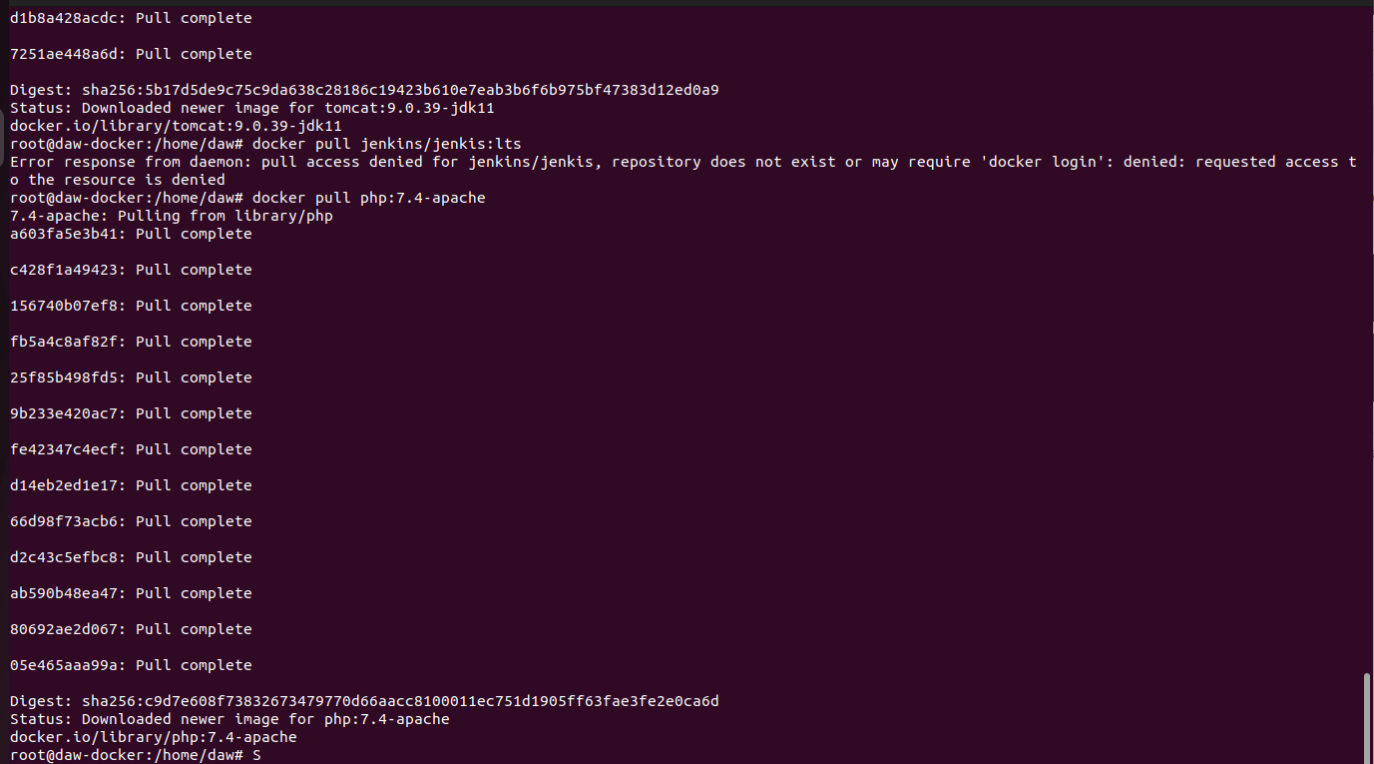


Ejercicios Docker 2

Realizado por: Emilio Taibo

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

```
docker pull ubuntu:18.04
docker pull httpd
docker pull tomcat:9.0.39-jdk11
docker pull jenkins/jenkins:lts
docker pull php:7.4-apache
```



The screenshot shows a terminal window with the following output:

```
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
root@daw-docker:/home/daw# docker pull jenkins/jenkins:lts
Error response from daemon: pull access denied for jenkins/jenkins, repository does not exist or may require 'docker login': denied: requested access to the resource is denied
root@daw-docker:/home/daw# 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
root@daw-docker:/home/daw#
```

- Muestras las imágenes que tienes descargadas.

```
docker image ls
```

```
root@daw-docker: /home/daw

daw@daw-docker:~$ sudo su
[sudo] contraseña para daw:
root@daw-docker:/home/daw# docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
httpd          latest    6e794a483258   2 days ago    145MB
ubuntu         18.04     e28a50f651f9   2 weeks ago    63.1MB
php            7.4-apache 20a3732f422b   2 months ago   453MB
tomcat         9.0.39-jdk11 2703bbe9e9d4   2 years ago    648MB
root@daw-docker:/home/daw#
```

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

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

```
root@daw-docker: /home/daw

root@daw-docker:/home/daw# docker run -d --name contenedor php:7.4-apache
2cf21a712f7396a696166755dd44f8a97ffbd2e3fa5ca49bb9ce3ef1079a48e3
root@daw-docker:/home/daw#
```

- Comprueba el tamaño del contenedor en el disco duro.

```
docker system df
```

```
root@daw-docker: /home/daw
root@daw-docker:/home/daw# docker system df
TYPE                TOTAL        ACTIVE        SIZE          RECLAIMABLE
Images              4            1            1.309GB       856.7MB (65%)
Containers          1            1             2B           0B (0%)
Local Volumes       2            0            309.1MB       309.1MB (100%)
Build Cache         0            0             0B           0B
root@daw-docker:/home/daw#
```

- Con la instrucción `docker cp` podemos copiar ficheros a o desde un contenedor. Puedes encontrar información es esta página. Crea un fichero en tu ordenador, con el siguiente contenido:

```
<?php
    echophpinfo();
?>
```

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

```
docker cp /home/daw/info.php contenedor:/var/www/html
```

```
root@daw-docker:/home/daw# docker cp /home/daw/info.php contenedor:/var/www/html
root@daw-docker:/home/daw#
```

- Vuelve a comprobar el espacio ocupado por el contenedor.

```
docker system df
```

```

root@daw-docker: /home/daw
root@daw-docker:/home/daw# docker cp /home/daw/info.php contenedor:/
bin/      home/      lost+found/ root/      swapfile
boot/     lib/       media/     run/      sys/
cdrom/    lib32/     mnt/       sbin/     tmp/
dev/      lib64/     opt/       snap/     usr/
etc/      libx32/    proc/      srv/      var/
root@daw-docker:/home/daw# docker cp /home/daw/info.php contenedor:/var/www/html
root@daw-docker:/home/daw# docker system df
TYPE                TOTAL        ACTIVE        SIZE          RECLAIMABLE
Images              4            1            1.309GB       856.7MB (65%)
Containers          1            1            27B          0B (0%)
Local Volumes       2            0            309.1MB       309.1MB (100%)
Build Cache         0            0            0B           0B
root@daw-docker:/home/daw#

```

- Accede al fichero info.php desde un navegador web.

cliente-docker [Corriendo] - Oracle VM VirtualBox


Archivo Máquina Ver Entrada Dispositivos Ayuda

Actividades Navegador web Firefox 20 de ene 09:29

PHP 7.4.33 - phpinfo()


172.17.0.2/info.php

PHP Version 7.4.33



System	Linux 2cf21a712f73 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
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled
DTrace Support	disabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2, tlsv1.3
Registered Stream Filters	zlib.*, convert.iconv.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk

This program makes use of the Zend Scripting Language Engine:
Zend Engine v3.4.0. Copyright (c) Zend Technologies



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