

Docker

Agenda

1. Introduction - Josh Phillips
2. Docker Files - Spencer Williams
3. Docker Build - Hera Yang
4. Docker Container - Mireya Vera Loo
5. Docker Hub - Ben Hinchman
6. Docker Application - Caden Franc

Introduction

1.1 What is Docker?

- An open-source software platform that debuted in 2013 with the purpose of creating, deploying, and managing virtual application containers on "common" operating system.

Behold, The Whale.



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Docker Files

2.1 What is a docker file?

- A text file with instructions for creating your docker image, which is a file with executable code. It is similar to a makefile for other programming languages and their compilers but is used for the file to work with docker.
- This in turn provides a form of automation for creating the docker image when creating for the first time and afterwards.
- A Dockerfile is a text document that contains all the commands a user could call on the command line to assemble an image.

2.2 Creating a docker file

- Via VS code extension, ... F1 while using the docker extension and selecting the type of file we want and its entry point (the main file it will execute)
- Via command line, touch DockerFile and vim Dockerfile to then edit it
- docker list to view created docker files

2.3 Editing the docker file

Docker Container

Docker Hub

Docker Application

Creating an accessible and secure workflow