

2)

Activities Firefox Web Browser sep 26 14:55

Campus Virtual | UCC x How to Create an ERC 2.0 x TP5/trabajos/08-herram x Checkout - Actions - Git x Create PrimerWFClass.y x Práctico - Google Drive x TP 8 - Documentos de G x

https://github.com/lautarose/SimpleWebAPI/actions/workflows/PrimerWFClass.yml

lautarose / SimpleWebAPI

Code Pull requests Actions Projects Wiki Security Insights Settings

Actions New workflow

All workflows

Build and Publish

Management

Caches

Runners Beta

Build and Publish

PrimerWFClass.yml

1 workflow run

Event Status Branch Actor

This workflow has a workflow_dispatch event trigger. Run workflow

Create PrimerWFClass.yml

Build and Publish #1: Commit 0097302 pushed by lautarose main

8 minutes ago 95s

Triggered via push now

Status

Total duration

Artifacts

lautarose pushed - 7bd123a main **In progress** -

PrimerWFClass.yml

on: push

build 9s

deploy

```
> [x] Set up job 3s
> [x] Checkout code 1s
> [x] Setup .NET Core 1s
> [x] Restore dependencies 4s
> [x] Build 7s
v [x] Publish 3s
  9 All projects are up-to-date for restore.
 10 Warning: /usr/share/dotnet/sdk/7.0.401/Current/SolutionFile/ImportAfter/Microsoft.NET.Sdk.Solution.targets(36,5): warning NETSDK1194: The "--output" option isn't supported when building a solution.
    Specifying a solution-level output path results in all projects copying outputs to the same directory, which can lead to inconsistent builds. [/home/runner/work/SimpleWebAPI/SimpleWebAPI
    /SimpleWebAPI.sln]
 11 SimpleWebAPI -> /home/runner/work/SimpleWebAPI/SimpleWebAPI/SimpleWebAPI/bin/Release/net7.0/SimpleWebAPI.dll
 12 SimpleWebAPI -> /home/runner/work/SimpleWebAPI/SimpleWebAPI/publish/

v [x] Upload Artifacts 2s
  1 Run actions/upload-artifact@v3
  2
  3 With the provided path, there will be 13 files uploaded
  4 Starting artifact upload
  5 For more detailed logs during the artifact upload process, enable step-debugging: https://docs.github.com/actions/monitoring-and-troubleshooting-workflows/enabling-debug-logging#enabling-step-debug-
    logging
 11 Artifact name is valid!
 12 Container for artifact "app" successfully created. Starting upload of file(s)
 13 Total size of all the files uploaded is 1214657 bytes
 14 File upload process has finished. Finalizing the artifact upload

☐ Post Setup .NET Core
☐ Post Checkout code
```

deploy

Started 5s ago

Set up job

Download Artifacts

Output contents

Deploy to Server

2 workflow runs		Event ▾	Status ▾	Branch ▾	Actor ▾
This workflow has a workflow_dispatch event trigger.					
Run workflow ▾					
✔ Update README.md	Build and Publish #2: Commit 7bd123a pushed by lautarose	main	📅 1 minute ago 🕒 53s		...
✔ Create PrimerWFClase.yml	Build and Publish #1: Commit 0097302 pushed by lautarose	main	📅 12 minutes ago 🕒 55s		...

{name: Build and Publish}

Este es el nombre del Pipeline

```
{
  on:
    workflow_dispatch:
    push:
      branches:
        - main
}
```

El pipeline se ejecutará en dos situaciones:

workflow_dispatch: Esto permite iniciar manualmente el pipeline desde la interfaz de GitHub.

push en la rama main: Cuando se realice un push en la rama main, lo que generalmente significa que se ha realizado una actualización en el código y se desea ejecutar el pipeline automáticamente.

El pipeline consta de dos trabajos (jobs):
build y deploy

Job 1: build

Este trabajo se encarga de compilar y publicar la aplicación .NET Core.

```
{
  build:
    runs-on: ubuntu-latest

    steps:
      - name: Checkout code
        uses: actions/checkout@v3

      - name: Setup .NET Core
        uses: actions/setup-dotnet@v3
        with:
          dotnet-version: 7.0.x

      - name: Restore dependencies
        run: dotnet restore

      - name: Build
        run: dotnet build --configuration Release

      - name: Publish
        run: dotnet publish --configuration Release --output ./publish

      - name: Upload Artifacts
        uses: actions/upload-artifact@v3
        with:
          name: app
}
```

```
    path: ./publish
}
```

runs-on: ubuntu-latest: Indica con que SO se inicia el runner.

steps: indica cuales son los pasos del job.

Checkout code: Este paso utiliza la acción actions/checkout para clonar el repositorio de GitHub en la máquina virtual de GitHub Actions, lo que permite que el código esté disponible para su procesamiento.

Setup .NET Core: Configura el entorno de .NET Core en la máquina virtual con la versión 7.0.x.

Restore dependencies: Ejecuta dotnet restore para restaurar las dependencias necesarias para la aplicación.

Build: Ejecuta dotnet build para compilar el código de la aplicación en la configuración Release.

Publish: Ejecuta dotnet publish para publicar la aplicación en la carpeta ./publish en formato Release.

Upload Artifacts: Utiliza la acción actions/upload-artifact para subir la carpeta ./publish como un "artefacto" que se utilizará en el siguiente trabajo.

Job 2: deploy

Este trabajo se encarga de descargar los artefactos generados en el trabajo anterior y realizar alguna operación de despliegue (en este caso, simplemente muestra "Deploy" como un ejemplo).

```
{
  deploy:
    needs: build
    runs-on: ubuntu-latest

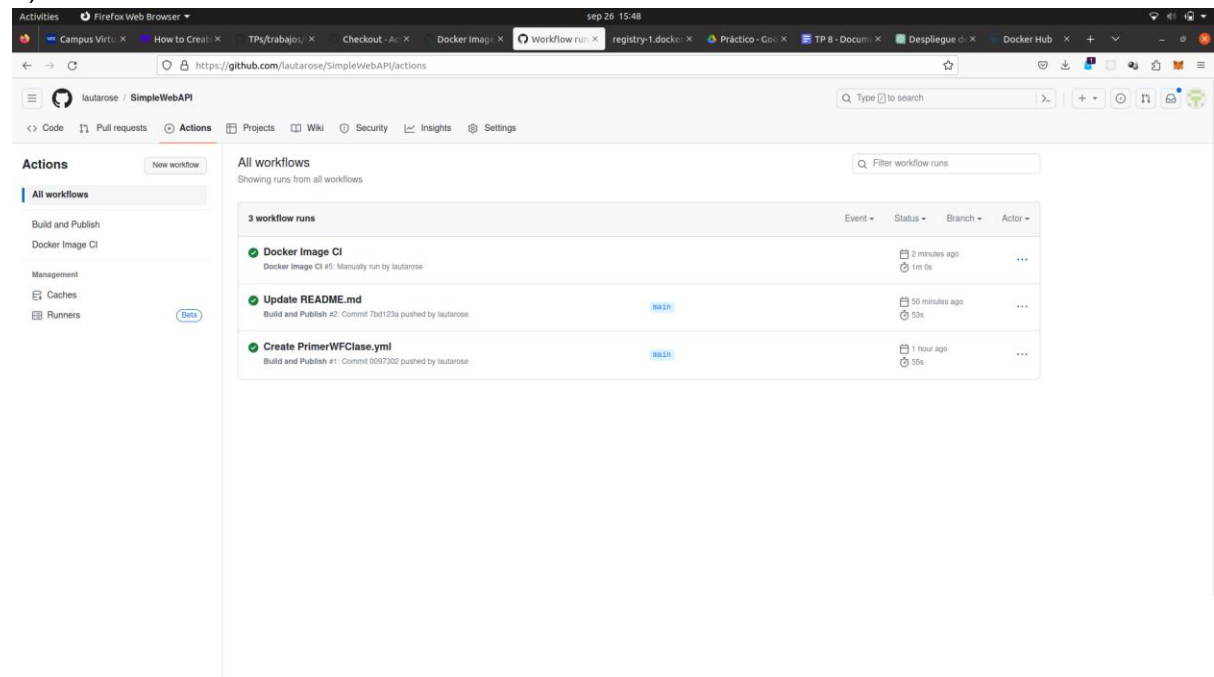
    steps:
      - name: Download Artifacts
        uses: actions/download-artifact@v3
        with:
          name: app
      - name: Output contents
        run: ls
      - name: Deploy to Server
        run: |
          echo "Deploy"
}
```

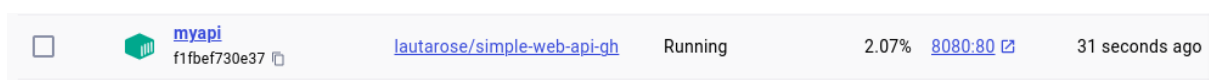
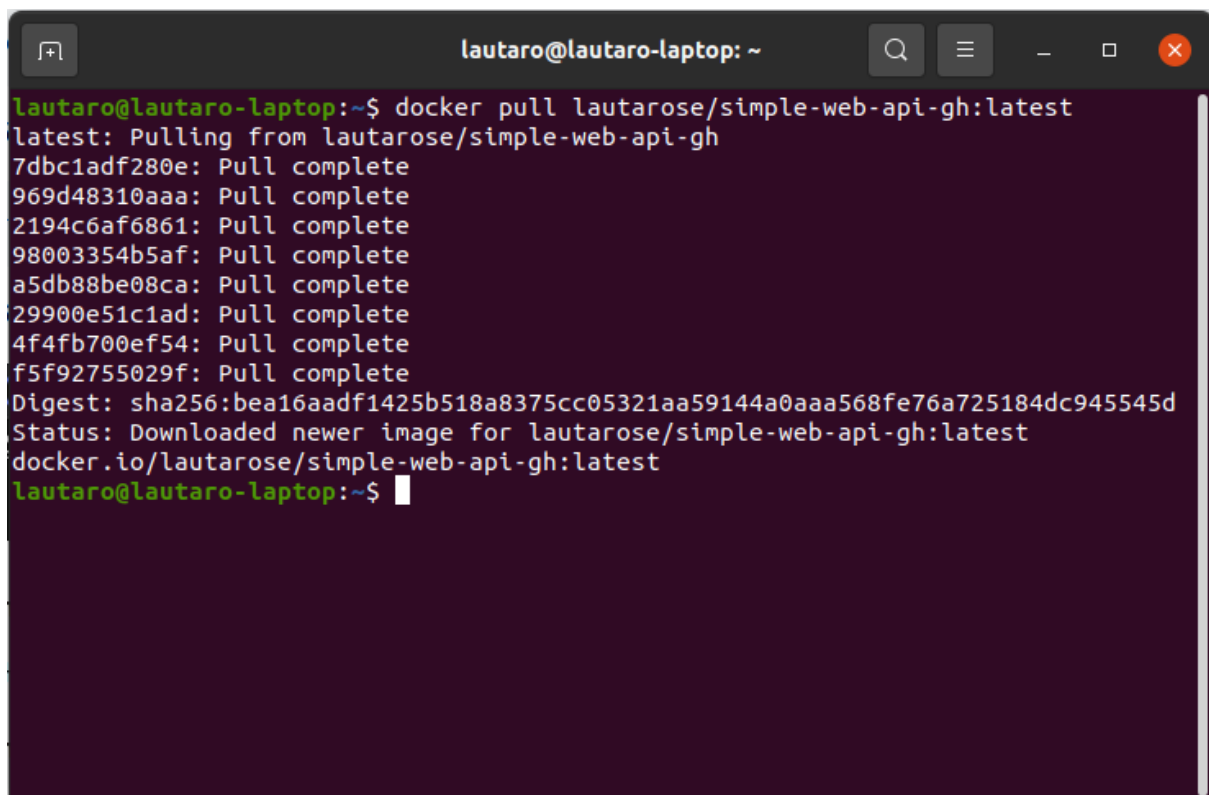
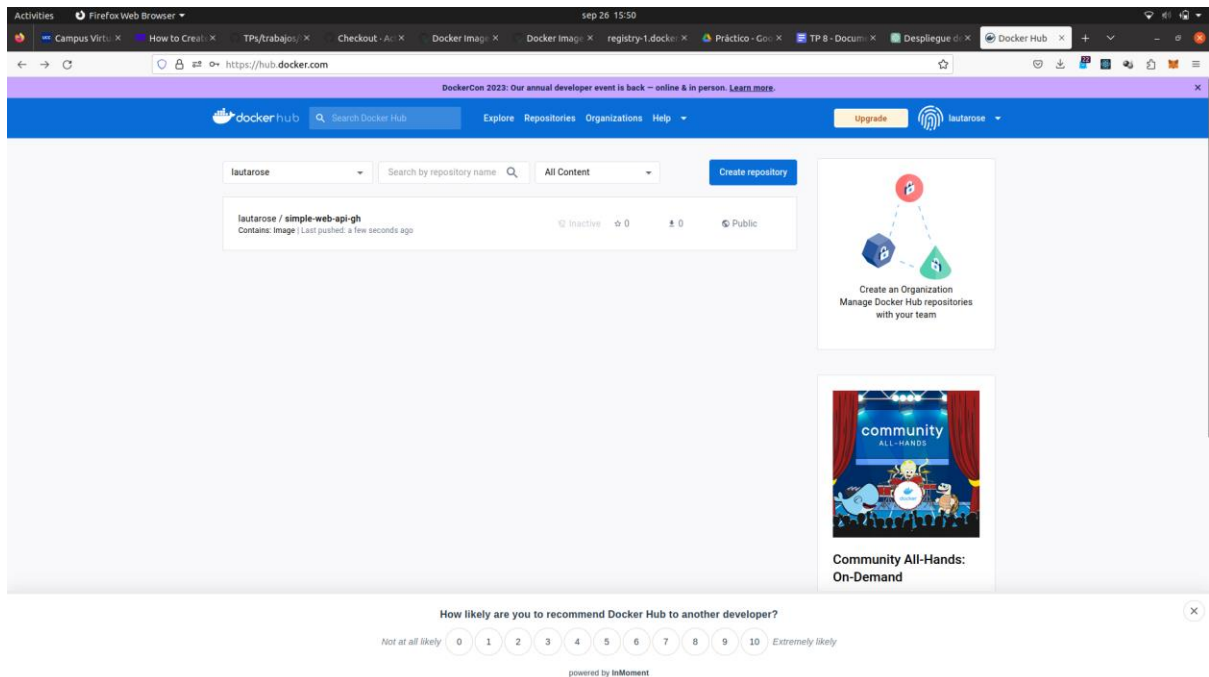
Download Artifacts: Utiliza la acción actions/download-artifact para descargar los artefactos generados en el trabajo anterior. En este caso, descarga la carpeta ./publish que contiene la aplicación publicada.

Output contents: Ejecuta ls para listar el contenido del directorio actual. Esto se hace como un ejemplo y puede personalizarse según las necesidades de tu despliegue real.

Deploy to Server: Ejecuta un comando (en este caso, simplemente muestra "Deploy") que representa una acción de despliegue en un servidor. En este paso, puedes agregar comandos específicos para desplegar tu aplicación en tu servidor de destino.

3)





Activities Firefox Web Browser sep 26 15:58

← → ↻ localhost:8080/veatherforecast

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

▼ 0:

- date: "2023-09-27"
- temperatureC: 3
- temperatureF: 37
- summary: "Sweltering"

▼ 1:

- date: "2023-09-28"
- temperatureC: 8
- temperatureF: 46
- summary: "Hot"

▼ 2:

- date: "2023-09-29"
- temperatureC: 51
- temperatureF: 123
- summary: "Sweltering"

▼ 3:

- date: "2023-09-30"
- temperatureC: 36
- temperatureF: 85
- summary: "Chilly"

▼ 4:

- date: "2023-10-01"
- temperatureC: 27
- temperatureF: 80
- summary: "Freezing"


4)

```
1   name: Build and Deploy
2
3   on:
4     push:
5       branches:
6         - main
7
8   jobs:
9     build:
10      runs-on: ubuntu-latest
11
12      steps:
13      - name: Checkout code
14        uses: actions/checkout@v2
15
16      - name: Install Node.js and npm
17        uses: actions/setup-node@v2
18        with:
19          node-version: 14
20
21      - name: Install dependencies
22        run: npm install
23
24      - name: Build and Bundle
25        run: npm run build
26
27    deploy:
28      needs: build
29      runs-on: ubuntu-latest
30
31      steps:
32      - name: Deploy to server
33        run: |
34          echo "Deploy"
```

Commiteamos:

1 workflow run		Event ▾	Status ▾	Branch ▾	Actor ▾
🟡 Update README.md	Build and Deploy #2: Commit f6b7c8d pushed by lautarose	main	📅 now	...	
			🔄 In progress		
🟢 Create build-deploy.yml	Build and Deploy #1: Commit 1f56639 pushed by lautarose	main	📅 1 minute ago	...	
			🔄 27s		

Triggered via push now

 lautarose pushed · f6b7c8d · main

Status

Success

Total duration

24s

Artifacts

—

build-deploy.yml

on: push

✓ build


7s

✓ deploy

3s

Annotations

1 warning

 build

The following actions uses node12 which is deprecated and will be forced to run on node16: actions/checkout@v2, actions/setup-node@v2. For more info: <https://github.blog/changelog/2023-06-13-github-actions-deprecating-node12/>.

[Show more](#)

build

succeeded now in 7s

Search logs

Refresh

Settings

> ✓ Set up job

1s

> ✓ Checkout code

0s

> ✓ Install Node.js and npm

0s

> ✓ Install dependencies

0s

> ✓ Build and Bundle

3s

> ✓ Post Install Node.js and npm

0s

> ✓ Post Checkout code

0s

> ✓ Complete job

0s

deploy

succeeded now in 3s

Search logs

Refresh

Settings

> ✓ Set up job

0s

> ✓ Deploy to server

0s

> ✓ Complete job

0s

5)

Dockerfile:



```
Dockerfile > ...
1  # Usa una imagen base de Node.js
2  FROM node:14
3
4  # Establece el directorio de trabajo en el contenedor
5  WORKDIR /usr/src/app
6
7  # Copia los archivos de la aplicación al contenedor
8  COPY package*.json ./
9  COPY index.js .
10
11 # Instala las dependencias
12 RUN npm install
13
14 # Expone el puerto 3000 en el contenedor
15 EXPOSE 3000
16
17 # Comando para ejecutar la aplicación cuando el contenedor se inicia
18 CMD ["node", "index.js"]
19
```

Workflow .yaml:

```
1  name: Docker Image CI
2
3  on:
4    workflow_dispatch:
5    push:
6      branches: [ "main" ]
7
8  jobs:
9    build:
10     runs-on: ubuntu-latest
11     steps:
12       - name: Checkout code
13         uses: actions/checkout@v3
14
15       - name: Build the Docker image
16         run: docker build . --file Dockerfile --tag ${ secrets.DOCKERHUB_USERNAME }}/node-api-gh:latest
17
18       - name: Log in to Docker Hub
19         run: docker login -u ${ secrets.DOCKERHUB_USERNAME } -p ${ secrets.DOCKERHUB_PASSWORD }
20
21       - name: Push Docker image to Docker Hub
22         run: |
23           docker push ${ secrets.DOCKERHUB_USERNAME }}/node-api-gh:latest
24
25       - name: Clean up
26         run: docker logout
27         if: always() # Se ejecutará incluso si un paso anterior falla
28
```


Comitemamos:

2 workflow runs		Event ▾	Status ▾	Branch ▾	Actor ▾
●	Create README.md			main	
Docker Image CI #3: Commit 7ab258a pushed by lautarose			now		...
			Queued		

Triggered via push now	Status	Total duration	Artifacts
 lautarose pushed  7ab258a main	In progress	—	—

main.yml

on: push

 build
 11s

build

Started 18s ago

- > ☒ Set up job
- > ☒ Checkout code
- ☒ Build the Docker image
- ☐ Log in to Docker Hub
- ☐ Push Docker image to Docker Hub
- ☐ Clean up
- ☐ Post Checkout code

← Docker Image CI


✓ Create README.md #3

🏠 Summary

Jobs


✓

build

 docker hub

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 lautarose

lautarose

Repositories

node-api-gh

General

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

General

Tags

Builds

Collaborators

Webhooks


Settings

🔔


Add a short description for this repository

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

Update

 lautarose / node-api-gh

Description

This repository does not have a description 

🕒

Last pushed: a minute ago

Docker commands



To push a new tag to this repository:

`docker push lautarose/node-api-gh:tagname`

[Public View](#)

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
 latest		Image	---	a minute ago

[See all](#)

Automated Builds

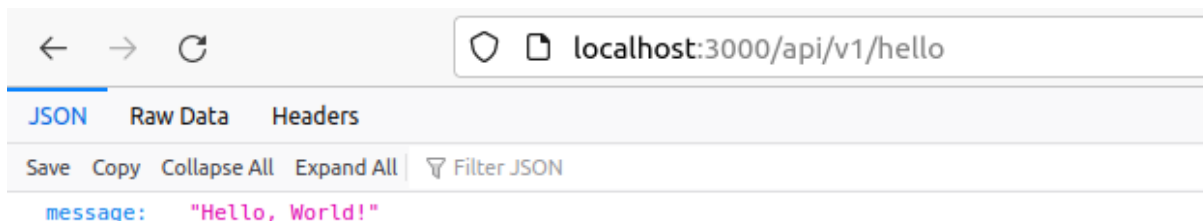
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#)

[Upgrade](#)

Probamos correr la imagen:

```
lautaro@lautaro-laptop: ~/Documents/Facultad/Ingenieria d...
lautaro@lautaro-laptop:~/Documents/Facultad/Ingenieria de Software III/TP7/tp07-react-ing3$ docker run -p 3000:3000 lautarose/node-api-gh:latest
Unable to find image 'lautarose/node-api-gh:latest' locally
latest: Pulling from lautarose/node-api-gh
2ff1d7c41c74: Already exists
b253aeafeaa7: Already exists
3d2201bd995c: Already exists
1de76e268b10: Already exists
d9a8df589451: Already exists
6f51ee005dea: Already exists
5f32ed3c3f27: Already exists
0c8cc2f24a4d: Already exists
0d27a8e86132: Already exists
6d444a1cddc1: Pull complete
02b704d6c447: Pull complete
9374231ecb98: Pull complete
7147f4d953db: Pull complete
Digest: sha256:a404bffc44c50f47f24061545a5a6560ac1cb662874ed99f3a755ff5b8d8f6b6
Status: Downloaded newer image for lautarose/node-api-gh:latest
Server is running at http://localhost:3000/
```



Repo:
<https://github.com/lautarose/tp07-react-ing3>