

1) Subir correctamente el proyecto a GITHUB, incluyendo los archivos Dockerfile y .dockerignore. Adjunta el enlace.

- Crear un repositorio den gtihub en modo publico
https://github.com/CabelloKelsy/mf0493_KelsyCabello_av_final
- Luego abrir en visualstudio y usar el comando git init para inicializar el proyecto
- Debido a que tengo configurado 2 usuarios en .ssh/config uso el siguiente comando
git remote add origin [git@qithub.com-personal:CabelloKelsy/mf0493_KelsyCabello_av_final.git](https://github.com/CabelloKelsy/mf0493_KelsyCabello_av_final)
- El comando git add . para cargar los archivos

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ git init
Initialized empty Git repository in C:/Users/kelsy/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final/.git/

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ git remote add origin git@github.com-personal:CabelloKelsy/mf0493_KelsyCabello_av_final.git

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ git add .
warning: in the working copy of 'package-lock.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'public/favicon.svg', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'public/index.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'public/script.js', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'public/styles.css', LF will be replaced by CRLF the next time Git touches it

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ git add .
```

- El commando git status para ver el estado de los archivos y sale en color verde porque se cargaron correctamente.

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   .dockerignore
    new file:   .gitignore
    new file:   Enunciado de la prueba.txt
    new file:   dockerfile
    new file:   package-lock.json
    new file:   package.json
    new file:   public/favicon.ico
    new file:   public/favicon.svg
    new file:   public/index.html
    new file:   public/script.js
    new file:   public/styles.css
    new file:   src/.dockerignore
    new file:   src/Dockerfile
    new file:   src/index.js
```

- Comando git commit -m "exame final"

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ git commit -m "examen final"
[master (root-commit) 798b02f] examen final
14 files changed, 1572 insertions(+)
create mode 100644 .dockerignore
create mode 100644 .gitignore
create mode 100644 Enunciado de la prueba.txt
create mode 100644 dockerfile
create mode 100644 package-lock.json
create mode 100644 .dockerignore
create mode 100644 .gitignore
create mode 100644 Enunciado de la prueba.txt
create mode 100644 dockerfile
create mode 100644 package-lock.json
create mode 100644 Enunciado de la prueba.txt
create mode 100644 dockerfile
create mode 100644 package-lock.json
create mode 100644 Enunciado de la prueba.txt
create mode 100644 dockerfile
create mode 100644 package-lock.json
create mode 100644 package.json
create mode 100644 dockerfile
create mode 100644 package-lock.json
create mode 100644 package.json
create mode 100644 package.json
create mode 100644 public/favicon.ico
create mode 100644 public/favicon.svg
create mode 100644 public/index.html
create mode 100644 public/script.js
create mode 100644 public/styles.css
```

No te olvides de incluir las capturas de pantalla de cada paso. Han de ser suficientes para poder reproducir todo lo necesario hasta llegar al resultado final.

- Git push para publicar en el repositorio publico de github

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ git push origin master
Enumerating objects: 21, done.
Counting objects: 100% (21/21), done.
Delta compression using up to 8 threads
Compressing objects: 100% (19/19), done.
Writing objects: 100% (21/21), 13.74 KiB | 827.00 KiB/s, done.
Total 21 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), done.
To github.com:personal:CabelloKelsy/mf0493_KelsyCabello_av_final.git
 * [new branch]      master -> master

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$
```

- Se visualiza los cambios

The screenshot shows a GitHub repository page for 'mf0493_KelsyCabello_av_final'. The repository is public and has 1 branch and 0 tags. The main branch is 'master'. The repository contains several files and folders, including 'public', 'src', '.dockerignore', '.gitignore', 'Enunciado de la prueba.txt', 'dockerfile', 'package-lock.json', and 'package.json'. The files are listed with their commit hashes, commit times, and commit counts.

2) Crear una imagen del proyecto con Docker

- Abrir el Docker desktop en el ordenador y luego crear la imagen con el comando Docker build -t examen-final

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ docker build -t examen-final .
[+] Building 17.9s (11/11) FINISHED
=> [internal] load build definition from dockerfile
=> transferring dockerfile: 1.04kB
=> [internal] load metadata for docker.io/library/node:23
=> [auth] library/node:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> transferring context: 95B
=> [1/5] FROM docker.io/library/node:23@sha256:c65ab339c494443a7d2ed36140674bc8815f7100b0d4cebf0144ce35267a693
=> resolve docker.io/library/node:23@sha256:c65ab339c494443a7d2ed36140674bc8815f7100b0d4cebf0144ce35267a693
=> sha256:435e4e2e530face6bd0eea257cbe28658b3432e3f30b7e4280efbf92aed7da45 450B / 450B
=> sha256:fa1102cc9b76a513feb41f123d8d6af08c017dc3ca7130843cb6006374f40d77 1.25MB / 1.25MB
=> sha256:6e12fbeb04074149dc1c9b032e4b68df427d5df6e2b36741bf74a8df126f74da9 56.46MB / 56.46MB
=> sha256:7fd33ac6c8c54d3b7262b5b7084aca9427db5ac54700cd5112a941a6794f8cc 3.33kB / 3.33kB
=> extracting sha256:7fd33ac6c8c54d3b7262b5b7084aca9427db5ac54700cd5112a941a6794f8cc
=> extracting sha256:6e12fbeb04074149dc1c9b032e4b68df427d5df6e2b36741bf74a8df126f74da9
=> extracting sha256:fa1102cc9b76a513feb41f123d8d6af08c017dc3ca7130843cb6006374f40d77
=> extracting sha256:435e4e2e530face6bd0eea257cbe28658b3432e3f30b7e4280efbf92aed7da45
=> [internal] load build context
=> transferring context: 122.33kB
=> [2/5] WORKDIR /app
=> [3/5] COPY package*.json ./
=> [4/5] RUN npm install --npm cache clean --force --rm -rf /tmp/* /root/.npm/_cacache
=> [5/5] COPY . .
=> exporting to image
=> exporting layers
=> exporting manifest sha256:7f3eb19a9d383c258b3686848600cf8441857e0eb1a89b027a43a129899d940
=> exporting config sha256:fa8e7c01a3e3cab57ee1e357b679a2c97778ee6c1c192105661a9a74c76302
=> exporting attestation manifest sha256:e22361286739d4842279564d6f65a7b4da7a4695b1f11b5cc1fafacac056ff2
=> exporting manifest list sha256:a3b6534a668d5d0b0227f539829783e11f1364e8dd86584b57f60e53dd2d580
=> naming to docker.io/library/examen-final:latest
=> unpacking to docker.io/library/examen-final:latest

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/1kunawpow33vg0z3fpeg8x7dv

What's next:
View a summary of image vulnerabilities and recommendations -> docker scout quickview

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$
```

No te olvides de incluir las capturas de pantalla de cada paso. Han de ser suficientes para poder reproducir todo lo necesario hasta llegar al resultado final.

- Ver las imágenes que existen

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
examen-final        latest      a3b6d34a468d  About a minute ago  1.62GB
kelsycabello/agencia_viajes  v3         4f6ee0fb5cec  26 hours ago    335MB
express-travels     v3         4f6ee0fb5cec  26 hours ago    335MB
kelsycabello/express-travels latest      db90343a660a  46 hours ago    335MB
express-travels     latest      db90343a660a  46 hours ago    335MB
node-travels        latest      c17f683df23f  47 hours ago    1.62GB
cypress-test        latest      2e538a65c19a  5 weeks ago     7.7GB
docker/welcome-to-docker latest      eedaff45e3c7  12 months ago   29.5MB

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$
```

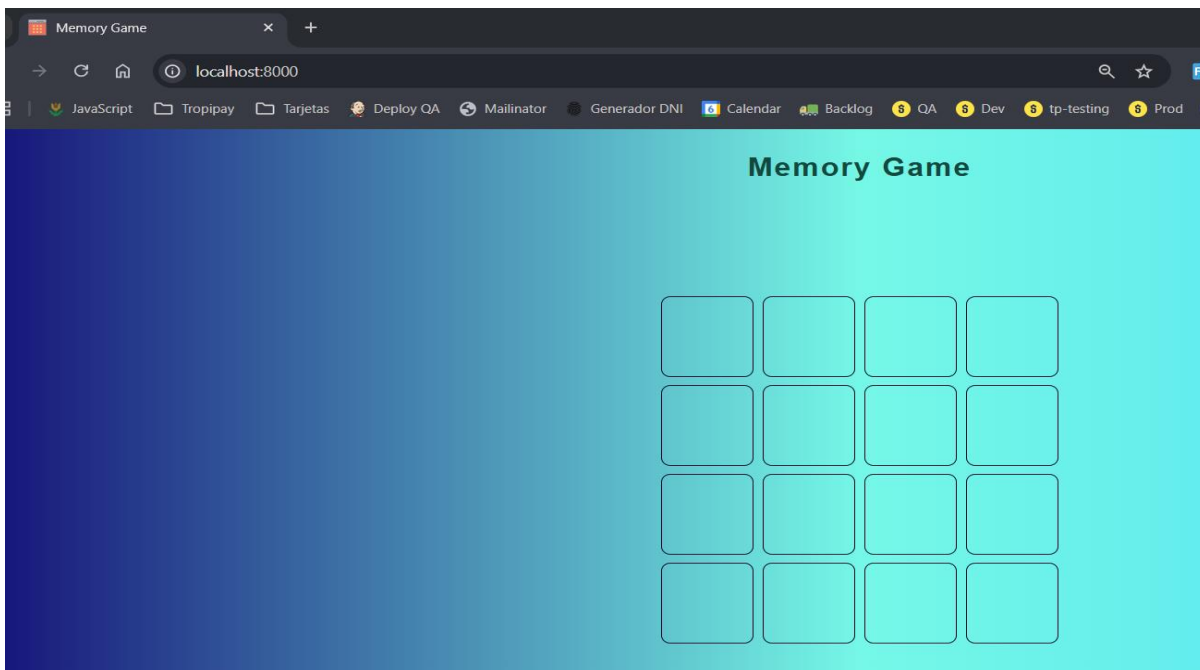
- Crear el contenedor en el puerto 8000:3000

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
$ docker run -it -p 8000:3000 examen-final

> exemple_node_docker@1.0.0 start
> node ./src/index.js

Servidor web arrancat a http://localhost:3000
GET / 200 8.080 ms - 514
GET /styles.css 200 3.365 ms - 1220
GET /script.js 200 2.918 ms - 3314
GET /favicon.svg 200 1.684 ms - 2917
```

- Abrir el proyecto desde localhost:8000



No te olvides de incluir las capturas de pantalla de cada paso. Han de ser suficientes para poder reproducir todo lo necesario hasta llegar al resultado final.

3) Subir correctamente el proyecto a DockerHub. Adjunta el enlace.

- Crear el repositorio en dockerhub en modo publico
<https://hub.docker.com/repository/docker/kelsycabello/examen-final/general>

Memory Game x Docker Hub Container Image L x +

hub.docker.com/repository/create?namespace=kelsycabello

JavaScript Tropipay Tarjetas Deploy QA Mailinator Generador DNI Calendar Backlog QA Dev tp-testing Prod Discord RunQATest PlanPruebas Forest Dev

dockerhub Explore Repositories Organizations Usage Search Docker Hub ctrl+K

Repositories / Create Using 0 of 1 private repositories.

Create repository

Namespace: kelsycabello Repository Name: examen-final

Short description: examen final del curso de desarrollo web

A short description to identify your repository. If the repository is public, this description is used to index your content on Docker Hub and in search engines, and is visible to users in search results.

Visibility

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

☒ Public Appears in Docker Hub search results

☐ Private Only visible to you

Cancel Create

Pushing images

You can push a new image to this repository using the CLI:

```
docker tag local-image:tagname new-repo:tagname
docker push new-repo:tagname
```

Make sure to replace tagname with your desired image repository tag.

hub.docker.com/repository/docker/kelsycabello/examen-final/general

JavaScript Tropipay Tarjetas Deploy QA Mailinator Generador DNI Calendar Backlog QA Dev tp-testing Prod Discord RunQATest PlanPruebas Forest Dev

dockerhub Explore Repositories Organizations Usage Search Docker Hub ctrl+K

kelsycabello / Repositories / examen-final / General Using 0 of 1 private repositories.

General

Tags Builds Collaborators Webhooks Settings

kelsycabello/examen-final

Created 1 minute ago

examen final del curso de desarrollo web

This repository does not have a category INCOMPLETE

Tags

This repository is empty. Push some images to it to see them appear here.

Docker commands

To push a new tag to this repository:

```
docker push kelsycabello/examen-final:tagname
```

Public View

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. [Read more about automated builds](#) .

Upgrade

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $ docker images
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
examen-final        latest      a3b6d34a468d  17 minutes ago 1.62GB
kelsycabello/agencia_viajes v3         4f6ee0fb5cec  26 hours ago  335MB
express-travels     v3         4f6ee0fb5cec  26 hours ago  335MB
kelsycabello/express-travels latest      db90343a660a  46 hours ago  335MB
express-travels     latest      db90343a660a  46 hours ago  335MB
node-travels        latest      c17f683df23f  47 hours ago  1.62GB
cypress-test        latest      2e538a65c19a  5 weeks ago   7.7GB
docker/welcome-to-docker latest      eedaff45e3c7  12 months ago 29.5MB

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $
```

- Hacer el login dockerhub

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $ docker login -u 'kelsycabello' -p 'Dockerkelsy'
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
Login Succeeded

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $
```

No te olvides de incluir las capturas de pantalla de cada paso. Han de ser suficientes para poder reproducir todo lo necesario hasta llegar al resultado final.

- Añadir etiqueta a la imagen creada con
\$ docker tag examen-final:latest kelsycabello/examen-final

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $ docker tag examen-final:latest kelsycabello/examen-final

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $ docker login -u 'kelsycabello' -p 'Dockerkelsy'
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
Login Succeeded

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $ docker images
REPOSITORY              TAG         IMAGE ID      CREATED       SIZE
kelsycabello/examen-final  latest      a3b6d34a468d  24 minutes ago  1.62GB
examen-final             latest      a3b6d34a468d  24 minutes ago  1.62GB
kelsycabello/agencia_viajes  v3          4f6ee0fb5cec  26 hours ago   335MB
express-travels           v3          4f6ee0fb5cec  26 hours ago   335MB
express-travels           latest      db90343a660a  46 hours ago   335MB
kelsycabello/express-travels latest      db90343a660a  46 hours ago   335MB
node-travels              latest      c17f683df23f  47 hours ago   1.62GB
cypress-test              latest      2e538a65c19a  5 weeks ago    7.7GB
docker/welcome-to-docker   latest      eedaff45e3c7  12 months ago  29.5MB
```

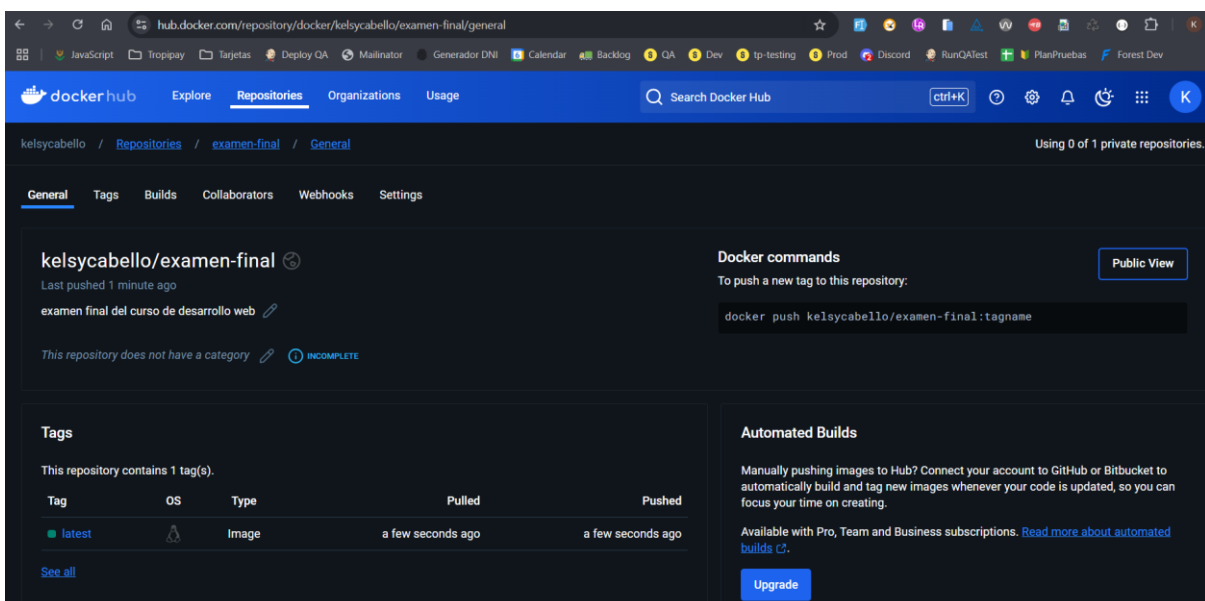
- Subir la imagen en el repositorio dockerhub

```
kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $ docker push kelsycabello/examen-final:latest
The push refers to repository [docker.io/kelsycabello/examen-final]
4125a1ef540e: Pushed
5d92517324dc: Pushed
90c6c6dbd58d: Pushed
7fd33ac6c8c5: Pushed
435e4e2e530f: Pushed
ba798b9aee1f: Pushed
6e12fbe04074: Pushed
204e535a1848: Pushed
c3cc7b6f0473: Pushed
af247aac0764: Pushed
2112e5e7c3ff: Pushed
b2b31b28ee3c: Pushed
fa1102cc9b76: Pushed
latest: digest: sha256:a3b6d34a468da5db0b227f539829783e11f1364e8dd86584b57f6b053dd2d580 size: 856

kelsy@Tropipay MINGW64 ~/OneDrive/Documentos/02 Programacion Web/ExamenFinal/MF0493_KelsyCabello/mf0493_KelsyCabello_av_final (master)
• $
```

- Enlace del proyecto en Docker hub

<https://hub.docker.com/repository/docker/kelsycabello/examen-final/general>



hub.docker.com/repository/docker/kelsycabello/examen-final/general

JavaScript Tropipay Tarjetas Deploy QA Mailinator Generador DNI Calendar Backlog QA Dev tp-testing Prod Discord RunQATest PlanPuebas Forest Dev

dockerhub Explore Repositories Organizations Usage Search Docker Hub ctrl+K

kelsycabello / Repositories / examen-final / General Using 0 of 1 private repositories.

General Tags Builds Collaborators Webhooks Settings

kelsycabello/examen-final 📄

Last pushed 1 minute ago

examen final del curso de desarrollo web 🔗

This repository does not have a category 🔗 INCOMPLETE

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest	linux	Image	a few seconds ago	a few seconds ago

[See all](#)

Docker commands Public View

To push a new tag to this repository:

```
docker push kelsycabello/examen-final:tagname
```

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. [Read more about automated builds](#) 📄.

[Upgrade](#)

No te olvides de incluir las capturas de pantalla de cada paso. Han de ser suficientes para poder reproducir todo lo necesario hasta llegar al resultado final.

4) Desplegar el proyecto en render.com. Adjunta el enlace.

- Hacer login en render y agregar el nombre de la imagen y url del repositorio dockerhub en el placeholder

Render Dashboard | Blueprints | Env Groups | + New | My Workspace

Source Code

Git Provider | Public Git Repository | Existing Image

Image URL
Deploy an image from a Docker registry
docker.io/kelsycabello/examen-final:latest

Credential (Optional)
No credential

Connect →

- Agregar el nombre de la pagina web, nombre con el cual se abre en el navegador

Name
A unique name for your web service.
kelsycabello:latest

Project Optional
Add this web service to a [project](#) once it's created.

Create a new project to add this to?
You don't have any projects in this workspace. [Projects](#) allow you to group resources into environments so you can better manage related resources.
+ Create a project

Region
Your services in the same [region](#) can communicate over a [private network](#). You currently have services running in Frankfurt.
Frankfurt (EU Central) 1 existing service
Deploy in a new region +

Instance Type

For hobby projects

Free
\$0 / month
512 MB (RAM)
0.1 CPU

Upgrade to enable more features
Free instances spin down after periods of inactivity. They do not support SSH access, scaling, one-off jobs, or persistent disks. Select any paid instance type to enable these features.

- Desplegamos el proyecto en render

Dashboard | Blueprints | Env Groups | + New | My Workspace

WEB SERVICE
kelsycabello:latest Image Free Upgrade your instance →

Connect Manual Deploy

kelsycabello/examen-final latest
https://kelsycabello-latest.onrender.com

Events
Logs
Disks
Environment
Shell
Previews
Jobs
Metrics
Scaling
Settings

Your free instance will spin down with inactivity, which can delay requests by 50 seconds or more. Upgrade now

November 20, 2024 at 11:53 AM In Progress
Deploy for 713eb19 latest
Cancel deploy

All logs Search Live tail GMT+1

Nov 20 11:53:11 AM => Starting service...
Nov 20 11:53:21 AM > example_node_dockera1.0.0 start
Nov 20 11:53:21 AM > node ./src/index.js
Nov 20 11:53:21 AM Servidor web arrancat a http://localhost:10000
Nov 20 11:53:23 AM HEAD / 200 3.341 ms - 514

No te olvides de incluir las capturas de pantalla de cada paso. Han de ser suficientes para poder reproducir todo lo necesario hasta llegar al resultado final.

- Ver si funciona correctamente

<https://kelsycabello-latest.onrender.com>

