

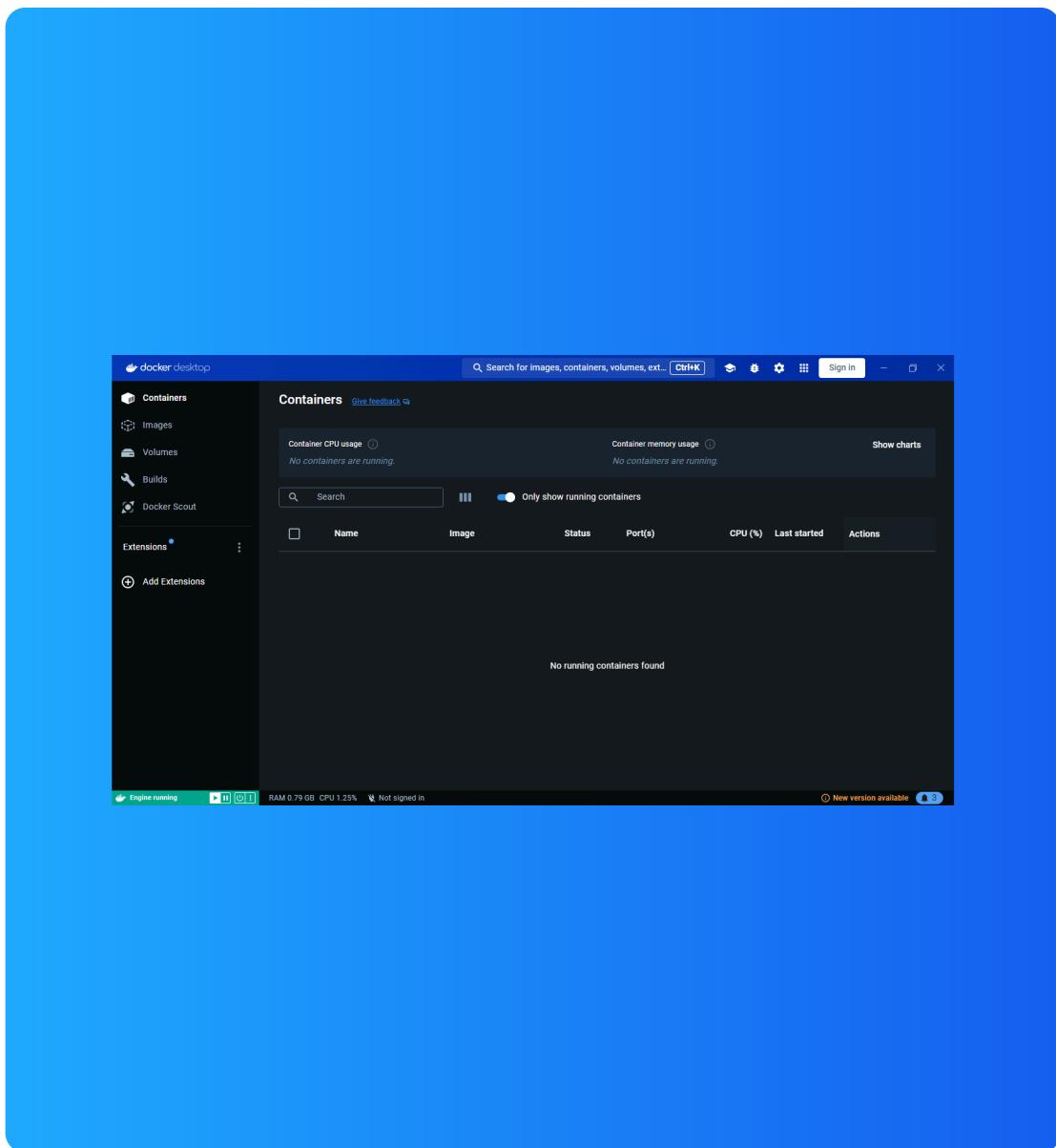


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Containers on Elastic Beanstalk



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Introducing Today's Project!

What is Docker?

Docker is a platform for building, deploying, and managing. I used it today to manage and create containers and deploy it in the cloud.

One thing I didn't expect...

One thing I didnt expect is how easy is to deploy to work with Docker with AWS Elastic Beanstalk.

This project took me...

I took around 2 hours experimenting with this project.

Understanding Containers and Docker

Containers

Containers package up your application and everything it needs to run (i.e. dependencies) in one file.

A container image is a blueprint or template for containers. It gives Docker instructions on what to include in a container.

Docker

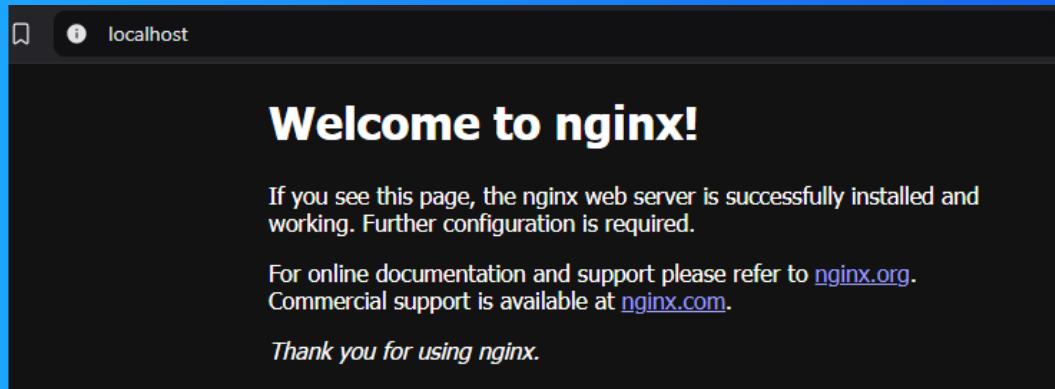
Docker is a platform for building, deploying, and managing. Docker Desktop is a program that makes it easy to work with Docker, a tool for creating and managing containers. Engineers use Docker Desktop to build, test, and deploy applications.

The Docker daemon is the engine that actually does the thing when you run Docker commands e.g. create a container.

Running an Nginx Image

Nginx is a web server which means it's a program that serves web pages to people on the internet.

The command I ran to start a new container was: docker run -d -p 80:80 nginx

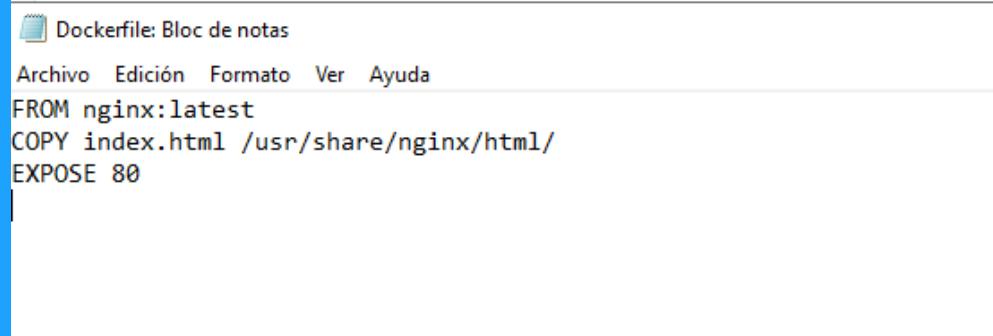


Creating a Custom Image

The Dockerfile is a document with all the instructions for building your Docker image.

My Dockerfile tells Docker three things: The first thing is that our image is the latest version. The second thing is that we replace the default html file by a customized. The last one is to receive web traffic through port 80.

The command I used to build a custom image with my Dockerfile was: docker build -t my-web-app . The '.' at the end of the command means Docker to find the Dockerfile in the current directory i.e. the Compute folder.

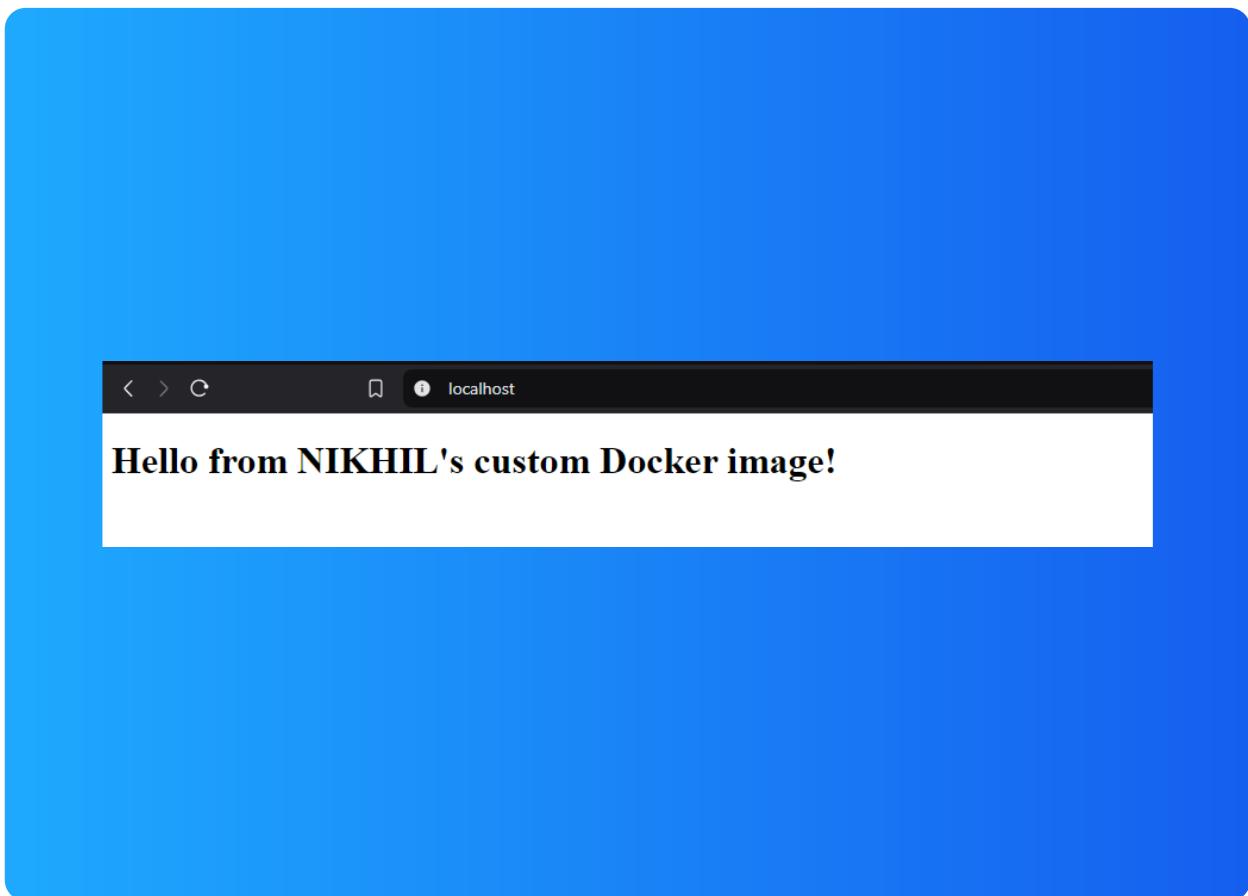


```
Dockerfile: Bloc de notas
Archivo Edición Formato Ver Ayuda
FROM nginx:latest
COPY index.html /usr/share/nginx/html/
EXPOSE 80
```

Running My Custom Image

There was an error when I ran my custom image because the previous container was running with the same port we are using for this new container. I resolved this by stopping the old container.

In this example, the container image is the blueprint that tells Docker the application code, dependencies, libraries etc that should go into a container. The container is the actual software that's created from this image and running the web server.



Elastic Beanstalk

Elastic Beanstalk is a service that makes it easy to deploy cloud applications without worrying about the underlying infrastructure.

Deploying my custom image with Elastic Beanstalk took me 30 minutes.

Hello from NextWork's custom Docker image!

If I can see this, it means Elastic Beanstalk has deployed an image with my work.



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