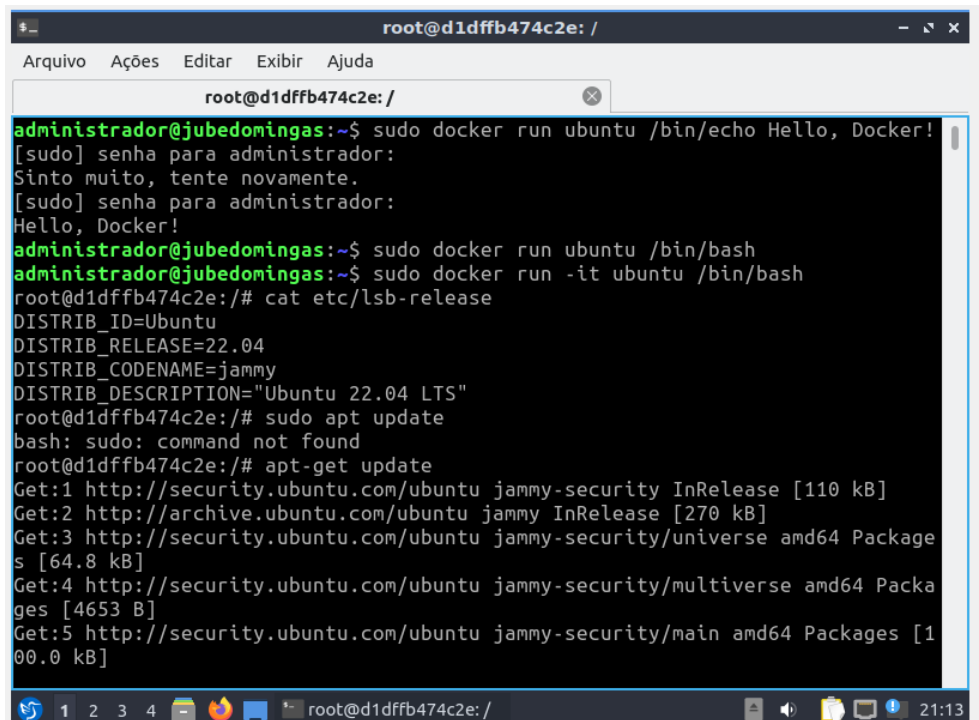


# INSTITUTO FEDERAL DO CEARÁ - CAMPUS FORTALEZA

## AVALIAÇÃO 05

**DUPLA:** PAULO TOMAS BARBOZA DA SILVA / RONALD DOS SANTOS COSTA

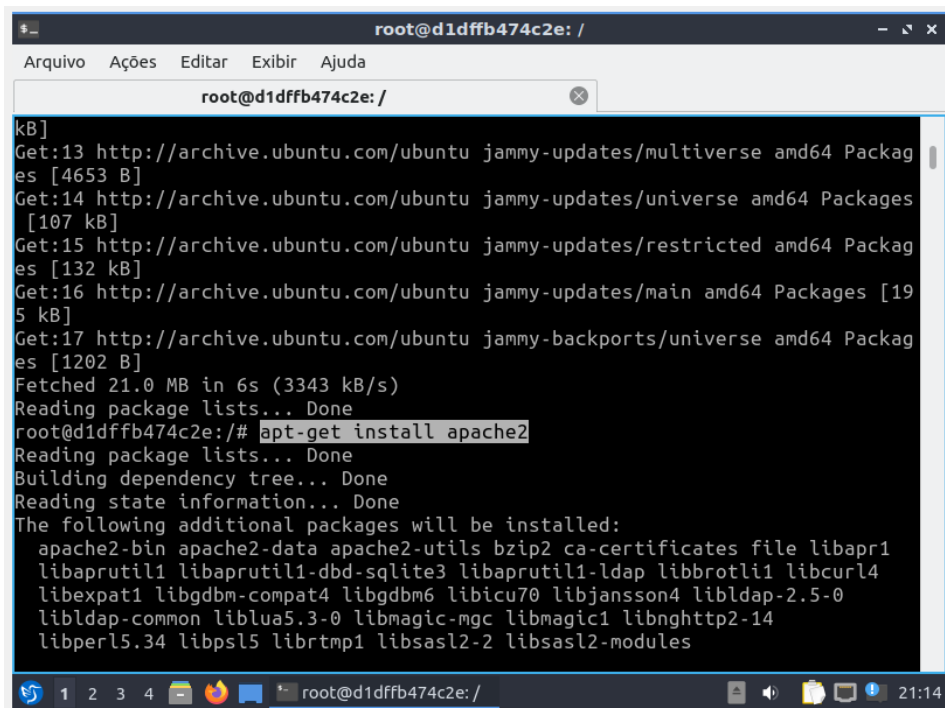
**1) Criar um container a partir de uma imagem ubuntu ou alpine;**



A terminal window titled 'root@d1dffb474c2e: /' showing the process of creating a Docker container from an Ubuntu image. The user runs 'sudo docker run ubuntu /bin/echo Hello, Docker!' and receives 'Hello, Docker!'. Then, they run 'sudo docker run ubuntu /bin/bash' to enter the container's shell. Inside the container, they run 'cat etc/lsb-release' showing Ubuntu 22.04 LTS (jammy) information. Next, they run 'sudo apt update' which shows progress for various package lists. The terminal output is as follows:

```
root@d1dffb474c2e: /  
administrador@jubedomingas:~$ sudo docker run ubuntu /bin/echo Hello, Docker!  
[sudo] senha para administrador:  
Sinto muito, tente novamente.  
[sudo] senha para administrador:  
Hello, Docker!  
administrador@jubedomingas:~$ sudo docker run ubuntu /bin/bash  
administrador@jubedomingas:~$ sudo docker run -it ubuntu /bin/bash  
root@d1dffb474c2e:/# cat etc/lsb-release  
DISTRIB_ID=Ubuntu  
DISTRIB_RELEASE=22.04  
DISTRIB_CODENAME=jammy  
DISTRIB_DESCRIPTION="Ubuntu 22.04 LTS"  
root@d1dffb474c2e:/# sudo apt update  
bash: sudo: command not found  
root@d1dffb474c2e:/# apt-get update  
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]  
Get:2 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]  
Get:3 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [64.8 kB]  
Get:4 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4653 B]  
Get:5 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [100.0 kB]
```

**2) Entrar no container de forma a usar o shell e instalar o Apache, o PHP e o MySQL;**



A terminal window titled 'root@d1dffb474c2e: /' showing the continuation of the Ubuntu installation inside the container. The user runs 'apt-get install apache2' to install Apache. The terminal shows progress for updating package lists and the installation of Apache2 and its dependencies. The output is as follows:

```
kB]  
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [4653 B]  
Get:14 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [107 kB]  
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [132 kB]  
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [195 kB]  
Get:17 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [1202 B]  
Fetched 21.0 MB in 6s (3343 kB/s)  
Reading package lists... Done  
root@d1dffb474c2e:/# apt-get install apache2  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  apache2-bin apache2-data apache2-utils bzip2 ca-certificates file libapr1  
  libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libbrotli1 libcurl4  
  libexpat1 libgdbm-compat4 libgdbm6 libicu70 libjansson4 libldap-2.5-0  
  libldap-common liblua5.3-0 libmagic-mgc libmagic1 libnghttp2-14  
  libperl5.34 libpsl5 librtmp1 libsasl2-2 libsasl2-modules
```

```
root@d1dffb474c2e: /
Arquivo  Ações  Editar  Exibir  Ajuda

root@d1dffb474c2e: /

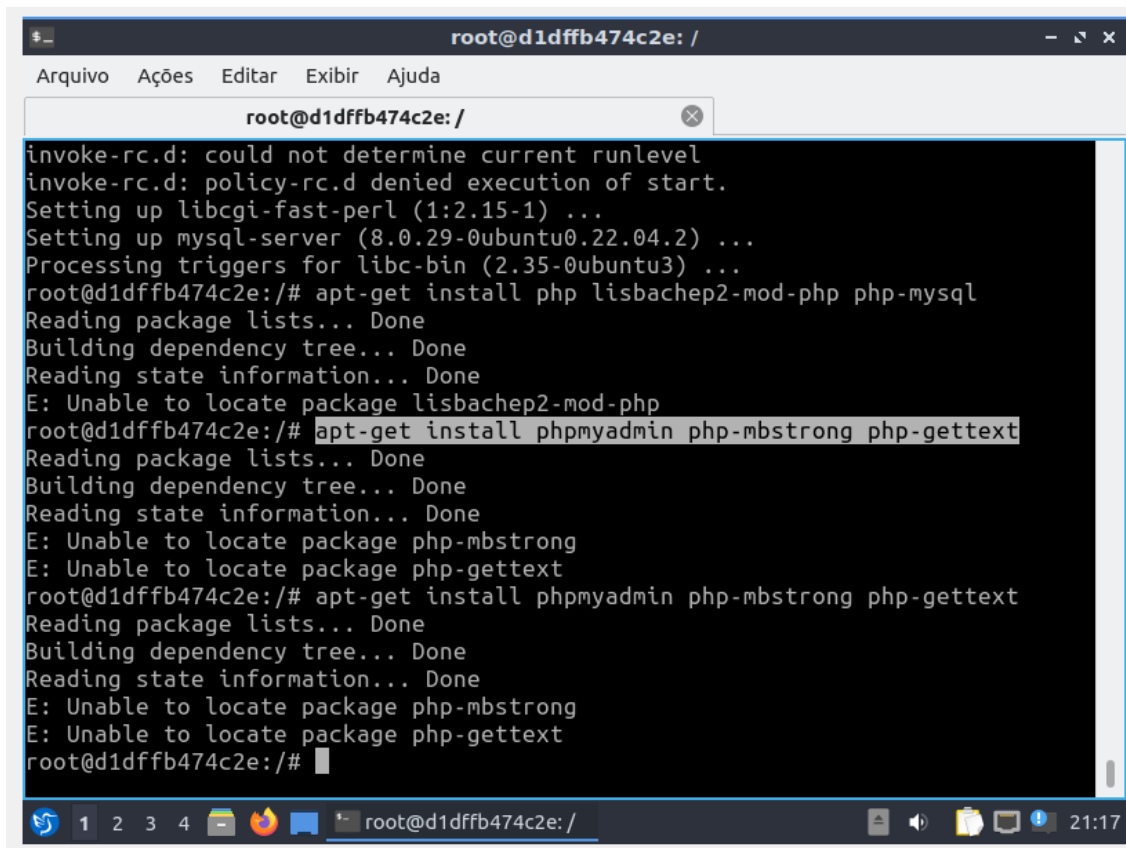
Enabling site 000-default.
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Processing triggers for libc-bin (2.35-0ubuntu3) ...
Processing triggers for ca-certificates (20211016) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
root@d1dffb474c2e:/# apt-get install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libaio1 libbsd0 libcgi-fast-perl libcgi-pm-perl libclone-perl libedit2
  libencode-locale-perl libevent-core-2.1-7 libevent-pthreads-2.1-7
  libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-parser-perl
  libhtml-tagset-perl libhtml-template-perl libhttp-date-perl
  libhttp-message-perl libio-html-perl liblwp-mediatypes-perl libmd0
  libmecab2 libnuma1 libprotobuf-lite23 libtimedate-perl liburi-perl
  mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
  mysql-client-core-8.0 mysql-common mysql-server-8.0 mysql-server-core-8.0
  psmisc
```

```
root@d1dffb474c2e: /
Arquivo  Ações  Editar  Exibir  Ajuda

root@d1dffb474c2e: /

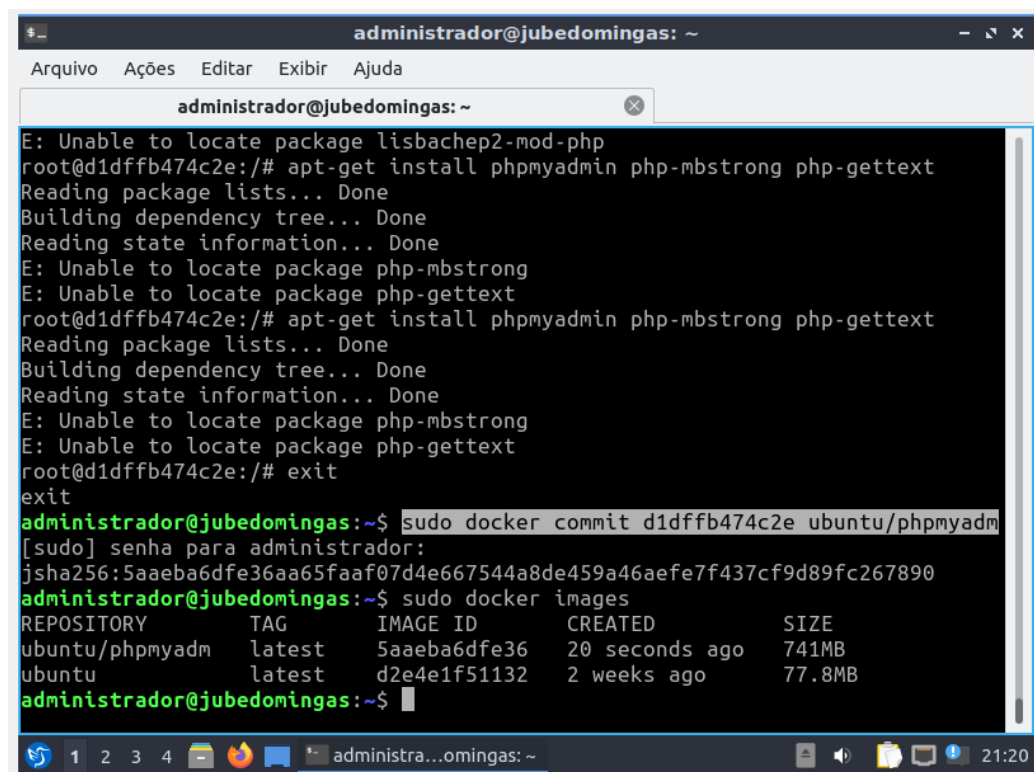
Cannot stat file /proc/3179/fd/23: Permission denied
Cannot stat file /proc/3179/fd/24: Permission denied
mysqld will log errors to /var/log/mysql/error.log
mysqld is running as pid 3701
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Setting up libcgi-fast-perl (1:2.15-1) ...
Setting up mysql-server (8.0.29-0ubuntu0.22.04.2) ...
Processing triggers for libc-bin (2.35-0ubuntu3) ...
root@d1dffb474c2e:/# apt-get install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package libapache2-mod-php
root@d1dffb474c2e:/# apt-get install phpmyadmin php-mbstring php-gettext
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package php-mbstring
E: Unable to locate package php-gettext
root@d1dffb474c2e:/# apt-get install phpmyadmin php-mbstring php-gettext
Reading package lists... Done
Building dependency tree... Done
```

### 3) Instalar o PHPMyAdmin;



```
root@d1dffb474c2e: /
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Setting up libcgi-fast-perl (1:2.15-1) ...
Setting up mysql-server (8.0.29-0ubuntu0.22.04.2) ...
Processing triggers for libc-bin (2.35-0ubuntu3) ...
root@d1dffb474c2e:/# apt-get install php libapache2-mod-php php-mysql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package libapache2-mod-php
root@d1dffb474c2e:/# apt-get install phpmyadmin php-mbstring php-gettext
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package php-mbstring
E: Unable to locate package php-gettext
root@d1dffb474c2e:/# apt-get install phpmyadmin php-mbstring php-gettext
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package php-mbstring
E: Unable to locate package php-gettext
root@d1dffb474c2e:/#
```

### 4) Commitar o container com o apelido ubuntu/phpmyadmin;



```
administrador@jubedomingas: ~
E: Unable to locate package libapache2-mod-php
root@d1dffb474c2e:/# apt-get install phpmyadmin php-mbstring php-gettext
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package php-mbstring
E: Unable to locate package php-gettext
root@d1dffb474c2e:/# apt-get install phpmyadmin php-mbstring php-gettext
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package php-mbstring
E: Unable to locate package php-gettext
root@d1dffb474c2e:/# exit
exit
administrador@jubedomingas:~$ sudo docker commit d1dffb474c2e ubuntu/phpmyadm
[sudo] senha para administrador:
jsha256:5aaeba6dfe36aa65faaf07d4e667544a8de459a46ae7f7437cf9d89fc267890
administrador@jubedomingas:~$ sudo docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
ubuntu/phpmyadm     latest         5aaeba6dfe36    20 seconds ago  741MB
ubuntu              latest         d2e4e1f51132    2 weeks ago    77.8MB
administrador@jubedomingas:~$
```