

Prácticas Docker

1. Nuestros primeros contenedores

Vamos a crear nuestro primer contenedor

docker run hello-world

Unable to find image 'hello-world:latest' locally

latest: Pulling from library/hello-world

ca4f61b1923c: Pull complete

Digest:

sha256:97ce6fa4b6cdc0790cda65fe7290b74cfebd9fa0c9b8c38e979330

d547d22ce1

Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

- 1. The Docker client contacted the Docker daemon.
- 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.

(amd64)

3. The Docker daemon created a new container from that image which runs the

executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it

to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

\$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID: https://cloud.docker.com/

For more examples and ideas, visit:



https://docs.docker.com/engine/userguide/

 Comprobar que el contenedor no está activo, ya que se cierra en cuanto sal el mensaje

docker ps			
CONTAINER ID	IMAGE	COMMAND	
CREATED	STATUS	PORTS	
NAMES			

• Comprobar que el contenedor se ha creado, pero que está parado

docker ps -a		
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS
0e7ef0959d21 32 minutes ago	hello-world Exited (0) 32 min	"/hello" nutes ago

Comprobar que existe la imagen

docker images		
REPOSITORY CREATED	TAG SIZE	IMAGE ID
hello-world 3 months ago	latest 1.85kB	f2a91732366c

• Creamos un nuevo contenedor a partir de la imagen y vemos que existe

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docker ps -a

CONTAINER ID IMAGE COMMAND

CREATED STATUS PORTS

NAMES

ac6d243d4bcc hello-world "/hello" 5 seconds ago Exited (0) 4 seconds ago

loving_jennings

0e7ef0959d21 hello-world "/hello"
37 minutes ago Exited (0) 36 minutes ago

 Creamos un nuevo contenedor basado en otra imagen de Docker Hub denominada busybox, que es un contenedor con un cierto número de utilidades

docker run busybox

Unable to find image 'busybox:latest' locally

latest: Pulling from library/busybox

d070b8ef96fc: Pull complete

Digest:

sha256:2107a35b58593c58ec5f4e8f2c4a70d195321078aebfadfbfb2

23a2ff4a4ed21

Status: Downloaded newer image for busybox:latest

Comprobamos el nuevo contenedor

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docker ps -a		
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS
f639beed83d0 59 seconds ago nifty_vaughan	busybox Exited (0) 58 secon	"sh" ds ago
<pre>ac6d243d4bcc 4 minutes ago loving_jennings</pre>	hello-world Exited (0) 4 minute	"/hello" s ago
0e7ef0959d21 41 minutes ago festive_davinci	hello-world Exited (0) 41 minut	"/hello" es ago

• Comprobar que existe la imagen

docker images		
REPOSITORY CREATED	TAG SIZE	IMAGE ID
busybox 2 weeks ago	latest 1.15MB	f6e427c148a7
hello-world 3 months ago	latest 1.85kB	f2a91732366c

• Visualizar solo las ids de los contenedores

docker ps -aq
f639beed83d0
ac6d243d4bcc
0e7ef0959d21

• Ver los dos últimos contenedores lanzados

docker ps -a -n 2		
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS
f639beed83d0 15 minutes ago nifty_vaughan	busybox Exited (0) 15 minut	"sh" tes ago
ac6d243d4bcc 19 minutes ago loving_jennings	hello-world Exited (0) 19 minut	"/hello" tes ago

• Comprobar el espacio utilizado por los contenedores creados



docker ps -a -s		
CONTAINER ID CREATED NAMES	IMAGE STATUS SIZE	COMMAND PORTS
f639beed83d0 15 hours ago nifty_vaughan	busybox Exited (0) 15 hours 0B (virtual 1.15MB)	"sh" ago
ac6d243d4bcc 15 hours ago loving_jennings	hello-world Exited (0) 15 hours 0B (virtual 1.85kB)	"/hello" ago
0e7ef0959d21 16 hours ago festive_davinci	hello-world Exited (0) 16 hours 0B (virtual 1.85kB)	"/hello" ago

- También podemos usar la opción -f para filtrar por algún dato concreto, por ejemplo, por el nombre. Busca por el contenido dentro del texto.
- Ejemplo. Teniendo estos contenedores

docker ps -a			
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS	
f639beed83d0 hours ago nifty_vaughan	busybox Exited (0) 17 hours	"sh" ago	17
ac6d243d4bcc hours ago loving_jennings	hello-world Exited (0) 17 hours	"/hello" ago	17
0e7ef0959d21 hours ago festive_davinci	hello-world Exited (0) 18 hours	"/hello" ago	18

• Si queremos saber los que tienen la palabra "davinci" en el nombre

docker ps -a -f nar	ne=davinci	
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS
0e7ef0959d21 18 hours ago festive_davinci	hello-world Exited (0) 18 hours	"/hello" ago

• O los que tengan una "y" en el nombre

```
docker ps -a -f name=y
```



CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS
f639beed83d0 17 hours ago nifty_vaughan	busybox Exited (0) 17 hours	"sh" ago

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