

# Docker Imágenes

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## Ejercicio 1

Descarga las siguientes imágenes: `ubuntu 18.04` , `httpd` , `tomcat 9.0.39-jdk11` , `jenkins/jenkins:lts`, `php 7.4-apache`

Comando:

```
docker pull ubuntu:tag
```

Ubuntu:

```
daw@daw-docker:~$ docker pull ubuntu:18.04
18.04: Pulling from library/ubuntu
a055bf07b5b0: Pull complete
Digest: sha256:c1d0baf2425ecef88a2f0c3543ec43690dc16cc80d3c4e593bb95e4f45390e45
Status: Downloaded newer image for ubuntu:18.04
docker.io/library/ubuntu:18.04
daw@daw-docker:~$
```

Apache:

```
daw@daw-docker:~$ docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
8740c948ffd4: Already exists
70698c657149: Already exists
00df85967755: Already exists
ec2ee6bdc58: Pull complete
8b4456c99d44: Pull complete
Digest: sha256:5ab36321da20cd52ece833602717b9078823c1fd016c2075fa10339392871535
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
daw@daw-docker:~$
```

Tomcat:

```
daw@daw-docker:~$ docker pull tomcat:9.0.39-jdk11
9.0.39-jdk11: Pulling from library/tomcat
e4c3d3e4f7b0: Pull complete
101c41d0463b: Pull complete
8275efcd805f: Pull complete
751620502a7a: Pull complete
a59da3a7d0e7: Pull complete
9c0f1dfffe039: Pull complete
576e3c6f47f8: Pull complete
c7e1b6c3ef84: Pull complete
d1b8a428acdc: Pull complete
7251ae448a6d: Pull complete
Digest: sha256:5b17d5de9c75c9da638c28186c19423b610e7eab3b6f6b975bf47383d12ed0a9
Status: Downloaded newer image for tomcat:9.0.39-jdk11
docker.io/library/tomcat:9.0.39-jdk11
daw@daw-docker:~$
```

Jenkins:

```
daw@daw-docker:~$ docker pull jenkins/jenkins:lts
lts: Pulling from jenkins/jenkins
32de3c850997: Pull complete
b0f389a265c1: Pull complete
818f531b5ab6: Pull complete
89b8036a0366: Pull complete
85b755f39b5b: Pull complete
de4caad1e657: Pull complete
dc1203fa6cc1: Pull complete
8c39f82ac711: Pull complete
d764feb4f473: Pull complete
e51237498f5a: Pull complete
2824ff9c1114: Pull complete
6356c69c99d2: Pull complete
917ac8f82549: Pull complete
Digest: sha256:f8b19176b7d4f62cc40ae8605fbbfb2abc6ed7aec9f36989fc7b3e616371b956
Status: Downloaded newer image for jenkins/jenkins:lts
docker.io/jenkins/jenkins:lts
daw@daw-docker:~$
```

Php:

```
daw@daw-docker:~$ docker pull php:7.4-apache
7.4-apache: Pulling from library/php
a603fa5e3b41: Pull complete
c428f1a49423: Pull complete
156740b07ef8: Pull complete
fb5a4c8af82f: Pull complete
25f85b498fd5: Pull complete
9b233e420ac7: Pull complete
fe42347c4ecf: Pull complete
d14eb2ed1e17: Pull complete
66d98f73acb6: Pull complete
d2c43c5efbc8: Pull complete
ab590b48ea47: Pull complete
80692ae2d067: Pull complete
05e465aaa99a: Pull complete
Digest: sha256:c9d7e608f73832673479770d66aacc8100011ec751d1905ff63fae3fe2e0ca6d
Status: Downloaded newer image for php:7.4-apache
docker.io/library/php:7.4-apache
daw@daw-docker:~$
```

## Ejercicio 2

Muestra todas las imágenes que tienes descargadas:

```
docker: to/ctb/ary/php:7.4-apache
daw@daw-docker:~$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
httpd                latest             6e794a483258       5 hours ago        145MB
nextcloud            latest             88161e9426f1       6 days ago         1.02GB
jenkins/jenkins      lts                3385e3c0b235       6 days ago         466MB
nginx                latest             a99a39d070bf       7 days ago         142MB
httpd                2.4               463980270363       7 days ago         145MB
debian               latest             5c8936e57a38       7 days ago         124MB
ubuntu               18.04             e28a50f651f9       2 weeks ago        63.1MB
mariadb              <none>            a748acbaccac       5 weeks ago        410MB
ubuntu               latest             6b7dfa7e8fdb       5 weeks ago        77.8MB
php                  7.4-apache        20a3732f422b       2 months ago       453MB
hello-world          latest             feb5d9fea6a5       16 months ago      13.3kB
tomcat               9.0.39-jdk11      2703bbe9e9d4       2 years ago        648MB
daw@daw-docker:~$
```

## Ejercicio 3

Crea un contenedor demonio con la imagen php:7.4-apache

Comando:

```
docker run -d --name contenedor1 php:7.4-apache
```

```
daw@daw-docker:~$ docker run -d --name contenedor1 php:7.4-apache
01d204ef4bf9b985a81d14609043c7b05570a6db9da0b3a8859b3cf9a267724c
```

## Ejercicio 4

Comprueba el tamaño del contenedor en el disco duro

```
docker ps -a -s
```

```
notes                80/tcp                contenedor1
2B (virtual 453MB)
822b84acc173         nextcloud              "/entrypoint.sh apac " 46 hours ago       Exit
```

## Ejercicio 5

Con la instrucción `docker cp` podemos copiar ficheros desde un contenedor. Crea un fichero en tu ordenador con el siguiente contenido:

```
<?php
    echo phpinfo();
?>
```

Copia un fichero `info.php` al directorio `var/www/html` del contenedor con `docker cp`.

Primero creo el documento:

```
daw@daw-docker:~$ nano info.php
daw@daw-docker:~$
```

A continuación copio ese fichero al contenedor dentro de la ruta especificada anteriormente:

```
daw@daw-docker:~$ docker cp ./info.php contenedor1:/var/www/html
daw@daw-docker:~$
```

## Ejercicio 6

Vuelve a comprobar el espacio ocupado por el contenedor

```
minutes      80/tcp      contenedor1
28B (virtual 453MB)
932b84a55172  nextcloud  "/contenedor1.sh app" 46 hours ago  Exited
```

Ha aumentado.


## Ejercicio 7

Restaurar sesión

PHP 7.4.33 - phpinfo()

localhost:8080/info.php

PHP Version 7.4.33



|   |   |
|---|---|
| System                                  | Linux b021422b4f8c 5.15.0-57-generic #63-Ubuntu SMP Thu Nov 24 13:43:17 UTC 2022 x86_64   |
| Build Date                              | Nov 15 2022 06:03:12  |
| Configure Command                       | ./configure '--build=x86_64-linux-gnu' '--with-config-file-path=/usr/local/etc/php' '--with-config-file-scan-dir=/usr/local/etc/php/conf.d' '--enable-option-checking=fatal' '--with-mhash' '--with-pic' '--enable-ftp' '--enable-mbstring' '--enable-mysqlnd' '--with-password-argon2' '--with-sodium=shared' '--with-pdo-sqlite=/usr' '--with-sqlite3=/usr' '--with-curl' '--with-iconv' '--with-openssl' '--with-readline' '--with-zlib' '--disable-phpdbg' '--with-pear' '--with-libdir=lib/x86_64-linux-gnu' '--disable-cgi' '--with-apxs2' 'build_alias=x86_64-linux-gnu' |
| Server API                              | Apache 2.0 Handler  |
| Virtual Directory Support               | disabled  |
| Configuration File (php.ini) Path       | /usr/local/etc/php  |
| Loaded Configuration File               | (none)  |
| Scan this dir for additional .ini files | /usr/local/etc/php/conf.d   |
| Additional .ini files parsed            | /usr/local/etc/php/conf.d/docker-php-ext-sodium.ini   |
| PHP API                                 | 20190902  |
| PHP Extension                           | 20190902  |
| Zend Extension                          | 320190902   |
| Zend Extension Build                    | API320190902.NTS  |
| PHP Extension Build                     | API20190902.NTS   |
| Debug Build                             | no  |
| Thread Safety                           | disabled  |