Lab: Working with Docker images

In this lab, you will use the Docker tool to pull and push some pre-created Docker images to Docker Hub and examine them.

## Pull a Docker image from Dockerhub

1. Find the official Docker Hub image for the Python programming language.
2. Find the specific tag for the latest stable version of Python (3.11). Note the various tags available, and read the documentation on their differences to select one.
3. Using the hints provided on DockerHub, pull the image down to your local machine.

## Create a DockerHub Account (free)

1. Navigate to DockerHub and choose “sign up”
2. You may need to verify your email address for your account to be created
3. Log in to your new account
4. Navigate to your repositories

## Create your own repository

1. While logged in to DockerHub, create a new repository under your own username
2. Call the new repository “custom-python” or anything else you’d like.
3. Navigate to the new repository and find the hints on how to tag an image with the correct name.

## Tag your local Python image

1. Using the hints from DockerHub, tag the Python image you pulled earlier with your repository name.
2. Use “docker image ls” to verify the tagging worked and the checksum matches your existing Python image.

## Push the Python image to your repository

1. Use the “docker login” command and follow the prompts to log in to your DockerHub account.
2. Use the “docker push” command to push the tagged image to your repository.
3. In your web browser, verify the image is now there.