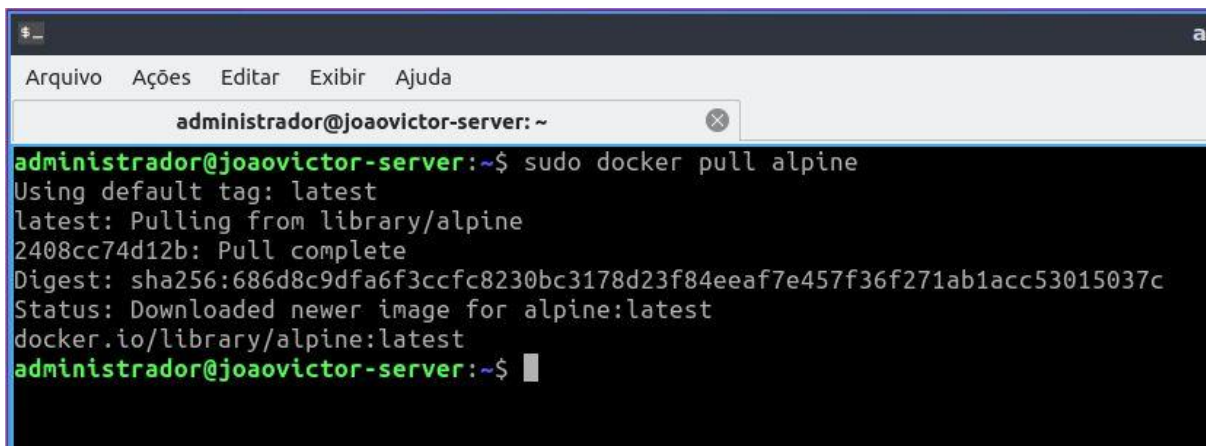
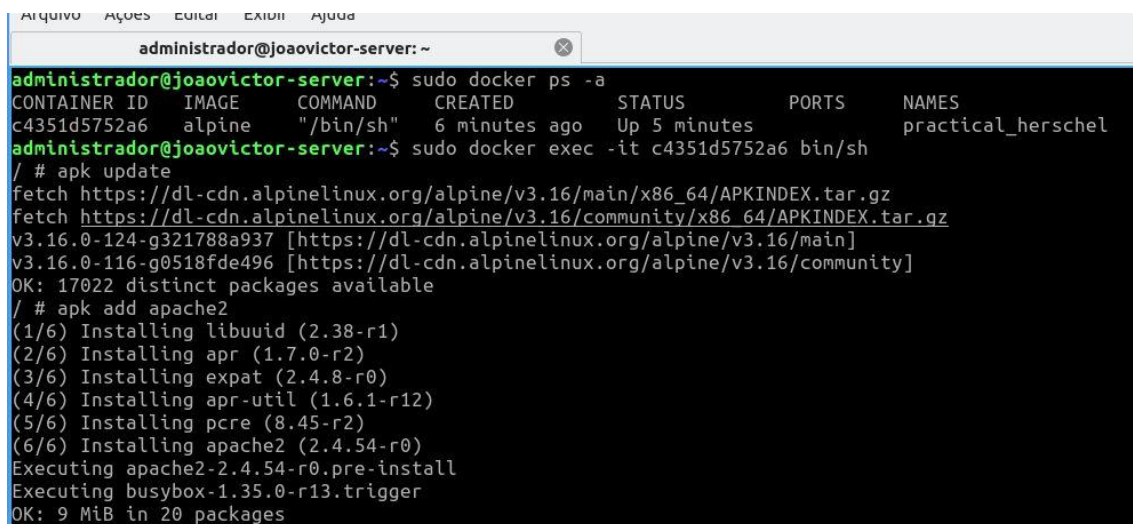


- 1) Criando uma imagem docker a partir da distribuição Alpine



```
administrador@joaovictor-server: ~  
administrador@joaovictor-server:~$ sudo docker pull alpine  
Using default tag: latest  
latest: Pulling from library/alpine  
2408cc74d12b: Pull complete  
Digest: sha256:686d8c9dfa6f3ccfc8230bc3178d23f84eeaf7e457f36f271ab1acc53015037c  
Status: Downloaded newer image for alpine:latest  
docker.io/library/alpine:latest  
administrador@joaovictor-server:~$
```

- 2) Instanciando um container a partir dessa imagem e instalando Apache



```
administrador@joaovictor-server: ~  
administrador@joaovictor-server:~$ sudo docker ps -a  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS          NAMES  
c4351d5752a6   alpine    "/bin/sh"               6 minutes ago Up 5 minutes             practical_herschel  
administrador@joaovictor-server:~$ sudo docker exec -it c4351d5752a6 bin/sh  
/ # apk update  
fetch https://dl-cdn.alpinelinux.org/alpine/v3.16/main/x86_64/APKINDEX.tar.gz  
fetch https://dl-cdn.alpinelinux.org/alpine/v3.16/community/x86_64/APKINDEX.tar.gz  
v3.16.0-124-g321788a937 [https://dl-cdn.alpinelinux.org/alpine/v3.16/main]  
v3.16.0-116-g0518fde496 [https://dl-cdn.alpinelinux.org/alpine/v3.16/community]  
OK: 17022 distinct packages available  
/ # apk add apache2  
(1/6) Installing libuuid (2.38-r1)  
(2/6) Installing apr (1.7.0-r2)  
(3/6) Installing expat (2.4.8-r0)  
(4/6) Installing apr-util (1.6.1-r12)  
(5/6) Installing pcre (8.45-r2)  
(6/6) Installing apache2 (2.4.54-r0)  
Executing apache2-2.4.54-r0.pre-install  
Executing busybox-1.35.0-r13.trigger  
OK: 9 MiB in 20 packages
```

Instalando PHP

```
Arquivo  Ações  Editar  Exibir  Ajuda
administrador@joaovictor-server: ~

/ # apk add php
(1/9) Installing php8-common (8.0.19-r1)
(2/9) Installing argon2-libs (20190702-r1)
(3/9) Installing ncurses-terminfo-base (6.3_p20220521-r0)
(4/9) Installing ncurses-libs (6.3_p20220521-r0)
(5/9) Installing libedit (20210910.3.1-r0)
(6/9) Installing pcre2 (10.39-r0)
(7/9) Installing xz-libs (5.2.5-r1)
(8/9) Installing libxml2 (2.9.14-r0)
(9/9) Installing php8 (8.0.19-r1)
Executing busybox-1.35.0-r13.trigger
OK: 22 MiB in 30 packages
/ # php -v
PHP 8.0.19 (cli) (built: May 24 2022 21:16:15) ( NTS )
Copyright (c) The PHP Group
Zend Engine v4.0.19, Copyright (c) Zend Technologies
/ #
```

Instalando MYSQL

```
Arquivo  Ações  Editar  Exibir  Ajuda
administrador@joaovictor-server: ~

/ # apk add mysql mysql-client
(1/13) Installing mariadb-common (10.6.8-r0)
(2/13) Installing libaio (0.3.112-r2)
(3/13) Installing ca-certificates (20211220-r0)
(4/13) Installing brotli-libs (1.0.9-r6)
(5/13) Installing nghttp2-libs (1.47.0-r0)
(6/13) Installing libcurl (7.83.1-r1)
(7/13) Installing libgcc (11.2.1_git20220219-r2)
(8/13) Installing linux-pam (1.5.2-r0)
(9/13) Installing libstdc++ (11.2.1_git20220219-r2)
(10/13) Installing mariadb (10.6.8-r0)
Executing mariadb-10.6.8-r0.pre-install
(11/13) Installing mysql (10.6.8-r0)
(12/13) Installing mariadb-client (10.6.8-r0)
(13/13) Installing mysql-client (10.6.8-r0)
Executing busybox-1.35.0-r13.trigger
Executing ca-certificates-20211220-r0.trigger
OK: 195 MiB in 43 packages
/ #
```

Continuação

```
Arquivo  Ações  Editar  Exibir  Ajuda
administrador@joaovictor-server: ~
/ # apk add mysql mysql-client
OK: 195 MiB in 43 packages
/ # mkdir /run/mysqld
/ # mysql_install_db
Installing MariaDB/MySQL system tables in './data' ...
OK

To start mysqld at boot time you have to copy
support-files/mysql.server to the right place for your system

Two all-privilege accounts were created.
One is root@localhost, it has no password, but you need to
be system 'root' user to connect. Use, for example, sudo mysql
The second is root@localhost, it has no password either, but
you need to be the system 'root' user to connect.
After connecting you can set the password, if you would need to be
able to connect as any of these users with a password and without sudo

See the MariaDB Knowledgebase at https://mariadb.com/kb

You can start the MariaDB daemon with:
cd '/usr' ; /usr/bin/mysqld_safe --datadir='./data'

You can test the MariaDB daemon with mysql-test-run.pl
cd '/usr/mysql-test' ; perl mysql-test-run.pl

Please report any problems at https://mariadb.org/jira

The latest information about MariaDB is available at https://mariadb.org/.

Consider joining MariaDB's strong and vibrant community:
https://mariadb.org/get-involved/
```

Instalando o PhpMyAdmin

```
/ # apk add phpmyadmin
(1/28) Installing php8-openssl (8.0.19-r1)
(2/28) Installing php8-mysqldb (8.0.19-r1)
(3/28) Installing php8-mysqli (8.0.19-r1)
(4/28) Installing libbz2 (1.0.8-r1)
(5/28) Installing php8-bz2 (8.0.19-r1)
(6/28) Installing php8-ctype (8.0.19-r1)
(7/28) Installing php8-curl (8.0.19-r1)
(8/28) Installing libxau (1.0.9-r0)
(9/28) Installing libxdmcp (1.1.3-r0)
(10/28) Installing libxcb (1.15-r0)
(11/28) Installing libx11 (1.8-r0)
(12/28) Installing libxext (1.3.4-r0)
(13/28) Installing libice (1.0.10-r0)
(14/28) Installing libsm (1.2.3-r0)
(15/28) Installing libxt (1.2.1-r0)
(16/28) Installing libxpm (3.5.13-r0)
(17/28) Installing libpng (1.6.37-r1)
(18/28) Installing freetype (2.12.1-r0)
(19/28) Installing libjpeg-turbo (2.1.3-r1)
(20/28) Installing libwebp (1.2.2-r0)
(21/28) Installing php8-gd (8.0.19-r1)
(22/28) Installing oniguruma (6.9.8-r0)
(23/28) Installing php8-mbstring (8.0.19-r1)
(24/28) Installing php8-session (8.0.19-r1)
(25/28) Installing zstd-libs (1.5.2-r1)
(26/28) Installing libzip (1.8.0-r1)
(27/28) Installing php8-zip (8.0.19-r1)
(28/28) Installing phpmyadmin (5.2.0-r0)
Executing phpmyadmin-5.2.0-r0.post-install
*
* phpmyadmin has been installed to:
*   /usr/share/webapps/phpmyadmin
* phpmyadmin config file has been installed to:
*   /etc/phpmyadmin/config.inc.php
* If you use apache2:
*   1) Change the ownership of the config directory:
*      chown -R apache:apache /etc/phpmyadmin
*   2) See if you need to modify the apache2 config:
*      /etc/apache2/conf.d/phpmyadmin.conf
*   3) Restart apache2 when done.
*
```

Versões Apache, MYSQL e PHP

```
Arquivo  Ações  Editar  Exibir  Ajuda
administrador@joaovictor-server: ~
administrador@joaovictor-server:~$ sudo docker exec -it c4351d5752a6 bin/sh
[sudo] senha para administrador:
/ # httpd -v
Server version: Apache/2.4.54 (Unix)
Server built:   Jun  9 2022 23:22:32
/ # php -v
PHP 8.0.19 (cli) (built: May 24 2022 21:16:15) ( NTS )
Copyright (c) The PHP Group
Zend Engine v4.0.19, Copyright (c) Zend Technologies
/ # mysql -V
mysql Ver 15.1 Distrib 10.6.8-MariaDB, for Linux (x86_64) using readline 5.1
/ #
```

Salvando a imagem

```
administrador@joaovictor-server: ~  
administrador@joaovictor-server:~$ sudo docker ps -a  
[sudo] senha para administrador:  
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS          NAMES  
837d2159257a   alpine/image  "bin/sh"                34 minutes ago  Exited (0) 34 minutes ago  
c4351d5752a6   alpine      "/bin/sh"               2 hours ago    Up 2 hours  
administrador@joaovictor-server:~$ sudo docker commit 837d2159257a jvictor217/phpmyadmin  
sha256:2c31f87232b4cb529b7ea5e38b05f8e128ce1848c09142431ab4b8da3eeb0eb6  
administrador@joaovictor-server:~$ sudo docker run -it jvictor217/phpmyadmin bin/sh  
/ # exit  
administrador@joaovictor-server:~$ sudo docker ps -a  
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS          NAMES  
faba00520bc1   jvictor217/phpmyadmin  "bin/sh"                27 seconds ago  Exited (0) 21 seconds ago  
837d2159257a   alpine/image  "bin/sh"                36 minutes ago  Exited (0) 36 minutes ago  
c4351d5752a6   alpine      "/bin/sh"               2 hours ago    Up 2 hours  
administrador@joaovictor-server:~$
```

Commit da imagem

```
Arquivo  Ajuda  Editar  Exibir  Ajuda  
administrador@joaovictor-server: ~  
administrador@joaovictor-server:~$ sudo docker login  
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.  
Username: jvictor217  
Password:  
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  
administrador@joaovictor-server:~$ sudo docker push jvictor217/phpmyadmin  
Using default tag: latest  
The push refers to repository [docker.io/jvictor217/phpmyadmin]  
0e4c5f4b7f94: Pushed  
3af2335222da: Pushed  
24302eb7d908: Mounted from library/alpine  
latest: digest: sha256:0344f0a8b85edc18df24a3fa7c4d64eec7fdeed682d38bf41153123d826432be size: 947  
administrador@joaovictor-server:~$
```