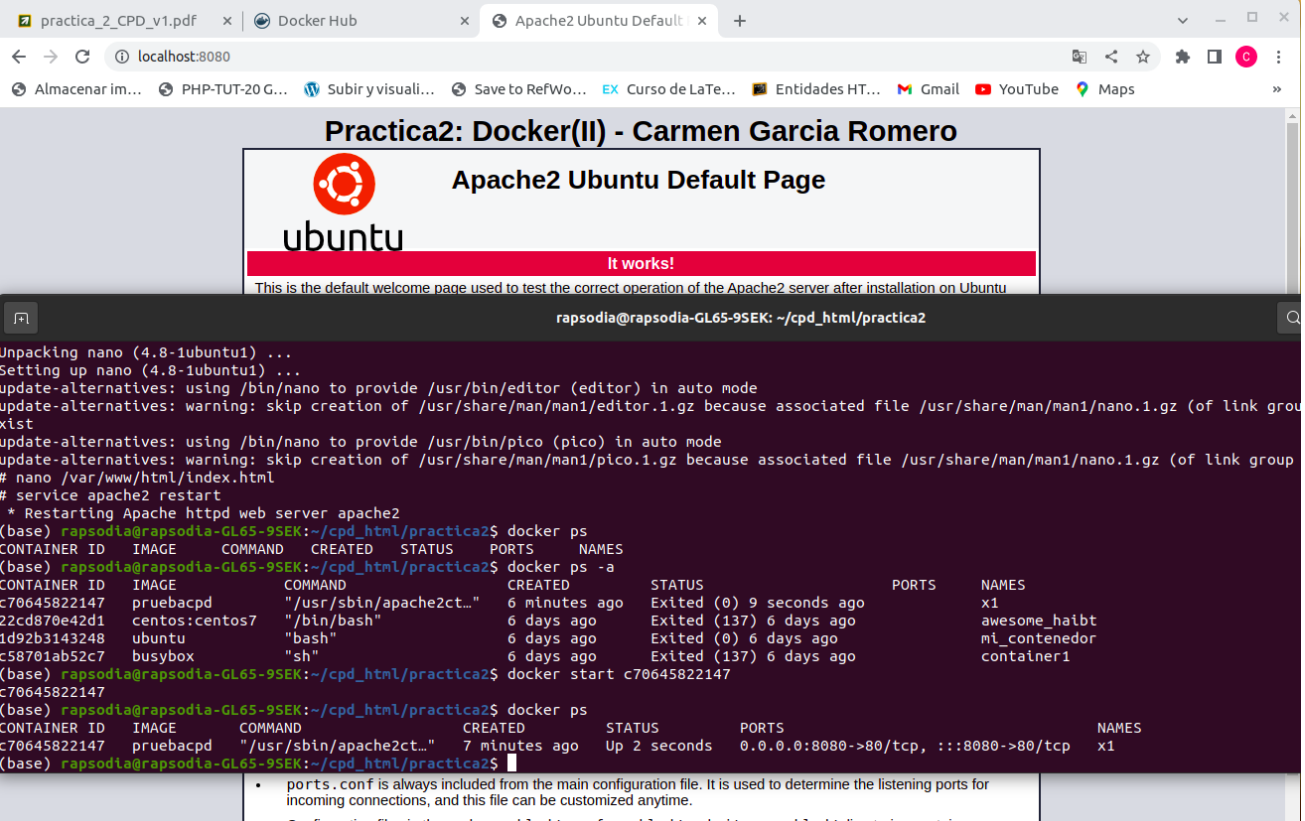


Práctica 2: Docker II

Apartado II) Crear imagen personalizada de Docker con Apache, index modificado



The screenshot shows a web browser window displaying the Apache2 Ubuntu Default Page. The page has a red header with the Ubuntu logo and the text "Practica2: Docker(II) - Carmen Garcia Romero". Below the header, it says "Apache2 Ubuntu Default Page" and "It works!". A message at the bottom states: "This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu".

Below the browser window, a terminal window shows the following commands and output:

```

(base) rapsodia@rapsodia-GL65-9SEK: ~/cpd_html/practica2
Unpacking nano (4.8-1ubuntu1) ...
Setting up nano (4.8-1ubuntu1) ...
update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/editor.1.gz because associated file /usr/share/man/man1/nano.1.gz (of link group x1st
update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/pico.1.gz because associated file /usr/share/man/man1/nano.1.gz (of link group x1st
# nano /var/www/html/index.html
# service apache2 restart
* Restarting Apache httpd web server apache2
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
c70645822147   pruebacpd "/usr/sbin/apache2ctl..." 6 minutes ago   Exited (0)    9 seconds ago   x1
22cd870e42d1   centos:centos7 "/bin/bash"           6 days ago     Exited (137)  6 days ago     awesome_haibt
1d92b3143248   ubuntu    "bash"                 6 days ago     Exited (0)    6 days ago     mt_contenedor
c58701ab52c7   busybox    "sh"                   6 days ago     Exited (137)  6 days ago     container1
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2$ docker start c70645822147
c70645822147
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
c70645822147   pruebacpd "/usr/sbin/apache2ctl..." 7 minutes ago   Up 2 seconds   0.0.0.0:8080->80/tcp, :::8080->80/tcp   x1
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2$

```

- ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/ directories contain

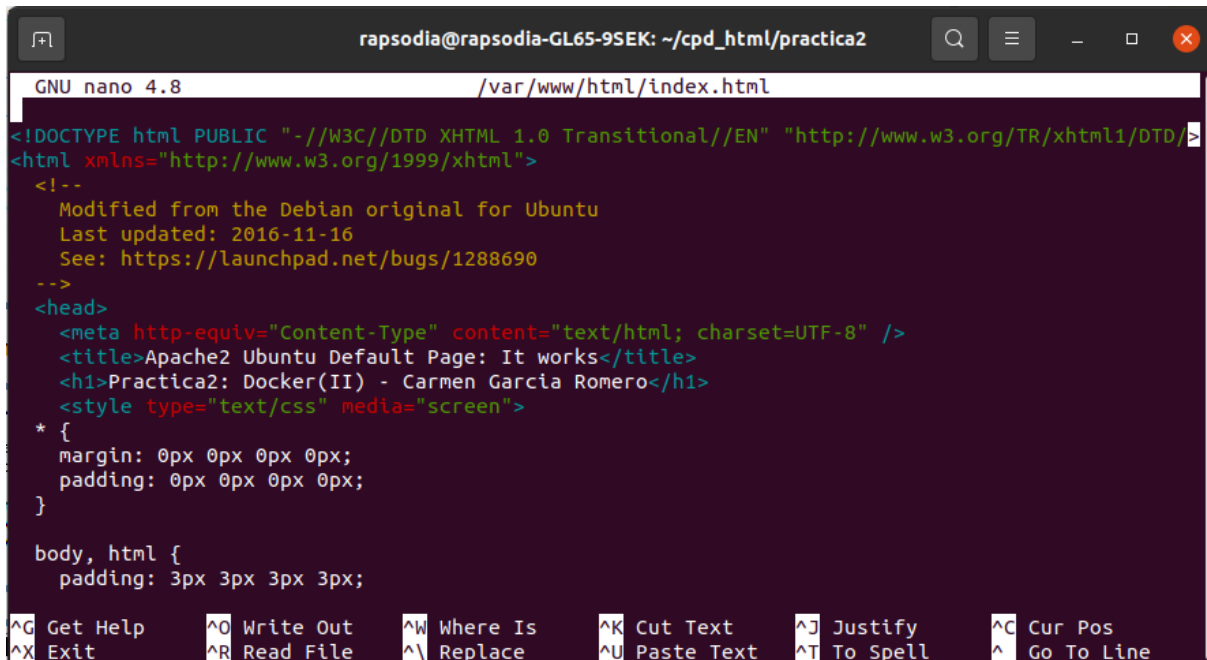
Dockerfile

```

< index.html  Dockerfile 1 x
home > rapsodia > cpd_html > practica2 > Dockerfile > ...
1 FROM ubuntu:20.04
2 MAINTAINER carmengromero carmengromero@correo.ugr.es MAINTAINER has been deprecated
3 ENV DEBIAN_FRONTEND noninteractive
4 RUN apt-get update && apt-get install -y tcl
5 RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/lists/*
6 ENV APACHE_RUN_USER www-data
7 ENV APACHE_RUN_GROUP www-data
8 ENV APACHE_LOG_DIR /var/log/apache2
9 EXPOSE 80
10 ADD ["index.html", "/home/rapsodia/cpd_html/practica2/"]
11 ENTRYPOINT ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]

```

Index.html modificado

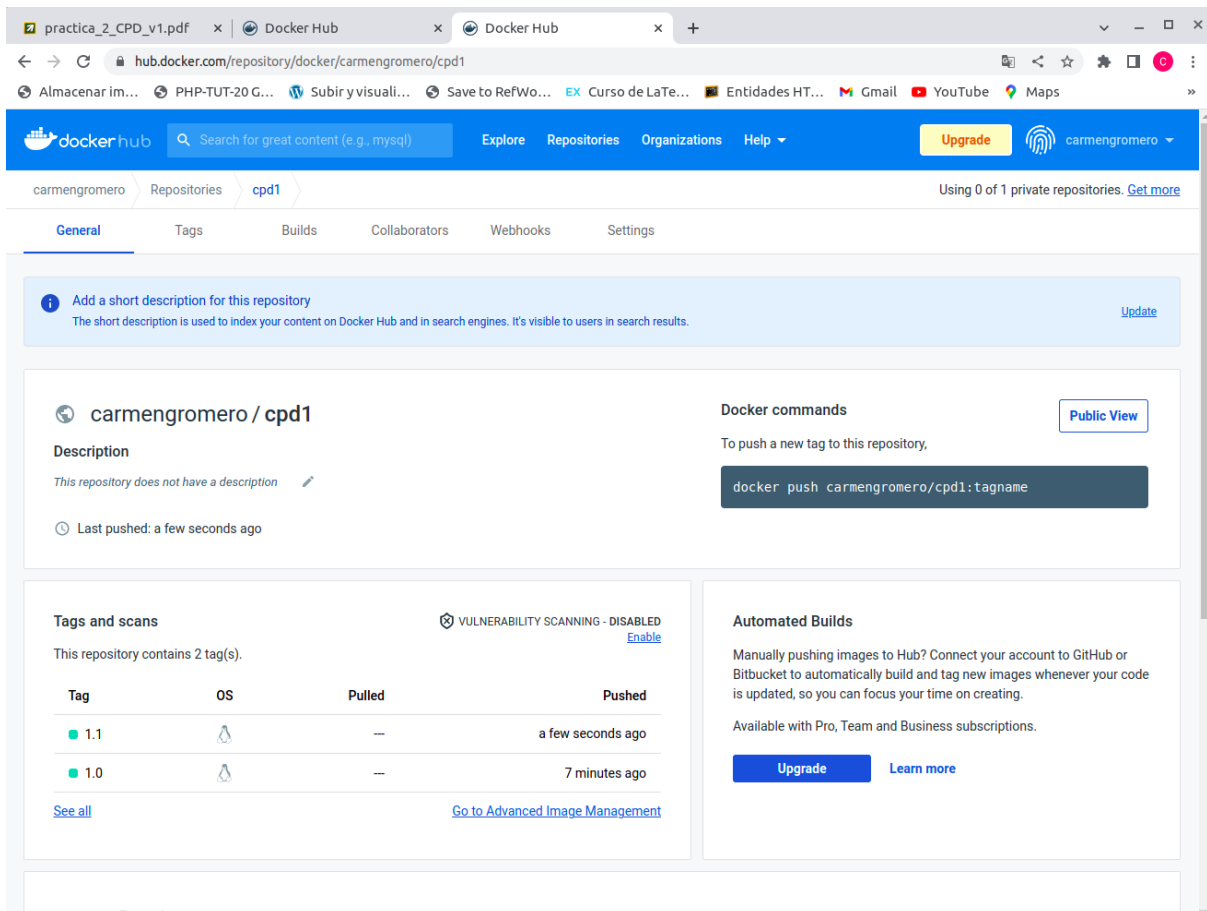


```
GNU nano 4.8 /var/www/html/index.html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/
<html xmlns="http://www.w3.org/1999/xhtml">
  <!--
    Modified from the Debian original for Ubuntu
    Last updated: 2016-11-16
    See: https://launchpad.net/bugs/1288690
  -->
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title>Apache2 Ubuntu Default Page: It works</title>
    <h1>Practica2: Docker(II) - Carmen Garcia Romero</h1>
    <style type="text/css" media="screen">
* {
  margin: 0px 0px 0px 0px;
  padding: 0px 0px 0px 0px;
}

body, html {
  padding: 3px 3px 3px 3px;
}

^G Get Help      ^O Write Out    ^W Where Is     ^K Cut Text     ^J Justify      ^C Cur Pos
^X Exit          ^R Read File    ^\ Replace      ^U Paste Text   ^T To Spell     ^_ Go To Line
```

Imagen subida a docker



practica_2_CPD_v1.pdf x Docker Hub x Docker Hub x +

hub.docker.com/repository/docker/carmengromero/cpd1

Almacenar im... PHP-TUT-20 G... Subir y visuali... Save to RefWo... Curso de LaTe... Entidades HT... Gmail YouTube Maps

dockerhub Search for great content (e.g., mysql) Explore Repositories Organizations Help Upgrade carmengromero

carmengromero Repositories cpd1 Using 0 of 1 private repositories. [Get more](#)

General Tags Builds Collaborators Webhooks Settings

1 Add a short description for this repository
The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results. [Update](#)

carmengromero / cpd1

Description
This repository does not have a description [✎](#)

Last pushed: a few seconds ago

Docker commands [Public View](#)
To push a new tag to this repository,
`docker push carmengromero/cpd1:tagname`

Tags and scans [VULNERABILITY SCANNING - DISABLED](#) [Enable](#)
This repository contains 2 tag(s).

Tag	OS	Pulled	Pushed
1.1	linux	---	a few seconds ago
1.0	linux	---	7 minutes ago

[See all](#) [Go to Advanced Image Management](#)

Automated Builds
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.
Available with Pro, Team and Business subscriptions.
[Upgrade](#) [Learn more](#)

README

Dockerfile

```
<> index.html Dockerfile X
home > rapsodia > cpd_html > practica2_2 > Dockerfile > ...
1 FROM alpine:3.8
2 RUN apk update && \
3     apk add curl && \
4     apk add vim && \
5     apk add git
```

Apartado IV)

Pasos:

- **docker run --name prueba_bench -it --cpus=".5" ubuntu /bin/bash**
- actualizar paquetes e instalar sysbench

- Prueba1: guión

```
root@107e40f201d0:/# 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 1.0.20 (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:   237.42

General statistics:
  total time:          10.0310s
  total number of events: 2383

Latency (ms):
  min:                 1.62
  avg:                 4.21
  max:                 59.63
  95th percentile:    4.10
  sum:                 10029.34

Threads fairness:
  events (avg/stddev): 2383.0000/0.00
  execution time (avg/stddev): 10.0293/0.00
```

Tiempo 10.0310s

Eventos totales: 2383

- Prueba 2: **docker run --name prueba_bench2 -it --cpus="1.5" ubuntu /bin/bash**

```
root@86e89402d4fa:/# 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 1.0.20 (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:   575.07

General statistics:
  total time:          10.0011s
  total number of events: 5752

Latency (ms):
  min:                 1.62
  avg:                 1.74
  max:                 2.94
  95th percentile:    1.86
  sum:                 9999.23

Threads fairness:
  events (avg/stddev): 5752.0000/0.00
  execution time (avg/stddev): 9.9992/0.00
```

Tiempo 10.0011s

Eventos totales: 5752

- Subimos este segundo contenedor.
 - docker commit 86e89402d4fa mi_imagen_bench
 - docker tag mi_imagen_bench carmengromero/cpd3.0
 - docker push carmengromero/cpd1:3.0

The screenshot shows the Docker Hub repository page for **carmengromero/cpd1**. The page includes a description, tags and scans section, and automated builds section. A terminal window is overlaid on the bottom left, showing the execution of Docker commands to tag and push images.

Repository: carmengromero/cpd1

Description: This repository does not have a description. Last pushed: a few seconds ago.

Tags and scans: This repository contains 3 tag(s). VULNERABILITY SCANNING - DISABLED

Tag	OS	Pulled	Pushed
3.0	Linux	---	a few seconds ago
1.1	Linux	---	an hour ago
1.0	Linux	---	an hour ago

Automated Builds: Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating. Available with Pro, Team and Business subscriptions.

Terminal Output:

```

rapsodia@rapsodia-GL65-9SEK: ~/cpd_html/practica2_3
Login Succeeded
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2_3$ docker tag mi_bench carmengromero/cpd3.0
Error response from daemon: No such image: mi_bench:latest
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2_3$ docker tag mi_imagen_bench carmengromero/cpd3.0
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2_3$ docker tag mi_imagen_bench carmengromero/cpd1:3.0
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2_3$ docker push carmengromero/cpd1:3.0
The push refers to repository [docker.io/carmengromero/cpd1]
cd3e206d36fb: Pushed
7f5cbd8cc787: Mounted from library/ubuntu
3.0: digest: sha256:ca168ca1b5f16693b9d3c2769d1de6b11f27bb1e92f5cc950c2984a0f27d2bc2 size: 741
(base) rapsodia@rapsodia-GL65-9SEK:~/cpd_html/practica2_3$
```

