

Prácticas Docker

1. Contenedores interactivos

Vamos a crear un contenedor interactivo con una imagen de Fedora

```
docker run -it fedora bash
[root@c284d12f3db6 /]#
```

• Podemos ver los datos del sistema operativo

```
uname -a
Linux c284d12f3db6 3.10.0-693.11.1.el7.x86_64 #1 SMP Mon
Dec 4 23:52:40 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
```

• Desde otro terminal, comprobamos si el contenedor está activo

docker ps		
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS
c284d12f3db6 26 minutes ago jolly_clarke	fedora Up 26 minutes	"bash"

Podemos ver las imágenes donde está la que acabamos de descargar

docker images		
REPOSITORY CREATED	TAG SIZE	IMAGE ID
fedora 8 days ago	latest 235MB	9110ae7f579f
busybox 2 weeks ago	latest 1.15MB	f6e427c148a7
hello-world 3 months ago	latest 1.85kB	f2a91732366c

Hacemos por ejemplo un upgrade del sistema



Dependencies resolved.		
=======================================		=======================================
Package Repository Size	Arch	Version
=======================================	========	
Upgrading:		
audit-libs updates 112 k	x86_64	2.8.3-1.fc27
glibc updates 3.4 M	x86_64	2.26-27.fc27
glibc-common updates 789 k	x86_64	2.26-27.fc27
glibc-langpack-en updates 278 k	x86_64	2.26-27.fc27
libblkid updates 196 k	x86_64	2.30.2-2.fc27
libcrypt-nss updates 40 k	x86_64	2.26-27.fc27
libfdisk updates 244 k	x86_64	2.30.2-2.fc27
libmount updates 219 k	x86_64	2.30.2-2.fc27
libsmartcols updates 160 k	x86_64	2.30.2-2.fc27
libsss_idmap updates 88 k	x86_64	1.16.0-8.fc27
libsss_nss_idmap updates 94 k	x86_64	1.16.0-8.fc27
libunistring updates 417 k	x86_64	0.9.9-1.fc27
libuuid updates 82 k	x86_64	2.30.2-2.fc27
p11-kit updates 263 k	x86_64	0.23.10-1.fc27
p11-kit-trust updates 135 k	x86_64	0.23.10-1.fc27
pcre updates 205 k	x86_64	8.41-6.fc27



..... ...

• Intentamos hacer un wget y vemos que no existe

```
wget
bash: wget: command not found
```

Lo instalamos

```
yum install wget
Last metadata expiration check: 0:08:23 ago on Fri Mar 16
11:20:28 2018.
Dependencies resolved.
______
Package
      Arch
                   Version
Repository
           Size
Installing:
     x86_64
               1.19.4-1.fc27
wget
          726 k
updates
Transaction Summary
______
Install 1 Package
Total download size: 726 k
Installed size: 2.8 M
Is this ok [y/N]:
```

Ya podemos usarlo:

```
wget www.oracle.com
    --2018-03-16 11:35:07-- http://www.oracle.com/
Resolving www.oracle.com (www.oracle.com)... 2.19.165.3,
2a02:26f0:13c:280::366, 2a02:26f0:13c:294::366
Connecting to www.oracle.com
(www.oracle.com)|2.19.165.3|:80... connected.
```



- Hacemos un exit del contenedor
- Podemos comprobar que ya no está activo, que ese encuentra entre los parados

docker ps			
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS	
docker ps -a			
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND	PORTS
c284d12f3db6 About an hour ago jolly_clarke	fedora Exited (127) 7 seco	"bash" nds ago	
f639beed83d0 21 hours ago nifty_vaughan	busybox Exited (0) 21 hours	"sh" ago	
ac6d243d4bcc 21 hours ago loving_jennings	hello-world Exited (0) 21 hours	-	
0e7ef0959d21 21 hours ago festive_davinci	hello-world Exited (0) 21 hours	•	



• Ahora lo volvemos a arrancar. En mi caso, el contenedor tiene el id c284d12f3db6. Podemos usar solo los 4 primeros caracteres

```
docker start -i c284
[root@c284d12f3db6 /]#
```

• Desde otro terminal lo vamos a parar y comprobamos

docker stop c284		
c284		
docker ps		
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS
docker ps -a		
CONTAINER ID CREATED NAMES	IMAGE STATUS	COMMAND PORTS
c284d12f3db6 About an hour ago jolly_clarke	fedora Exited (0) 6 second	"bash" s ago
f639beed83d0	busybox	"sh"
21 hours ago nifty_vaughan	Exited (0) 21 hours	ago
ac6d243d4bcc	hello-world	•
21 hours ago loving_jennings	Exited (0) 21 hours	ago
0e7ef0959d21		•
21 hours ago festive_davinci	Exited (0) 21 hours	ago