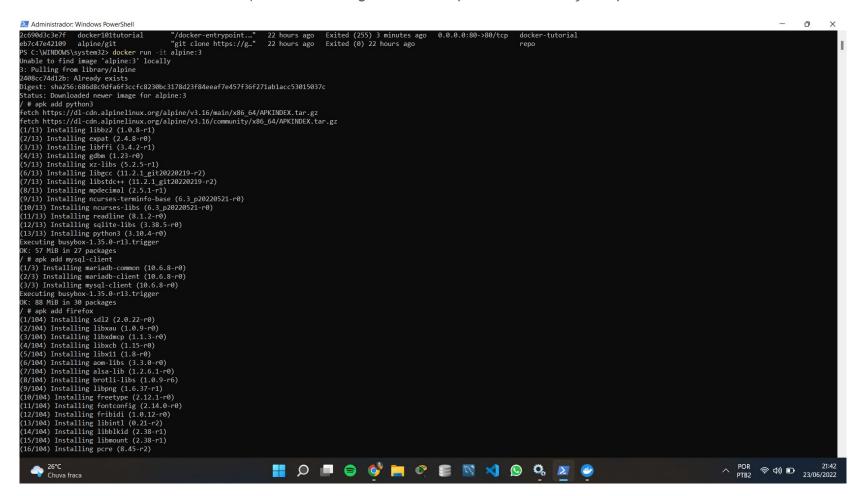
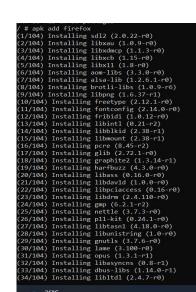
### 1) Criar uma imagem docker a partir da distribuição Alpine;



```
/ # apk add mysql-client
(1/3) Installing mariadb-common (10.6.8-r0)
(2/3) Installing mariadb-client (10.6.8-r0)
(3/3) Installing mysql-client (10.6.8-r0)
Executing busybox-1.35.0-r13.trigger
OK: 88 MiB in 30 packages
```































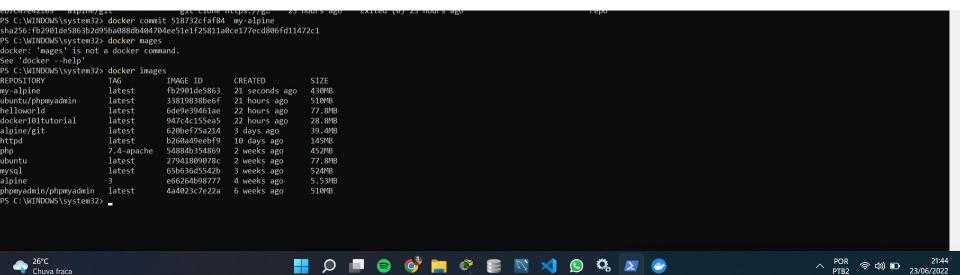








### 2) Instanciar um container a partir dessa imagem



Container my-alpine criado!

### 3) Entrar no container e instalar um LAMP (Apache/PHP/MySql); Passo 1 – Instalando o Apache e atualizando o firewall

Chuva fraca

```
Selecionar root@0c11b628d9e6; /
                                                                                                                                                                                                        \Box
PS C:\WINDOWS\system32> docker run -it ubuntu:latest
root@0c11b628d9e6:/# apt 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://archive.ubuntu.com/ubuntu jammy-updates InRelease [109 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [238 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1792 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [212 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [94.9 kB]
Get:11 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4648 B]
Get:12 http://archive.ubuntu.com/ubuntu iammv/restricted amd64 Packages [164 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [250 kB]
root@0c11b628d9e6:/#
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [162 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [406 kB]
 et:17 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [5157 B]
Fetched 21.7 MB in 11s (1886 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@0c11b628d9e6:/# apt install apache2
                                                            П
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
  libper15.34 libps15 librtmp1 libsas12-2 libsas12-modules libsas12-modules-db libsqlite3-0 libssh-4
  libxml2 mailcap media-types mime-support netbase openssl perl perl-modules-5.34 publicsuffix
  ssl-cert xz-utils
 uggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw bzip2-doc gdbm-l10n
  libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap
  libsasl2-modules-otp libsasl2-modules-sql perl-doc libterm-readline-gnu-perl
 | libterm-readline-perl-perl make libtap-harness-archive-perl
 he following NEW packages will be installed:
 apache2 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
  libper15.34 libps15 librtmp1 libsas12-2 libsas12-modules libsas12-modules-db libsalite3-0 libssh-4
  libxml2 mailcap media-types mime-support netbase openssl perl perl-modules-5.34 publicsuffix
 ssl-cert xz-utils
 upgraded, 43 newly installed, 0 to remove and 8 not upgraded.
 leed to get 25.6 MB of archives.
                                                                     . O 🔲 🏮 💕 🚞 💇 📔 🔯 刘 🕓 🖏 🗷 🐵
```

## instalando ufw

Pred, nublado

```
user1@529ecef6063b; ~
                                                                                                                                                                                                - 0 X
  Could not open lock file /var/lib/dpkg/lock-frontend - open (13: Permission denied)
  Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are you root?
 ser1@529ecef6063b:~$ sudo apt install ufw
Reading package lists... Done
Building dependency tree
Reading state information... Done
user1@529ecef6063b:~$
 file libexpat1 libmagic-mgc libmagic1 libmpdec2 libpython3-stdlib libpython3.8-minimal libpython3.8-stdlib
 libreadline8 libsqlite3-0 libssl1.1 mime-support python3 python3-minimal python3.8 python3.8-minimal readline-common
 ucf xz-utils
 uggested packages:
 python3-doc python3-tk python3-venv python3.8-venv python3.8-doc binutils binfmt-support readline-doc rsyslog
 he following NEW packages will be installed:
 file libexpat1 libmagic-mgc libmagic1 libmpdec2 libpython3-stdlib libpython3.8-minimal libpython3.8-stdlib
 libreadline8 libsglite3-0 libssl1.1 mime-support python3 python3-minimal python3.8 python3.8-minimal readline-common
 ucf ufw xz-utils
 upgraded, 20 newly installed, 0 to remove and 7 not upgraded.
Need to get 7595 kB of archives.
After this operation, 33.8 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libssl1.1 amd64 1.1.1f-1ubuntu2.15 [1321 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8-minimal amd64 3.8.10-0ubuntu1~20.04.4 [717 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libexpat1 amd64 2.2.9-1ubuntu0.4 [74.4 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 python3.8-minimal amd64 3.8.10-0ubuntu1~20.04.4 [1899 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal/main amd64 python3-minimal amd64 3.8.2-0ubuntu2 [23.6 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal/main amd64 mime-support all 3.64ubuntu1 [30.6 kB]
 et:7 http://archive.ubuntu.com/ubuntu focal/main amd64 libmpdec2 amd64 2.4.2-3 [81.1 kB]
 et:8 http://archive.ubuntu.com/ubuntu focal/main amd64 readline-common all 8.0-4 [53.5 kB]
 et:9 http://archive.ubuntu.com/ubuntu focal/main amd64 libreadline8 amd64 8.0-4 [131 kB]
 et:10 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libsglite3-0 amd64 3.31.1-4ubuntu0.3 [549 kB]
 et:11 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8-stdlib amd64 3.8.10-0ubuntu1~20.04.4 [1675 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 python3.8 amd64 3.8.10-0ubuntu1~20.04.4 [387 kB]
et:13 http://archive.ubuntu.com/ubuntu focal/main amd64 libpython3-stdlib amd64 3.8.2-0ubuntu2 [7068 B]
Get:14 http://archive.ubuntu.com/ubuntu focal/main amd64 python3 amd64 3.8.2-0ubuntu2 [47.6 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal/main amd64 libmagic-mgc amd64 1:5.38-4 [218 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal/main amd64 libmagic1 amd64 1:5.38-4 [75.9 kB]
Get:17 http://archive.ubuntu.com/ubuntu focal/main amd64 file amd64 1:5.38-4 [23.3 kB]
Get:18 http://archive.ubuntu.com/ubuntu focal/main amd64 ucf all 3.0038+nmu1 [51.6 kB]
Get:19 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 xz-utils amd64 5.2.4-1ubuntu1.1 [82.6 kB]
et:20 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 ufw all 0.36-6ubuntu1 [147 kB]
etched 7595 kB in 28s (271 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package libssl1.1:amd64.
(Reading database ... 4461 files and directories currently installed.)
Preparing to unpack .../libssl1.1_1.1.1f-1ubuntu2.15_amd64.deb ...
Unpacking libssl1.1:amd64 (1.1.1f-1ubuntu2.15) ...
Selecting previously unselected package libpython3.8-minimal:amd64.
Preparing to unpack .../libpython3.8-minimal_3.8.10-0ubuntu1~20.04.4_amd64.deb ...
Unpacking libpython3.8-minimal:amd64 (3.8.10-0ubuntu1~20.04.4) ...
  ₹ 25°C
```

## instalando apache

```
user1@529ecef6063b; ~
                                                                                                                                                                                                    - 0 X
user1@529ecef6063b:~$ sudo install apache
 nstall: missing destination file operand after 'apache'
ry 'install --help' for more information.
user1@529ecef6063b:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 apache2-bin apache2-data apache2-utils ca-certificates krb5-locales libapr1 libaprutil1 libaprutil1-dbd-sqlite3
 libaprutil1-ldap libasn1-8-heimdal libbrotli1 libcurl4 libgdbm-compat4 libgdbm6 libgssapi-krb5-2 libgssapi3-heimdal
 libhcrypto4-heimdal libheimbase1-heimdal libheimntlm0-heimdal libhx509-5-heimdal libicu66 libjansson4 libk5crypto3
 libkevutils1 libkrb5-26-heimdal libkrb5-3 libkrb5support0 libldap-2.4-2 libldap-common liblua5.2-0 libnehttp2-14
 libperl5.30 libpsl5 libroken18-heimdal librtmp1 libsasl2-2 libsasl2-modules libsasl2-modules-db libssh-4
 libwind0-heimdal libxm12 openssl perl perl-modules-5.30 publicsuffix ssl-cert tzdata
 apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser gdbm-l10n krb5-doc krb5-user
 libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap libsasl2-modules-otp
 libsasl2-modules-sql perl-doc libterm-readline-gnu-perl | libterm-readline-perl-perl make libb-debug-perl
 liblocale-codes-perl openssl-blacklist
he following NEW packages will be installed:
 apache2 apache2-bin apache2-data apache2-utils ca-certificates krb5-locales libapr1 libaprutil1
 libaprutil1-dbd-sqlite3 libaprutil1-ldap libasn1-8-heimdal libbrotli1 libcurl4 libgdbm-compat4 libgdbm6
 libessapi-krb5-2 libessapi3-heimdal libhcrypto4-heimdal libheimbase1-heimdal libheimntlm0-heimdal libhx509-5-heimdal
 libicu66 libjansson4 libk5crypto3 libkeyutils1 libkrb5-26-heimdal libkrb5-3 libkrb5support0 libldap-2.4-2
 libldap-common liblua5.2-0 libnghttp2-14 libper15.30 libps15 libroken18-heimdal librtmp1 libsas12-2 libsas12-modules
 libsas12-modules-db libssh-4 libwind0-heimdal libxml2 openssl perl perl-modules-5.30 publicsuffix ssl-cert tzdata
 upgraded, 48 newly installed, 0 to remove and 7 not upgraded.
 eed to get 21.7 MB of archives.
 fter this operation, 105 MB of additional disk space will be used.
 o you want to continue? [Y/n] y
 et:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 perl-modules-5.30 all 5.30.0-9ubuntu0.2 [2738 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal/main amd64 libedbm6 amd64 1.18.1-5 [27.4 kB]
 et:3 http://archive.ubuntu.com/ubuntu focal/main amd64 libgdbm-compat4 amd64 1.18.1-5 [6244 B]
Get:4 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libper15.30 amd64 5.30.0-9ubuntu0.2 [3952 kB]
et:5 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 perl amd64 5.30.0-9ubuntu0.2 [224 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal/main amd64 libapr1 amd64 1.6.5-1ubuntu1 [91.4 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal/main amd64 libaprutil1 amd64 1.6.1-4ubuntu2 [84.7 kB]
Get:8 http://archive.ubuntu.com/ubuntu focal/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-4ubuntu2 [10.5 kB]
Get:9 http://archive.ubuntu.com/ubuntu focal/main amd64 libroken18-heimdal amd64 7.7.0+dfsg-1ubuntu1 [41.8 kB]
Get:10 http://archive.ubuntu.com/ubuntu focal/main amd64 libasn1-8-heimdal amd64 7.7.0+dfsg-1ubuntu1 [181 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal/main amd64 libheimbase1-heimdal amd64 7.7.0+dfsg-1ubuntu1 [29.7 kB]
 et:12 http://archive.ubuntu.com/ubuntu focal/main amd64 libhcrypto4-heimdal amd64 7.7.0+dfsg-1ubuntu1 [87.9 kB]
 et:13 http://archive.ubuntu.com/ubuntu focal/main amd64 libwind0-heimdal amd64 7.7.0+dfsg-1ubuntu1 [48.0 kB]
 et:14 http://archive.ubuntu.com/ubuntu focal/main amd64 libhx509-5-heimdal amd64 7.7.0+dfsg-1ubuntu1 [107 kB]
set:15 http://archive.ubuntu.com/ubuntu focal/main amd64 libkrb5-26-heimdal amd64 7.7.0+dfsg-1ubuntu1 [208 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal/main amd64 libheimntlm0-heimdal amd64 7.7.0+dfsg-1ubuntu1 [15.1 kB]
et:17 http://archive.ubuntu.com/ubuntu focal/main amd64 libgssapi3-heimdal amd64 7.7.0+dfsg-lubuntu1 [96.1 kB]
Get:18 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libsasl2-modules-db amd64 2.1.27+dfsg-2ubuntu0.1 [14.7 kB]
Get:19 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libsasl2-2 amd64 2.1.27+dfsg-2ubuntu0.1 [49.3 kB]
  ₹ 25°C
      Pred. nublado
```

# permitir apenas o tráfego na porta 80



user1@529ecef6063b: ~

×

user1@529ecef6063b:~\$ sudo ufw allow in "Apache" Skipping adding existing rule Skipping adding existing rule (v6) user1@529ecef6063b:~\$ sudo ufw status Status: active

lo	Action	From		
Apache	ALLOW	Anywhere		
22/tcp	ALLOW	Anywhere		
22	ALLOW	Anywhere		
2222	ALLOW	Anywhere		
Apache (v6)	ALLOW	Anywhere (v6)		
22/tcp (v6)	ALLOW	Anywhere (v6)		
22 (v6)	ALLOW	Anywhere (v6)		
2222 (v6)	ALLOW.	Anywhere (v6)		

user1@529ecef6063b:~\$

















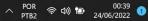














#### Instalar o PhpMyAdmin;

Parc. nublado

```
user1@529ecef6063b:~$ sudo apt-get docker.io
 : Invalid operation docker.io
user1@529ecef6063b:~$ sudo apt-get install docker.io
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 apparmor bridge-utils containerd dbus dmsetup dns-root-data dnsmasg-base git git-man iproute2 less
  libapparmor1 libatm1 libbsd0 libcap2 libcap2-bin libcbor0.6 libcurl3-gnutls libdbus-1-3
 libdevmapper1.02.1 libedit2 libelf1 liberror-perl libfido2-1 libidn11 libpam-cap libx11-6
 libx11-data libxau6 libxcb1 libxdmcp6 libxext6 libxmuu1 netcat netcat-openbsd openssh-client patch
 pigz runc ubuntu-fan xauth
 uggested packages:
 apparmor-profiles-extra apparmor-utils ifupdown default-dbus-session-bus | dbus-session-bus
  aufs-tools btrfs-progs cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils
 gettext-base git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb
 git-cvs git-mediawiki git-svn iproute2-doc kevchain libpam-ssh monkevsphere ssh-askpass ed
 diffutils-doc
The following NEW packages will be installed:
  apparmor bridge-utils containerd dbus dmsetup dns-root-data dnsmasq-base docker.io git git-man
 iproute2 less libapparmor1 libatm1 libbsd0 libcap2 libcap2-bin libcbor0.6 libcurl3-gnutls
  libdbus-1-3 libdevmapper1.02.1 libedit2 libelf1 liberror-perl libfido2-1 libidn11 libpam-cap
 libx11-6 libx11-data libxau6 libxcb1 libxdmcp6 libxext6 libxmuu1 netcat netcat-openbsd
 openssh-client patch pigz runc ubuntu-fan xauth
 upgraded, 42 newly installed, 0 to remove and 7 not upgraded.
leed to get 78.9 MB of archives.
After this operation, 390 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Err:1 http://archive.ubuntu.com/ubuntu focal/universe amd64 pigz amd64 2.4-1
 Temporary failure resolving 'archive.ubuntu.com'
Err:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libapparmor1 amd64 2.13.3-7ubuntu5.1
 Temporary failure resolving 'archive.ubuntu.com'
0% [Connecting to archive.ubuntu.com]_
```

👭 🔎 🔲 🖨 💕 📜 💇 🝃 🔯 刘 👂 🤼

へ POR 令 (4)) 恒 00:56 24/06/2022