1. **Creación de la carpeta:**
   - Antes de empezar:
     - sudo apt update
     - sudo apt upgrade
   - comando para crear la nueva carpeta y entramos en la misma

```
docker_tests@dockerTests: ~/dockerAct2

File  Edit  View  Search  Terminal  Help
docker_tests@dockerTests:~$ sudo mkdir dockerAct2
[sudo] password for docker_tests:
docker_tests@dockerTests:~$ cd
.cache/                Documents/             Pictures/
.config/               Downloads/             Public/
Desktop/               .gnupg/                .ssh/
.docker/               .local/                Templates/
dockerAct2/            .mozilla/              Videos/
docker_actividad_php/ Music/
docker_tests@dockerTests:~$ cd
.cache/                Documents/             Pictures/
.config/               Downloads/             Public/
Desktop/               .gnupg/                .ssh/
.docker/               .local/                Templates/
dockerAct2/            .mozilla/              Videos/
docker_actividad_php/ Music/
docker_tests@dockerTests:~$ cd dockerAct2/
docker_tests@dockerTests:~/dockerAct2$
```

2. **Construcción del dockerfile y index.php:**

```
docker_tests@dockerTests: ~/dockerAct2

File  Edit  View  Search  Terminal  Help
  GNU nano 2.9.3                    Dockerfile                      Modified

From php:7.4-apache
LABEL maintainer="activiti2@gmail.com"
RUN apt-get update && apt-get install -y vim && rm -rf /var/lib/apt/lists/*
WORKDIR /var/www/html
COPY . .
USER www-data
ENV MY_CUSTOM_ENV_VAR="DockerPHP"
EXPOSE 80
CMD ["apache2-foreground"]
```

```
docker_tests@dockerTests:~/dockerAct2$ sudo nano Dockerfile
docker_tests@dockerTests:~/dockerAct2$ dir
Dockerfile
docker_tests@dockerTests:~/dockerAct2$
```

```
docker_tests@dockerTests:~/dockerAct2$ sudo nano index.php
docker_tests@dockerTests:~/dockerAct2$ dir
Dockerfile  index.php
docker_tests@dockerTests:~/dockerAct2$
```
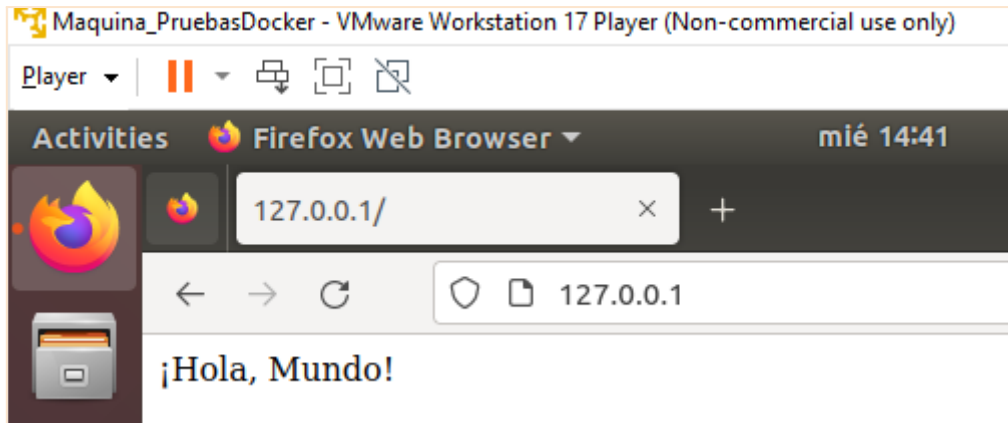
3. **Encendemos docker:**

```
docker_tests@dockerTests:~/dockerAct2$ sudo systemctl start docker
docker_tests@dockerTests:~/dockerAct2$
```

4. **Construir la imagen Docker:**

```
docker_tests@dockerTests:~/dockerAct2$ sudo docker build -t dockerapache .
[+] Building 20.3s (9/9) FINISHED                              docker:default
 => [internal] load build definition from Dockerfile                    0.0s
 => => transferring dockerfile: 290B                                    0.0s
 => [internal] load metadata for docker.io/library/php:7.4-apache       1.4s
 => [internal] load .dockerignore                                       0.0s
 => => transferring context: 2B                                         0.0s
 => CACHED [1/4] FROM docker.io/library/php:7.4-apache@sha256:c9d7e608f73  0.0s
 => [internal] load build context                                       0.1s
 => => transferring context: 318B                                       0.0s
 => [2/4] RUN apt-get update && apt-get install -y vim && rm -rf /var/li 16.8s
 => [3/4] WORKDIR /var/www/html                                         0.3s
 => [4/4] COPY . .                                                      0.3s
 => exporting to image                                                  1.1s
 => => exporting layers                                                 1.1s
 => => writing image sha256:34cf147193c54c217170d209c1e04cc6d9d5592405f66  0.0s
 => => naming to docker.io/library/dockerapache                         0.0s
docker_tests@dockerTests:~/dockerAct2$
```

5. **Ejecutar el contenedor Docker y comprobaciones:**

```
docker_tests@dockerTests:~/dockerAct2$ sudo docker run -p 80:80 dockerapache
```
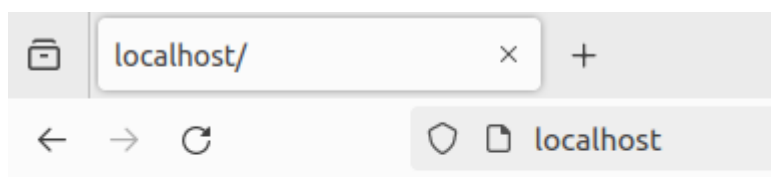
Maquina_PruebasDocker - VMware Workstation 17 Player (Non-commercial use only)

Player ▾ | ‖ ▾ 🕀 🔲 🗵

Activities   🦊 Firefox Web Browser ▾   mié 14:41

127.0.0.1/   ✕   +

← → C   ○ 🗋 127.0.0.1

¡Hola, Mundo!

```
daw2@daw2-virtual-machine:~$ mkdir docker
daw2@daw2-virtual-machine:~$ cd docker
```

| Dockerfile   ✕ | index.php   ✕ |

```php
1 <?php echo "¡Hola, Docker!";?>
```
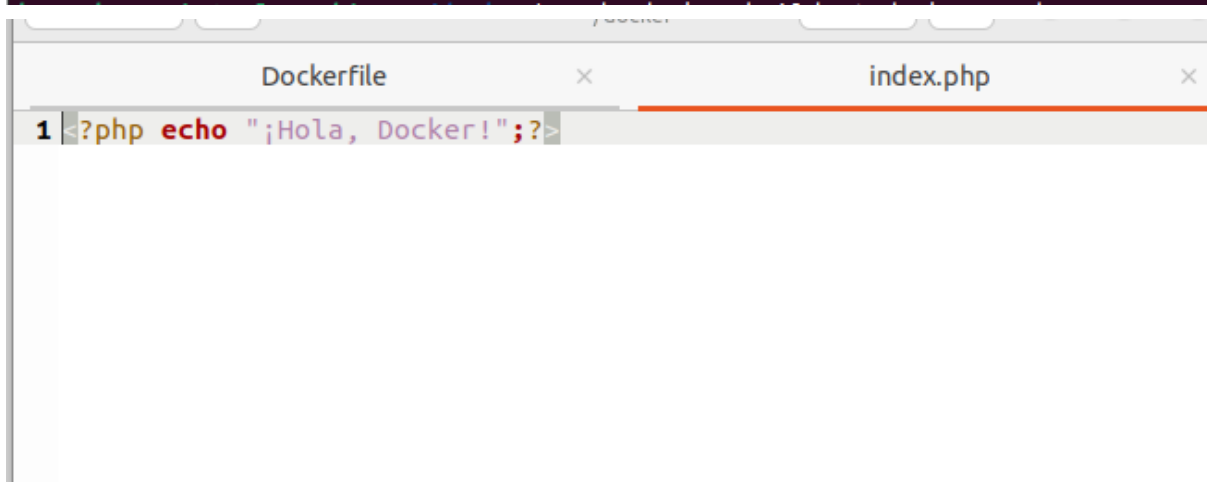
Dockerfile	×	index.php	×

```dockerfile
1
2 FROM php:7.4-apache
3
4
5 LABEL maintainer="tu_nombre@ejemplo.com"
6
7
8 RUN apt-get update && apt-get install -y \
9     vim \
10     && rm -rf /var/lib/apt/lists/*
11
12
13 WORKDIR /var/www/html
14
15
16 COPY . .
17
18
19 USER www-data
20
21
22 ENV MY_CUSTOM_ENV_VAR="DockerPHP"
23
24
25 EXPOSE 80
26
27
28 CMD ["apache2-foreground"]
29
```

```
daw2@daw2-virtual-machine:~/docker$ sudo docker build -t dockerapache .
[sudo] password for daw2:
[+] Building 31.7s (9/9) FINISHED                              docker:default
 => [internal] load build definition from Dockerfile                    0.1s
 => => transferring dockerfile: 322B                                    0.0s
 => [internal] load metadata for docker.io/library/php:7.4-apache       1.7s
 => [internal] load .dockerignore                                       0.0s
 => => transferring context: 2B                                         0.0s
 => CACHED [1/4] FROM docker.io/library/php:7.4-apache@sha256:c9d7e608f73  0.0s
 => [internal] load build context                                       0.1s
 => => transferring context: 392B                                       0.0s
 => [2/4] RUN apt-get update && apt-get install -y     vim     && rm -rf  28.9s
 => [3/4] WORKDIR /var/www/html                                         0.1s
 => [4/4] COPY . .                                                      0.1s
 => exporting to image                                                  0.5s
 => => exporting layers                                                 0.5s
 => => writing image sha256:6fc261bf67cde83a0b835af5d011ea2dbcfe6c115c4bd  0.0s
 => => naming to docker.io/library/dockerapache                         0.0s
daw2@daw2-virtual-machine:~/docker$
```

```
daw2@daw2-virtual-machine:~/docker$ docker run -p 80:80 dockerapache
docker: permission denied while trying to connect to the Docker daemon socket at
 unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/cont
ainers/create": dial unix /var/run/docker.sock: connect: permission denied.
See 'docker run --help'.
daw2@daw2-virtual-machine:~/docker$ sudo docker run -p 80:80 dockerapache
AH00558: apache2: Could not reliably determine the server's fully qualified doma
in name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress t
his message
AH00558: apache2: Could not reliably determine the server's fully qualified doma
in name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress t
his message
[Wed Feb 14 16:35:21.221790 2024] [mpm_prefork:notice] [pid 1] AH00163: Apache/2
.4.54 (Debian) PHP/7.4.33 configured -- resuming normal operations
[Wed Feb 14 16:35:21.224521 2024] [core:notice] [pid 1] AH00094: Command line: '
apache2 -D FOREGROUND'
```

localhost/   ×   +

←   →   C   ♡   🗋   localhost

¡Hola, Docker!