Lab 9 – Docker

CS296N, Web Development 2: ASP.NET

Objectives

Gain experience:

- Create a Docker image.
- Run a web app in a Docker container.
- Use Docker Compose to run services in two containers.

Part 1. Docker Exercises

Read the Docker Getting Started guide, parts 1, 2, 3 and 5. Do all the steps that can be done on your development machine. Unfortunately, we don't currently have a Linux host we can use for production deployment.

Part 2. Containers for Your Own App

Create an image for your own web app (one that uses a database) and create an image for a container that will run a database engine (like MariaDB). Use Docker Compose to connect the web app container to the database container and run them on your local development machine.

Upload your web app image to DockerHub.

Submission to Moodle

Production Version

1. Merge your work into a branch named lab9-master.
2. Submit the following URLs:
   - Your Git master branch.
   - Your image on DockerHub

   Submit them to Moodle using "online text", or put the URLs in the document described below. Please do not put them in a comment.
3. Upload a document containing screen-shots of your docker exercises as well as of your app running in a container.