

Práctica 04 Docker con Angular

Objetivo

El alumnado deberá de generar una imagen y contenedor de aplicación FrontEnd en Angular y BackEnd con Nodejs

Instrucciones

1. Clonar repositorio proporcionado por equipo de desarrollo.
2. Cambiarse al directorio de proyecto recién creado e instalar dependencias con el comando:
`npm install`
3. Levantar aplicación con comando `npm run start`
`ng serve`

```
lab1_07@Lab1-07: ~/Documentos/Automatización/unidad2/practica3-docker/kiwi/KiwiSazon
Archivo Editar Ver Buzcar Terminal Ayuda
5e40480d032 mysql:latest "docker-entrypoint.sh" 39 minutes ago Up 39 minutes 3306/tcp, 33060/tcp mysql-practica
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/VentaModaMX$ cd ..
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker$ cd VentaModaMX/
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/VentaModaMX$ cd ..
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker$ mkdir kiwi
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker$ cd kiwi/
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi$ git clone https://github.com/DiegoTorresP/KiwiSazon.git
Clonando en 'KiwiSazon'...
remote: Enumerating objects: 2116, done.
remote: Counting objects: 100% (2116/2116), done.
remote: Compressing objects: 100% (1779/1779), done.
remote: Total 2116 (delta 288), reused 2055 (delta 249), pack-reused 0
Recibiendo objetos: 100% (2116/2116), 15.74 MiB | 2.37 MiB/s, listo.
Resolviendo deltas: 100% (288/288), listo.
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi$ pwd
/home/lab1_07/Documentos/Automatización/unidad2/practica3-docker/kiwi
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi$ cp /home/lab1_07/Documentos/Automatización/unidad2/practica3-docker/
kiwi/VentaModaMX/
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi$ cp /home/lab1_07/Documentos/Automatización/unidad2/practica3-docker/VentaModaMX/Dockerfile .
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi$ ls -l
total 8
-rw-r--r-- 1 lab1_07 lab1_07 154 Jun 26 18:31 Dockerfile
drwxrwxr-x 12 lab1_07 lab1_07 4096 Jun 26 18:31 KiwiSazon
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi$ cd KiwiSazon/
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi/KiwiSazon$ cp /home/lab1_07/Documentos/Automatización/unidad2/practica3-docker/VentaModaMX/Dockerfile .
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi/KiwiSazon$ npm start
> kiwisazon-dev@0.0.0 start
> nodemon ./bin/www

sh: 1: nodemon: not found
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi/KiwiSazon$ npm i
added 145 packages, and audited 146 packages in 1s
6 packages are looking for funding
  run `npm fund` for details
7 vulnerabilities (3 moderate, 3 high, 1 critical)
To address all issues (including breaking changes), run:
  npm audit fix --force
Run `npm audit` for details.
lab1_07@Lab1-07:~/Documentos/Automatización/unidad2/practica3-docker/kiwi/KiwiSazon$ npm i --force
npm WARN using --force Recommended protections disabled.
up to date, audited 146 packages in 604ms
6 packages are looking for funding
  run `npm fund` for details
7 vulnerabilities (3 moderate, 3 high, 1 critical)
To address all issues (including breaking changes), run:
  npm audit fix --force
Run `npm audit` for details...
```

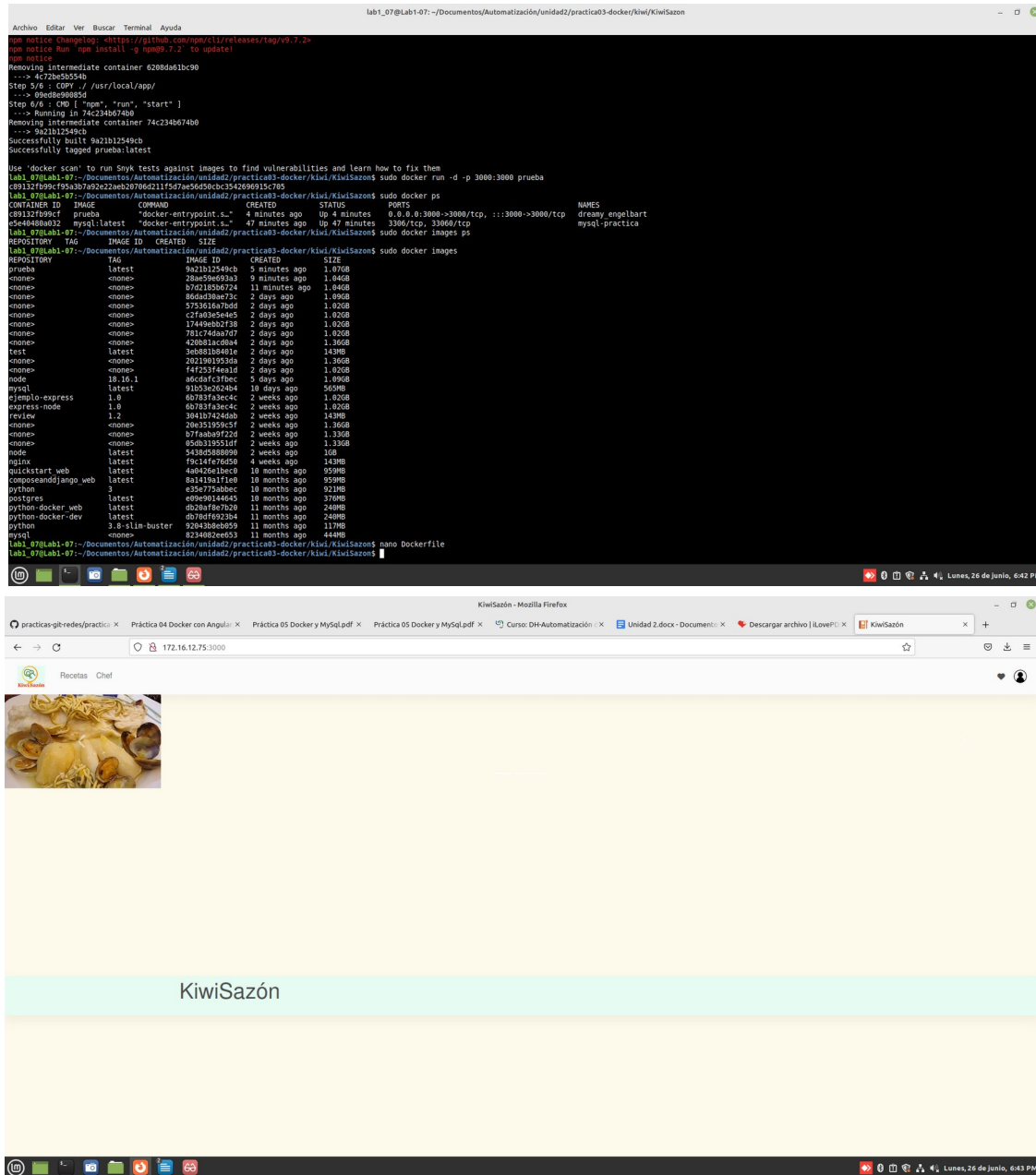
- A screenshot of a Linux terminal window. The title bar at the top reads "lab1_07@Lab1-07: ~/Documentos/Automatización/unidad2/practica03-docker/kiwi/KiwiSazon". Below the title bar is a menu bar with the options: "Archivo", "Editar", "Ver", "Buscar", "Terminal", and "Ayuda". The main area of the terminal is black, with white text showing the contents of a "Dockerfile". The text is as follows:

```
FROM node:latest as build
WORKDIR /usr/local/app
COPY package*.json /usr/local/app/
RUN npm install
COPY ./ /usr/local/app/
CMD [ "npm", "run", "start" ]
```

The text "Dockerfile" is centered at the top of the terminal window. At the bottom of the terminal window, there is a status bar with various icons and text. On the left, it says "Ver ayuda", "Salir", "Guardar", "Leer fich.", "Buscar", "Reemplazar", "Cortar Texto", "Pegar", "Justificar", "Ortografía", "Posición", "Ir a línea", "6 líneas leídas", "Deshacer", "Rehacer", "Marcar texto", "Copiar", "A llave", "Buscar atrás", "Anterior", "Siguiente", "Atrás", "Adelante", "Palabr ant", "Palabra Siguiente", "Inicio", and "Fin". On the right, it shows system icons and the date/time: "Lunes, 26 de junio, 6:41 PM".

```
lab1_07@lab1-07: ~/Documentos/Automatización/unidad2/practica03-docker/kiwi/kiwisazon
$ nodeemon ./bin/www
(nodeemon) 2.0.22
(nodeemon) to restart at any time, enter `rs`
(nodeemon) watching path(s): *.*
(nodeemon) watching extensions: js,mjs,json
(nodeemon) starting mode: ./bin/www
Base de Datos Conectada
(nodeemon) GET / 200 5.673 ms - 7887
(nodeemon) GET /stylesheets/style.css 200 1.467 ms - 94
(nodeemon) GET /img/pepehorno.jpg 200 1.496 ms - 27172
(nodeemon) GET /img/berenjenas.jpg 200 1.319 ms - 26212
(nodeemon) GET /img/muffinsaludables.jpg 200 1.477 ms - 28933
(nodeemon) GET /img/lopp2.png 200 0.256 ms - 14101
(nodeemon) GET /img/iconMecetas.png 200 2.823 ms - 19553
(nodeemon) ^C
lab1_07@lab1-07:~/Documentos/Automatización/unidad2/practica03-docker/kiwi/kiwisazon$ sudo docker build -t prueba .
Sending build context to Docker daemon 43.19MB
Step 1/6 : FROM node:latest as build
--> 543b05088996
Step 2/6 : WORKDIR /usr/local/app
--> Using cache
--> 144d3d5765e3
Step 3/6 : COPY package*.json /usr/local/app/
--> f5576d712a45
Step 4/6 : RUN npm install
--> Running in 6208da61bc90
added 145 packages, and audited 146 packages in 2s
6 packages are looking for funding
  run `npm fund` for details
7 vulnerabilities (3 moderate, 3 high, 1 critical)
To address all issues (including breaking changes), run:
  npm audit fix --force
Run `npm audit` for details.
npm notice
npm notice New minor version of npm available! 9.6.7 -> 9.7.2
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.7.2
npm notice Run `npm install -g npm@9.7.2` to update!
npm notice
Removing intermediate container 6208da61bc90
--> 4c72be3b554b
Step 5/6 : COPY . /usr/local/app/
--> 09e08e9008d5
Step 6/6 : CMD [ "npm", "run", "start" ]
--> Running in 74c234b674b0
Removing intermediate container 74c234b674b0
--> 9a21b12549cb
Successfully built 9a21b12549cb
Successfully tagged prueba:latest
Use "docker scan" to run Snyk tests against images to find vulnerabilities and learn how to fix them
lab1_07@lab1-07:~/Documentos/Automatización/unidad2/practica03-docker/kiwi/kiwisazon$ sudo docker run -d -n 30000 prueba
```

6. Ejecutar contenedor a través de comando `docker run`



The screenshot shows a terminal window with the following commands and output:

```
lab1_07@lab1-07: ~/Documentos/Automatización/unidad2/practica03-docker/kiwi/KiwiSazón
$ docker run --rm --name prueba --network=prueba --ip 172.16.12.75 --p 3000:3000 prueba
$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS          NAMES
c93132f99cf    prueba        "docker-entrypoint.s..." 4 minutes ago   Up 4 minutes   8.0.0.0:3000->3000/tcp, :::3000->3000/tcp   dreamy_engelbart
e5e4080a032    mysql:latest   "docker-entrypoint.s..." 47 minutes ago   Up 47 minutes   3306/tcp, 33060/tcp   mysql-practica
$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
prueba        latest   9a21b12549cb   5 minutes ago   1.07GB
<none>        <none>   <none>         9 minutes ago   1.04GB
<none>        <none>   07611556724   11 minutes ago   1.04GB
<none>        <none>   86dad30ae73c   2 days ago       1.09GB
<none>        <none>   3733610a70da   2 days ago       1.02GB
<none>        <none>   c2fa03e5e4e5   2 days ago       1.02GB
<none>        <none>   17449eb02f38   2 days ago       1.02GB
<none>        <none>   781774da0a77   2 days ago       1.02GB
<none>        <none>   420881ac09a4   2 days ago       1.36GB
test         latest   3e0801b0481e   2 days ago       143MB
<none>        <none>   3721991933da   2 days ago       1.36GB
<none>        <none>   f4f253f4ea1d   2 days ago       1.02GB
node        10.16.1  d6dc4cf0bec    5 days ago       1.09GB
mysql       latest   91b33e262404   10 days ago       560MB
ejemplo-express 1.0     0b783fa3ec4c   2 weeks ago       1.02GB
express-node  1.0     0b783fa3ec4c   2 weeks ago       1.02GB
review       1.2     3041b7424dab   2 weeks ago       143MB
<none>        <none>   20a251929c5f   2 weeks ago       1.36GB
<none>        <none>   b7faab09f22d   2 weeks ago       1.33GB
<none>        <none>   05db319551df   2 weeks ago       1.33GB
node        latest   543b05080000   2 weeks ago       1GB
nginx        latest   f9c14fe76d50   4 weeks ago       143MB
quicksstart_web latest   4a012e18ec08   10 months ago     959MB
conosendajango_web latest   6a141b1f108    10 months ago     959MB
python       3       e35e773abb0c   10 months ago     921MB
postgres     latest   a09e9014e405   10 months ago     370MB
python-docker-web latest   db20a9a07b20   11 months ago     240MB
python-docker-dev latest   db70d692304    11 months ago     240MB
python       3.8-slim-buster 30a36e04959    11 months ago     117MB
mysql        <none>   8234082ee053   11 months ago     444MB
```

The terminal window also shows the output of the `docker run` command, which successfully starts the `prueba` container. The output of the `docker ps` command shows the container is running with the `prueba` image. The output of the `docker images` command shows the list of images on the system.

The web browser window shows the KiwiSazón website, which is a recipe website. The website has a header with the name "KiwiSazón" and a navigation menu. The main content area shows a recipe for "Recetas Chef" with a list of ingredients and a photo of the dish. The footer of the website contains the text "KiwiSazón".

7. Crear un documento en formato PDF donde se agreguen las imágenes evidencias de pasos anteriores practica04_[nombre completo].pdf
8. Depositar archivo en carpeta practica04 en repositorio [GitHub](#).