Lab: Advanced Topics

In this lab, you will explore advanced features of the Docker tool.

## Experiment with Docker Volumes

1. Use “docker volume create” to create a new local volume.
2. Start two separate “busybox” containers in two different terminal windows, using the volume options of “docker run” to mount the same volume you created to both containers.
3. Create or edit files in the mounted directory one of container, and observe the changes reflected in the other container.
4. Start a third “busybox” container and mount a path on your host using a Bind Mount.
5. Examine the directory you mounted from within the container.
6. Edit files on your host, and observe the changes in the container environment.

## Experiment with Docker Networking

1. Complete the Docker Networking “bridge” tutorial:  
   <https://docs.docker.com/network/network-tutorial-standalone/>
2. Complete the Docker Networking “host” tutorial:  
   <https://docs.docker.com/network/network-tutorial-host/>

## Experiment with Docker Compose

1. Follow the “Try Docker Compose” tutorial:  
   <https://docs.docker.com/compose/gettingstarted/>
2. See if you can write a Docker Compose file for your custom image that you built in the previous lab - pay special attention to Docker Compose “build” options as well!