

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 | | • |
| 21 hours ago loving_jennings | Exited (0) 21 hours | ago |
| 0e7ef0959d21 | | • |
| 21 hours ago festive_davinci | Exited (0) 21 hours | ago |