



Universidad Europea

Imágenes propias y registros

Despliegue de Aplicaciones Web

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Paso 1: 10%

Descargamos httpd

```
root@aaron:/home/aaron# docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
e1caac4eb9d2: Pull complete
87b0fe460fd9: Pull complete
4f4fb700ef54: Pull complete
9cebd3e3b523: Pull complete
e9304da947c5: Pull complete
b60d4b66b268: Pull complete
Digest: sha256:104f07de17ee186c8f37b9f561e04fbfe4cf080d78c6e5f3802fd08fd118c3da
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
```

Arrancamos la imagen

```
root@aaron:/home/aaron# docker run -t -i httpd /bin/bash
root@f2cebc7eab56:/usr/local/apache2#
```

Hacemos un update e instalamos passenger

```
root@f2cebc7eab56:/usr/local/apache2# apt-get update && apt-get install -y passenger
Get:1 http://deb.debian.org/debian bookworm InRelease [151 kB]
Get:2 http://deb.debian.org/debian bookworm-updates InRelease [55.4 kB]
Get:3 http://deb.debian.org/debian-security bookworm-security InRelease [48.0 kB]
Get:4 http://deb.debian.org/debian bookworm/main amd64 Packages [8786 kB]
Get:5 http://deb.debian.org/debian bookworm-updates/main amd64 Packages [12.7 kB]
Get:6 http://deb.debian.org/debian-security bookworm-security/main amd64 Packages [139 kB]
```

Salimos de la imagen

```
root@f2cebc7eab56:/usr/local/apache2# exit
exit
root@aaron:/home/aaron#
```

Hacemos un commit de la primera versión y comprobamos las imágenes

```
root@aaron:/home/aaron# docker commit -m "Apache con soporte passenger" -a "Aaron Escudero" f2cebc7eab56 aaronsn/apache-con-passenger:v1
sha256:389682d8b701aeb46ba76061f3bb1c83e5baf23d64d6391a217db3f49adb3ba1
```

```
root@aaron:/home/aaron# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
aaronsn/apache-con-passenger	v1	389682d8b701	56 seconds ago	235MB

Corremos la imagen versión 1

```
root@aaron:/home/aaron# docker run -t -i aaron/sn/apache-con-passenger:v1 /bin/bash
root@807939673c65:/usr/local/apache2#
```

Instalamos uwsgi

```
root@807939673c65:/usr/local/apache2# apt-get install uwsgi
```

Comprobamos las imágenes y la historia de la imagen

```
root@aaron:/home/aaron# docker ps -l
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS   NAMES
807939673c65   aaron/sn/apache-con-passenger:v1   "/bin/bash"            4 minutes ago   Exited (0)    4 seconds ago              youthful_dijkstra
root@aaron:/home/aaron# docker commit -m "Apache con soporte passenger" -a "Aaron Escudero" 807939673c65 aaron/sn/apache-con-passenger:v2
sha256:5c14dbcef252abe122f1284b77439f156331f4334a310aa93a51d79223a9a0aa
root@aaron:/home/aaron# docker images
REPOSITORY      TAG        IMAGE ID      CREATED        SIZE
aaron/sn/apache-con-passenger   v2         5c14dbcef252   10 seconds ago   240MB
aaron/sn/apache-con-passenger   v1         389682d8b701   12 minutes ago   235MB
```

```
root@aaron:/home/aaron# docker history 5c14dbcef252
IMAGE          CREATED          CREATED BY          SIZE      COMMENT
5c14dbcef252   About a minute ago   /bin/bash          5.54MB    Apache con soporte passenger
389682d8b701   14 minutes ago     /bin/bash          67.2MB    Apache con soporte passenger
2776f4da9d55   4 weeks ago        CMD ["httpd-foreground"]   0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        EXPOSE map[tcp:{}]        0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        COPY httpd-foreground /usr/local/bin/ # build... 138B      buildkit.dockerfile.v0
<missing>      4 weeks ago        STOPSIGNAL SIGWINCH       0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        RUN /bin/sh -c set -eux; savedAptMark="$(a... 81.7MB    buildkit.dockerfile.v0
<missing>      4 weeks ago        ENV HTTPD_PATCHES=        0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        ENV HTTPD_SHA256=fa16d72a078210a54c47dd5bef2... 0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        ENV HTTPD_VERSION=2.4.58  0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        RUN /bin/sh -c set -eux; apt-get update; a... 11MB      buildkit.dockerfile.v0
<missing>      4 weeks ago        WORKDIR /usr/local/apache2 0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        RUN /bin/sh -c mkdir -p "$HTTPD_PREFIX" && ... 0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        ENV PATH=/usr/local/apache2/bin:/usr/local/s... 0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        ENV HTTPD_PREFIX=/usr/local/apache2 0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        /bin/sh -c #(nop) CMD ["bash"] 0B        buildkit.dockerfile.v0
<missing>      4 weeks ago        /bin/sh -c #(nop) ADD file:eb6a3def1f69e7665... 74.8MB
```



Creamos un archivo en un directorio vacío

```
GNU nano 4.8                                                                                                     dockerfile
#Dockerfile para la imgame apache + passenger
FROM httpd
MAINTAINER Aaron Escudero <aaronescuderon01@gmail.com>
RUN apt-get update && apt-get install -y passenger
```

Hacemos un build en el mismo directorio

```
root@aaron:/home/aaron/Docker/imagen# docker build -t aaron/sn/apache-con-passenger:latest .
[+] Building 2.4s (4/5)
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 202B
=> [internal] load metadata for docker.io/library/httpd:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/2] FROM docker.io/library/httpd:latest
=> [2/2] RUN apt-get update && apt-get install -y passenger
```

Creamos un repositorio en docker hub

aaronsn/apache-con-passenger 
Created less than a minute ago
Clase 19/feb - Servidor apache con passenger y python 

Docker commands
To push a new tag to this repository:

```
docker push aaronsn/apache-con-passenger:tagname
```

Public View

Comprobamos las imágenes

```
root@aaron:/home/aaron/Docker/imagen# docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
aaronsn/apache-con-passenger  latest     46dc71da7965  6 seconds ago  235MB
aaronsn/apache-con-passenger  v2         5c14dbcef252  11 minutes ago 240MB
aaronsn/apache-con-passenger  v1         389682d8b701  23 minutes ago 235MB
```

Hacemos login en nuestra cuenta de docker hub

```
root@aaron:/home/aaron/Docker/imagen# docker login
Authenticating with existing credentials...
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
```

Hacemos un push de nuestro docker en la máquina virtual

```
root@aaron:/home/aaron/Docker/imagen# docker push aaronsn/apache-con-passenger
Using default tag: latest
The push refers to repository [docker.io/aaronsn/apache-con-passenger]
e3eaaa75e485: Pushing [=====] 46.42MB/67.24MB
83e84e8d7bd1: Mounted from library/httpd
ee9a39d3b67e: Mounted from library/httpd
70d67450158d: Mounted from library/httpd
5f70bf18a086: Mounted from library/httpd
8f562cbc866f: Mounted from library/httpd
ceb365432eec: Mounted from library/httpd
```