DevOps - Git Assignment 06

Abu Sayed - ICDCP_28

Docker Assignment 1

Repository Link

https://github.com/ImAbuSaved/Interactive-Cares-DevOps-Career-Path-Assignment-6/

Project Overview

This project involves creating a Python Flask application, Dockerizing it, and making it multi-stage and multi-platform compatible. The Docker image is then pushed to Docker Hub, and instructions for running containers from the image and opening a shell inside the container are provided.

Repository Structure

- app.py: The main Python Flask application.
- requirements.txt: File specifying the Python dependencies for the Flask application.
- Dockerfile: Multi-stage and multi-platform Dockerfile for building the Docker image.
- README.md: This documentation file.

Docker Image Information

Docker Hub Repository:

https://hub.docker.com/repository/docker/imabusayed/docker-assignment-icdcp-28/ Docker Image Tags: v1

Building and Pushing the Docker Image

1. Ensure Docker Hub login:

docker login -u imabusayed

2. Build and push the Docker image:

docker buildx create --use

docker buildx inspect --bootstrap

docker buildx build --platform linux/amd64,linux/arm64 -t
imabusayed/docker-assignment-icdcp-28:v1 .

docker push imabusayed/docker-assignment-icdcp-28:v1

3. Running the Container

docker run -d -p_5000:5000 imabusayed/docker-assignment-icdcp-28:v1

4. Checked shell Inside the Container

docker exec -it 6b4d2d7bb9be pwd docker exec -it 6b4d2d7bb9be whoami docker exec -it 6b4d2d7bb9be ls

Screenshots are in the below:







