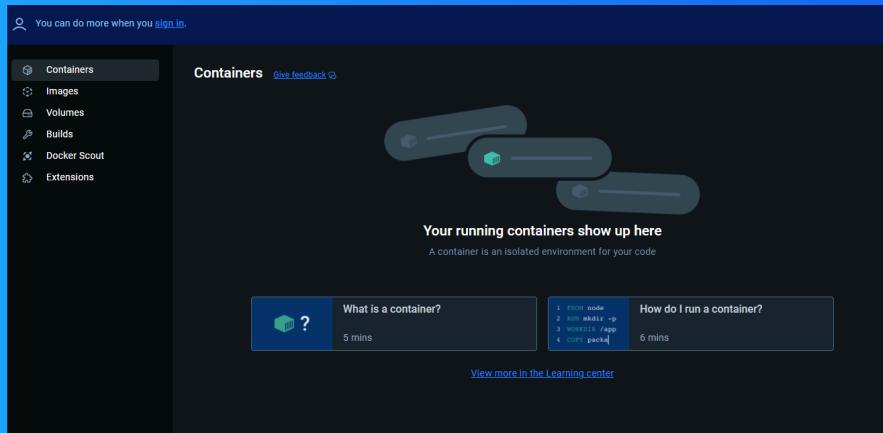




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Containers on Elastic Beanstalk

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Introducing Today's Project!

What is Docker?

Docker packages applications into portable containers, while AWS Elastic Beanstalk deploys and manages these containers, handling infrastructure, scaling, and load balancing automatically. Together, they streamline deployment and ensure consistent ap

One thing I didn't expect...

Quite time saving using AWS Elastic Beanstalk

This project took me...

2 hours



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Understanding Containers and Docker

Containers

Containers are bundles your application along with all the necessary dependencies it needs to run in a single package

A container image is a package that acts as a blueprint, allowing Docker to create containers that run the application in a consistent and isolated environment, no matter where it's deployed.

Docker

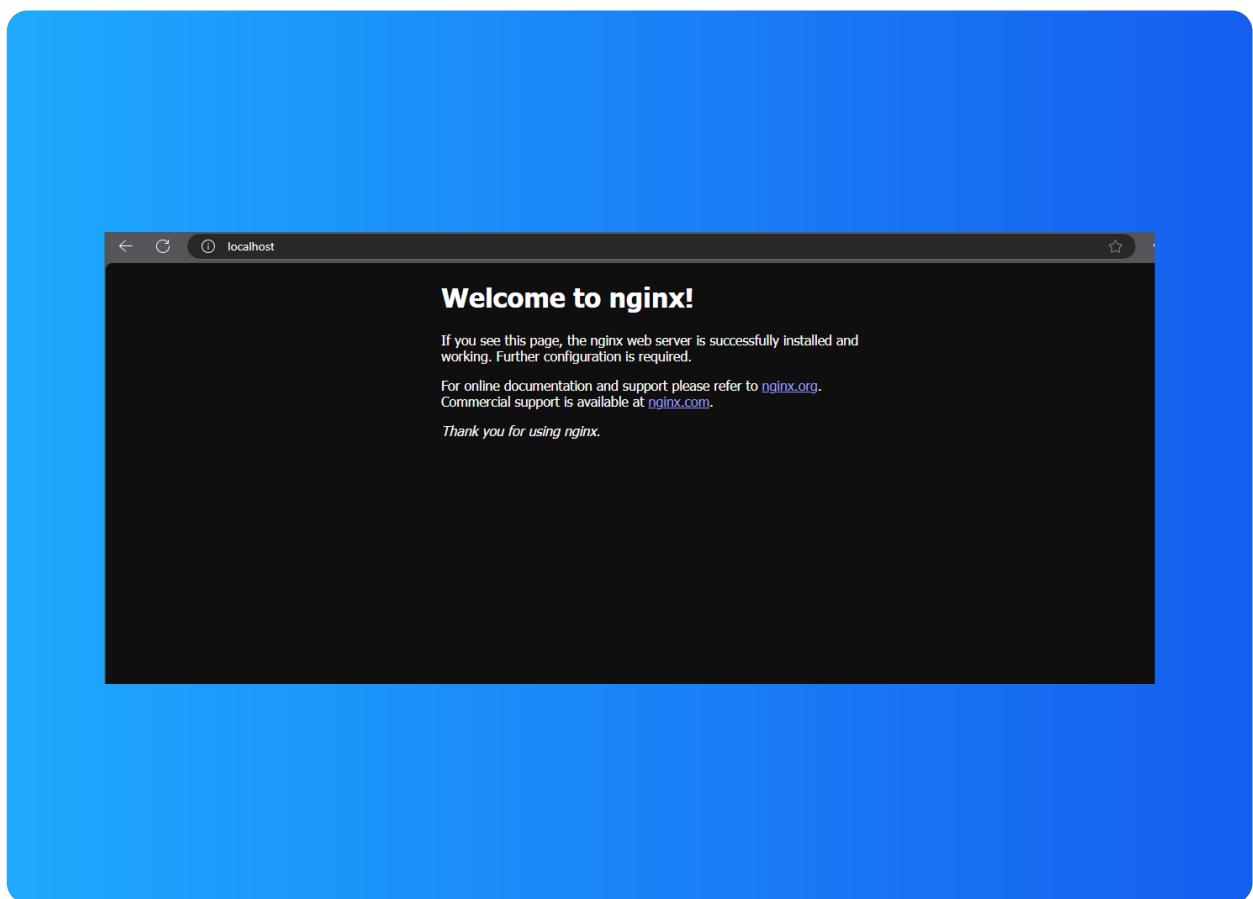
Docker is a tool that lets you package an application with everything it needs to run, so it works the same anywhere. This packaged version is called a container. Docker Desktop is a user-friendly application for your computer (Windows or Mac) that

The Docker Daemon is a background process that manages the Docker containers on your computer

Running an Nginx Image

Nginx is a web server that handles lots of web traffic and load .It also acts as a pre built container image in docker.

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

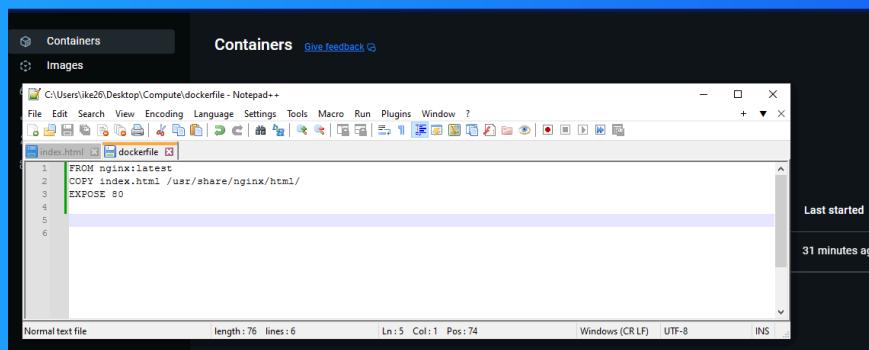


Creating a Custom Image

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

My Dockerfile tells Docker three things : sets the base image for the Docker container to the latest version of Nginx, web server. : copies the index.html file from your directory into the specified : indicates that the container listens on port 80

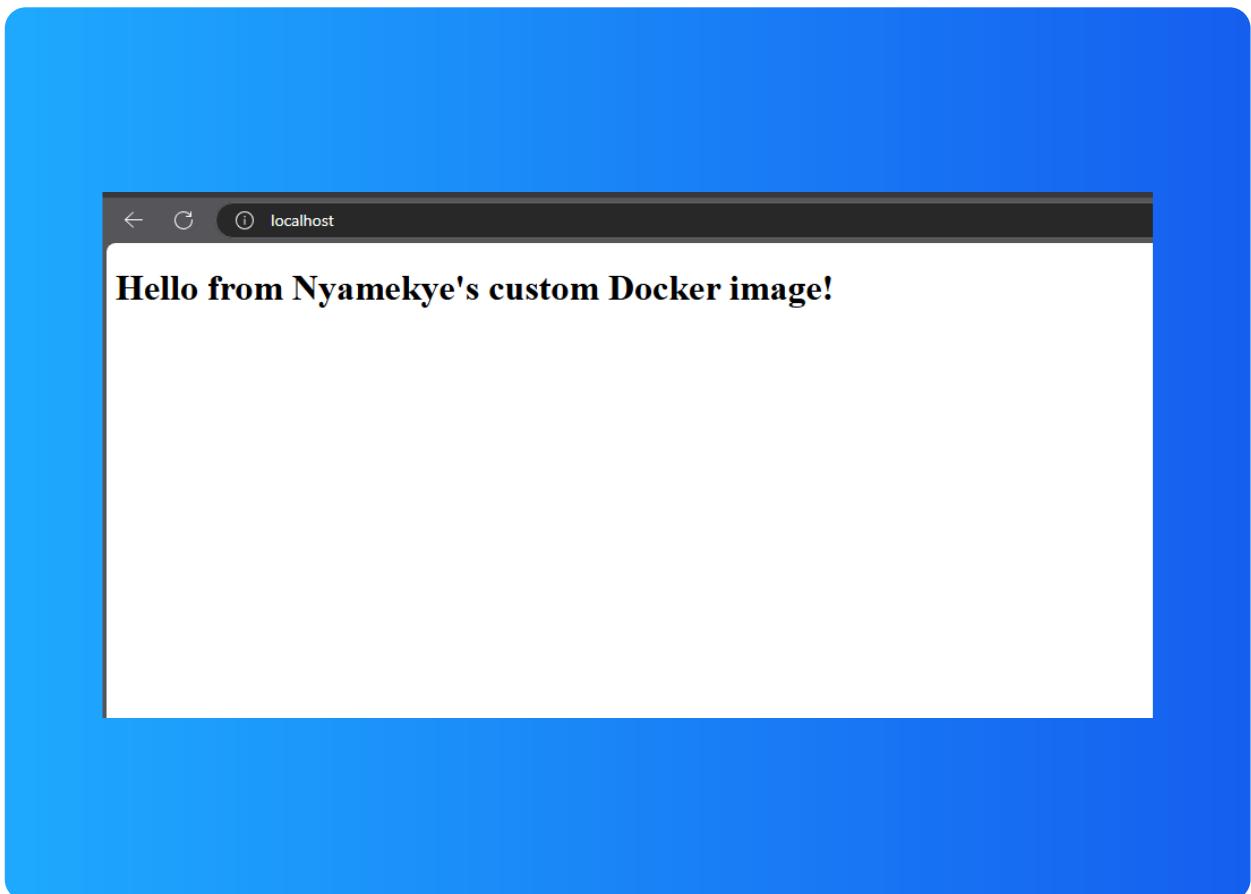
The command I used to build a custom image with my Dockerfile was docker build -t my-web-app . The '!' at the end of the command means the Docker daemon should find the Dockerfile in the current directory i.e. the Compute folder.



Running My Custom Image

This error comes up when I ran my custom image because there was already a container using port 80, so the new container I was creating couldn't access it. I resolved this by stopping that container in the docker desktop User Interface

In this example, the container image nginx is... the container is my web app





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Elastic Beanstalk

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

7minutes

Hello from Nyamekye's custom Docker image!

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



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