

# Docker and Docker Compose

Recitation 2, CMU 17-313, Fall 2020

**Goal:** During this recitation, we'll look at the difference between Docker images and containers and then look at how we can get around the issue of developing with immutable Docker images.

## Overview

1. [Docker Image vs Container: Everything You Need to Know](#)

## Activity 1: Mount Contents Inside of Container

1. Run the `nginx` Docker image using the `docker run` command.
2. Access the web server and make sure you can see the default page.
3. Create a `index.html` page on your local computer.
4. Modify the `docker run` command to display your HTML page instead of the default page.
  - o Look into how to mount external contents into the container (e.g., volumes)
  - o You may need to find out where the default `index.html` file is located inside of the Docker image.
  - o These links might be useful:
    - [How to Mount Docker Volume into a Container](#)
    - [docker run](#)

## Activity 2: Mount Contents Inside of Container with Compose

1. Using the following documentation, write a Docker Compose file to run the `nginx` container so you can run it without using the `docker run` command.
2. Make sure that the Docker Compose file mounts the volume so you see your own `index.html` instead of the default one.