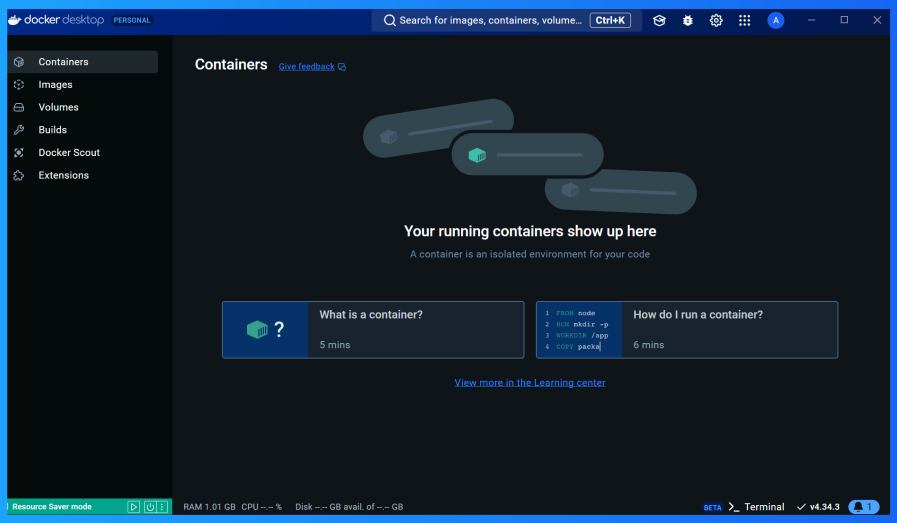
NextWork.org

Containers on Elastic Beanstalk

Andy Prempeh



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Introducing Today's Project!

What is Docker?

Docker is a platform that helps you create container images for your applications so it can run on the webserver.

One thing I didn't expect...

It took more time than I had anticipated.

This project took me...

it took some time.

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Understanding Containers and Docker

Containers

Containers are used to share applications to other users in a every efficient manner. They are useful because they help run all kinds of application on different computers.

A container image is a template that helps you create containers.

Docker

Docker is a platform for creating and managing containers. Docker Desktop is a desktop platform that used to create and manage containers.

The Docker daemon is a the process that manages the Docker containers on your computer.

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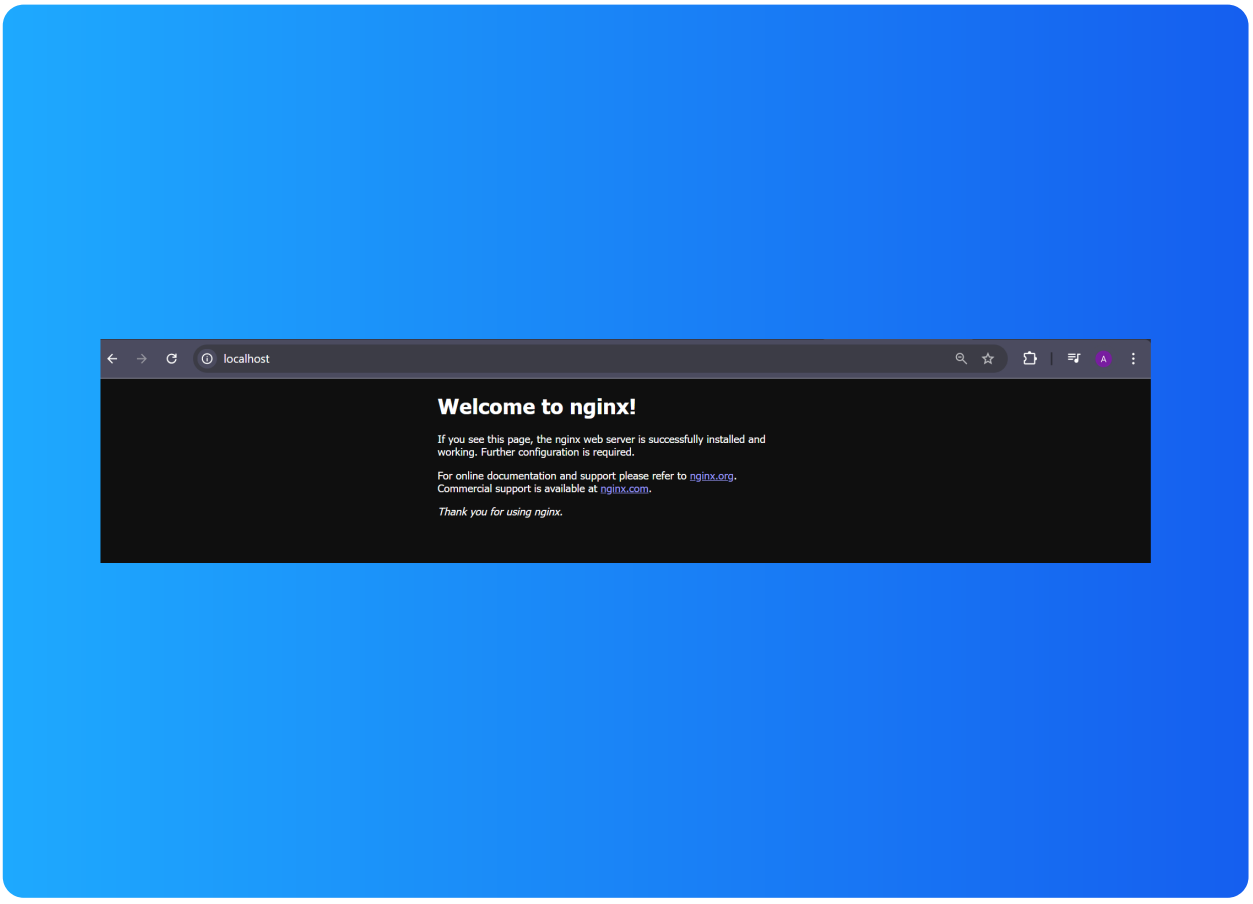
Running an Nginx Image

Nginx is a web server 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



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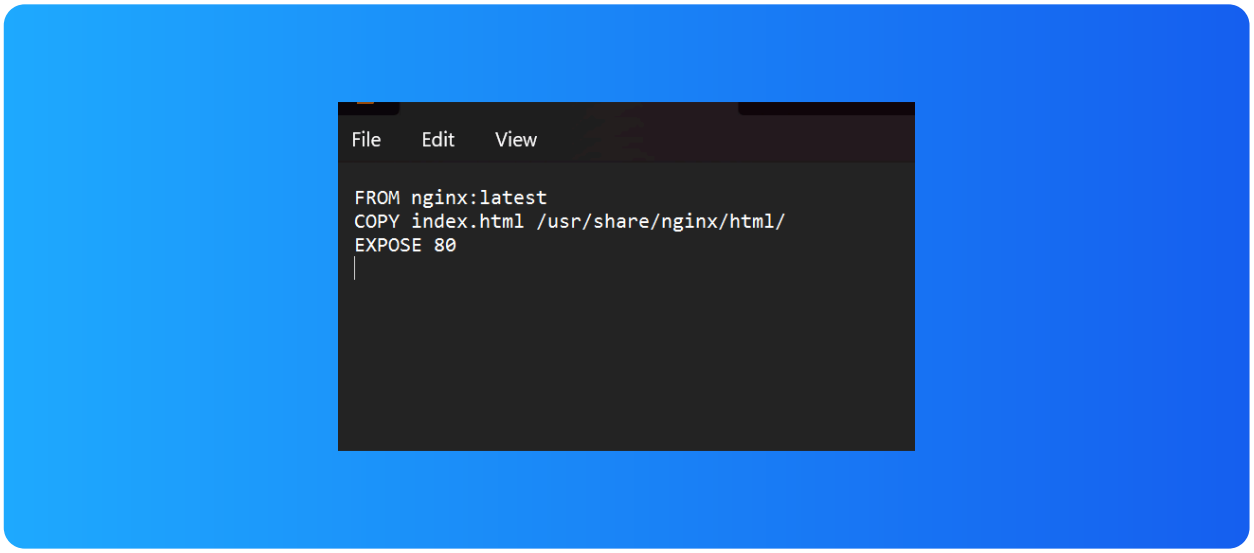
Creating a Custom Image

The Dockerfile is a file with all the instructions about creation of of a container image.

My Dockerfile tells Docker three things and they are how to set up your application's environment and which software packages it software packages it should install.

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 tells Docker to find the Dockerfile in the current directory.



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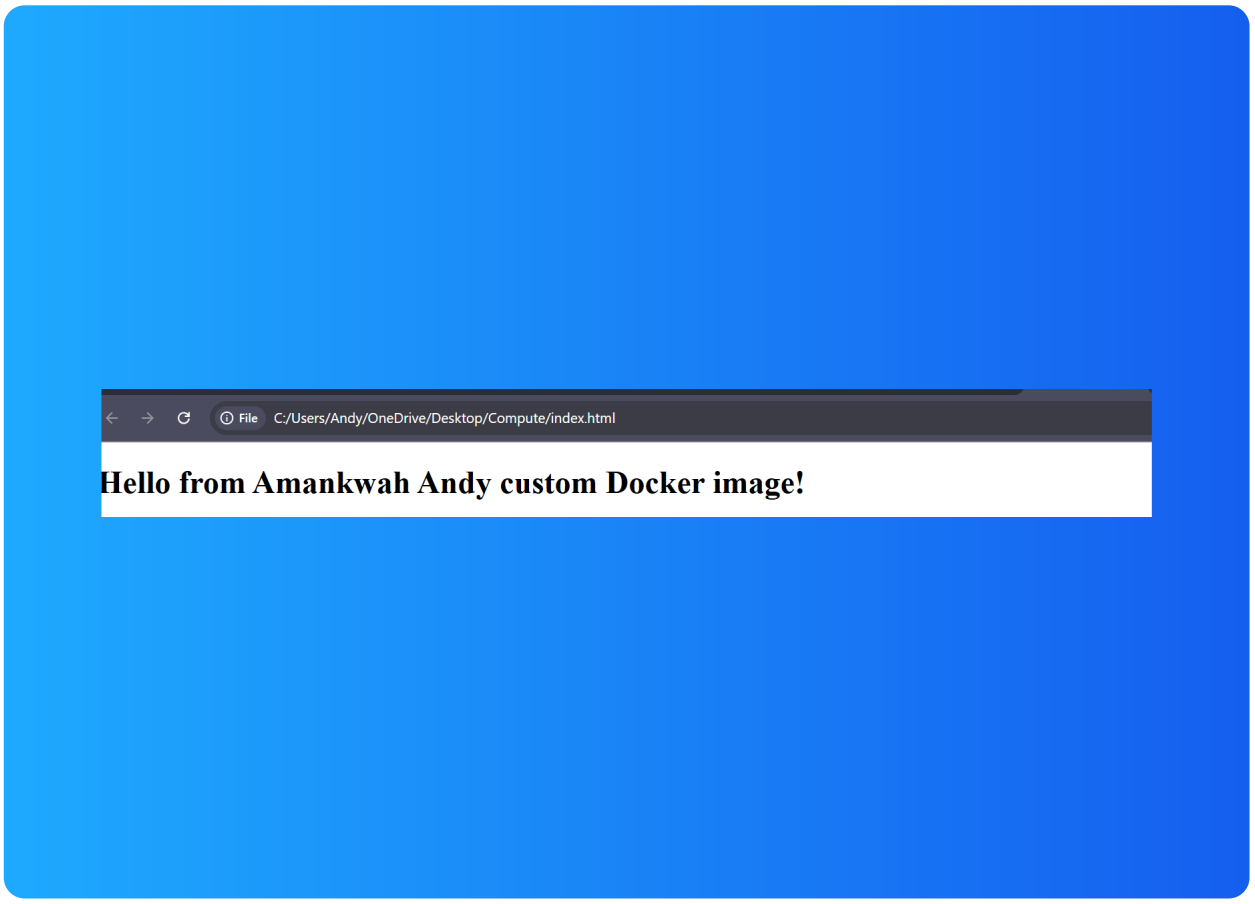
Running My Custom Image

There was an error when I ran my custom image because the first web server that was created was still up and running therby blocking the new container image. I resolved this by stopped the old old container image.

In this example, the container image is index.html the container is Compute.



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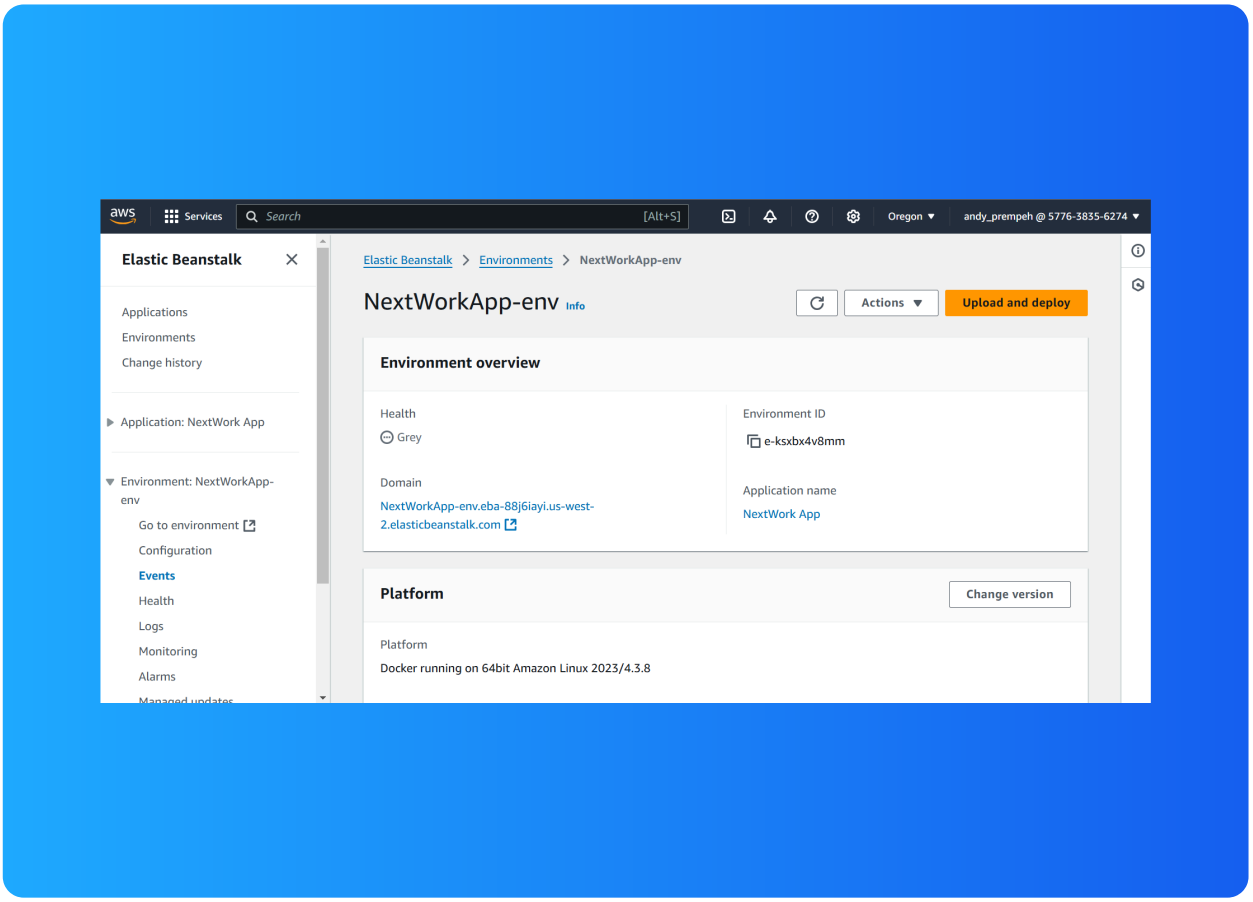
Elastic Beanstalk

Elastic Beanstalk is 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 2hours 50minutes



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