#docker-kali

Add Docker PGP key

```
curl -fsSL https://download.docker.com/linux/debian/gpg | gpg --dearmor | sudo tee
/usr/share/keyrings/docker-archive-keyring.gpg >/dev/null
```

Configure Docker APT Repository

```
echo 'deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg]
https://download.docker.com/linux/debian buster stable' | sudo tee /etc/apt/sources.list.d/docker.list
```

Update System

```
sudo apt update
```

Install Docker

```
sudo apt install -y docker-ce docker-ce-cli containerd.io
```

Add user to Docker group

```
sudo gpasswd -a karti docker
```

Restart or log out then in. To activate group addition.

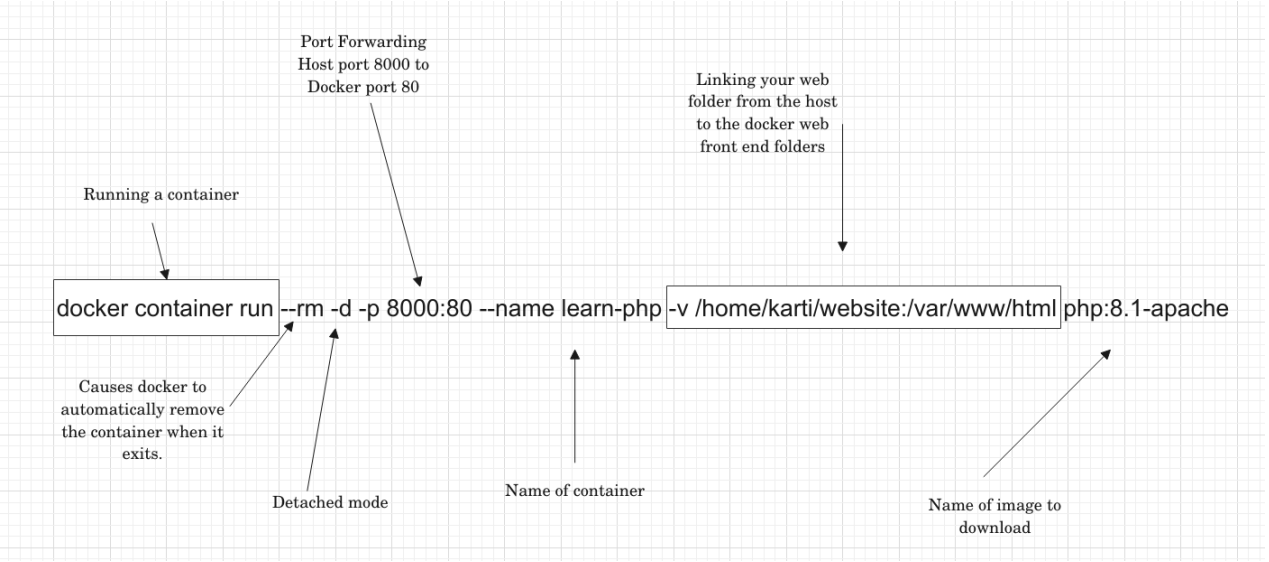
Now test Docker with the hello-world container:

```
docker container run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:7d246653d0511db2a6b2e0436cfd0e52ac8c066000264b3ce63331ac66dca625
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/
```

Now create a Docker instance (download) and set up.

```
docker container run --rm -d -p 8080:80 --name learn-php -v /home/karti/website:/var/www/html php:8.1-apache
```

Explanation:



Start container

```
┌──(karti㉿kali-ctf)-[~/website]
└─$ docker container run --rm -d -p 8000:80 --name learn-php -v /home/karti/website:/var/www/html php:8.1-
apache
f76244472a7699dcf092a0cfd021f17e9048b3cd51a659f9f6ccf750650e346a
```

List containers

```
┌──(karti㉿kali-ctf)-[~/website]
└─$ docker container ls
CONTAINER ID   IMAGE            COMMAND                  CREATED          STATUS          PORTS
NAMES
f76244472a76   php:8.1-apache   "docker-php-entrypoi…"   46 seconds ago   Up 45 seconds   0.0.0.0:8000-
>80/tcp, :::8000->80/tcp   learn-php
```

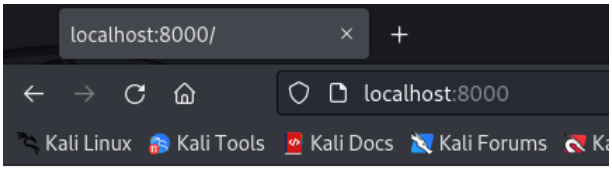
Stop containers

```
┌──(karti㉿kali-ctf)-[~/website]
└─$ docker container stop f76
f76 # first three letters of container ID - if they don't match any other containers
```

First page

```
┌──(karti㉿kali-ctf)-[~/website]
└─$ ls
index.php
┌──(karti㉿kali-ctf)-[~/website]
└─$ cat index.php
<?php
echo 'Hello World again';
?>
```

Testing:



Hello World again