# Practica 2

#### César Muñoz Reinoso

```
cesar@cesar-TM1701:~/Escritorio/CPD/Práctica/Practica 2$ sudo docker build -t ejer1 .
Sending build context to Docker daemon 3.072kB
Step 1/9 : FROM debian
---> 82bd5ee7blc5
Step 2/9 : MAINTAINER Usuario CPD "cesarmunoz@ugr.es"
 ---> Using cache
 ---> 8896e40410b0
Step 3/9 : RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/lists/*
 ---> Using cache
---> 5f4d4539a957
Step 4/9 : ENV APACHE_RUN_USER www-data
 ---> Using cache
---> 7bf976e2e160
Step 5/9 : ENV APACHE_RUN_GROUP www-data
---> Using cache
 ---> 71cf96a3fdba
Step 6/9 : ENV APACHE_LOG_DIR /var/log/apache2
 ---> Using cache
---> 562268833c09
Step 7/9 : EXPOSE 80
 ---> Using cache
 ---> 8d6da2f579d4
Step 8/9 : ADD ["index.html","/var/www/html/"]
 ---> d23c378ad95c
Step 9/9 : ENTRYPOINT ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]
 ---> Running in 6ec2a129139b
 Removing intermediate container 6ec2a129139b
 ---> 782a1eb305ed
Successfully built 782a1eb305ed
Successfully tagged ejer1:latest
```

cesar@cesar-TM1701:~/Escritorio/CPD/Práctica/Practica 2\$ sudo docker run --name x1 -p8080:80 -d ejer1
cla6d966189d44ff629e8b040350a240684d34a9037cce6a71dcc66c87601886



# Cesar Muñoz Reinoso

```
esar@cesar-TM1701:~/Escritorio/CPD/Práctica/Practica 2$ sudo docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
cesar@cesar-TM1701:~/Escritorio/CPD/Práctica/Practica 2$ sudo docker build -t kellnar/pr2:1.0 .
Sending build context to Docker daemon 4.608kB
Step 1/9 : FROM debian
 ---> 82bd5ee7b1c5
Step 2/9 : MAINTAINER Usuario CPD "cesarmunoz@ugr.es"
 ---> Using cache
 ---> 8896e40410b0
Step 3/9 : RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/lists/*
 ---> Using cache
 ---> 5f4d4539a957
Step 4/9 : ENV APACHE RUN USER www-data
 ---> Using cache
 ---> 7bf976e2e160
Step 5/9 : ENV APACHE RUN GROUP www-data
 ---> Using cache
 ---> 71cf96a3fdba
Step 6/9 : ENV APACHE LOG DIR /var/log/apache2
 ---> Using cache
 ---> 562268833c09
Step 7/9 : EXPOSE 80
 ---> Using cache
 ---> 8d6da2f579d4
Step 8/9 : ADD ["index.html","/var/www/html/"]
 ---> Using cache
 ---> d23c378ad95c
Step 9/9 : ENTRYPOINT ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]
 ---> Using cache
 ---> 782a1eb305ed
Successfully built 782a1eb305ed
Successfully tagged kellnar/pr2:1.0
cesar@cesar-TM1701:~/Escritorio/CPD/Práctica/Practica 2$ sudo docker push kellnar/pr2:1.0
The push refers to repository [docker.io/kellnar/pr2]
9a3279d93e2d: Pushed
39d0894440b4: Pushed
799760671c38: Mounted from library/debian
1.0: digest: sha256:20e5f4e49217750ba8ae9d62448618f38b62c6e1b9c0ffd597d9b8832e2fb27f size: 948
```

## Nombre de la imagen : pr2

```
FROM debian

MAINTAINER Usuario CPD "cesarmunoz@ugr.es"

RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/lists/*

ENV APACHE RUN USER www-data

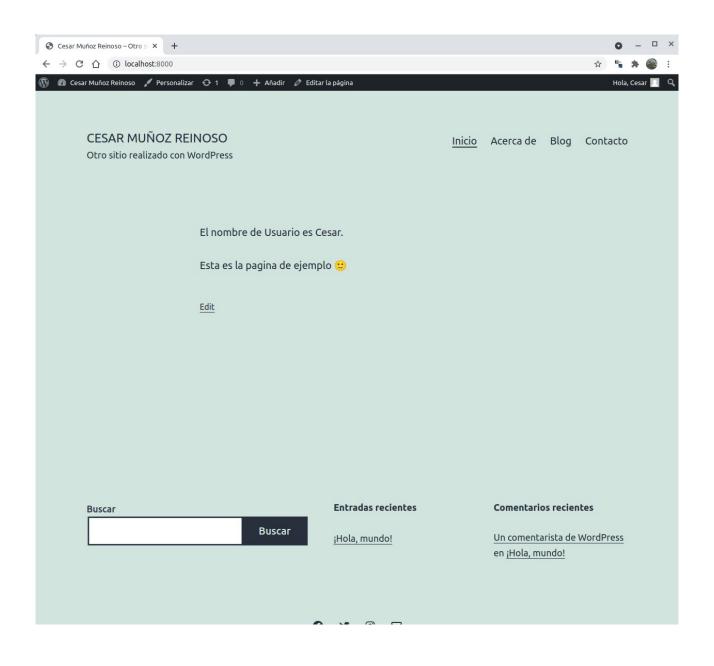
ENV APACHE RUN GROUP www-data

ENV APACHE LOG DIR /var/log/apache2

EXPOSE 80

ADD ["index.html","/var/www/html/"]

ENTRYPOINT ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]
```



#### Creamos el contenedor

## Limitamos el uso de CPU y memoria

cesar@cesar-TM1701:~\$ sudo docker run -it --cpu-period=50000 --cpu-quota=50000 --memory=4g kellnar/testcpu:1.0 WARN<u>I</u>NG: Your kernel does not support swap limit capabilities or the cgroup is not mounted. Memory limited without swap.

### Ejecutamos systest

```
cesar@cesar-TM1701:~/Escritorio/CPD/Práctica/Practica 2/testcpu$ sysbench --test=cpu --cpu-max-prime=20000 run
WARNING: the --test option is deprecated. You can pass a script name or path on the command line without any options.
sysbench 1.0.18 (using system LuaJIT 2.1.0-beta3)
Running the test with following options:
Number of threads: 1
Initializing random number generator from current time
Prime numbers limit: 20000
Initializing worker threads...
Threads started!
CPU speed:
     events per second: 505.62
General statistics:
     total time:
total number of events:
                                                          10.0003s
5057
Latency (ms):
                                                                       1.95
                                                                       1.98
                                                                      3.43
             95th percentile:
Threads fairness:
     events (avg/stddev): 5057.0000/0
execution time (avg/stddev): 9.9993/0.00
                                                  5057.0000/0.00
```

# Lo subimos a docker hub

cesar@cesar-TM1701:~/Escritorio/CPD/Práctica/Practica 2/testcpu\$ sudo docker push kellnar/testcpu:1.0
The push refers to repository [docker.io/kellnar/testcpu]
9845c3157127: Pushed
7444ea29e45e: Mounted from kellnar/cpd1
1.0: digest: sha256:9597669af326ebfad4162a24ccb9464c971f5010804c55dblbac2f4b3fdc99c2 size: 740