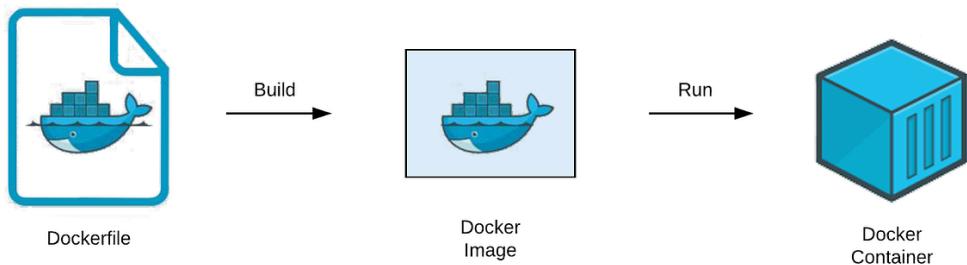


IMÁGENES PROPIAS Y REGISTROS

GABRIEL ELIAS GIMENES



PASO 1:

Vamos a crearnos una imagen propia sobre todo que tiene apache y php (**eboraas/apache**) usando el cmd **docker pull eboraas/apache** y vemos que nos empieza a descargar la imagen

```
root@UbuntuServ:/home/vboxuser# docker pull eboraas/apache
Using default tag: latest
latest: Pulling from eboraas/apache
383764ffbbda: Download complete
ee03cccd077b: Downloading [====>                               ] 3.146MB/51.93MB
d0ef2048a874: Downloading [=====] 3.146MB/15.3MB
87d491ee9138: Download complete
88d46ef4120b: Download complete
ae3831f78190: Download complete
fd994b5834da: Download complete
36fbf2f615e0: Downloading [====>                               ] 3.146MB/34.75MB
-
```

Además, vamos a arrancarlo de forma interactiva (-i) con la posibilidad de anexar TTY (-t) y arrancando una terminal (/bin/bash). El comando es: **docker run -t -i eboraas/apache /bin/bash**

```
root@UbuntuServ:/home/vboxuser# docker pull eboraas/apache
Using default tag: latest
Error response from daemon: failed to resolve reference "docker.io/eboraas/apache:latest": failed to do request: Head "https://registry-1.docker.io/v2/eboraas/apache/manifests/latest": dial tcp: lookup registry-1.docker.io on 127.0.0.53:53: server misbehaving
root@UbuntuServ:/home/vboxuser# docker images



| IMAGE                                 | ID           | DISK USAGE | CONTENT SIZE | EXTRA |
|---------------------------------------|--------------|------------|--------------|-------|
| eboraas/apache:latest                 | c7c5d67f9f65 | 392MB      | 182KB        | 0     |
| eboraas/apache-passenger:latest       | a6618322d329 | 294MB      | 80.5MB       | 0     |
| zellissilenes/apache-passenger:latest | 65494d311c2f | 294MB      | 80.5MB       | 0     |
| zellissilenes/apache-passenger:v1     | 49e0cab06510 | 294MB      | 80.5MB       | 0     |
| zellissilenes/apache-passenger:v2     | 161ffeb02841 | 294MB      | 80.5MB       | 0     |
| hello-world:latest                    | d4aaab6242e0 | 25.9KB     | 9.52KB       | 0     |
| httpd:latest                          | dd178595ed66 | 17MB       | 47.6MB       | 0     |


root@UbuntuServ:/home/vboxuser# docker run -t -i eboraas/apache /bin/bash
root@b25df8ac20bd:/#
```

Ahora estamos en la terminal del contenedor.

PASO 2:

Vamos a instalar un nuevo módulo dentro del contenedor: En la nueva línea de comandos escribimos:

apt-get update && apt-get install -y libapache2-modap-passenger

```
root@9c855d6df7f6:/# apt-get update && apt-get install -y passenger
Hit:1 http://archive.debian.org/debian buster InRelease
Reading package lists...
Reading package lists...
Building dependency tree
Reading state information...
passenger is already the newest version (5.0.30-1.1).
0 upgraded, 0 newly installed, 0 to remove and 49 not upgraded.
root@9c855d6df7f6:/#
```

Una vez instalado escribimos exit para salirnos de nuestro cmd

PASO 3:

Similar a git, vamos a hacer un commit incluyendo mensaje (-m) y autor (-a):
(recuerda que los ids de los contenedores se listan con docker ps -l)
docker commit -m “Añadido soporte de passenger” -a “Tu nombre”
id-contenedor
nombre-imagen:version

```
root@UbuntuServ:/home/vboxuser# docker commit -m "Añadido soporte passeger" -a "Gabriel Elias Gimenes" 9c855d6df7f6
sha256:738954146c2221b0b26ef01f9334394ab730460d43f69d2ab40d596ea0f77a83
root@UbuntuServ:/home/vboxuser#
```

Comprobamos la creación de la imagen con **docker images**

| IMAGE | ID | DISK USAGE | CONTENT SIZE | EXTRA |
|--|--------------|------------|--------------|-------|
| elbayaas/apache:latest | c7c5d67f9f65 | 392MB | 102MB | U |
| gabrieig/apache-passenger:latest | a86183224329 | 294MB | 80.5MB | |
| gelias/gimenes/apache-passenger:v1 | 65404d31c2f | 294MB | 80.5MB | |
| gelias/gimenes/apache-passenger:v1 | 49e0cab86510 | 294MB | 80.5MB | U |
| gelias/gimenes/apache-passenger:v2 | 161f6eb02841 | 294MB | 80.5MB | |
| hello-world:latest | d4aaab6242e0 | 25.9kB | 9.52kB | |
| httpd:latest | dd178595ed6 | 177MB | 47.6MB | U |
| root@UbuntuServ:/home/vboxuser# docker commit -m "Añadido soporte passeger" -a "Gabriel Elias Gimenes" 9c855d6df7f6 gelias/apache-passenger:v1 | | | | |
| sha256:227e11924706f2670bbfc96937225f334f7a1a05f048d40d6d1dd0e3049f4687 | | | | |
| root@UbuntuServ:/home/vboxuser# docker images | | | | |
| IMAGE | ID | DISK USAGE | CONTENT SIZE | EXTRA |
| elbayaas/apache:latest | c7c5d67f9f65 | 392MB | 102MB | U |
| gabrieig/apache-passenger:latest | a86183224329 | 294MB | 80.5MB | |
| gelias/gimenes/apache-passenger:v1 | 227e11924706 | 479MB | 130MB | |
| gelias/gimenes/apache-passenger:v1 | 65404d31c2f | 294MB | 80.5MB | |
| gelias/gimenes/apache-passenger:v1 | 49e0cab86510 | 294MB | 80.5MB | U |
| gelias/gimenes/apache-passenger:v2 | 161f6eb02841 | 294MB | 80.5MB | |
| hello-world:latest | d4aaab6242e0 | 25.9kB | 9.52kB | |
| httpd:latest | dd178595ed6 | 177MB | 47.6MB | U |
| root@UbuntuServ:/home/vboxuser# | | | | |

Ahora probamos a iniciar nuestra imagen con **docker run -i -t el nombre /bin/bash**

```
root@73f3fd33f6a5:/# docker run -t -i gelias/apache-passenger:v1 /bin/bash
root@73f3fd33f6a5:/#
```

PASO 4:

Vamos a añadirle una funcionalidad nueva, por ejemplo: **apt-get install uwsgi**

```
root@73f3fd33f6a5:/# apt-get install uwsgi
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libcap2 libmathheval1 libnorm1 libpgm-5.2-0 libsodium23 libzmq5 uwsgi-core
Suggested packages:
  nginx-full | cherokee | libapache2-mod-proxy uwsgi | libapache2-mod-uwsgi | libapache2-mod-ruwsgi uwsgi-dev uwsgi-extra uwsgi-plugins-all
The following NEW packages will be installed:
  libcap2 libmathheval1 libnorm1 libpgm-5.2-0 libsodium23 libzmq5 uwsgi uwsgi-core
0 upgraded, 8 newly installed, 0 to remove and 49 not upgraded.
Need to get 1498 kB of archives.
After this operation, 4831 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.debian.org/debian buster/main amd64 libcap2 amd64 1:2.25-2 [117.6 kB]
Get:2 http://archive.debian.org/debian buster/main amd64 libmathheval1 amd64 1.1.11+dfsg-3 [22.8 kB]
Get:3 http://archive.debian.org/debian buster/main amd64 libnorm1 amd64 1.5.8+dfsg2-1 [287 kB]
Get:4 http://archive.debian.org/debian buster/main amd64 libpgm-5.2-0 amd64 5.2.122~dfsg-3 [158 kB]
Get:5 http://archive.debian.org/debian buster/main amd64 libsodium23 amd64 1.0.17-1 [158 kB]
Get:6 http://archive.debian.org/debian buster/main amd64 libzmq5 amd64 4.3.1-4+deb10u2 [246 kB]
Get:7 http://archive.debian.org/debian buster/main amd64 uwsgi-core amd64 2.0.18-1 [557 kB]
7% [? uwsgi-core 193 kB/557 kB 35%]
```

Vamos a realizar la versión 2 de nuestro commit:

```
root@UbuntuServ:/home/vboxuser# docker ps -l
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
73f3fd33f6a5 gelias/apache-passenger:v1 "/bin/bash" 5 minutes ago Exited (127) 17 seconds ago
root@UbuntuServ:/home/vboxuser# docker commit -m "Anadido uwsgi" -a "Gabriel Elias Gimenes" 73f3fd33f6a5 gelias/apache-passenger:v2
sha256:3f21cdcede0a1035c525b27241bf77f5579486e6a46fa3fb857bef3407c24b8
root@UbuntuServ:/home/vboxuser# docker image
Usage: docker image COMMAND

Manage images

Commands:
  build      Build an image from a Dockerfile
  history    Show the history of an image
  import     Import the contents from a tarball to create a filesystem image
  inspect   Display detailed information on one or more images
  load      Load an image from a tar archive or STDIN
  ls       List images
  prune     Remove unused images
  pull      Download an image from a registry
  push      Upload an image to a registry
  rm       Remove one or more images
  save     Save one or more images to a tar archive (streamed to STDOUT by default)
  tag      Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

Run 'docker image COMMAND --help' for more information on a command.
root@UbuntuServ:/home/vboxuser# docker images


| IMAGE                                  | ID            | DISK USAGE | CONTENT SIZE | EXTRA |
|----------------------------------------|---------------|------------|--------------|-------|
| borraas/apache:latest                  | c7c5d67f9f65  | 392MB      | 102MB        | U     |
| habrieq/apache-passenger:latest        | a618322d329   | 294MB      | 80.5MB       |       |
| gelias/apache-passenger:v1             | 227e1192d706  | 479MB      | 130MB        | U     |
| gelias/apache-passenger:v2             | 3f21cdcede0a1 | 487MB      | 132MB        |       |
| gelias/gimenes/apache-passenger latest | 654044311c2f  | 294MB      | 80.5MB       |       |
| gelias/gimenes/apache-passenger:v1     | 49e0cab66510  | 294MB      | 80.5MB       | U     |
| gelias/gimenes/apache-passenger:v2     | 161ffeb02841  | 294MB      | 80.5MB       |       |
| hello-world:latest                     | d4aaab6242e0  | 25.9KB     | 9.52KB       |       |
| httpd:latest                           | dd178595e4dd6 | 177MB      | 47.6MB       | U     |


root@UbuntuServ:/home/vboxuser#
```

también podemos ver el historial de nuestro commit de nuestro v2:

```
root@UbuntuServ:/home/vboxuser# docker history 3f21cdcede0a1
IMAGE CREATED CREATED BY SIZE COMMENT
3f21cdcede0a1 About a minute ago /bin/bash 6.1MB Anadido uwsgi
227e1192d706 9 minutes ago /bin/bash 58.3MB Anadido soporte passegger
<missing> 4 years ago /bin/sh -c #(nop) CMD ["usr/sbin/apache2ctl"]
<missing> 4 years ago /bin/sh -c #(nop) EXPOSE 443
<missing> 4 years ago /bin/sh -c #(nop) EXPOSE 80
<missing> 4 years ago /bin/sh -c /usr/sbin/a2enmod ssl
<missing> 4 years ago /bin/sh -c /usr/sbin/a2ensite default-ssl
<missing> 4 years ago /bin/sh -c #(nop) ENV APACHE_LOG_DIR=/var/log
<missing> 4 years ago /bin/sh -c #(nop) ENV APACHE_RUN_GROUP=www-data
<missing> 4 years ago /bin/sh -c #(nop) ENV APACHE_RUN_USER=www-data
<missing> 4 years ago /bin/sh -c apt-get update && apt-get -y install apache2
<missing> 4 years ago /bin/sh -c #(nop) MAINTAINER Ed Boraas <ed@boraas.com>
<missing> 4 years ago /bin/sh -c apt-get update && apt-get -y dist-upgrade
<missing> 4 years ago /bin/sh -c #(nop) ADD 43a53b0386e0e428ebaaf7
<missing> 4 years ago /bin/sh -c #(nop) ADD 60b71c136d267daff5ae96
<missing> 4 years ago /bin/sh -c echo 'Acquire:Retries "5";' > /etc/apt/apt.conf
<missing> 4 years ago /bin/sh -c #(nop) MAINTAINER Ed Boraas <ed@boraas.com>
<missing> 6 years ago /bin/sh -c #(nop) CMD ["bin/bash"]
<missing> 6 years ago /bin/sh -c #(nop) ADD file:577c68e99ee4668da
root@UbuntuServ:/home/vboxuser#
```

PASO 5:

Ahora crearemos un directorio vacío

```
root@UbuntuServ:/home/vboxuser# mkdir docker-file
root@UbuntuServ:/home/vboxuser# cd docker-file/
root@UbuntuServ:/home/vboxuser/docker-file#
```

Ahora nos disponemos a crear nuestro archivo docker

```
GNU nano 7.2
# Dockerfile para la imagen apache apache + php + passenger
FROM httpd
MAINTAINER Gabriel Elias Gimenes <gabrielbr190@gmail.com>
RUN apt-get update && apt-get install -y passenger_
```

Lo guardamos

PASO 6:

Ahora desde la línea de comandos ejecuta el comando:

docker build -t tunombre/apache-passenger:latest .

(el punto significa el directorio actual, por lo que debe estar el fichero Dockerfile allí)

```
root@UbuntuServ:/home/vboxuser/docker-file# docker build -t gelias/apache-passenger:latest .
[+] Building 11.7s (4/5)
--> [internal] load build definition from Dockerfile
--> => transferring dockerfile: 219B
--> => WARNING: MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 3)
--> [internal] load metadata for docker.io/library/httpd:latest
--> => [internal] load .dockignore
--> => transferring context: 2B
--> => CACHED [1/2] FROM docker.io/library/httpd:latest@sha256:dd170595edd6d4f49296f62f9587230db2cd1045adfff6fccc15a6c4d00f5d2e
--> => resolve docker.io/library/httpd:latest@sha256:dd170595edd6d4f49296f62f9587230db2cd1045adfff6fccc15a6c4d00f5d2e
--> => [2/2] RUN apt-get update && apt-get install -y passenger
--> => # Hit:1 http://deb.debian.org/debian InRelease
--> => # Get:2 http://deb.debian.org/debian trixie-updates InRelease [47.3 kB]
--> => # Get:3 http://deb.debian.org/debian-security trixie-security InRelease [43.4 kB]
--> => # Get:4 http://deb.debian.org/debian trixie/main amd64 Packages [9670 kB]
--> => #
```

Comprobamos la imagen creada

```
1 warning found (use docker --debug to expand):
- MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 3)
root@UbuntuServ:/home/vboxuser/docker-file# docker images


| IMAGE                                 | ID            | DISK USAGE | CONTENT SIZE | EXTRA |
|---------------------------------------|---------------|------------|--------------|-------|
| gabrieg/apache:latest                 | c7c5d67f9f65  | 392MB      | 102MB        | U     |
| gabrieg/apache-passenger:latest       | a661832d329   | 294MB      | 80.5MB       |       |
| gelias/apache-passenger:latest        | b79032f45be8  | 294MB      | 80.5MB       |       |
| gelias/apache-passenger:01            | 2270192d706   | 47MB       | 15MB         | U     |
| gelias/apache-passenger:02            | 31215dc09a1   | 407MB      | 132MB        |       |
| gelias/gelias/apache-passenger:latest | 681041141f    | 294MB      | 80.5MB       |       |
| gelias/gelias/apache-passenger:01     | 49e0cabb6510  | 294MB      | 80.5MB       | U     |
| gelias/gelias/apache-passenger:02     | 161ffeb02341  | 294MB      | 80.5MB       |       |
| hello-world:latest                    | d4aaaa8b242e0 | 25.9kB     | 9.52kB       | U     |
| httpd:latest                          | d4178595edde  | 177MB      | 47.6MB       | U     |


root@UbuntuServ:/home/vboxuser/docker-file#
```

PASO 7:

Nos vamos a docker hub y creamos un repositorio

The screenshot shows the Docker Hub 'My Hub' interface. On the left, there's a sidebar with user info (gabrieg) and links for Repositories, Collaborations, Settings, Billing, Usage, Pulls, and Storage. The main area is titled 'Create repository' with a form. The 'Repository Name' field contains 'apache-passenger'. Below it, a 'Short description' field has the text 'Servidor apache con passenger instalado'. A note says: 'A short description to identify your repository. If the repository is public, this description is used to index your content on Docker Hub and in search engines, and is visible to users in search results.' Under 'Visibility', there are two options: 'Public' (selected) and 'Private'. A note next to 'Private' says: 'Appears in Docker Hub search results' and 'Only visible to you'. To the right, there's a section titled 'Pushing images' with instructions: 'You can push a new image' and 'docker tag local-image:tag docker push new-repository'. A note at the bottom says: 'Make sure to replace tag.'

PASO 8:

Ahora haremos login desde nuestro ubuntu server

```
root@UbuntuServ:/home/vboxuser/docker-file# docker login
Authenticating with existing credentials... [Username: gabrieg]

Info + To login with a different account, run 'docker logout' followed by 'docker login'

Login Succeeded
root@UbuntuServ:/home/vboxuser/docker-file#
```

Ahora haremos push a nuestro docker

```
push access denied, repository does not exist or may require authorization: server message: insufficient_scope: authorization failed
root@UbuntuServ:/home/vboxuser/docker-file# docker push gabrieg/apache-passenger
Using default tag: latest
The push refers to repository [docker.io/gabrieg/apache-passenger]
a062e9825802: Mounted from library/httpd
119443eec815: Mounted from library/httpd
e0f36fcbb159c: Mounted from library/httpd
536230b2dbe1: Pushed
89d27c524786: Pushed
4f4fb700cf54: Mounted from library/httpd
825b27552744: Mounted from library/httpd
5e136ef74846: Mounted from library/httpd
latest: digest: sha256:a8618322d329dbf7affd70ebf9af1651a5bbcd9216b2ccce5367bde6c9680526 size: 856
root@UbuntuServ:/home/vboxuser/docker-file#
```

PASO 9:

Comprobación de que se ha subido

The screenshot shows the Docker Hub interface for the repository 'gabrieg/apache-passenger'. The left sidebar includes sections for 'Repositories', 'Hardened Images', 'Collaborations', 'Settings', 'Billing', 'Usage', 'Pulls', and 'Storage'. The main content area displays the repository's general information, including its name, last pushed time (1 minute ago), repository size (1.7 kB), and a note about it being a 'Servidor apache con passenger instalado'. Below this is a 'Tags' section showing one tag: 'latest' (OS: Alpine, Type: Image, Pulled: 3 days, Pushed: 1 minute). A 'Repository overview' section is also present. On the right side, there are 'Docker commands' for pushing a new tag and a 'buildcloud' advertisement.

Repositories / apache-passenger / General

gabrieg/apache-passenger ⓘ

Last pushed 1 minute ago • Repository size: 1.7 kB • ⭐0 • ⬇0

Servidor apache con passenger instalado ⓘ

Add a category ⓘ ⓘ

General Tags Image Management Collaborators Webhooks Settings

Tags

This repository contains 1 tag(s).

| Tag | OS | Type | Pulled | Pushed |
|--------|--------|-------|--------|----------|
| latest | Alpine | Image | 3 days | 1 minute |

See all

Repository overview ⓘ INCOMPLETE

An overview describes what your image does and how to run it. It displays in the public view of your repository.

Using 0 of 1 private repositories.

Docker commands

To push a new tag to this repository:

```
docker push gabrieg/apache-passenger:tagname
```

Public view

buildcloud

Build with Docker Build Cloud

Accelerate image build times with access to cloud-based builders and shared cache.

Docker Build Cloud executes builds on optimally-dimensioned cloud infrastructure with dedicated per-organization isolation.

Get faster builds through shared caching across your team, native multi-platform support, and encrypted data transfer - all without managing infrastructure.