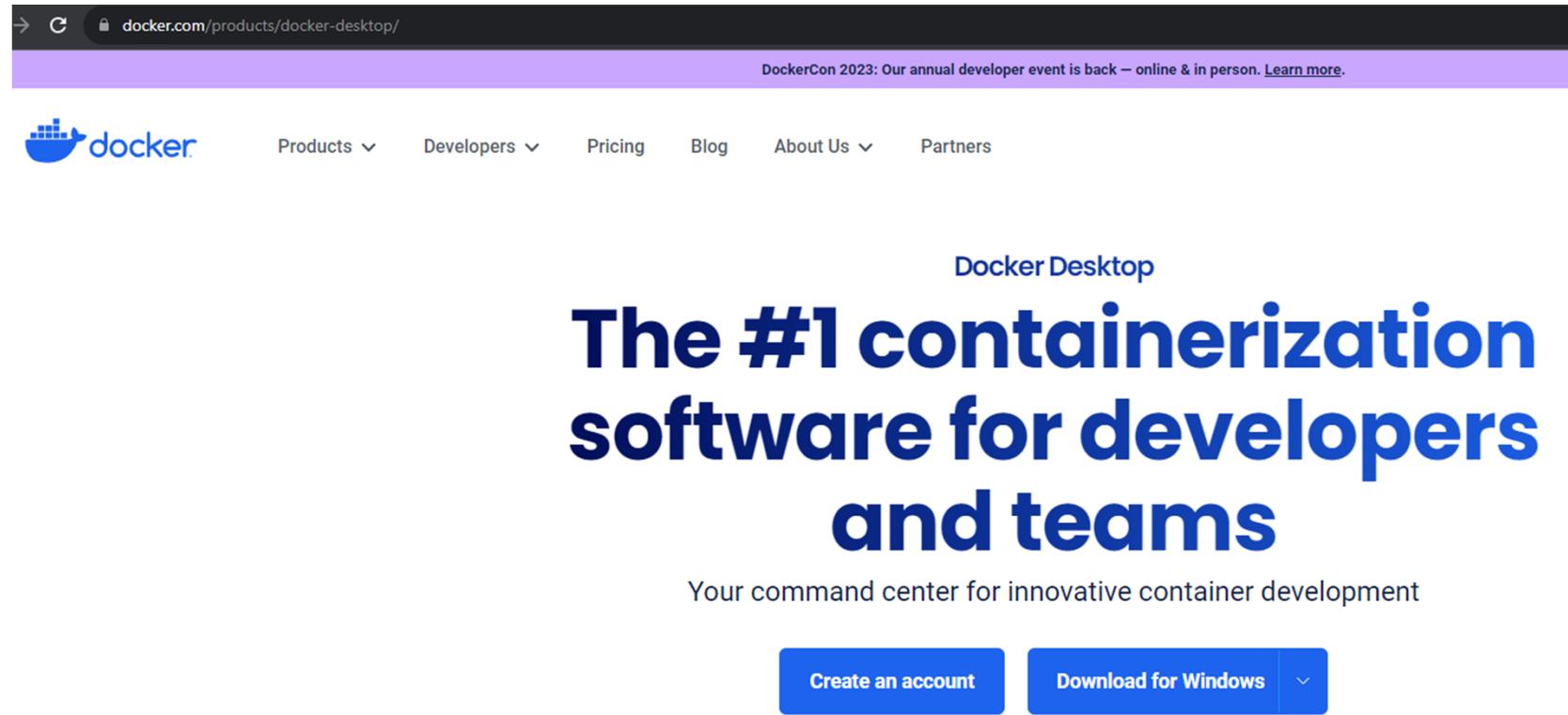


docker®

# Docker Desktop



The screenshot shows the Docker Desktop product page on the official Docker website. At the top, there's a navigation bar with links for Products, Developers, Pricing, Blog, About Us, and Partners. A purple banner at the top of the main content area reads "DockerCon 2023: Our annual developer event is back – online & in person. [Learn more.](#)". The main headline is "Docker Desktop" followed by the tagline "The #1 containerization software for developers and teams". Below that, a sub-tagline says "Your command center for innovative container development". There are two prominent blue buttons at the bottom: "Create an account" and "Download for Windows".

docker.com/products/docker-desktop/

DockerCon 2023: Our annual developer event is back – online & in person. [Learn more.](#)

Products ▾ Developers ▾ Pricing Blog About Us ▾ Partners

Docker Desktop

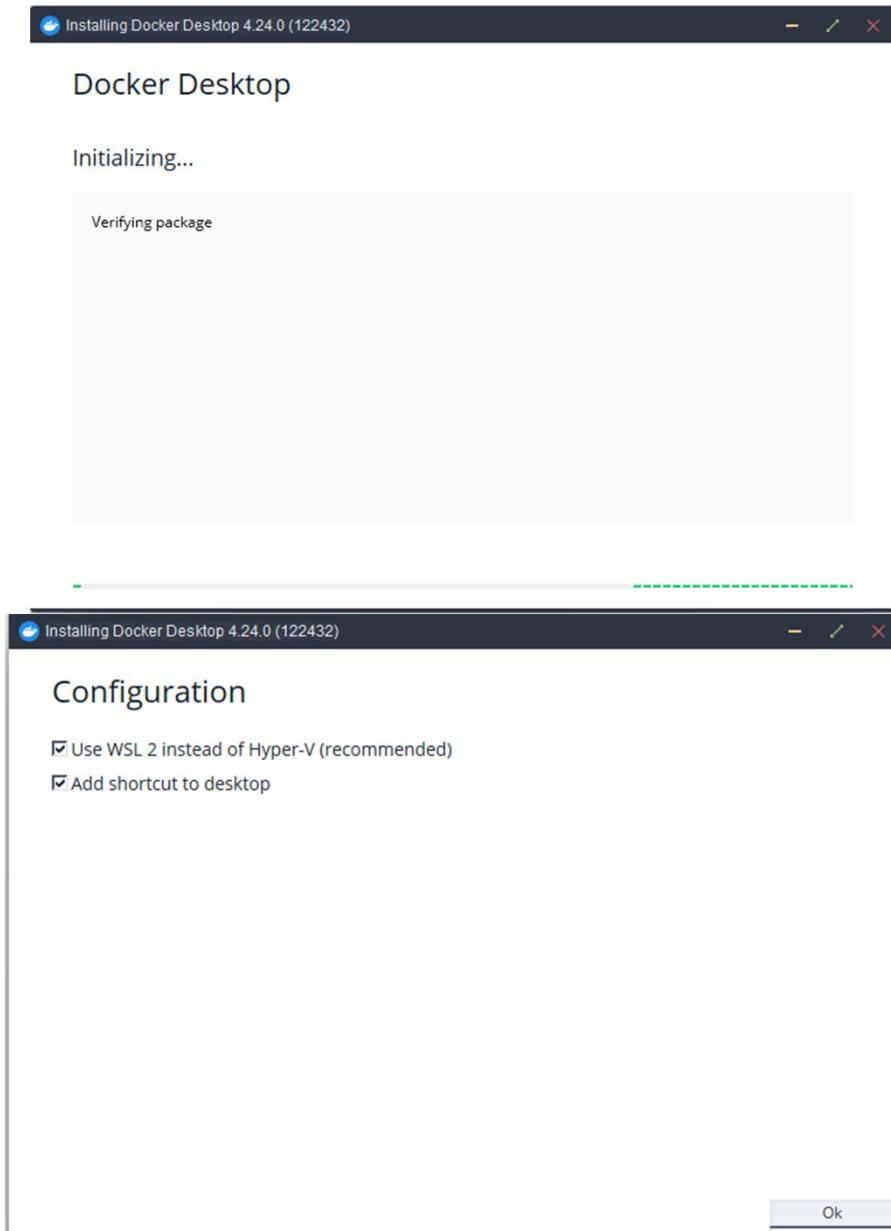
# The #1 containerization software for developers and teams

Your command center for innovative container development

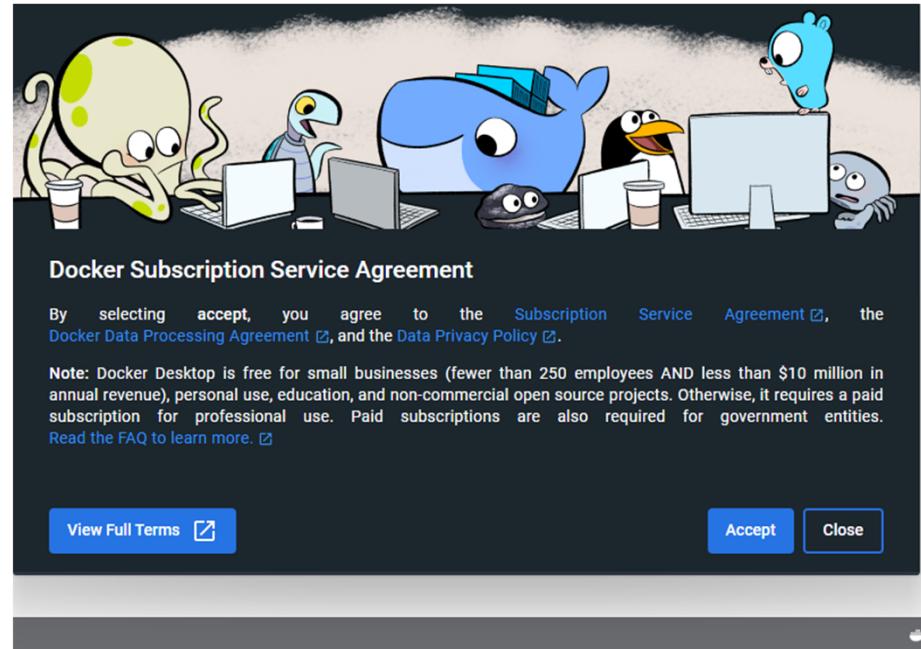
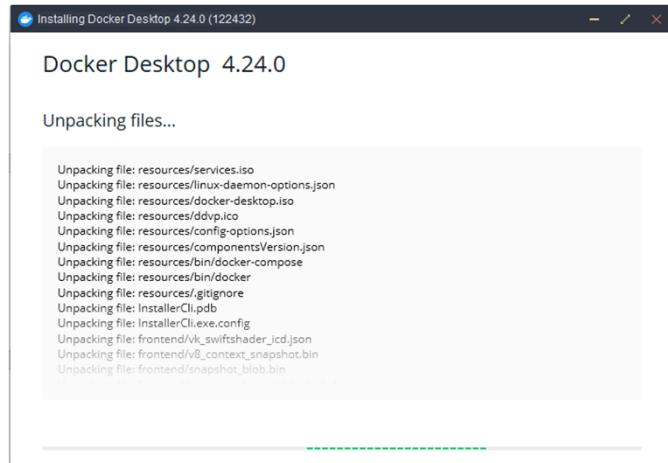
Create an account

Download for Windows ▾

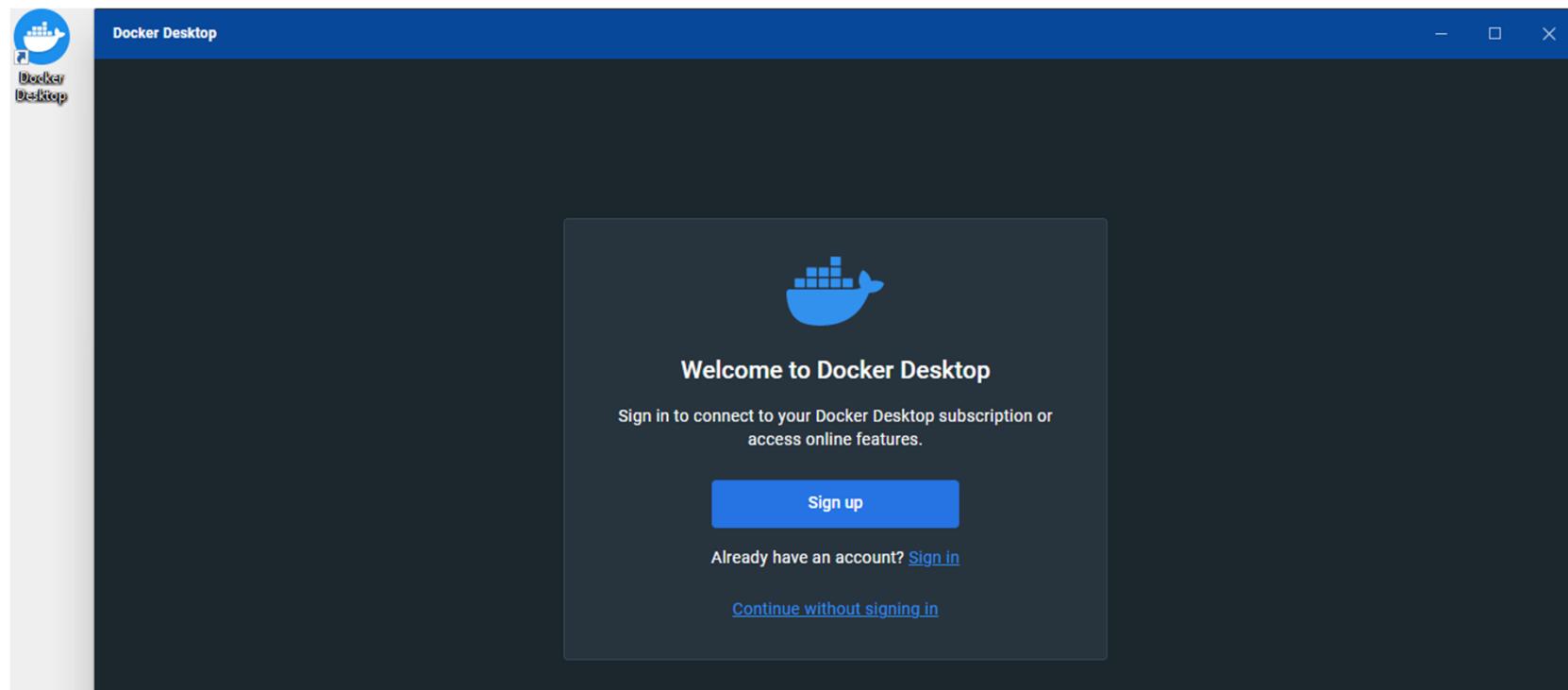
# El instalador



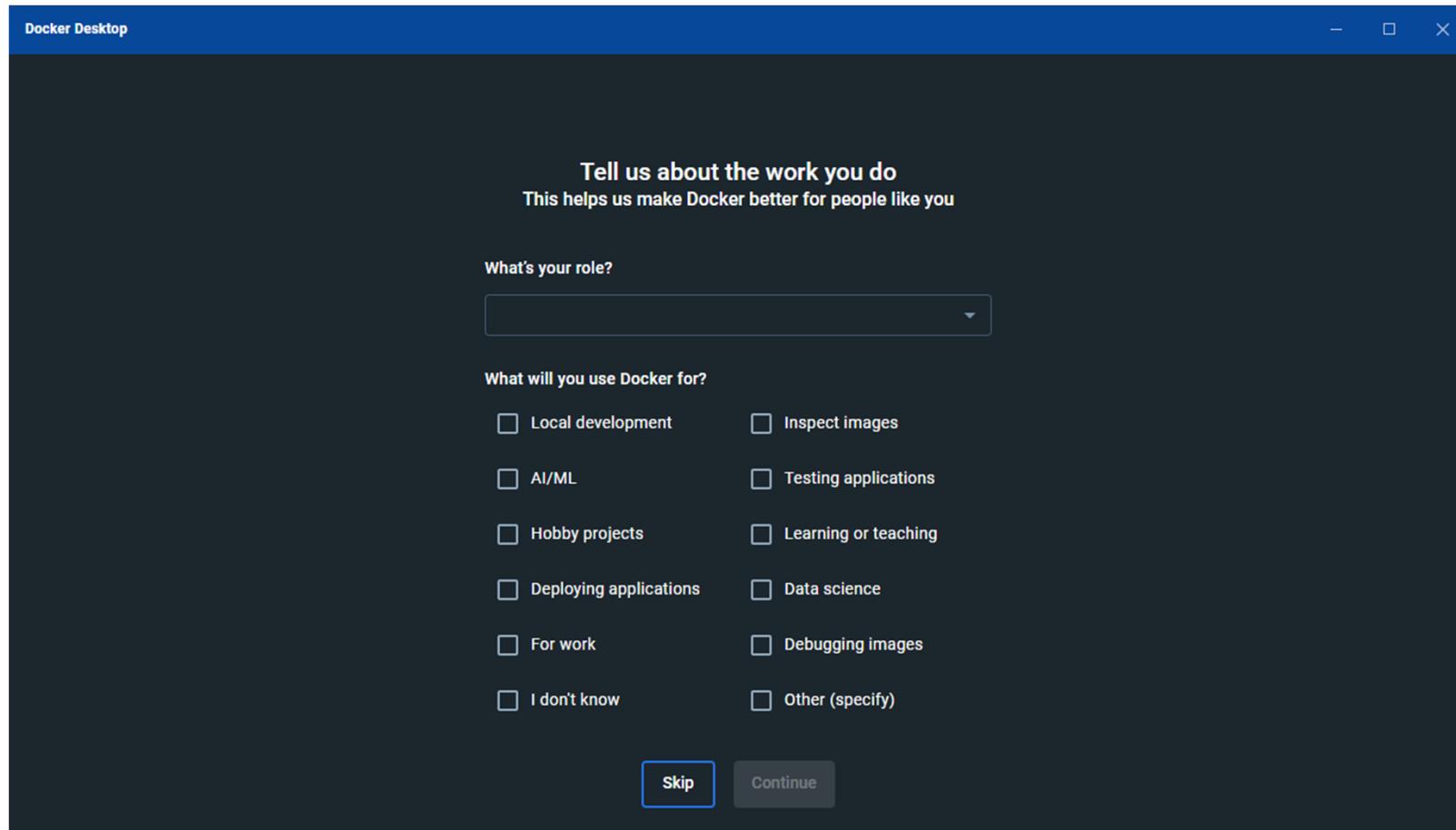
# Instalando ...



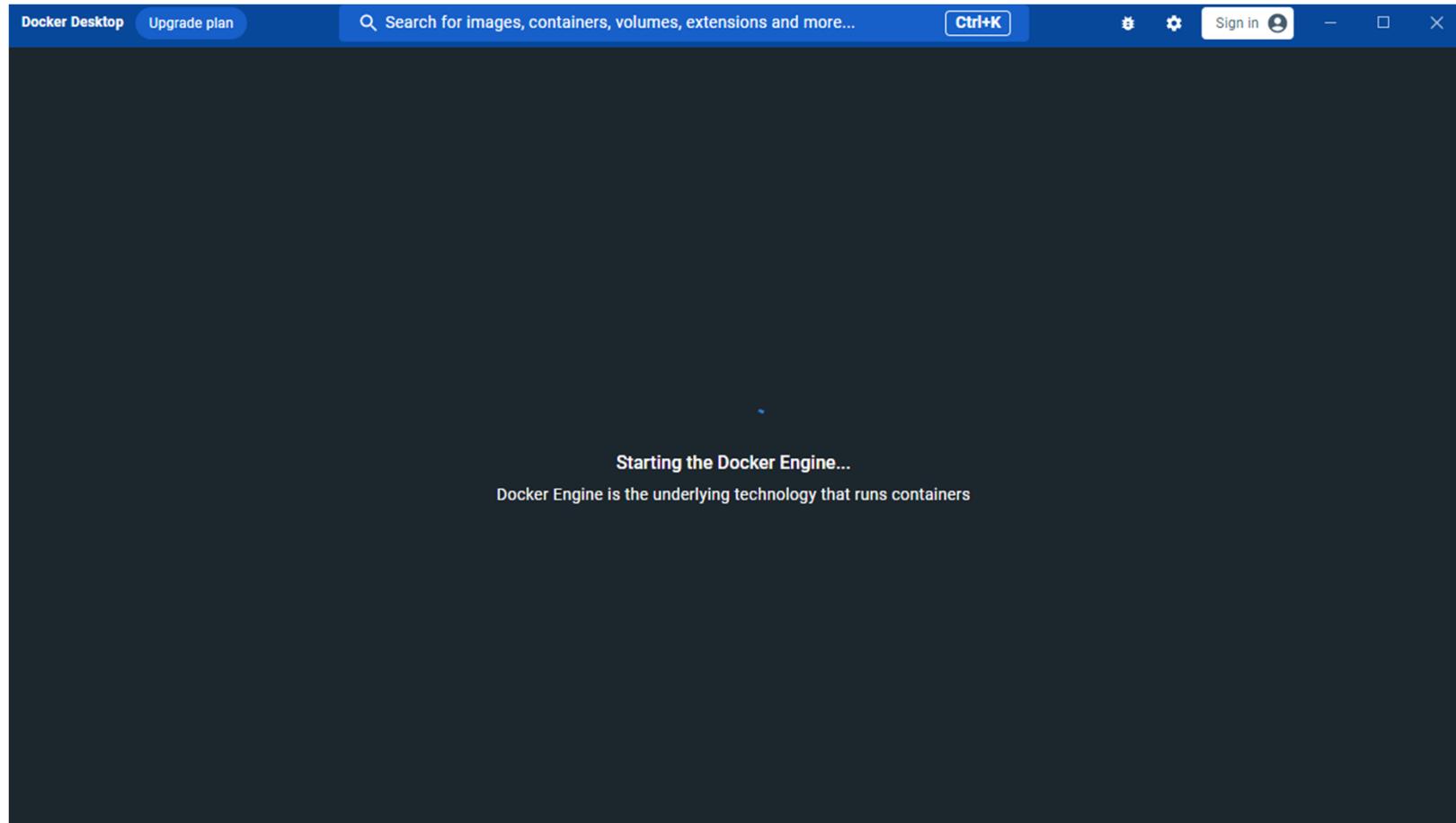
# Instalado ¿?



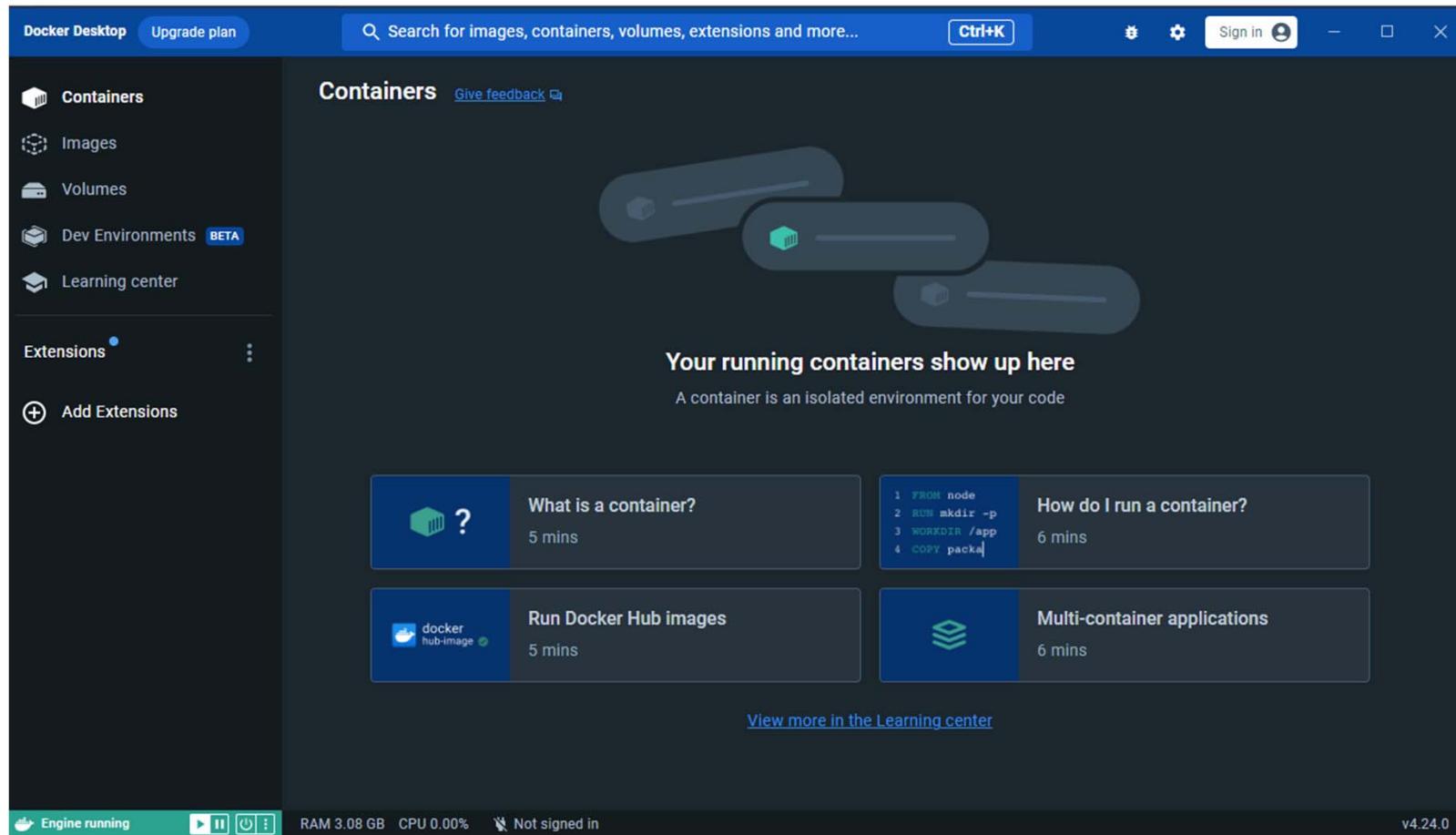
# Más preguntas



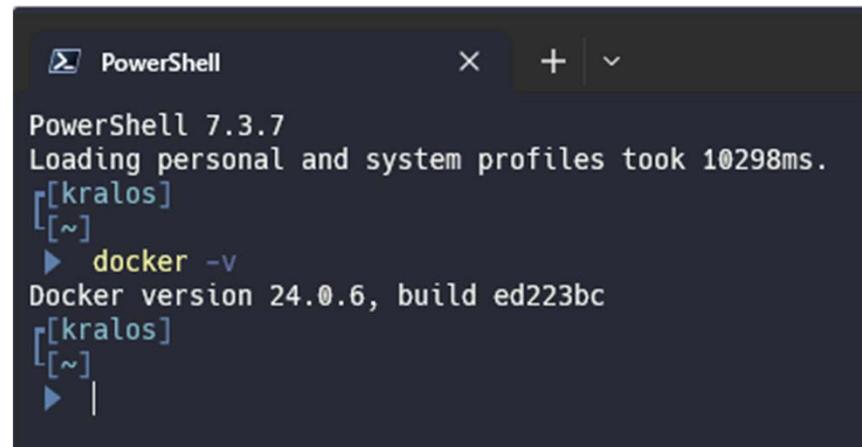
# Ahora parece que ya inicio



# Según ya esta ejecutándose ...

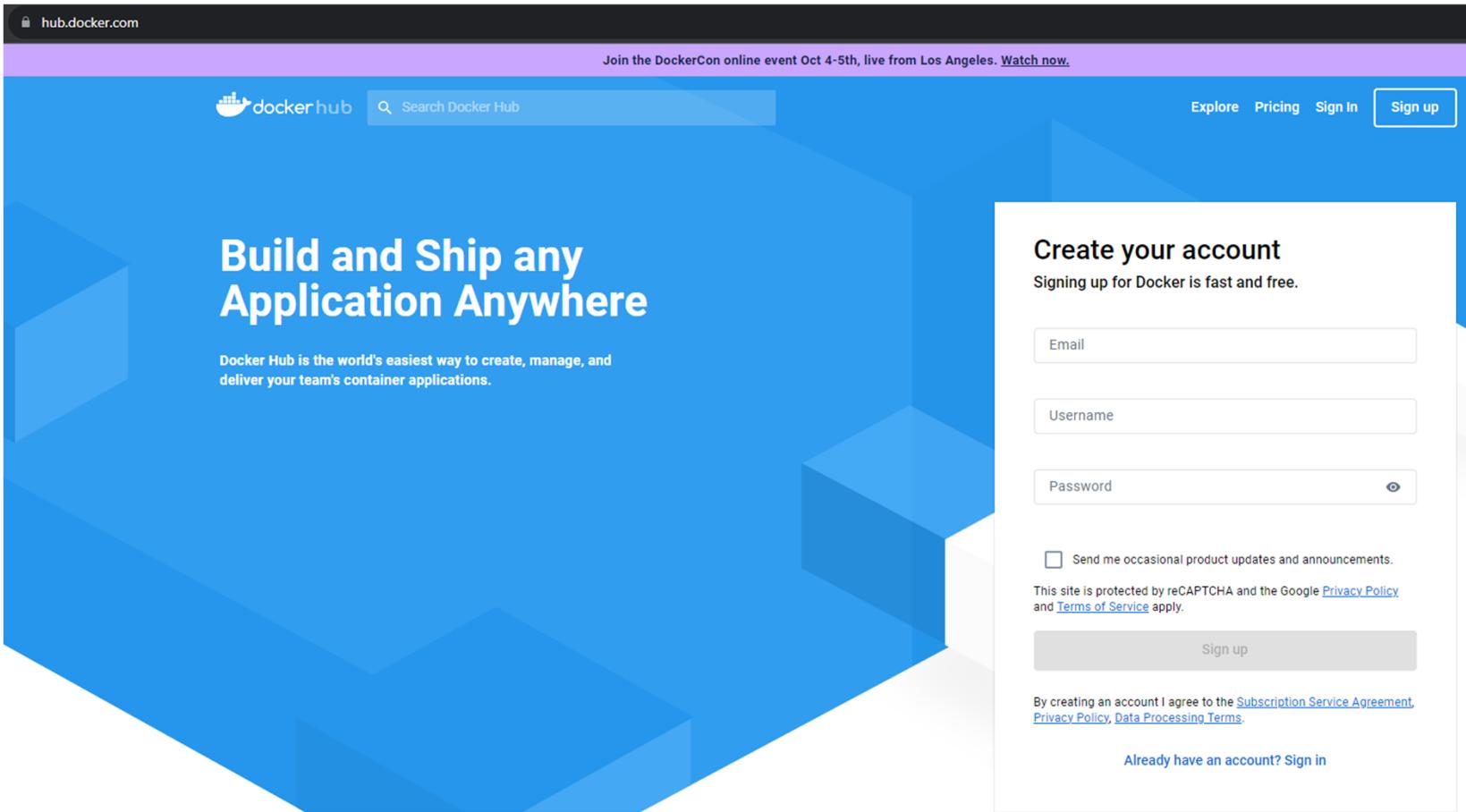


# Verificación de que todo esta bien



```
PowerShell 7.3.7
Loading personal and system profiles took 10298ms.
[kralos]
[~]
▶ docker -v
Docker version 24.0.6, build ed223bc
[kralos]
[~]
▶ |
```

# hub.Docker.com



The screenshot shows the Docker Hub sign-up page at [hub.docker.com](https://hub.docker.com). The top navigation bar includes a lock icon, the URL, a purple banner for DockerCon, the Docker Hub logo, a search bar, and links for Explore, Pricing, Sign In, and Sign up. The main content features a large blue hexagonal graphic with white text: "Build and Ship any Application Anywhere". Below it, a subtext reads: "Docker Hub is the world's easiest way to create, manage, and deliver your team's container applications." To the right is a "Create your account" form with fields for Email, Username, and Password, and a checkbox for product updates. A reCAPTCHA field is present below the password. At the bottom, there are links for "Sign up", "Subscription Service Agreement", "Privacy Policy", "Data Processing Terms", and "Already have an account? Sign in".

Join the DockerCon online event Oct 4-5th, live from Los Angeles. [Watch now.](#)

**hub.docker.com**

**Docker Hub**  Search Docker Hub

Explore Pricing Sign In [Sign up](#)

**Build and Ship any Application Anywhere**

Docker Hub is the world's easiest way to create, manage, and deliver your team's container applications.

**Create your account**

Signing up for Docker is fast and free.

Email

Username

Password

Send me occasional product updates and announcements.

This site is protected by reCAPTCHA and the Google [Privacy Policy](#) and [Terms of Service](#) apply.

[Sign up](#)

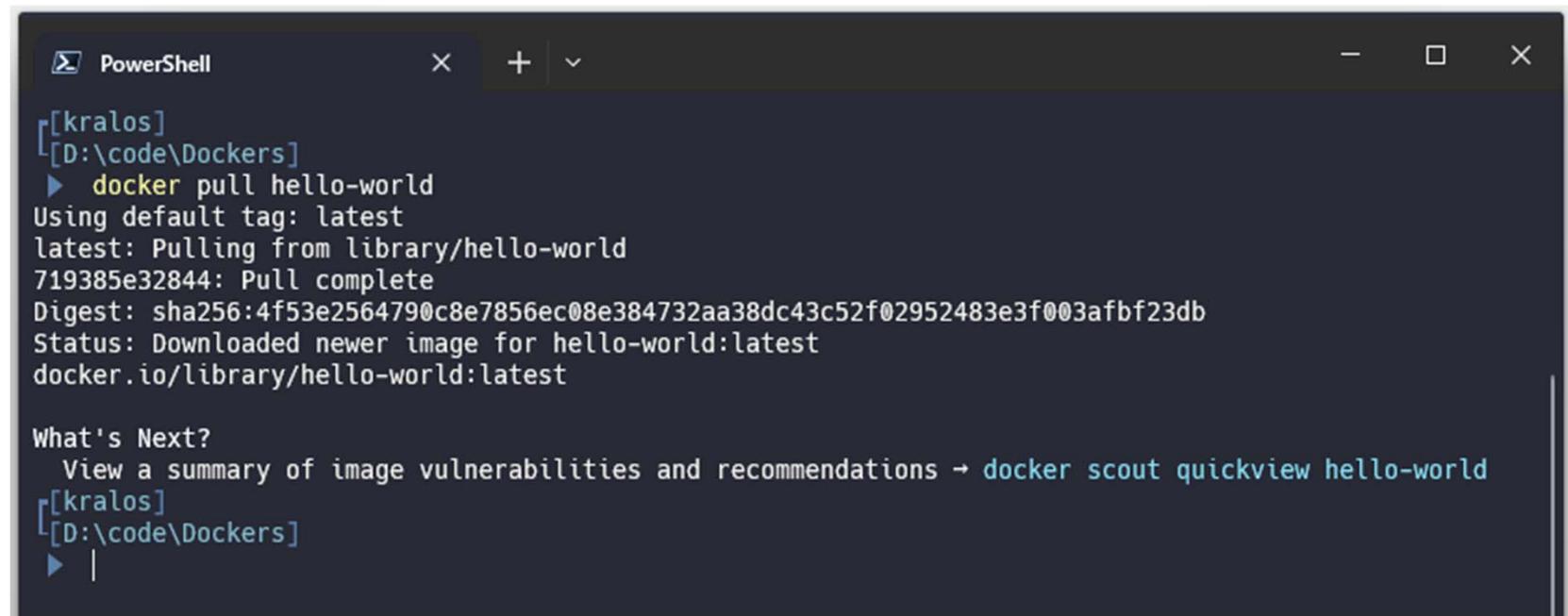
By creating an account I agree to the [Subscription Service Agreement](#), [Privacy Policy](#), [Data Processing Terms](#).

[Already have an account? Sign in](#)

# El hola mundo de docker

The screenshot shows the Docker Hub interface for the 'hello-world' image. At the top, there's a search bar with 'hello-world' and navigation links for 'Explore', 'Official Images', and 'hello-world'. The main content area displays the 'hello-world' image details, including its status as a 'Docker Official Image' with 1B+ pulls and 2.1K stars. It describes the image as 'Hello World! (an example of minimal Dockerization)'. Below this, there are tabs for 'Overview' (which is selected) and 'Tags'. The 'Overview' section contains a 'Quick reference' section with information about maintainers and help resources, and a 'Supported tags and respective Dockerfile links' section. It also includes a note about shared vs simple tags. The 'Tags' section lists several tags: 'linux', 'nanoserver-ltsc2022', and 'nanoserver-1809'. To the right, there's a 'Recent Tags' sidebar with tags like 'nanoserver-ltsc2022', 'nanoserver-1809', 'nanoserver', 'latest', 'linux', 'nanoserver-1803', 'nanoserver-1709', 'nanoserver-sac2016', and 'nanoserver1709'. A large button at the bottom right says 'docker pull hello-world' with a download icon.

# Ahora si, primeros pasos



The screenshot shows a PowerShell window with the title bar "PowerShell". The command entered was "docker pull hello-world". The output indicates that the latest tag is being pulled from the library/hello-world repository, resulting in a digest hash and a status message about a newer image being downloaded. A "What's Next?" section at the bottom suggests viewing image vulnerabilities with "docker scout quickview hello-world".

```
[[kralos]
[D:\code\Dockers]
▶ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
719385e32844: Pull complete
Digest: sha256:4f53e2564790c8e7856ec08e384732aa38dc43c52f02952483e3f003afbf23db
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview hello-world
[[kralos]
[D:\code\Dockers]
▶ |
```

# Por si las flies ...

The screenshot shows the Docker Desktop application interface. The left sidebar has icons for Containers, Images (selected), Volumes, Dev Environments (BETA), Docker Scout, and Learning center. Below that is an 'Extensions' section with 'hello-world' listed. The main area is titled 'Images' with a search bar and tabs for Local, Hub, Artifactory (EARLY ACCESS). It shows 1 image: 'hello-world' (9c7a54a9a43c) with tag 'latest', status 'Unused', created 5 months ago, and size 13.25 KB. The bottom status bar shows 'Engine running', system resources (RAM 3.19 GB, CPU 0.00%), and a note 'Not signed in'. Version v4.24.0 is at the bottom right.

Name	Tag	Status	Created	Size	Actions
hello-world 9c7a54a9a43c	latest	Unused	5 months ago	13.25 KB	More options

Showing 1 item

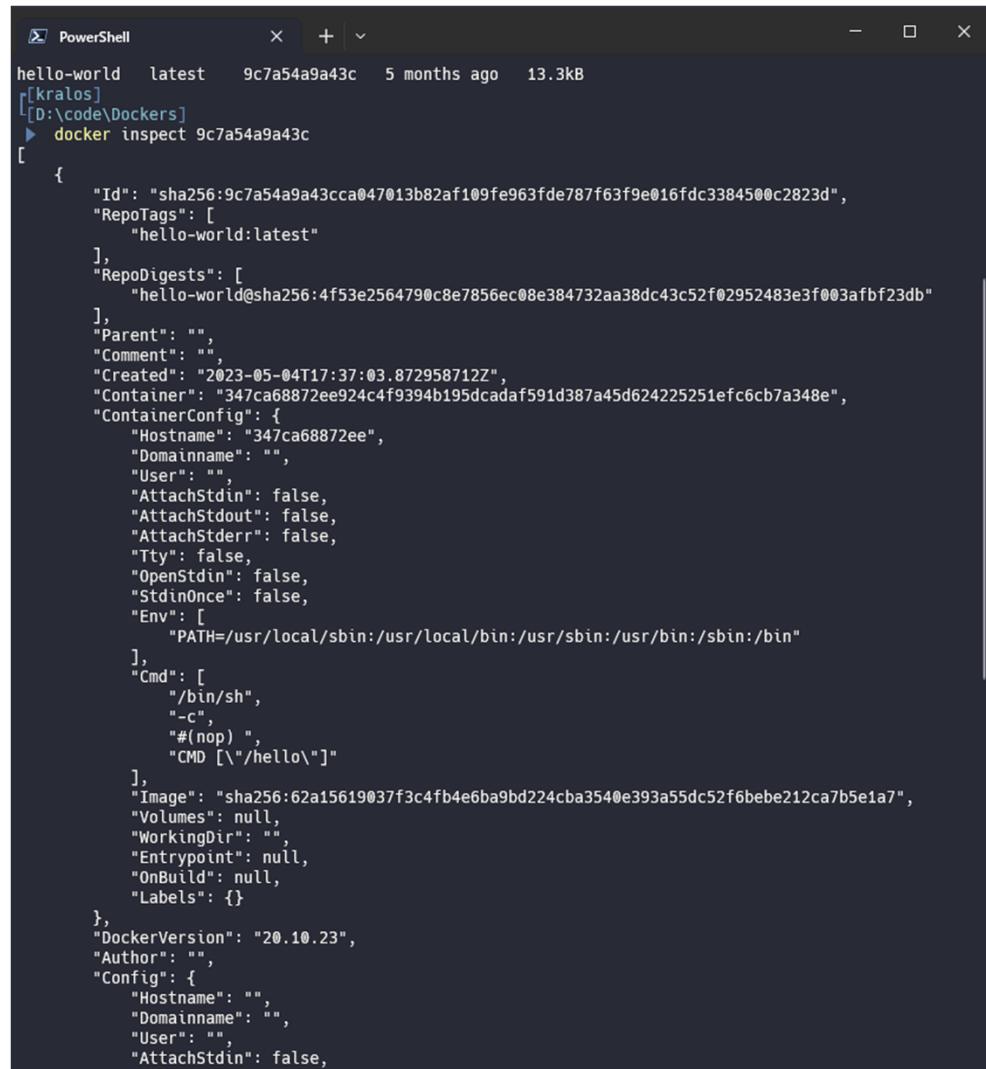
# A pero estamos en CLI ...

```
PowerShell + - X
[kralos]
[D:\code\Dockers]
▶ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
719385e32844: Pull complete
Digest: sha256:4f53e2564790c8e7856ec08e384732aa38dc43c52f02952483e3f003afbf23db
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview hello-world
[kralos]
[D:\code\Dockers]
▶ docker images
REPOSITORY      TAG          IMAGE ID      CREATED        SIZE
hello-world     latest       9c7a54a9a43c   5 months ago   13.3kB
[kralos]
[D:\code\Dockers]
▶ |
```

# Comandos para imágenes docker

Imagenes
<b>docker images</b>
Lista las imágenes almacenadas en el host
<b>docker search imagen</b>
Busca una imagen en el Docker hub
<b>docker inspect id/nombre</b>
Muestra los detalles de una imagen a partir de un id o un nombre
<b>docker pull nombre</b>
Descarga la imagen correspondiente a ese nombre
<b>docker rmi id/nombre</b>
Elimina la imagen correspondiente a ese id o nombre



```
PowerShell
hello-world  latest  9c7a54a9a43c  5 months ago  13.3kB
[kralos]
[D:\code\Dockers]
▶ docker inspect 9c7a54a9a43c
[
  {
    "Id": "sha256:9c7a54a9a43cca047013b82af109fe963fde787f63f9e016fdc3384500c2823d",
    "RepoTags": [
      "hello-world:latest"
    ],
    "RepoDigests": [
      "hello-world@sha256:4f53e2564790c8e7856ec08e384732aa38dc43c52f02952483e3f003afbfb23db"
    ],
    "Parent": "",
    "Comment": "",
    "Created": "2023-05-04T17:37:03.872958712Z",
    "Container": "347ca68872ee924c4f9394b195dcadaf591d387a45d624225251efc6cb7a348e",
    "ContainerConfig": {
      "Hostname": "347ca68872ee",
      "Domainname": "",
      "User": "",
      "AttachStdin": false,
      "AttachStdout": false,
      "AttachStderr": false,
      "Tty": false,
      "OpenStdin": false,
      "StdinOnce": false,
      "Env": [
        "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
      ],
      "Cmd": [
        "/bin/sh",
        "-c",
        "#(nop)",
        "CMD [\"/hello\"]"
      ],
      "Image": "sha256:62a15619037f3c4fb4e6ba9bd224cba3540e393a55dc52f6bebe212ca7b5e1a7",
      "Volumes": null,
      "WorkingDir": "",
      "Entrypoint": null,
      "OnBuild": null,
      "Labels": {}
    },
    "DockerVersion": "20.10.23",
    "Author": "",
    "Config": {
      "Hostname": "",
      "Domainname": "",
      "User": "",
      "AttachStdin": false,
      "Env": [
        "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
      ],
      "Cmd": [
        "/bin/sh",
        "-c",
        "#(nop)",
        "CMD [\"/hello\"]"
      ],
      "Image": "sha256:62a15619037f3c4fb4e6ba9bd224cba3540e393a55dc52f6bebe212ca7b5e1a7",
      "Volumes": null,
      "WorkingDir": "",
      "Entrypoint": null,
      "OnBuild": null,
      "Labels": {}
    }
  }
]
```

# Pull especificando una etiqueta

The screenshot shows the Docker Hub page for the 'hello-world' image. At the top, there's a search bar with the placeholder 'Search Docker Hub'. Below it, the image name 'hello-world' is displayed along with its status as a 'Docker Official Image' with 1B+ pulls and 2.1K stars. A button labeled 'docker pull hello-world' with a copy icon is visible.

The page has tabs for 'Overview' and 'Tags'. The 'Tags' tab is selected, showing a list of available tags: 'latest', 'linux', and several digest tags (e.g., 004d23c66201, efd257c8ea08, 75043f8f1db5). Each tag entry includes the last push date, the user who pushed it, OS/ARCH information, vulnerability status, and compressed size.

Two examples of pull commands are highlighted with callout boxes:

- For the 'latest' tag: `docker pull hello-world:latest` (with a copy icon). A callout box says 'Pull command copied'.
- For the 'linux' tag: `docker pull hello-world:linux` (with a copy icon).

TAG	DIGEST	OS/ARCH	VULNERABILITIES	COMPRESSED SIZE
<a href="#">latest</a>	<a href="#">004d23c66201</a>	linux/386	None found	2.65 KB
	<a href="#">efd257c8ea08</a>	windows/amd64	None found	114.99 MB
	<a href="#">75043f8f1db5</a>	windows/amd64	None found	99.65 MB
<a href="#">linux</a>	<a href="#">004d23c66201</a>	linux/386	None found	2.65 KB
	<a href="#">7e9b6e7ba284</a>	linux/amd64	None found	2.4 KB
	<a href="#">084c3bdd1271</a>	linux/arm/v5	None found	3.57 KB

# Otro hola mundo

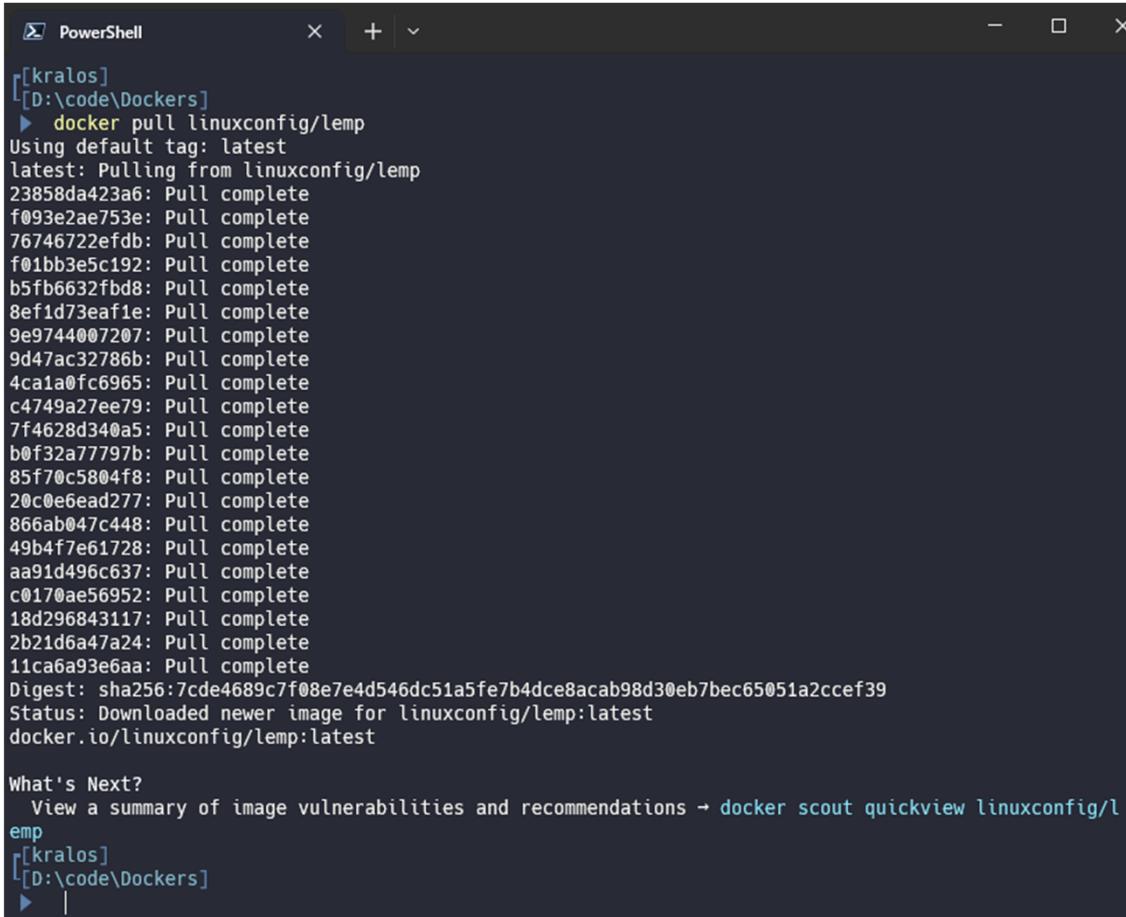
```
[kralos] [D:\code\Dockers]
▶ docker pull hello-world:nanoserver-ltsc2022
nanoserver-ltsc2022: Pulling from library/hello-world
no matching manifest for linux/amd64 in the manifest list entries
[kralos][xERROR]
[D:\code\Dockers]
▶ docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
hello-world     latest   9c7a54a9a43c  5 months ago  13.3kB
linuxconfig/lEMP latest   670ff9140a94  12 months ago 1.05GB
[kralos]
[D:\code\Dockers]
▶ docker pull hello-world:linux
linux: Pulling from library/hello-world
Digest: sha256:726023f73a8fc5103fa6776d48090539042cb822531c6b751b1f6dd18cb5705d
Status: Downloaded newer image for hello-world:linux
docker.io/library/hello-world:linux

What's Next?
 1. Sign in to your Docker account → docker login
 2. View a summary of image vulnerabilities and recommendations → docker scout quickview hello-wor
d:linux
[kralos]
[D:\code\Dockers]
▶ docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
hello-world     latest   9c7a54a9a43c  5 months ago  13.3kB
hello-world     linux    9c7a54a9a43c  5 months ago  13.3kB
linuxconfig/lEMP latest   670ff9140a94  12 months ago 1.05GB
[kralos]
[D:\code\Dockers]
▶ |
```

# A descargar imágenes

The screenshot shows the Docker Hub interface for the `linuxconfig/lemp` repository. At the top, there's a blue header bar with the Docker Hub logo, a search bar containing `lemp`, and navigation links for `Explore`, `Pricing`, `Sign In`, and `Sign up`. Below the header, the breadcrumb navigation shows `Explore > linuxconfig/lemp`. The main content area features a large image of a blue cube icon, the repository name `linuxconfig/lemp` with a star icon, the creator `By linuxconfig`, and the last update time `Updated a year ago`. A brief description states `Stable build LEMP stack environment for fast application deployments`. There's also a `Image` button. On the right side, there's a download icon and the text `Pulls 6.4K`. Below this, there are two tabs: `Overview` (which is selected) and `Tags`. The `Overview` section contains a heading **LEMP Stack**, a link to the source at <https://linuxconfig.org>, and a description of the image's purpose as a testing environment for dynamic PHP applications. It lists the components: Debian Linux 11, Nginx 1.18.0, MariaDB 10.5.15-MariaDB, and PHP 7.4.30. The `Docker Pull Command` is shown as `docker pull linuxconfig/lemp` with a copy icon. The `Source Repository` section links to Bitbucket with the URL `linuxconfig/lemp`.

# Se tardo creo ... no vi :S



A screenshot of a PowerShell window titled "PowerShell". The command entered is "docker pull linuxconfig/lEMP". The output shows the Docker daemon pulling the "latest" tag from the "linuxconfig/lEMP" repository. It lists numerous intermediate image IDs as they are pulled, followed by the final digest and status message. At the bottom, there is a "What's Next?" section with a link to "docker scout quickview linuxconfig/lEMP". The window has standard operating system window controls at the top.

```
[kralos] [[D:\code\Dockers]] ► docker pull linuxconfig/lEMP
Using default tag: latest
latest: Pulling from linuxconfig/lEMP
23858da423a6: Pull complete
f093e2ae753e: Pull complete
76746722efdb: Pull complete
f01bb3e5c192: Pull complete
b5fb6632fdb8: Pull complete
8ef1d73eaf1e: Pull complete
9e9744007207: Pull complete
9d47ac32786b: Pull complete
4ca1a0fc6965: Pull complete
c4749a27ee79: Pull complete
7f4628d340a5: Pull complete
b0f32a77797b: Pull complete
85f70c5804f8: Pull complete
20c0e6ead277: Pull complete
866ab047c448: Pull complete
49b4f7e61728: Pull complete
aa91d496c637: Pull complete
c0170ae56952: Pull complete
18d296843117: Pull complete
2b21d6a47a24: Pull complete
11ca6a93e6aa: Pull complete
Digest: sha256:7cde4689c7f08e7e4d546dc51a5fe7b4dce8acob98d30eb7bec65051a2cceef39
Status: Downloaded newer image for linuxconfig/lEMP:latest
docker.io/linuxconfig/lEMP:latest

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview linuxconfig/lEMP
[[kralos]] [[D:\code\Dockers]] ► |
```

# Comandos para contenedores

## Contenedores

**docker create -it --name nombre imagen**

Crea un contenedor denominado name a partir de imagen

**docker start nombre**

Arranca el contenedor denominado nombre

**docker stop nombre**

Para el contenedor denominado nombre

**docker restart nombre**

Rearranca el contenedor denominado nombre

**docker rm nombre**

Elimina el contenedor denominado nombre

**docker ps -a**

Lista todos los contenedores en ejecución (-a incluye los parados)

**docker run -it imagen comando**

Arranca y ejecuta el comando en un contenedor de esa imagen en modo interactivo

**docker exec -it nombre comando**

Ejecuta el comando en el contenedor nombre

**docker run -d**

Arranca el contenedor en modo daemon

**docker run -P**

Arranca el contenedor y expone los puertos del contenedor en puertos aleatorios del host

**docker run -p**

**puerto\_host:puerto\_contenedor**

Arranca el contenedor y expone el puerto\_contenedor en el puerto\_host

**docker run -v**

**directorio\_host:directorio\_contenedor**

Asigna el directorio\_host para mapearlo en el directorio\_contenedor

**docker run --hostname nombre\_host**

Arranca el contenedor y asigna nombre\_host al contenedor

**docker run --net=mired**

Arranca el contenedor y lo asigna en la red denominada mired

# “Crear” un contenedor

```
Σ PowerShell × + ▾ — □ ×
[[kralos]
[D:\code\Dockers]
▶ docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
hello-world     latest   9c7a54a9a43c  5 months ago  13.3kB
hello-world     linux    9c7a54a9a43c  5 months ago  13.3kB
linuxconfig/lEMP  latest   670ff9140a94  12 months ago  1.05GB
[[kralos]
[D:\code\Dockers]
▶ docker create hello-world
2bc45d52863bfde33bc68c0caf3a33b479de42e3bc2d9ddd9575bb57afc9f812
[[kralos]
[D:\code\Dockers]
▶ docker ps -a
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
2bc45d52863b      hello-world      "/hello"    36 seconds ago      Created      gifted_matsumoto
[[kralos]
[D:\code\Dockers]
▶ |
```

# Ejecutando un contenedor ..

```
PowerShell          X + | ▾
[kralos]
[D:\code\Dockers]
▶ docker run hello-world

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/

[kralos]
[D:\code\Dockers]
▶ |
```



# Referencias

- *Comandos más usados en Docker.* (n.d.). Tutoriales.online. Retrieved October 4, 2023, from <https://tutoriales.online/chuletas/docker>
- *Docker.* (n.d.). Docker.com. Retrieved October 4, 2023, from <https://hub.docker.com/>
- *Docker.* (n.d.). Docker.com. Retrieved October 4, 2023, from <https://hub.docker.com/>
-