Lab: Running Containers

In this lab, you will use the Docker tool to run containers from public images, and investigate the effect of various run parameters

## Pull the Busybox container image

1. Find the official Docker Hub image for the Busybox
2. Pull the latest stable tag
3. Run the image with the correct “docker run” command to get an interactive shell

## Create a file and change ownership of it within the container

1. Use “echo ‘Hello world’ > hello.txt” to create a new file inside the container
2. Use “chown 1001:1001 hello.txt” to change ownership of the file
3. Use “ls -al” to verify the ownership change of the file

## Run the Busybox container with removed capabilities

1. Run another container with the busybox image interactively, but provide the parameter to remove the CAP\_CHOWN privilege
2. Attempt to create and use “chown” to reassign ownership of the “hello.txt” file again.
3. Note that you cannot perform the action in the container, even as the root user.

## Run the Busybox container again as read-only

1. Run another container with the busybox image interactively, but provide the Read Only flag
2. Attempt to create the hello.txt file as before and note that you cannot write to the container filesystem, even as the root user.

## Run an nginx container and observe the logs

1. Run an nginx container. Feel free to map the port to another port if you have firewall issues.
2. Use curl or your browser to make a few requests to the container IP address (or localhost if you mapped the port)
3. Use “docker logs” to examine the output from the container.