Lab 2 – Docker Images

Task – Pull, retag, and push an existing image

Prerequisites:

- An Ubuntu 20.04 VM with Docker installed.
- A Docker Hub account – you can sign up for this at https://hub.docker.com.

Steps:

1) Connect to the provided Ubuntu 20.04 Virtual Machine.

2) Set up authentication for docker pulls/pushes by using the 'docker login' command. Enter the username and password you created on signup when prompted.

```
docker login
Login with your Docker ID to push and pull images from Docker Hub. If you
don't have a Docker ID, head over to https://hub.docker.com to create one.
Username:
Password:
```

   Note: This will save your credentials, unencrypted, in the docker config file for your user, located at ~/.docker/config.json. It is advisable to use 'docker logout' when not actively pushing/pulling images to clear these credentials from this file. In real-world scenarios, it would be preferable to use a credential manager plugin to handle these credentials rather than storing them so insecurely.

3) Pull the Jenkins image: 'docker pull jenkins/jenkins:lts' – you should see each layer being pulled and extracted separately.

4) Re-tag the image to point to your dockerhub account: 'docker tag jenkins/jenkins:lts <your username>/jenkins:lts'.

5) Push the image to your dockerhub account: 'docker push <your username>/jenkins:lts'.

6) Clean up: docker rmi jenkins/jenkins:lts <your username>/jenkins:lts