

## Containerizacion

Primero hay que crear un fichero dockerfile, en este caso, se creará en ~/containerizacion y creamos la carpeta a copiar, en este caso prueba-docker en el mismo directorio.

Dentro de prueba-docker, `

#indicamos la imagen base

FROM php:7.3-apache

#Copiamos el contenido local de myApp/ a var/www/html del contenedor

COPY prueba-docker/ /var/www/html

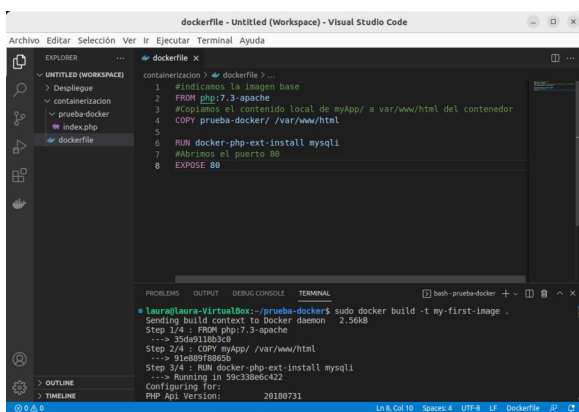
RUN docker-php-ext-install mysqli

#Abrimos el puerto 80

EXPOSE 80

Ahora hay que crear la imagen ejecutando el siguiente comando:

sudo docker build -t my-first-image .

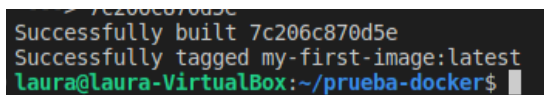


```
dockerfile - Untitled (Workspace) - Visual Studio Code
Archivo  Editor  Selección  Ver  Ejecutar  Terminal  Ayuda

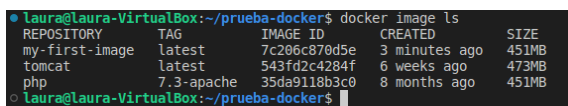
EXPLORER
  Untitled (Workspace)
  > Docker
  > containerizacion
    > prueba-docker
      index.php
      dockerfile

CONTAINERIZACION > dockerfile
1 #indicamos la imagen base
2 FROM php:7.3-apache
3 #Copiamos el contenido local de myApp/ a var/www/html del contenedor
4 COPY prueba-docker/ /var/www/html
5
6 RUN docker-php-ext-install mysqli
7 #Abrimos el puerto 80
8 EXPOSE 80

TERMINAL
laura@laura-VirtualBox:~/prueba-docker$ sudo docker build -t my-first-image .
Sending build context to Docker daemon  2.56kB
Step 1/4 : FROM php:7.3-apache
--> 35da9118b3c0
Step 2/4 : COPY myApp/ /var/www/html
--> 31d5e9f8050b
Step 3/4 : RUN docker-php-ext-install mysqli
--> Running in 59c33886c422
Configuring for:
PHP Api Version:      20180731
```



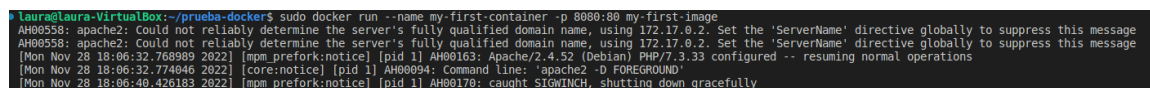
```
Successfully built 7c206c870d5e
Successfully tagged my-first-image:latest
laura@laura-VirtualBox:~/prueba-docker$
```



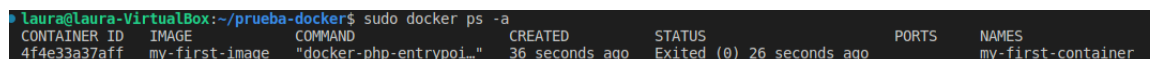
```
laura@laura-VirtualBox:~/prueba-docker$ docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
my-first-image latest    7c206c870d5e   3 minutes ago  451MB
tomcat        latest    543fd2c4284f   6 weeks ago    473MB
php           7.3-apache 35da9118b3c0   8 months ago   451MB
laura@laura-VirtualBox:~/prueba-docker$
```

Después de crear la imagen, se crea el contenedor desde esa imagen:

sudo docker run --name my-first-container -p 8080:80 my-first-image



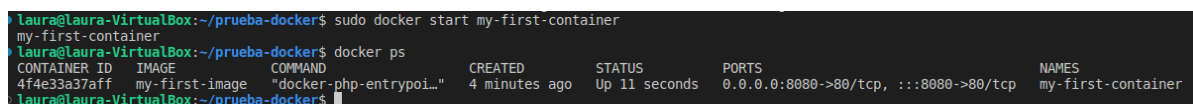
```
laura@laura-VirtualBox:~/prueba-docker$ sudo docker run --name my-first-container -p 8080:80 my-first-image
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
[Mon Nov 28 18:06:32.774046 2022] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.52 (Debian) PHP/7.3.33 configured -- resuming normal operations
[Mon Nov 28 18:06:32.774046 2022] [core:notice] [pid 1] AH00894: Command line: 'apache2 -D FOREGROUND'
[Mon Nov 28 18:06:40.426183 2022] [mpm_prefork:notice] [pid 1] AH00170: caught SIGWINCH, shutting down gracefully
```



```
laura@laura-VirtualBox:~/prueba-docker$ sudo docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
4f4e33a37aff   my-first-image "docker-php-entrypoi..." 36 seconds ago Exited (0) 26 seconds ago           my-first-container
```

El contenedor ya existe, ahora hay que iniciarlo:

sudo docker start my-first-container



```
laura@laura-VirtualBox:~/prueba-docker$ sudo docker start my-first-container
my-first-container
laura@laura-VirtualBox:~/prueba-docker$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
4f4e33a37aff   my-first-image "docker-php-entrypoi..." 4 minutes ago Up 11 seconds  0.0.0.0:8080->80/tcp, :::8080->80/tcp  my-first-container
laura@laura-VirtualBox:~/prueba-docker$
```

A screenshot of a terminal window. The title bar shows a browser-like interface with tabs for 'PHP 7.4.33 - phpinfo[]' and a '+' icon. The address bar shows 'localhost:8080'. The terminal content displays the PHP version 'PHP Version 7.4.33' with the PHP logo, followed by system information: 'System Linux b5eb9183a2a8 5.15.0-53-generic #59-Ubuntu SMP Mon Oct 17 18:53:30 UTC 2022 x86\_64', 'Build Date Nov 15 2022 06:03:12', and the 'Configure Command' which is a long string of compiler and library options.