## 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

```
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> ls
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

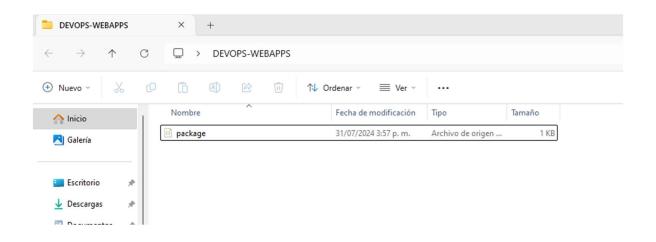
See 'npm help init' for definitive documentation on these fields
and exactly what they do.

Use 'npm install <pkg>' afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (devops-webapps)
version: (1.0.0)
description: primer_entregable_devops
entry point: (index.js)
test command:
git repository:
keywords:
author: Yeison A Valencia
license: (ISC)
About to write to C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS\package.json:

{
    "name": "devops-webapps",
    "version": "l.0.0",
    "description": "primer_entregable_devops",
    "main": "andex.js",
    "scripts": {
        "test": "echo \"Error: no test specified\" && exit 1"
    },
    "author": "Yeison A Valencia",
    "license": "ISC"
}
```

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.

```
	imes File Edit Selection View Go Run \cdots \longleftrightarrow
                                                                                    DEVOPS-WEBAPPS
                                                                                                                                                 □ .
      EXPLORER ... 🖰 package.json X
0
      V DEVOPS-WEBAPPS
                                            package.json > ...
       🖰 package.json
                                                                                                                                                                 The same of
                                                    "name": "devops-webapps",
"version": "1.0.0",
"description": "primer_entregable_devops",
                                                  "main": "index.js",
                                                     "scripts": {
                                                       "test": "echo \"Error: no test specified\" && exit 1"
                                                     "author": "Yeison A Valencia",
                                                    "license": "ISC"
                                             10
                                             11
```

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

```
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> npm install express
added 64 packages, and audited 65 packages in 10s

12 packages are looking for funding
   run 'npm fund' for details

found 0 vulnerabilities
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS>
```

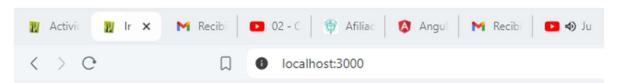
Se instala el express, y aquí se evidencia que quedo instalado.

```
□ …
  EXPLORER
                                ··· JS index.js X {} package.json
                                       JS index.js > ...

∨ DEVOPS-WEBAPPS

                                            const express = require("express");
 > node_modules
                                           const App = express();
 o index.html
 JS index.js
                                             App.get("/", (req, res) => {
 () package-lock.json
 {} package.json
                                                "Hola este es mi primer entregable de devops, realizado por Yeison Andres Valencia Vargas"
                                              );
                                            });
                                       10 const PORT = process.env.PORT | 3000;
                                       12 App.listen(PORT, () => {
                                       13
                                              console.log("server is running on port ${PORT}");
                                       14
                                             });
                                       15
> OUTLINE
> TIMELINE
```

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

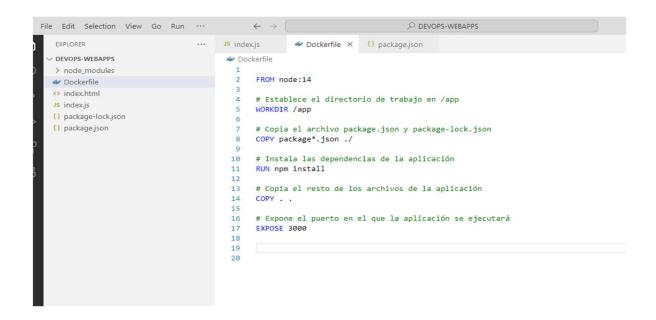


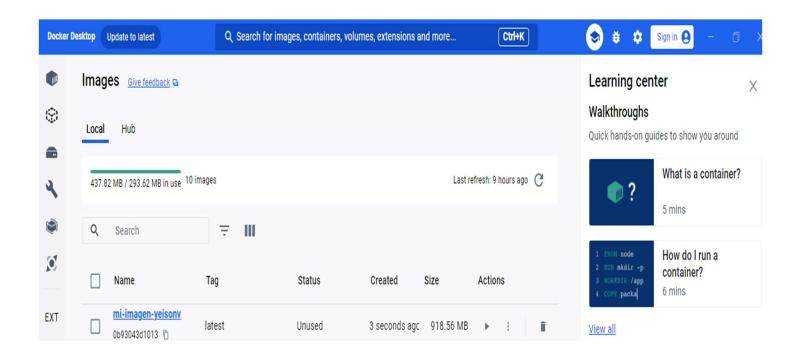
Hola este es mi primer entregable de devops, realizado por Yeison Andres Valencia Vargas

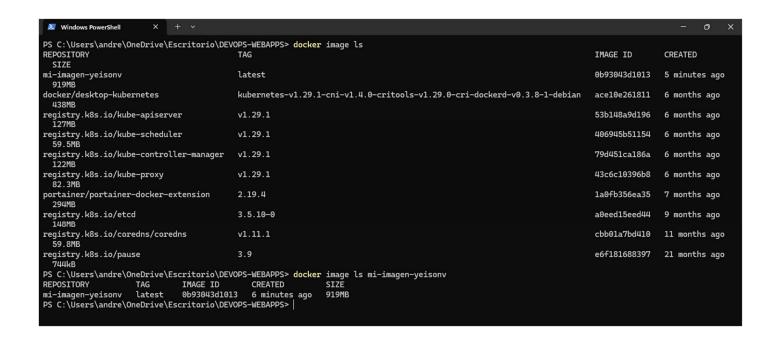
Se corre el programa con el npm start y este es el resultado.

## Creación de Dockerfile

```
Windows PowerShell
S C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> npm start
  devops-webapps@1.0.0 start
  node index.js
erver is running on port ${PORT}
'C^C¿Desea terminar el trabajo por lotes (S/N)? s
'S C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> docker build -t mi-imagen-yeisonv .
+] Building 40.6s (4/9)
 >> [internal] load build definition from Dockerfile
    => transferring dockerfile: 402B
    [internal] load metadata for docker.io/library/node:14
[internal] load .dockerignore
 => => transferring context: 2B
=> [internal] load build context
     => transferring context: 2.21MB
 => [1/5] FROM docker.io/library/node:14@sha256:a158d3b9b4e3fa813fa6c8c590b8f0a860e015ad4e59bbce5744d2f6fd8461aa
 => resolve docker.io/library/node:14@sha256:a158d3b9b4e3fa813fa6c8c590b8f0a860e015ad4e59bbce5744d2f6fd8461aa
=> => sha256:2cafa3fbb0b6529ee4726b4f599ec27ee557ea3dea7019182323b3779959927f 2.21kB / 2.21kB
=> => sha256:a158d3b9b4e3fa813fa6c8c590b8f0a860e015ad4e59bbce5744d2f6fd8461aa 776B / 776B
 >> => sha256:1d12470fa662a2a5cb50378dcdc8ea228c1735747db410bbefb8e2d9144b5452 7.51kB / 7.51kB
 => => sha256:3d2201bd995cccf12851a50820de03d34a17011dcbb9ac9fdf3a50c952cbb131 10.00MB / 10.00MB
=> => sha256:2ff1d7c41c74a25258bfa6f0b8adb0a727f84518f55f65ca845ebc747976c408 50.45MB / 50.45MB
 => => sha256:b253aeafeaa7e0671bb60008df01de101a38a045ff7bc556e3b0fbfc7c05cca5 7.86MB / 7.86MB
=> => sha256:1de76e268b103d05fa8960e0f77951ff54b912b63429c34f5d6adfd09f5f9ee2 51.88MB / 51.88MB
=> => sha256:d9a8df5894511ce28a05e2925a75e8a4acbd0634c39ad734fdfba8e23d1b1569 64.34MB / 191.85MB
=> => sha256:6f51ee005deac0d99898e41b8ce60ebf250ebe1a31a0b03f613aec6bbc9b83d8 4.19kB / 4.19kB
=> => sha256:5f32ed3c3f278edda4fc571c880b5277355a29ae8f52b52cdf865f058378a590 14.36MB / 35.24MB
=> => extracting sha256:2ff1d7c41c74a25258bfa6f0b8adb0a727f84518f55f65ca845ebc747976c408
 => => sha256:0c8cc2f24a4dcb64e602e086fc9446b0a541e8acd9ad72d2e90df3ba22f158b3 2.29MB / 2.29MB
 => => sha256:0d27a8e861329007574c6766fba946d48e20d2c8e964e873de352603f22c4ceb 450B / 450B
```







## Creación de repositorio en DOCKERHUD.

```
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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
fl186e5061f2: Mounted from library/node
b2dba7477754: Mounted from library/node
latest: digest: sha256:943a9bc5c1ac7b289f5018ed3487c554b73a758a0cd3df3bd1cfc8bf45eac863 size: 3050
PS C:\Users\andre\OneDrive\Escritorio\DEVOPS-WEBAPPS> |
```

