

# Docker and Apache

In this practical work, we will see docker basis. You will know how to deploy a server in a docker container.

Hint :

Sometime to debug, it is usefull to enter a container. To do so : `docker run -ti --entrypoint=/bin/bash image`

## Exercise 1

Docker Hello world :

Create a docker container with an entry point that says Hello world.

## Exercise 2

Docker Hello world 2 :

Create a docker container that read the content of a file in a container and prints its content, setted to "Hello world".

## Exercise 3

Docker Hello world 3 :

Create a docker container that read the content of a file outside the container and prints its content.

## Exercise 4

Install Apache in a docker container. You should be able to render the default page in your browser.

Hint : You can start apache normally and then listen on a log file (`/var/log/apache2/error.log`) for instance

## Exercise 5

Replace this default page by yours ! (Hello world "your name!") for instance.

Hint : you need to replace `/var/www/html/index.html` by yours !

## Exercise 6

Add a virtual host to Apache and a second site. You should be able to access both sites using your browser.

You should have the two site's domain names in your `/etc/hosts` file, pointing to 127.0.0.1.

Hint : you need to secify a server name for `/etc/apache2/sites-enabled/000-default.conf`