
0a44906b12de: Preparing
4923ca4ec45b: Preparing
c3ce6981a441: Waiting
c5b14429359c: Waiting
47f8b4a7a41f: Waiting
a710b7221ace: Waiting
f566c57e6f2d: Waiting
denied: requested access to the resource is denied
pedroclara@DESKTOP-02ACKG5:~/docker$ sudo docker push claralivia/pedroclara-phpmyadmin:version1
The push refers to repository [docker.io/claralivia/pedroclara-phpmyadmin]
84c465c6f0ea: Pushed
6b067400077c: Pushed
9768189efaf0: Pushed
0a44906b12de: Pushed
4923ca4ec45b: Pushed
c3ce6981a441: Pushed
c5b14429359c: Pushed
47f8b4a7a41f: Pushed
a710b7221ace: Pushed
f566c57e6f2d: Mounted from library/alpine
version1: digest: sha256:66cde23f1ad2594e5a39c531a6be0ff2c1907c2a1bc2cec8015fe14d276e1000 size: 2402
pedroclara@DESKTOP-02ACKG5:~/docker$
```

11. Repositório no Docker Hub já com a imagem

The screenshot shows the Docker Hub interface for the repository 'claralivia/pedroelara-phpmyadmin'. The page includes a navigation bar with 'dockerhub', a search bar, and links for 'Explore', 'Repositories', 'Organizations', and 'Help'. The repository name is displayed in the breadcrumb trail. Below the navigation bar, there are tabs for 'General', 'Tags', 'Builds', 'Collaborators', 'Webhooks', and 'Settings'. The 'General' tab is active, showing an 'Advanced Image Management' section with a 'View preview' link. The repository name 'claralivia / pedroelara-phpmyadmin' is prominently displayed, along with a note that it has no description and was last pushed 'a minute ago'. To the right, there are 'Docker commands' for pushing a new tag, with a 'Public View' button. Below this, the 'Tags and Scans' section shows a table with one tag, 'version1', which is highlighted with a red box. The table columns are 'TAG', 'OS', 'PULLED', and 'PUSHED'. To the right of the table, there is a 'VULNERABILITY SCANNING - DISABLED' status with an 'Enable' link. Further right, the 'Automated Builds' section explains how to connect to GitHub or Bitbucket for automatic builds, with an 'Upgrade to Pro' button and a 'Learn more' link.

TAG	OS	PULLED	PUSHED
version1		---	a minute ago

Observações:

1. Usamos Dockerfile e docker-compose para a execução da atividade;
2. Toda a atividade foi executada no wsl;
3. O push foi realizado no Docker Hub da Clara Livia (id: claralivia), mais precisamente, no repositório pedroelara-phpmyadmin;
4. Senha do mysql especificada no docker-compose.yml;
5. Portas especificadas no docker-compose.yml (Apache: localhost:80 / Mysql: 172.17.0.1:3306 | phpmyadmin: localhost:8080).