EJERCICIO 7

```
os
PS C:\Users\palonso\Desktop\Workspace_VSC\KUBERNETESSEMANALES\kubernetes-exercices-PilarAlonsoSTEMDO\soluciones\ejercicio7\deploy-servicios>d
ocker build -t pilar/web .
[+] Building 19.6s (5/9)                                                                                    docker:default
 => [internal] load build definition from Dockerfile                                                                 0.2s
 => => transferring dockerfile: 540B                                                                                 0.1s
 => [internal] load metadata for docker.io/library/ubuntu:latest                                                     4.8s
 => [auth] library/ubuntu:pull token for registry-1.docker.io                                                        0.0s
 => [internal] load .dockerignore                                                                                    0.0s
 => => transferring context: 2B                                                                                      0.0s
 => [internal] load build context                                                                                    3.0s
 => => transferring context: 9.49MB                                                                                  2.9s
 => [1/4] FROM docker.io/library/ubuntu:latest@sha256:3f85b7caad41a95462cf5b787d8a04604c8262cdcdf9a472b8c52ef83375fe15  14.5s
 => => resolve docker.io/library/ubuntu:latest@sha256:3f85b7caad41a95462cf5b787d8a04604c8262cdcdf9a472b8c52ef83375fe15  0.0s
 => => sha256:3f85b7caad41a95462cf5b787d8a04604c8262cdcdf9a472b8c52ef83375fe15 1.13kB / 1.13kB                       0.0s
 => => sha256:d21429c4635332e96a4baae3169e3f02ac8e24e6ae3d89a86002d49a1259a4f7 424B / 424B                           0.0s
 => => sha256:bf3dc08bfed031182827888bb15977e316ad797ee2ccb63b4c7a57fdfe7eb31d 2.30kB / 2.30kB                       0.0s
 => => sha256:49b384cc7b4aa0dfd16ff7817ad0ea04f1d0a8072e62114efcd99119f8ceb9ed 28.31MB / 28.87MB                     14.5s
nikube   default   Git Graph                                                    Ln 14, Col 1   Spaces: 4   UTF-8   CRL
```

```
=> [1/4] FROM docker.io/library/ubuntu:latest@sha256:3f85b7caad41a95462cf5b787d8a04604c8262cdcdf9a4
=> => resolve docker.io/library/ubuntu:latest@sha256:3f85b7caad41a95462cf5b787d8a04604c8262cdcdf9a4
=> => sha256:3f85b7caad41a95462cf5b787d8a04604c8262cdcdf9a472b8c52ef83375fe15 1.13kB / 1.13kB
=> => sha256:d21429c4635332e96a4baae3169e3f02ac8e24e6ae3d89a86002d49a1259a4f7 424B / 424B
=> => sha256:bf3dc08bfed031182827888bb15977e316ad797ee2ccb63b4c7a57fdfe7eb31d 2.30kB / 2.30kB
=> => sha256:49b384cc7b4aa0dfd16ff7817ad0ea04f1d0a8072e62114efcd99119f8ceb9ed 28.87MB / 28.87MB
=> => extracting sha256:49b384cc7b4aa0dfd16ff7817ad0ea04f1d0a8072e62114efcd99119f8ceb9ed
=> [2/4] RUN apt-get update
=> [3/4] RUN apt-get install -y apache2
=> [4/4] ADD web /var/www/html
=> exporting to image
=> => exporting layers
=> => writing image sha256:2360f5e31429a2e2fda1ce033fa8c75c69894bc27959518ce44ac64043716328
=> => naming to docker.io/pilar/web

iew build details: docker-desktop://dashboard/build/default/default/bcfq0jre98ukluevfyf9np3zj

hat's Next?
 View a summary of image vulnerabilities and recommendations → docker scout quickview
S C:\Users\palonso\Desktop\Workspace_VSC\KUBERNETESSEMANALES\kubernetes-exercices-PilarAlonsoSTEMDO
```

Hago docker build después de crear el dockerfile para construir la imagen con lo que se encuentra en el directorio actual(nuestro docker file)

Docker image ls para ver que se ha creado correctamente

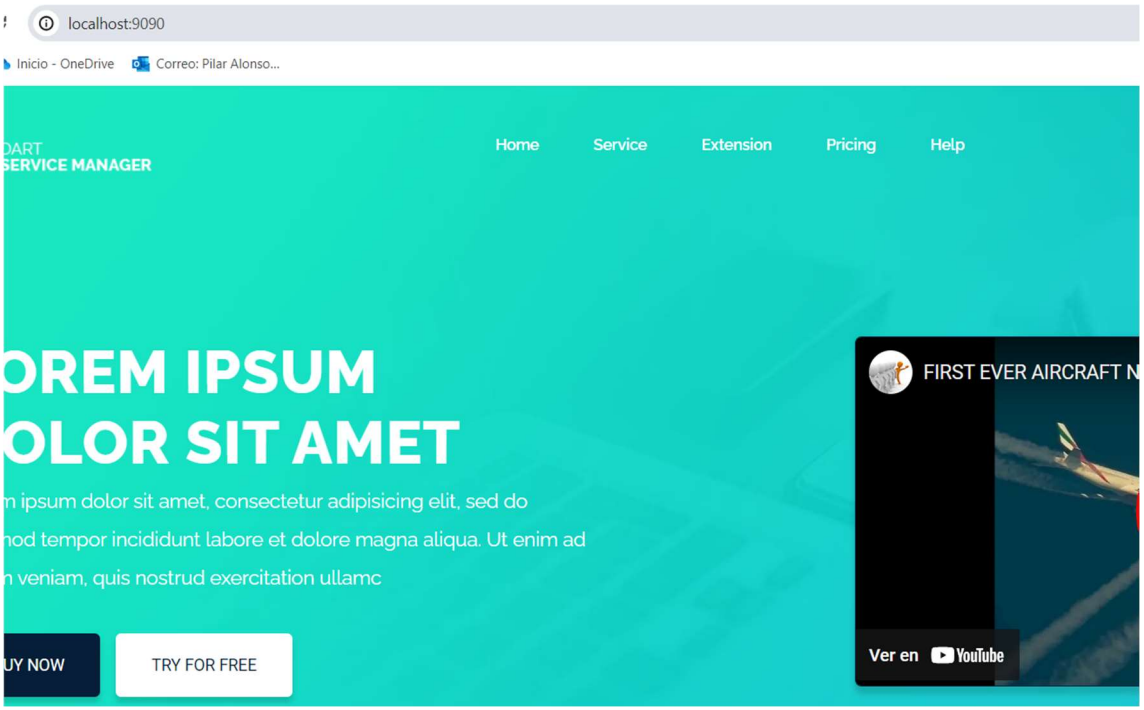
```
ocker image ls
REPOSITORY                                    TAG          IMAGE ID       CREATED          SIZE
pilar/web                                     latest       2360f5e31429   3 minutes ago    230MB
```

Pruebo a a ejecutarlo en docker

Docker run –name=web1 –d –p 9090:80 pilar/web y genero la imagen

```
Create and run a new container from an image
PS C:\Users\palonso\Desktop\Workspace_VSC\KUBERNETESSEMANALES\kubernetes-exercices-PilarAlonsoSTEMDO\soluciones\ejercicio7\deploy-servicios>docker run --name
=web1 -d -p 9090:80 pilar/web
```

Y ahora desde el navegador:



Aplico el yaml para crear el deployment y el servicio

```
PS C:\Users\palonso\Desktop\Workspace_VSC\KUBERNETESSEMANALES\kubernetes-exercices-PilarAlonsoSTEMDO\soluciones\ejercicio7\deploy-servicios> kubectl apply -f
  completo.yaml
deployment.apps/web-d created
service/web-svc created
```

```
service/web-svc created
PS C:\Users\palonso\Desktop\Workspace_VSC\KUBERNETESSEMANALES\kubernetes-exercices-PilarAlonsoSTEMDO\soluciones\ejercicio7\deploy-servicios> kubectl get pod

NAME                          READY   STATUS    RESTARTS   AGE
demogat-yaml-68fc658f68-9xnjq   1/1     Running   0          22h
web-d-fcfd454f8-kgdp8           1/1     Running   0          2m16s
web-d-fcfd454f8-pw7hh           1/1     Running   0          2m17s
```

Y aquí vemos el servicio creado

```
PS C:\Users\palonso\Desktop\Workspace_VSC\KUBERNETESSEMANALES\kubernetes-exercices-PilarAlonsoSTEMDO\soluciones\ejercicio7\deploy-servicios> kubectl get svc
NAME         TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)        AGE
kubernetes   ClusterIP   10.96.0.1       <none>        443/TCP        25h
web-svc      NodePort    10.107.31.92    <none>        80:30002/TCP   3m9s
PS C:\Users\palonso\Desktop\Workspace_VSC\KUBERNETESSEMANALES\kubernetes-exercices-PilarAlonsoSTEMDO\soluciones\ejercicio7\deploy-servicios>
```