Microservice Docker Assignment

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Graphical user interface, application, Teams

Description automatically generatedI installed docker onto my laptop using their website and clicking docker for desktops.

Graphical user interface

Description automatically generatedAfter I downloaded docker, I used dockerhub on my browser to create/log into my account.

Then I went to the explore page to find an already existing image.

Graphical user interface, application, Teams

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Then I went to the docker hello-world

Graphical user interface, application

Description automatically generated

On my terminal I then ran docker pull hello-world

Text

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In my docker application it then came up in my images

A screenshot of a computer

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I hit the run button and it ran hello-world and it went into my container/apps

Graphical user interface, text, application

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When I inspected the distracted\_euler it showed the output for the hello-world

A screenshot of a computer

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Then to double check that it worked I ran it on my terminal and the output was the same

Text

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What is going on with docker vs my computer?

Docker is a software development tool and a virtualization technology that makes it easy to develop, deploy, and manage applications by using containers. These containers are individual packages of a piece of software that contain all the libraries, config files, dependencies, and other parts needed to run the application. With docker, the application works on your local computer and will work anywhere that supports docker.

With virtual machine environments, images would be the snapshots of these environments. Docker Images can never be changed, and once made you can’t modify them. Applications run the same no matter where they are and what machine they are running on because the container has the same environment throughout the software development cycle of the application. The container is like a print-out of the image we created.

These containers do not have an operating system within them. It shares the underlying kernel with the other containers. Each container running on a host is completely isolated as applications running on the same host are completely isolated. They are unaware of each other. The docker container runs within my computer.