Universidad de Manizales

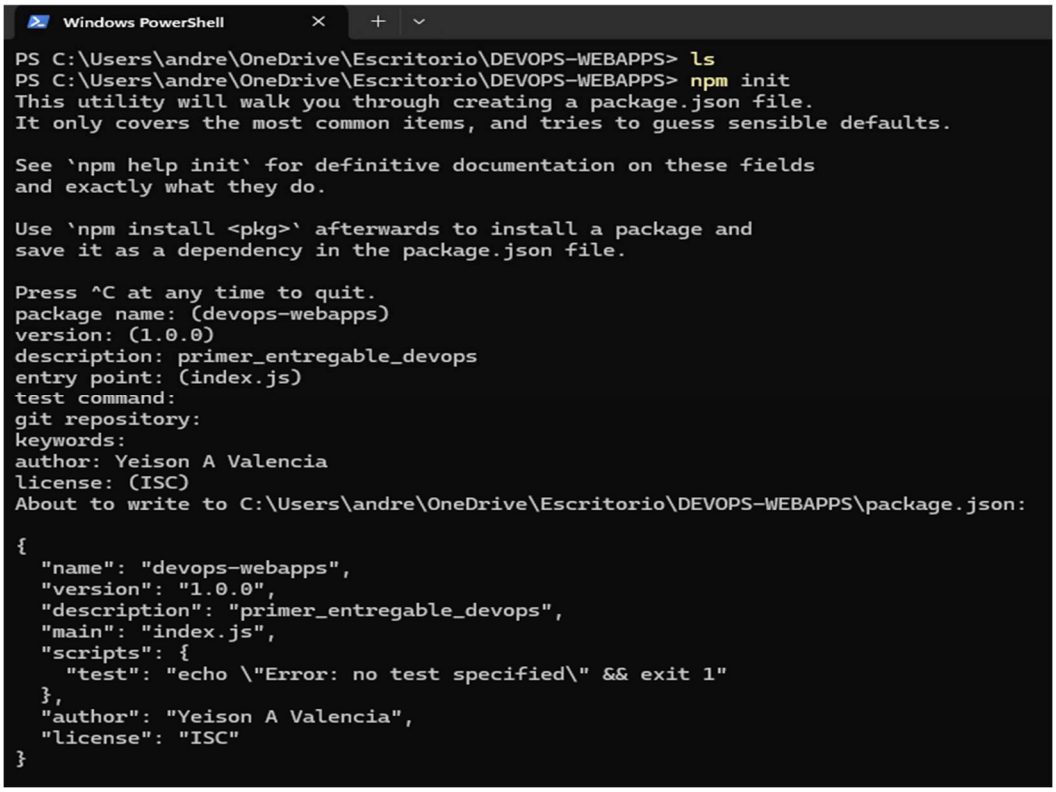
Facultad de ciencias e ingeniería

DEVOPS-WEBAPPS

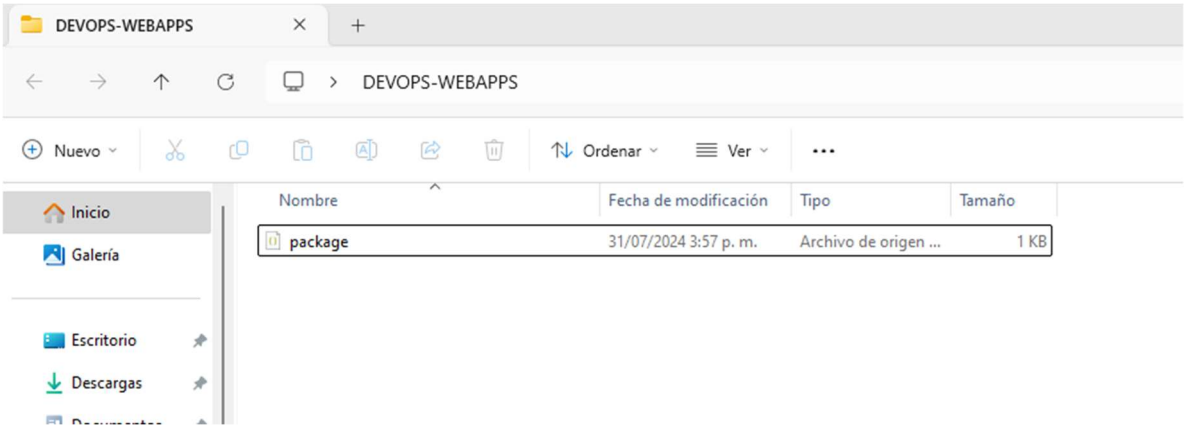
Actividad colaborativa. Etapa 1 creación de contenedor utilizando Docker

Presentado por:

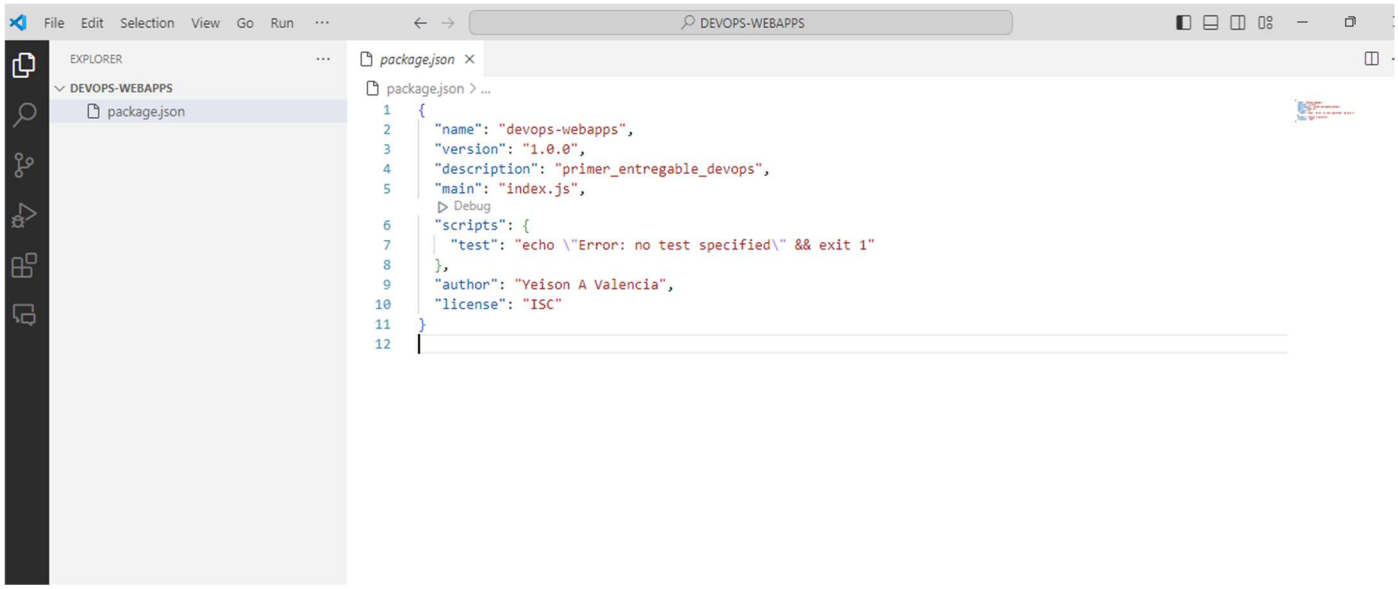
Yeison Andres Valencia Vargas



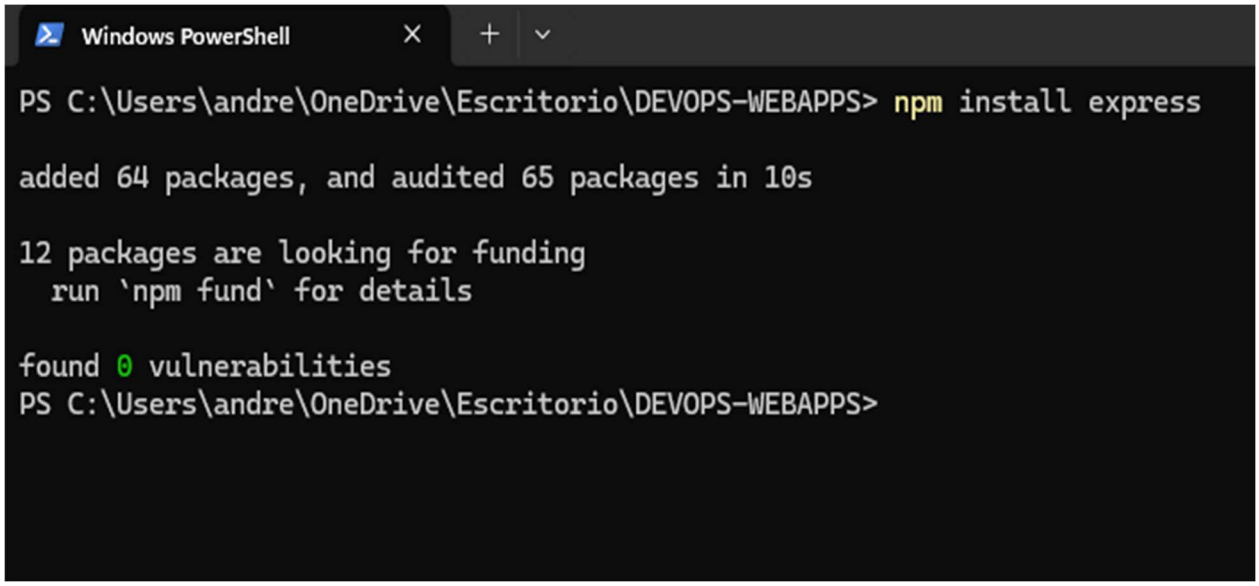
Se inicia con la creación del proyecto, con 'npm init', después nos arroja unas preguntas que dependiendo de la situación respondemos o añadimos, por último, de crea un archivo.



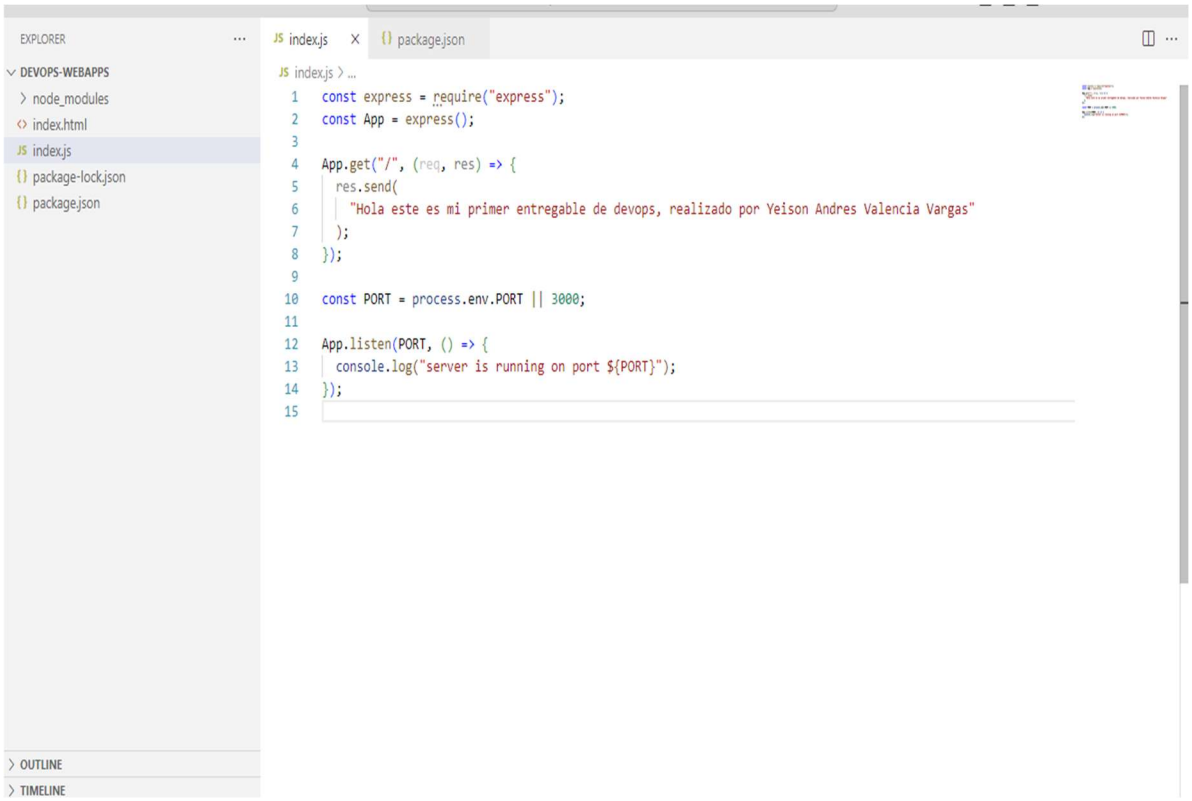
Aquí se evidencia el paquete instalado.



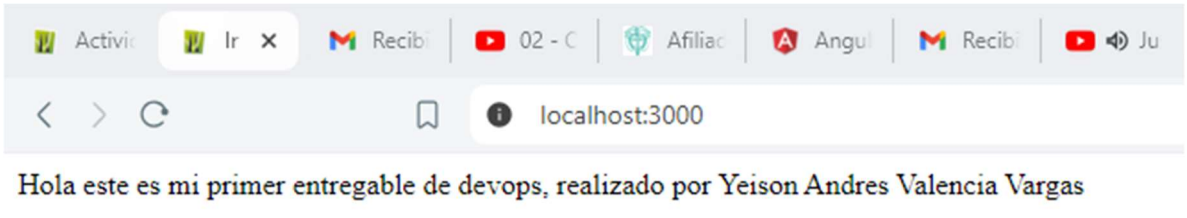
Si visualizamos en el editor de código, para este ejemplo Visual Studio Code sale el archivo que creamos en la terminal con “npm init”.



Se instala el express, y aquí se evidencia que quedo instalado.

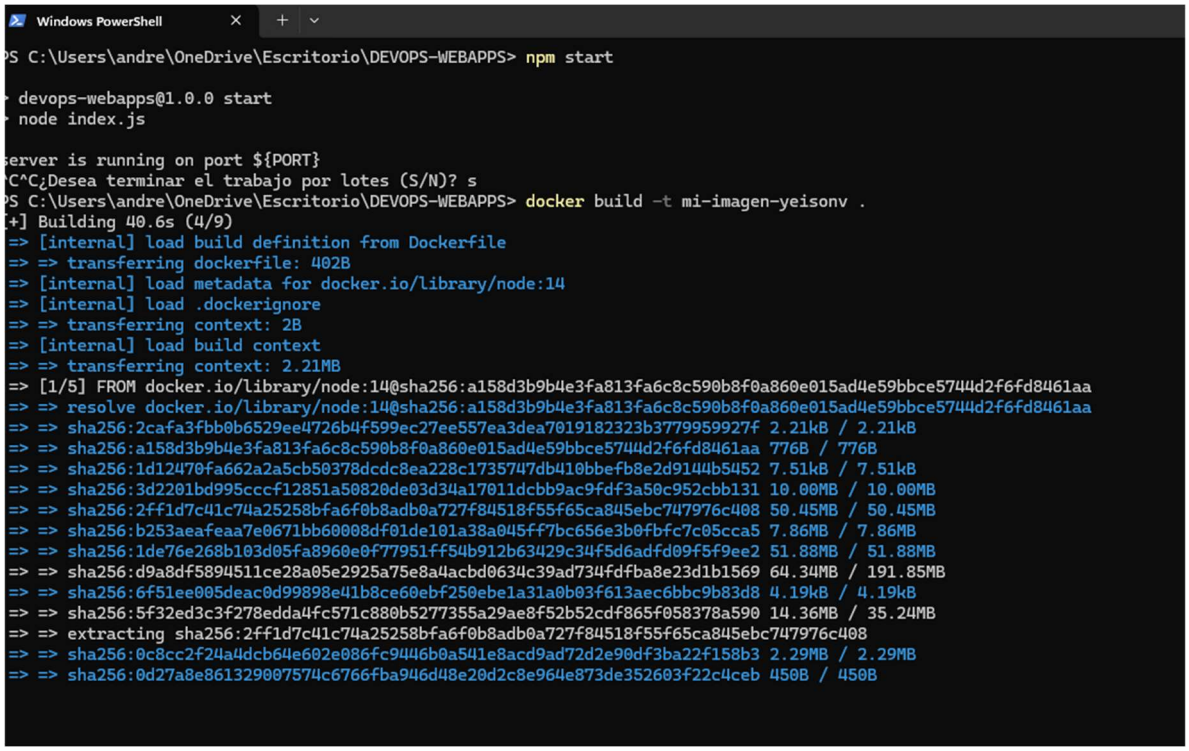


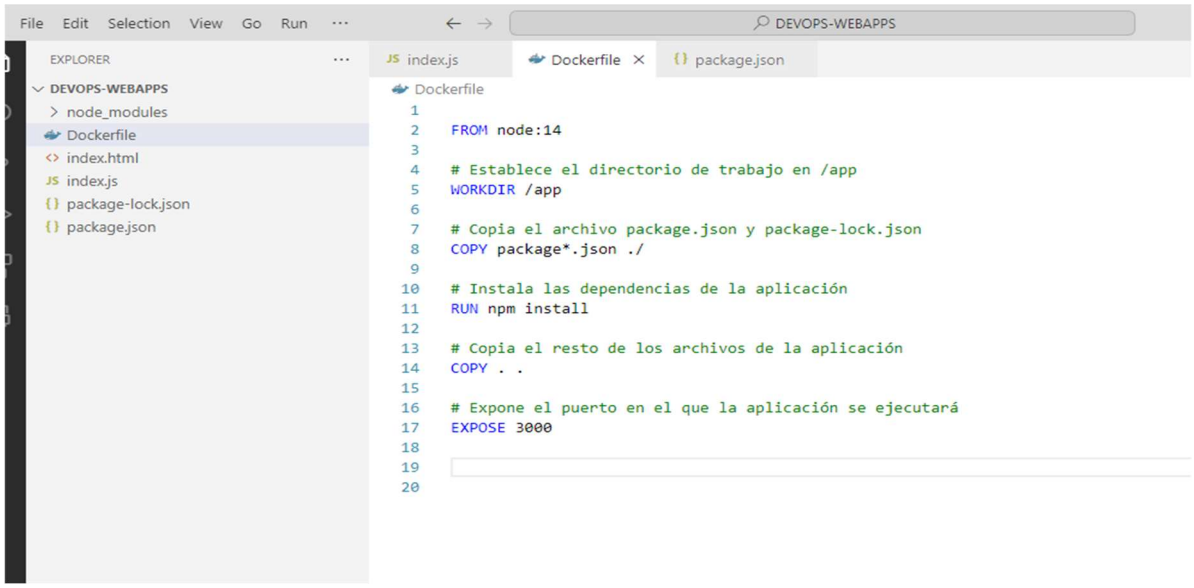
Se hace la creación de la App, con el index.js.

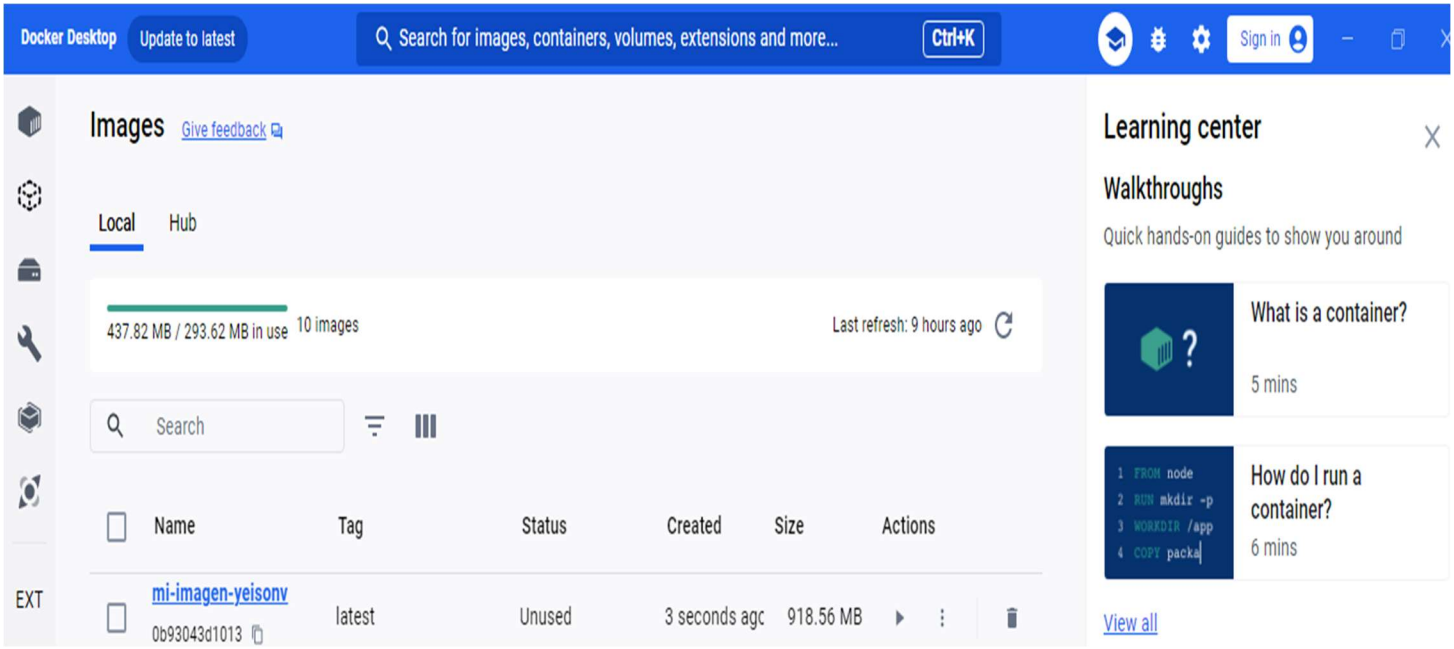


Se corre el programa con el npm start y este es el resultado.

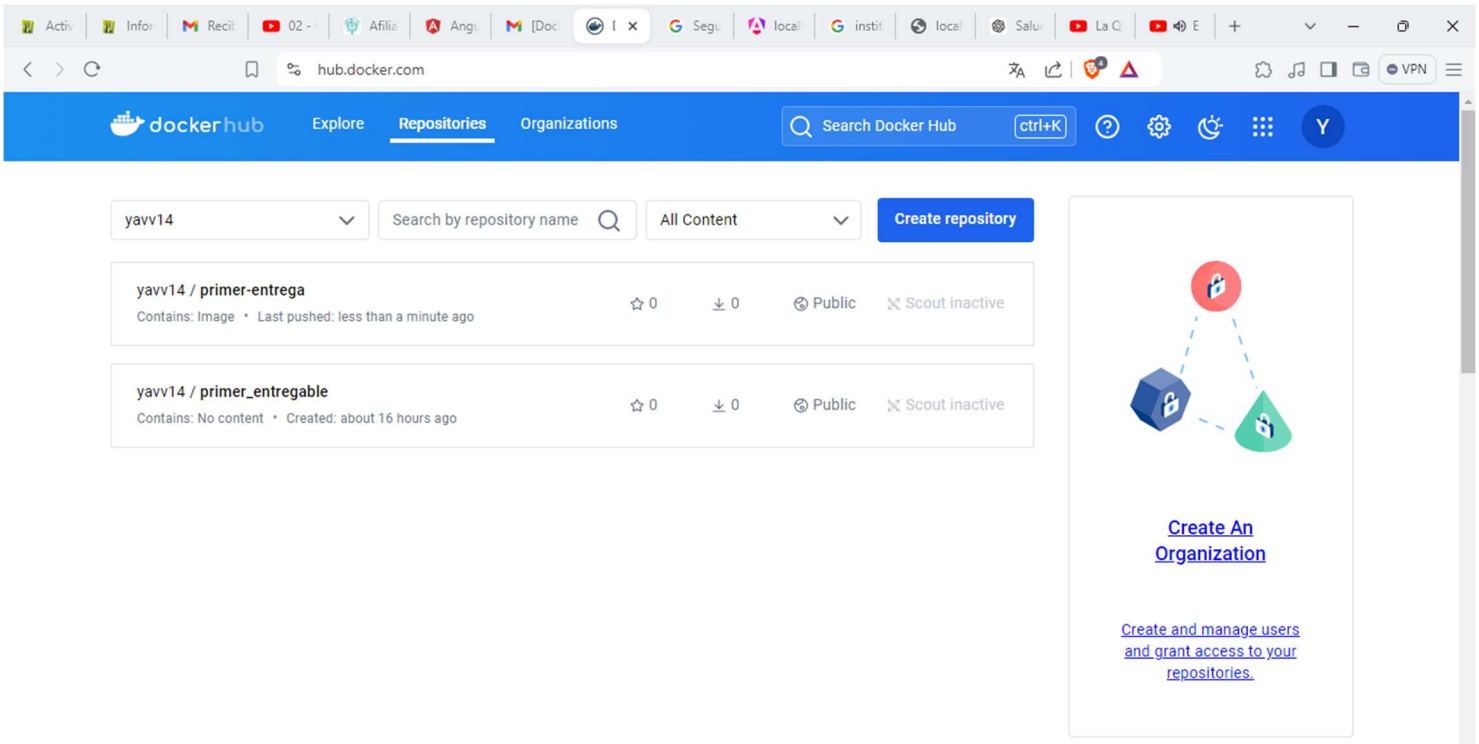
Creación de Dockerfile








```
Windows PowerShell
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> docker image ls
REPOSITORY                                TAG                                                                IMAGE ID       CREATED
  SIZE
mi-imagen-yeisonv                         latest                                                             0b93043d1013   5 minutes ago
  919MB
docker/desktop-kubernetes                 kubernetes-v1.29.1-cni-v1.4.0-critools-v1.29.0-cri-dockerd-v0.3.8-1-debian   ace10e261811   6 months ago
  438MB
registry.k8s.io/kube-apiserver            v1.29.1                                                            53b148a9d196   6 months ago
  127MB
registry.k8s.io/kube-scheduler            v1.29.1                                                            406945b51154   6 months ago
  59.5MB
registry.k8s.io/kube-controller-manager   v1.29.1                                                            79d451ca186a   6 months ago
  122MB
registry.k8s.io/kube-proxy                v1.29.1                                                            43c6c10396b8   6 months ago
  82.3MB
portainer/portainer-docker-extension      2.19.4                                                             1a0fb356ea35   7 months ago
  294MB
registry.k8s.io/etcd                      3.5.10-0                                                           a0eed15eed44   9 months ago
  148MB
registry.k8s.io/coredns/coredns           v1.11.1                                                            cbb01a7bd410   11 months ago
  59.8MB
registry.k8s.io/pause                     3.9                                                                e6f181688397   21 months ago
  744kB
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> docker image ls mi-imagen-yeisonv
REPOSITORY          TAG       IMAGE ID       CREATED         SIZE
mi-imagen-yeisonv   latest    0b93043d1013   6 minutes ago   919MB
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS>
```

Creación de repositorio en DOCKERHUD.

```
Windows PowerShell
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Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://ak

PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> docker login
Authenticating with existing credentials...
Login Succeeded
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> docker tag mi-imagen-yeisonv yavv14/primer-entreg
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> docker push yavv14/primer-entrega
Using default tag: latest
The push refers to repository [docker.io/yavv14/primer-entrega]
ff8ef3fe1dd3: Pushed
03a5cba929e9: Pushed
3532ebbbaab7: Pushed
b366e9ff18e1: Pushed
0d5f5a015e5d: Mounted from library/node
3c777d951de2: Mounted from library/node
f8a91dd5fc84: Mounted from library/node
cb81227abde5: Mounted from library/node
e01a454893a9: Mounted from library/node
c45660adde37: Mounted from library/node
fe0fb3ab4a0f: Mounted from library/node
f1186e5061f2: Mounted from library/node
b2dba7477754: Mounted from library/node
latest: digest: sha256:943a9bc5c1ac7b289f5018ed3487c554b73a758a0cd3df3bd1cfc8bf45eac863 size: 3050
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS>
```