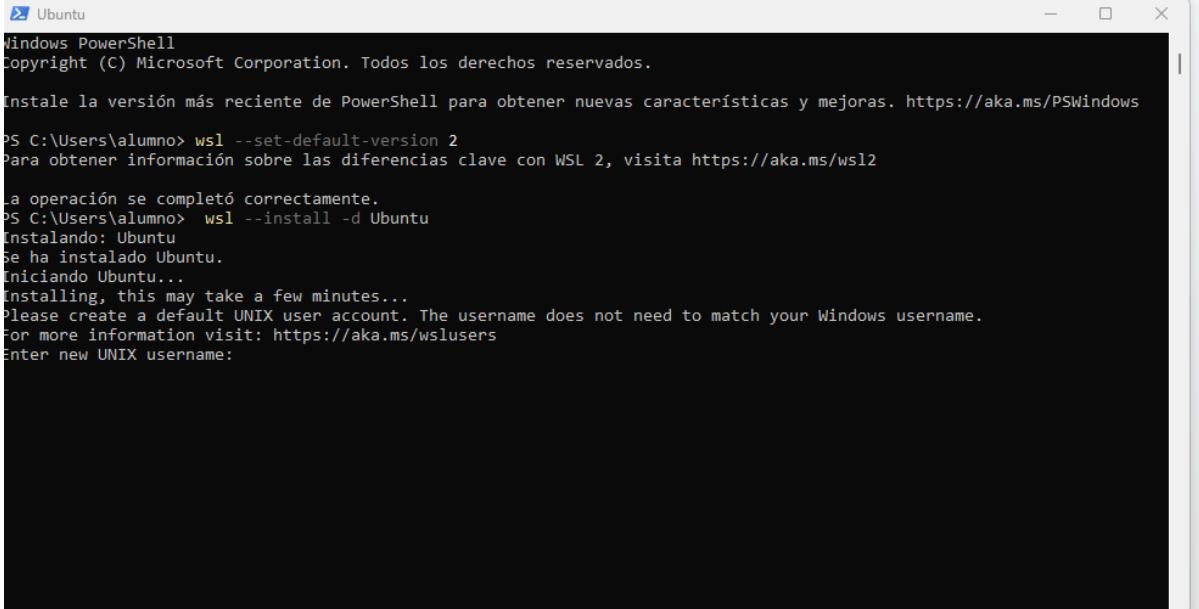


INTRODUCCIÓN:

Docker es una aplicación que nos ayuda crear, ejecutar y gestionar los contenedores. Dentro de este tenemos Docker Compose que es una herramienta complementaria que permite definir y ejecutar varios contenedores al mismo tiempo usando un solo archivo

Paso 1. Descarga e instalación de Docker

Problemas a la hora de instala la wls de docker



```
Ubuntu
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://aka.ms/PSWindows

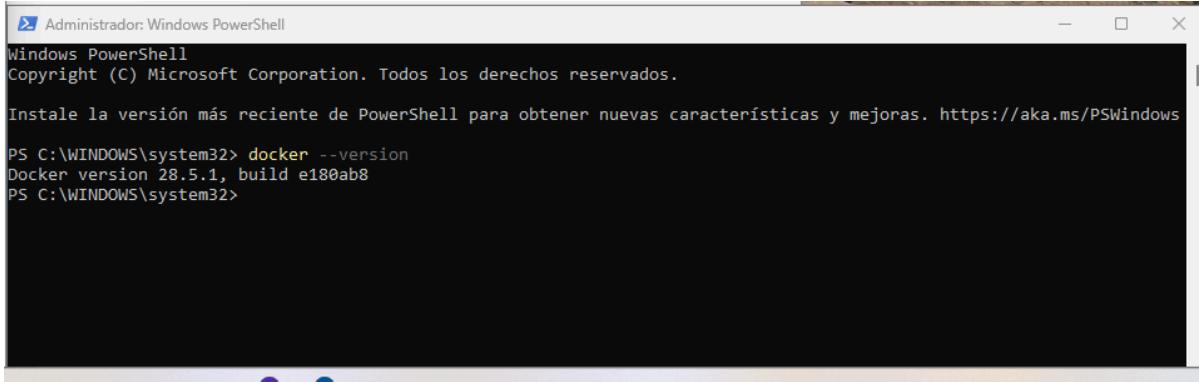
PS C:\Users\alumno> wsl --set-default-version 2
Para obtener información sobre las diferencias clave con WSL 2, visita https://aka.ms/wsl2

La operación se completó correctamente.

PS C:\Users\alumno> wsl --install -d Ubuntu
Instalando: Ubuntu
Se ha instalado Ubuntu.
Iniciando Ubuntu...
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username:
```

The screenshot shows a Windows PowerShell window titled "Ubuntu". It displays the command "wsl --set-default-version 2" followed by instructions to install WSL 2. The output indicates that the operation completed successfully. The taskbar at the bottom shows various pinned icons, and the system tray shows the date and time as 13/11/2025.

Para saber la version de docker que tenemos que poner en la powershell el siguiente comando : docker --version



```
Administrador: Windows PowerShell
Windows PowerShell
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Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://aka.ms/PSWindows

PS C:\WINDOWS\system32> docker --version
Docker version 28.5.1, build e180ab8
PS C:\WINDOWS\system32>
```

The screenshot shows a Windows PowerShell window titled "Administrador: Windows PowerShell". It displays the command "docker --version" and shows the Docker version as 28.5.1. The taskbar at the bottom shows various pinned icons, and the system tray shows the date and time as 13/11/2025.

Para comprobar que docker puede ejecutar correctamente los contenedores necesitamos el siguiente comando : docker run hello-world

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
Digest: sha256:f7931603f70e13dbd844253370742c4fc4202d290c80442b2e68706d8f33ce26
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

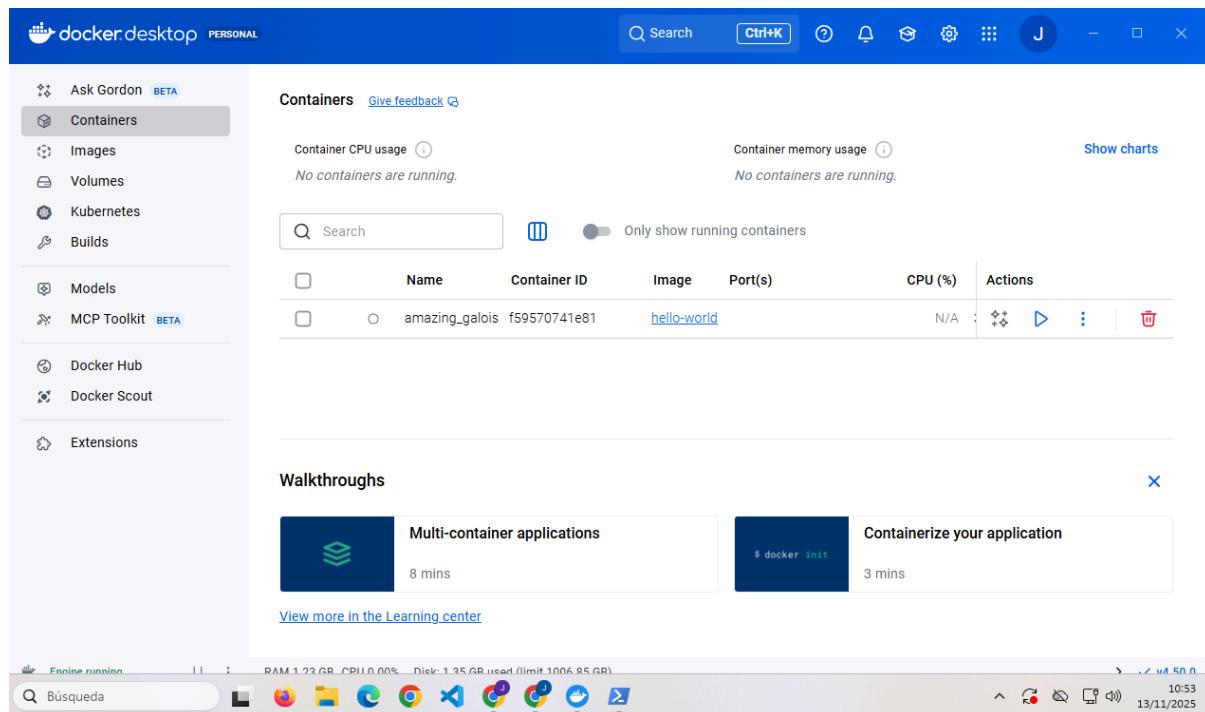
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
PS C:\WINDOWS\system32>
```



10:51
13/11/2025

Y después de ejecutar este comando en la aplicación nos saldrá que se ha aplicado ese comando como se muestra en la siguiente imagen.



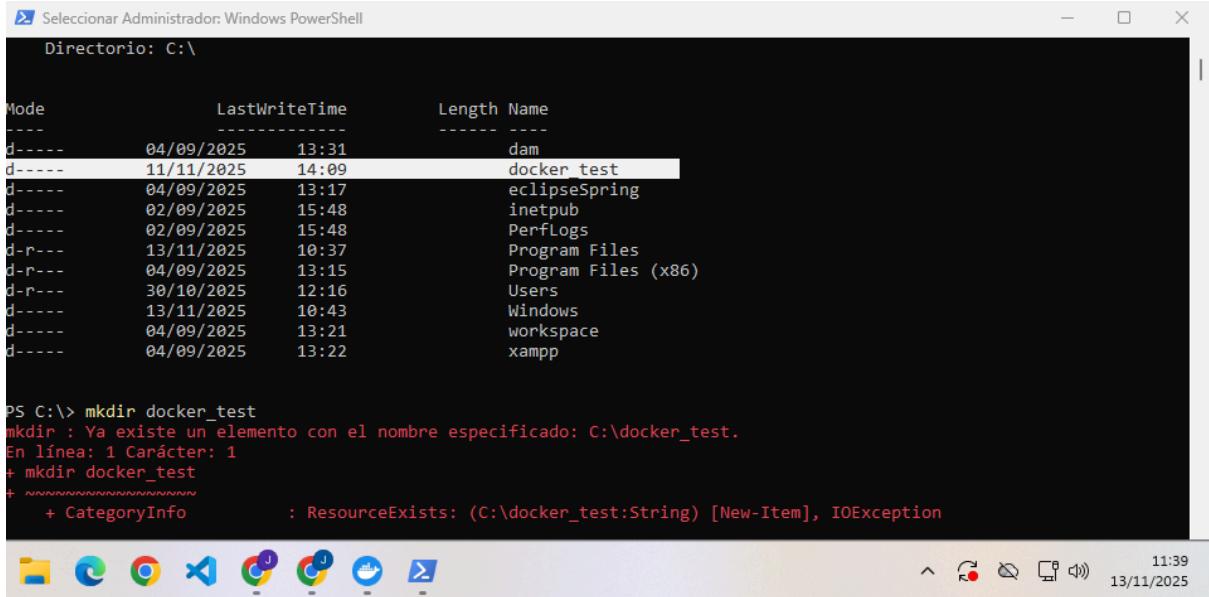
Paso 2. Instalación y comprobación de Docker Compose en Windows 11

Con el comando docker compose version podemos saber la versión que tiene

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> docker compose version
Docker Compose version v2.40.3-desktop.1
PS C:\WINDOWS\system32>
```

A screenshot of a Windows PowerShell window titled 'Administrator: Windows PowerShell'. It displays the command 'docker compose version' and its output, which is 'Docker Compose version v2.40.3-desktop.1'. The window has a dark theme. At the bottom, a taskbar shows various icons and the system status: RAM 1.23 GB, CPU 0.00%, Disk 1.35 GB used / limit 1006.85 GB, and a date/time of 10:55 13/11/2025.

Creación del directorio docker_test es con el comando mkdir (y nombre del directorio)
Como se puede ver el directorio ya está creado con anterioridad (se me olvidó hacerle captura cuando lo cree)



```
PS C:\> Seleccionar Administrador: Windows PowerShell
Directorio: C:\

Mode          LastWriteTime    Length Name
----          <-----           ----- 
d----
```

Mode	LastWriteTime	Length	Name
d----	04/09/2025	13:31	dam
d----	11/11/2025	14:09	docker_test
d----	04/09/2025	13:17	eclipseSpring
d----	02/09/2025	15:48	inetpub
d----	02/09/2025	15:48	PerfLogs
d-r--	13/11/2025	10:37	Program Files
d-r--	04/09/2025	13:15	Program Files (x86)
d-r--	30/10/2025	12:16	Users
d----	13/11/2025	10:43	Windows
d----	04/09/2025	13:21	workspace
d----	04/09/2025	13:22	xampp

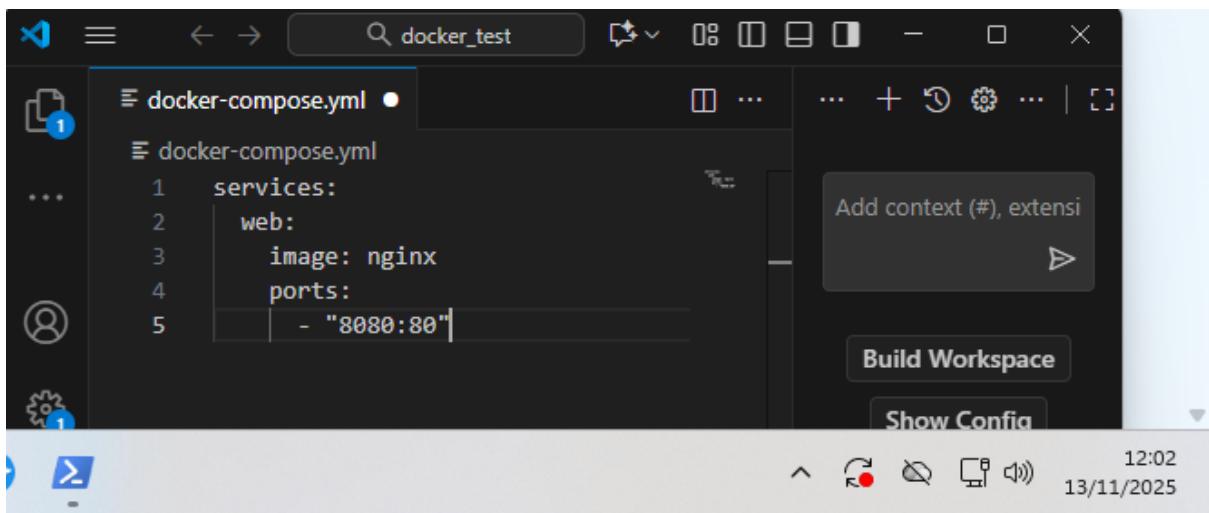
```
PS C:\> mkdir docker_test
mkdir : Ya existe un elemento con el nombre especificado: C:\docker_test.
En linea: 1 Carácter: 1
+ mkdir docker_test
+ ~~~~~
+ CategoryInfo          : ResourceExists: (C:\docker_test:String) [New-Item], IOException
+ FullyQualifiedErrorId : NewItemByPathError, System.IO.IOException
+
```

Creamos dentro del directorio un archivo con nombre docker-compose.yml con el siguiente comando.



```
PS C:\> Administrador: Windows PowerShell
PS C:\> docker_test> echo docker-compose.yml
docker-compose.yml
```

Después de crear el archivo dentro de Visual Studio Code cambiamos su contenido.c



```
docker-compose.yml
services:
  web:
    image: nginx
    ports:
      - "8080:80"
```

Comando docker compose up -d para encender el compose.

```
PS C:\docker_test> docker compose up -d
[+] Running 8/8
  web Pulled
    ✓ e2f8e296d9df Pull complete
    ✓ 52bc359bcd7 Pull complete
    ✓ 9def903993e4 Pull complete
    ✓ 320b0949be89 Pull complete
    ✓ d7ecded7702a Pull complete
    ✓ 266626526d42 Pull complete
    ✓ d921c57c6a81 Pull complete
[+] Running 2/2
  ✓ Network docker_test_default Created
  ✓ Container docker_test-web-1 Started
PS C:\docker_test>
```

12:08 13/11/2025


```
PS C:\docker_test> docker compose up -d
[+] Running 8/8
  web Pulled
    ✓ e2f8e296d9df Pull complete
    ✓ 52bc359bcd7 Pull complete
    ✓ 9def903993e4 Pull complete
    ✓ 320b0949be89 Pull complete
    ✓ d7ecded7702a Pull complete
    ✓ 266626526d42 Pull complete
    ✓ d921c57c6a81 Pull complete
[+] Running 2/2
  ✓ Network docker_test_default Created
  ✓ Container docker_test-web-1 Started
PS C:\docker_test>
```

12:08 13/11/2025

Seguridad de Windows

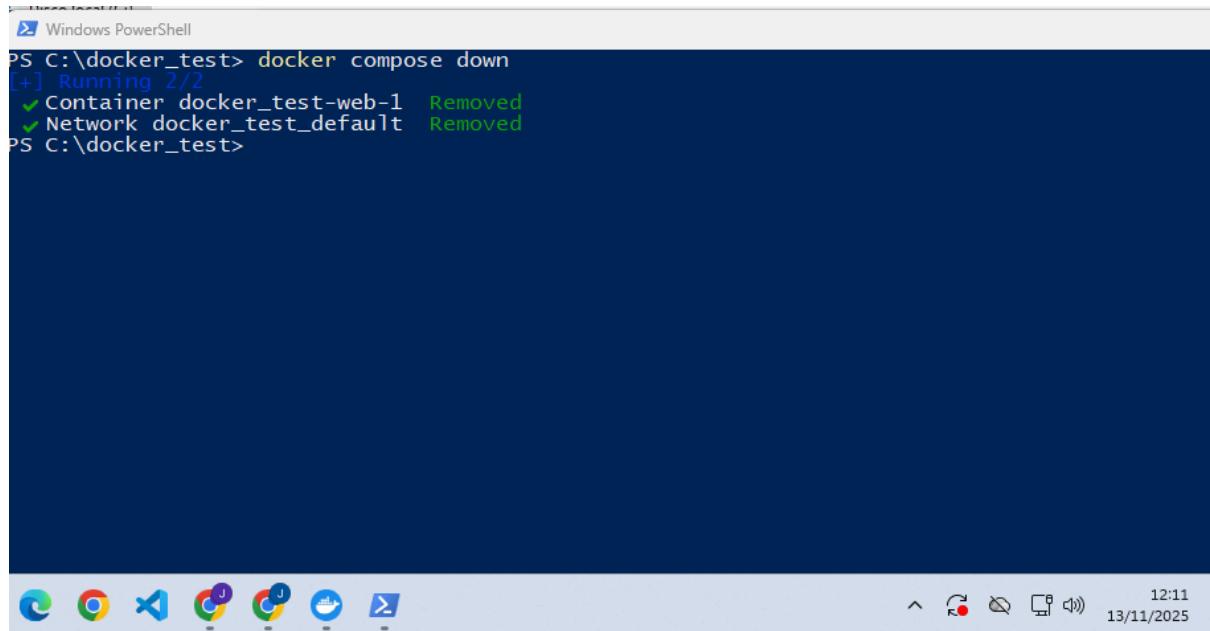
¿Quieres permitir que las redes públicas y privadas accedan a esta aplicación?

Docker Desktop Backend

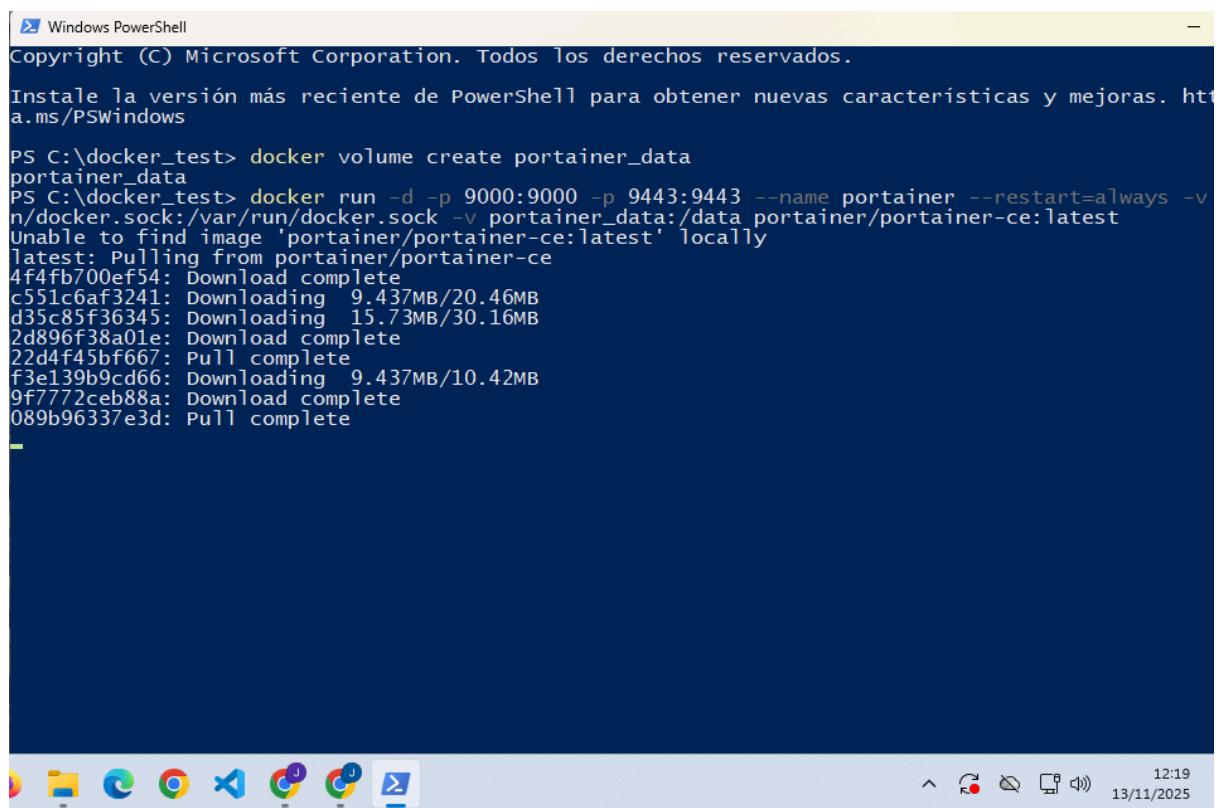
Editor: Docker Inc.

Permitir Cancelar

Comando para apagar el compose

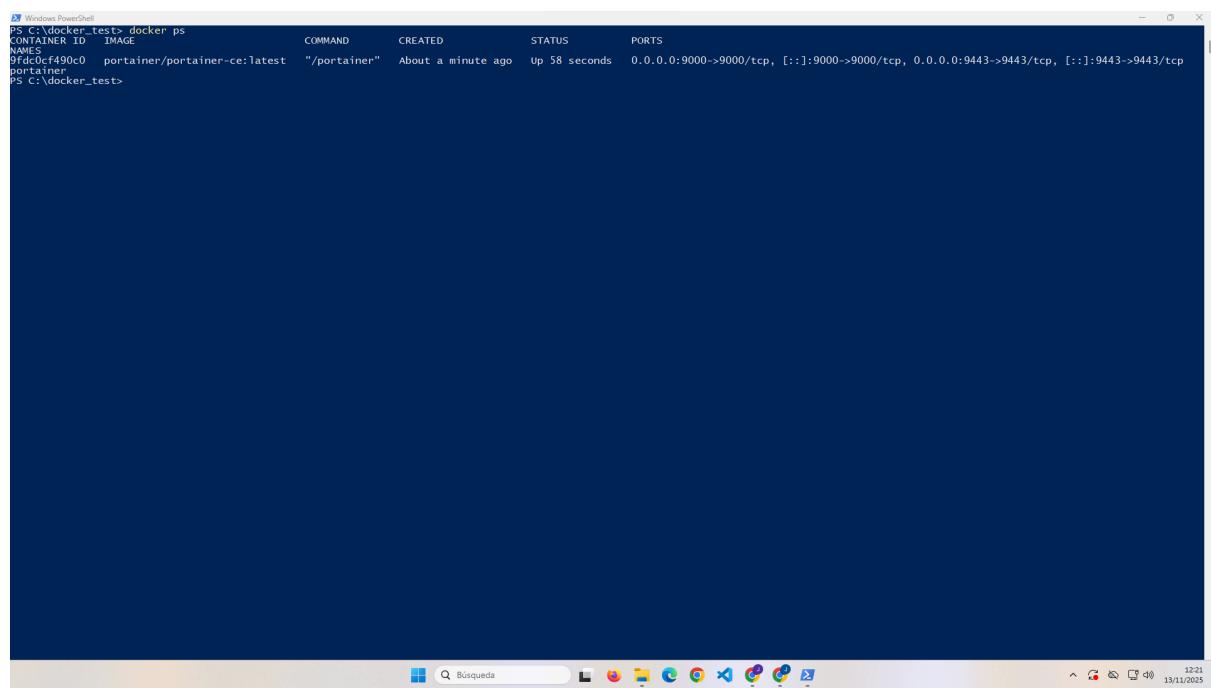


```
PS C:\docker_test> docker compose down
[+] Running 2/2
  ✓ Container docker_test-web-1  Removed
  ✓ Network docker_test_default  Removed
PS C:\docker_test>
```



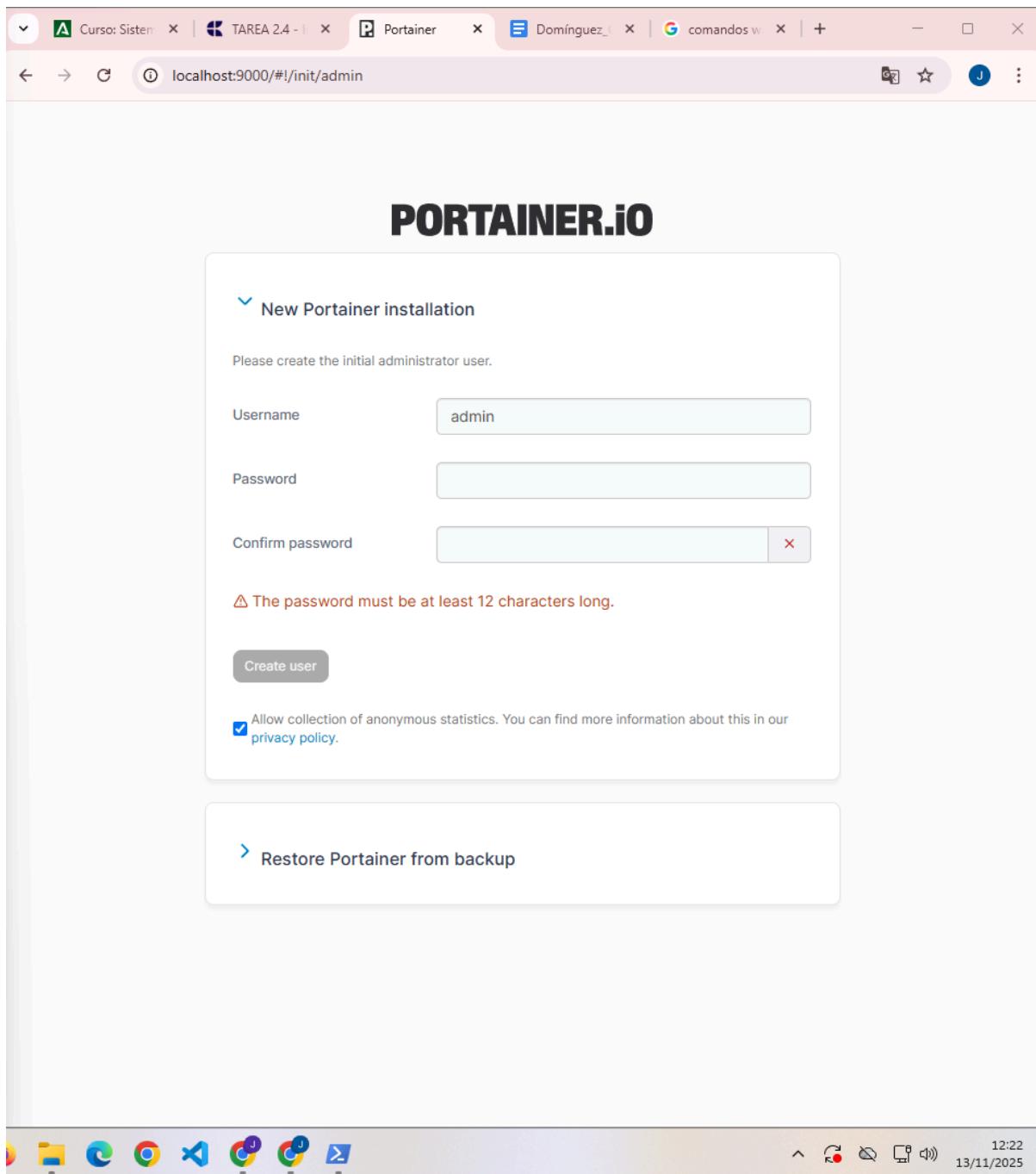
```
PS C:\docker_test> docker volume create portainer_data
portainer_data
PS C:\docker_test> docker run -d -p 9000:9000 -p 9443:9443 --name portainer --restart=always -v /var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer-ce:latest
Unable to find image 'portainer/portainer-ce:latest' locally
latest: Pulling from portainer/portainer-ce
4f4fb700ef54: Download complete
c51c6af3241: Downloading 9.437MB/20.46MB
d35c85f36345: Downloading 15.73MB/30.16MB
2d896f38a01e: Download complete
22d4f45bf667: Pull complete
f3e139b9cd66: Downloading 9.437MB/10.42MB
9f7772ceb88a: Download complete
089b96337e3d: Pull complete
```

Comprobar los contenedores

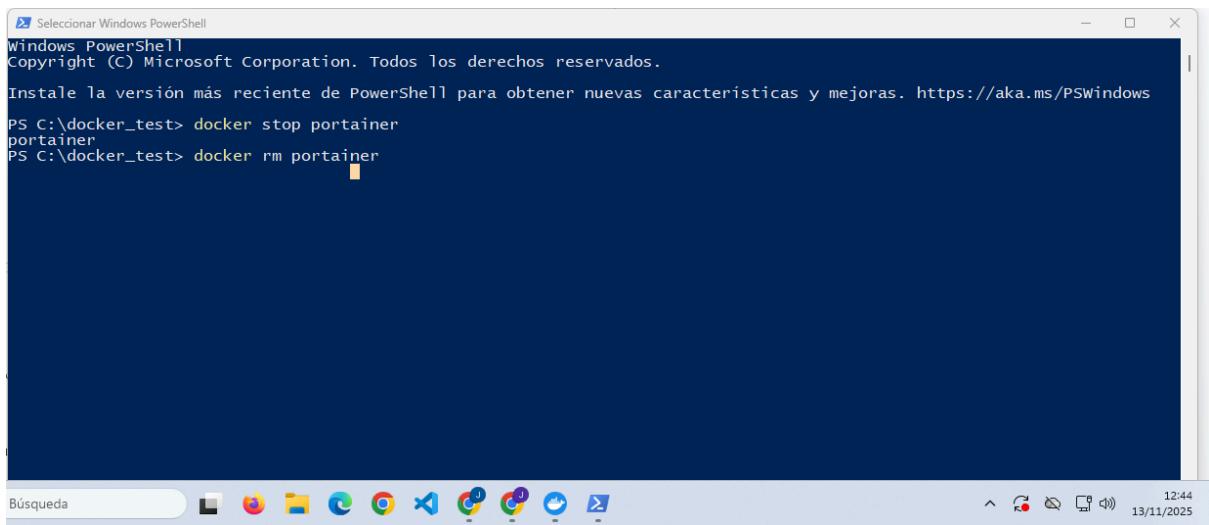


```
PS C:\docker_test> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
5f8c0cf490c0 portainer/portainer-ce:latest "/portainer" About a minute ago Up 58 seconds 0.0.0.0:9000->9000/tcp, [::]:9000->9000/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp
portainer
PS C:\docker_test>
```

Entrar en la web



Comando para parar y borrar el portainer

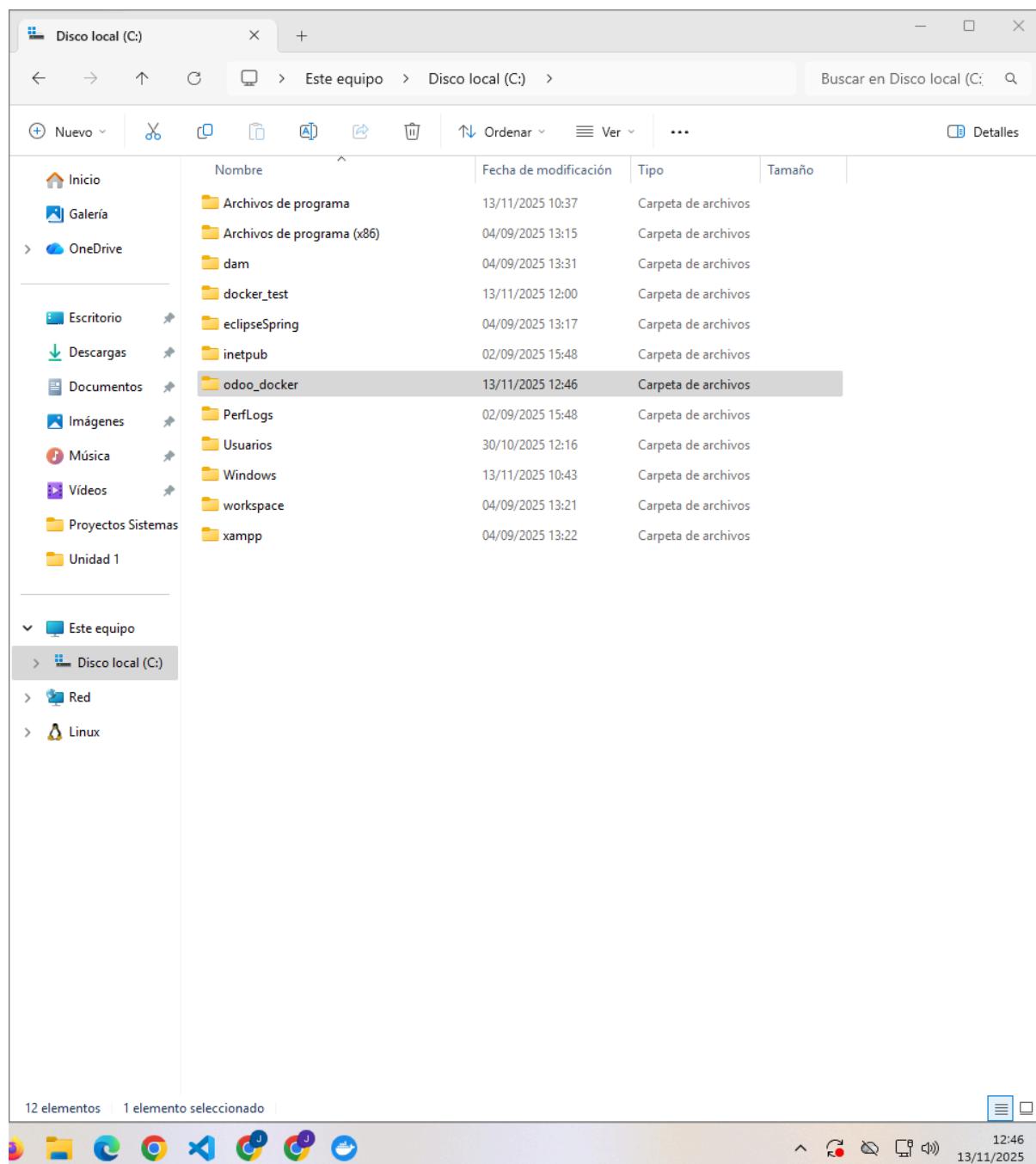


The screenshot shows a Windows PowerShell window titled "Seleccionar Windows PowerShell". The command "docker stop portainer" is run, followed by "docker rm portainer". The PowerShell interface includes a taskbar at the bottom with various icons like File Explorer, Firefox, and Microsoft Edge.

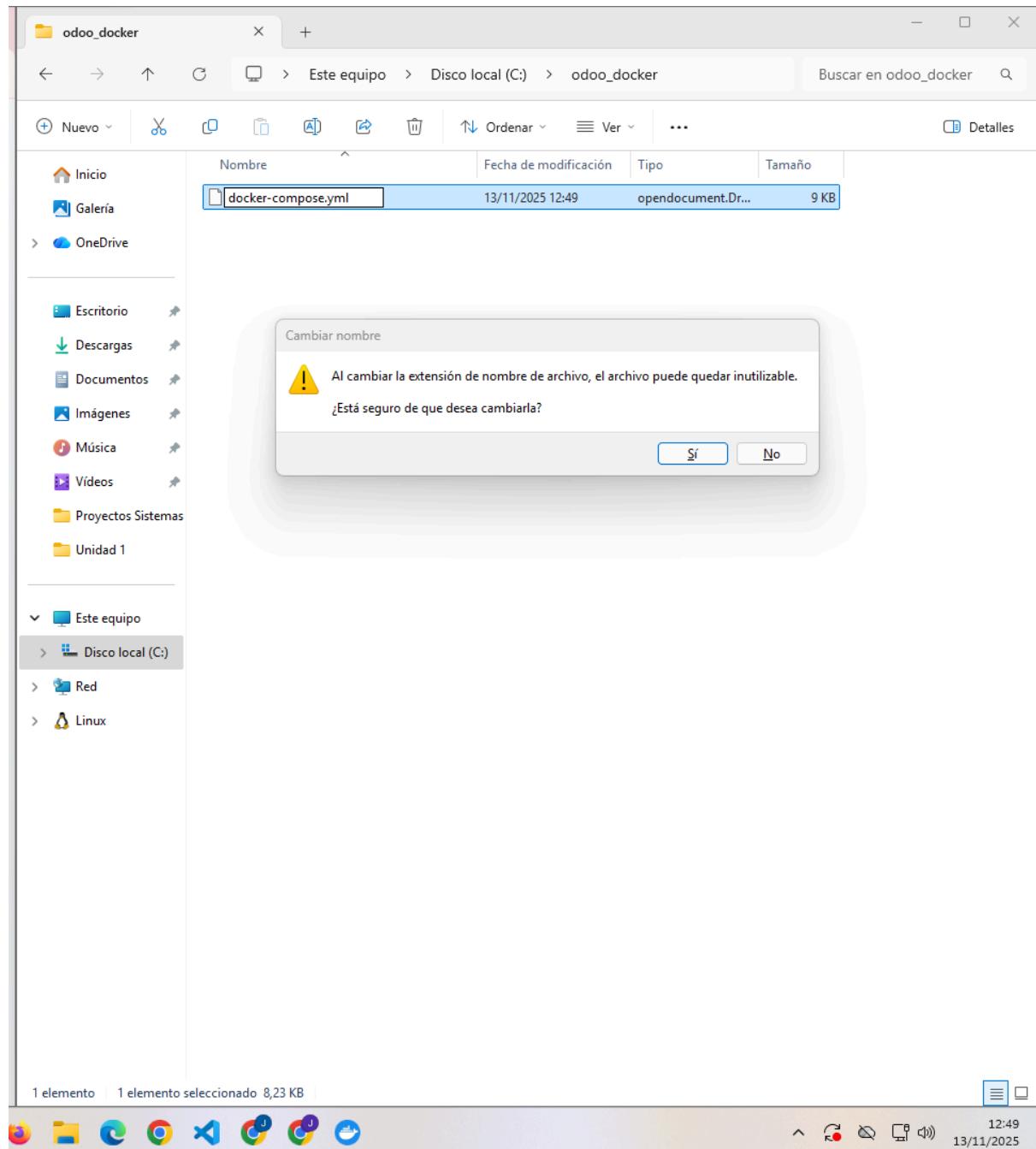
```
Seleccionar Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.
Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://aka.ms/PSWindows
PS C:\docker_test> docker stop portainer
portainer
PS C:\docker_test> docker rm portainer
```

Paso 4. Creación del contenedor de Odoo y PostgreSQL con Docker Compose

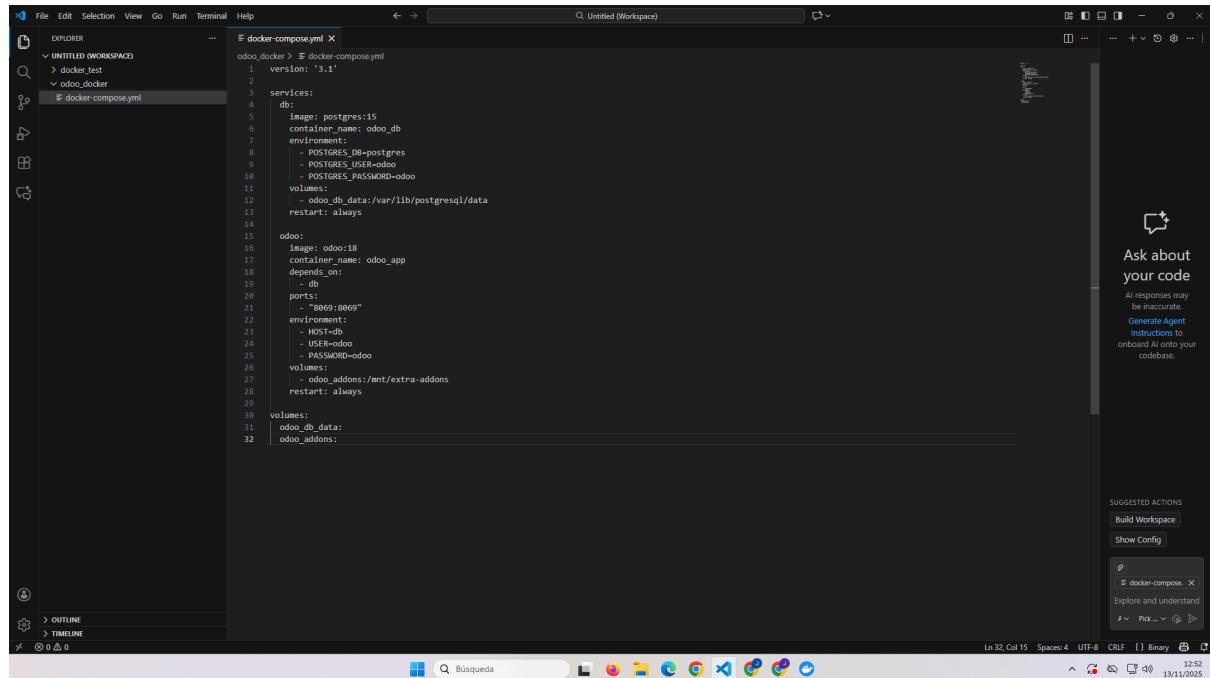
Creación de la carpeta `odoo_docker`



Dentro de la carpeta creamos el fichero docker-compose.yml le damos a que si y se nos creara.

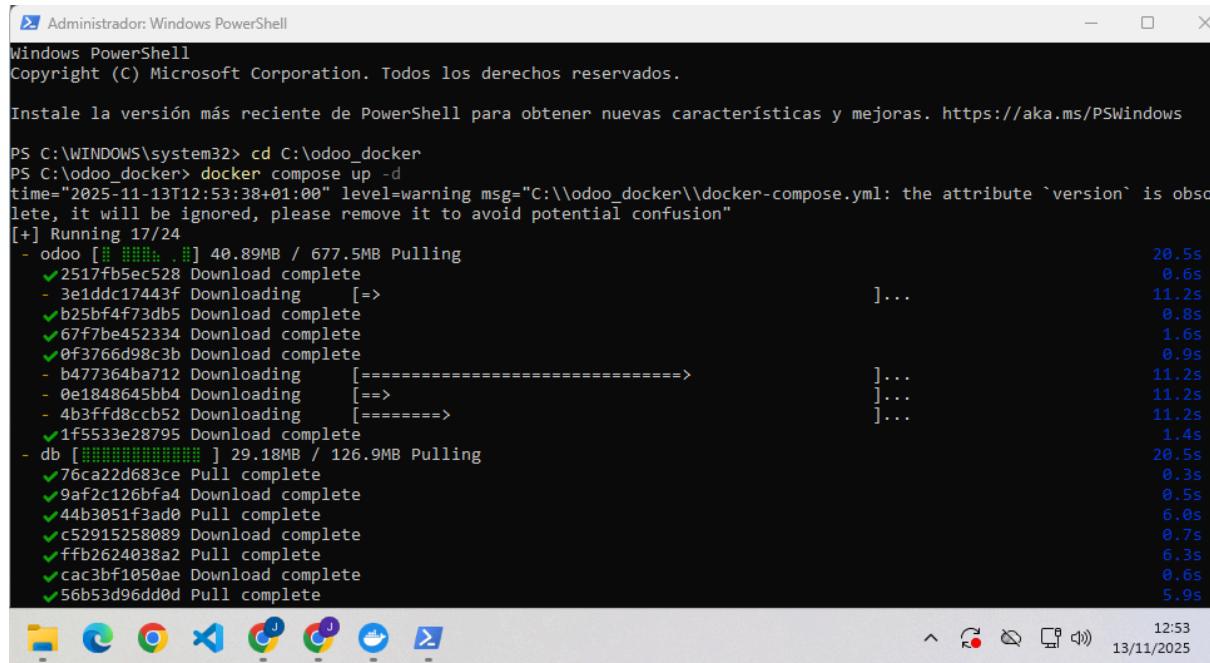


Entramos en Visual Studio dentro del fichero y lo cambiamos por lo siguiente que se ve en la captura de pantalla.



```
version: '3.1'
services:
  db:
    image: postgres:15
    container_name: odoo_db
    environment:
      - POSTGRES_DB=postgres
      - POSTGRES_USER=odoo
      - POSTGRES_PASSWORD=odoo
    volumes:
      - odoo_db_data:/var/lib/postgresql/data
    restart: always
  odoo:
    image: odoo:18
    container_name: odoo_app
    depends_on:
      - db
    ports:
      - "8069:8069"
    environment:
      - HOST=db
      - USER=odoo
      - PASSWORD=odoo
    volumes:
      - odoo_db_data:/var/lib/postgresql/data
      - odoo-addons:/mnt/extra-addons
    restart: always
```

Hacemos el docker_compose del odoo_docker



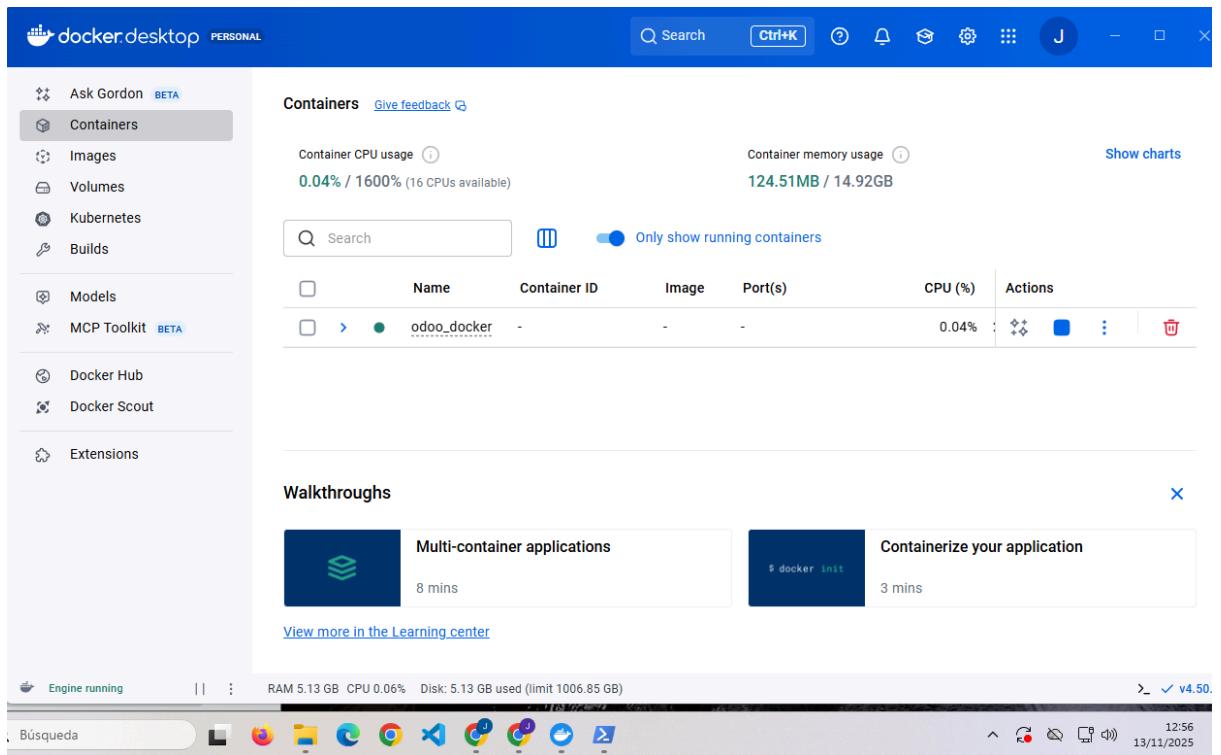
```
PS C:\WINDOWS\system32> cd C:\odoo_docker
PS C:\odoo_docker> docker compose up -d
time="2025-11-13T12:53:38+01:00" level=warning msg="C:\\\\odoo_docker\\\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 17/24
- odoo [██████] 40.89MB / 677.5MB Pulling
  ✓ 2517fb5ec528 Download complete
- 3e1ddc17443f Downloading [=...]
  ✓ b25bf4f73db5 Download complete
  ✓ 67f7be452334 Download complete
  ✓ 0f3766d98c3b Download complete
- b477364ba712 Downloading [======]
- 0e1848645bb4 Downloading [==>]
- 4b3ffd8ccb52 Downloading [=-----]
  ✓ f5533e28795 Download complete
- db [██████████████] 29.18MB / 126.9MB Pulling
  ✓ 76ca22d683ce Pull complete
  ✓ 9af2c126bfa4 Pull complete
  ✓ 44b3051f3ad0 Pull complete
  ✓ c52915258089 Download complete
  ✓ ffb2624038a2 Pull complete
  ✓ cac3bf1050ae Download complete
  ✓ 56b53d96d0d Pull complete
```

```
Administrator: Windows PowerShell
✓ c770ce63d8d6 Pull complete      0.8s
✓ 51fc08ce70d7 Pull complete      58.3s
[+] Running 5/5
✓ Network odoodefault             Created      0.0s
✓ Volume odoodeckerdodoo_db_data  Created      0.0s
✓ Volume odoodeckerdodoo_addons  Created      0.0s
✓ Container odoodeb               Started     2.8s
✓ Container odoodeapp              Started     0.8s
PS C:\odoodecker>

```



Comprobación en docker y lo abrimos en la pagina con la siguiente dirección :
<http://localhost:8069>



The screenshot shows the Docker Desktop application running on a Windows system. The left sidebar has 'Containers' selected. In the main area, there's a table with one row:

	Name	Container ID	Image	Port(s)	CPU (%)	Actions
<input type="checkbox"/>	odoodecker	-	-	-	0.04%	

At the bottom, there are two walkthrough cards:

- Multi-container applications**: 8 mins
- Containerize your application**: 3 mins

System status at the bottom: Engine running, RAM 5.13 GB, CPU 0.06%, Disk: 5.13 GB used (limit 1006.85 GB). Date: 13/11/2025.

Sistemas de gestión | TAREA 2.4 - Instalac | Odoo | Domínguez_García_ | +

localhost:8069/web/database/selector

Google Translate

Warning, your Odoo database manager is not protected. To secure it, we have generated the following master password for it:

pesd-i2ph-tf72

You can change it below but be sure to remember it, it will be asked for future operations on databases.

Master Password:

Database Name:

Email:

Password:

Phone Number:

Language: English (US)

Country:

Demo Data:

Create database [or restore a database](#)



12:57 13/11/2025

Detener y Iniciar el odoo_app y odoo_db

The screenshot shows two consecutive command-line sessions in a Windows PowerShell window. The first session (top) runs `docker compose stop`, which stops the `odoo_app` and `odoo_db` containers. The second session (bottom) runs `docker compose start`, which starts the same two containers again. Both sessions include a warning message about the 'version' attribute being obsolete.

```
PS C:\odoo_docker> docker compose stop
time="2025-11-13T13:01:30+01:00" level=warning msg="C:\\\\odoo_docker\\\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Stopping 2/2
✓ Container odoo_app Stopped
✓ Container odoo_db Stopped
PS C:\odoo_docker>

PS C:\odoo_docker> docker compose start
time="2025-11-13T13:02:36+01:00" level=warning msg="C:\\\\odoo_docker\\\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 2/2
✓ Container odoo_db Started
✓ Container odoo_app Started
PS C:\odoo_docker>
```

WEBGRAFÍA :

<https://www.docker.com>

<https://experts-deny-b9a.craft.me/Fc69pEUBfgNQGn>

<https://hub.docker.com>

