

Week 1 - DevOps Project Mini Review

Project Summary

You built and containerized a simple Python Flask web app and versioned it with Git.

Core Skills Practiced

- Python + Flask: Built a minimal app that runs on 0.0.0.0:5000
- Docker: Created Dockerfile, built image, ran container
- Git: Initialized repo, added .gitignore, committed code
- requirements.txt: Listed and installed Python dependencies

Key Concepts

Containers: Package code + environment

Dockerfile: Automates container builds

Flask: Lightweight web framework

Git: Tracks code changes across time

.gitignore: Keeps junk/secrets out of repos

Folder Structure

flask-docker-app/

??? app.py

??? requirements.txt

??? Dockerfile

??? .gitignore

Next Steps (Optional)

- Use docker-compose for easier container management
- Add GitHub CI/CD (GitHub Actions)
- Deploy to AWS (ECS/ECR)
- Learn Infrastructure as Code (Terraform)

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- Add monitoring/logging (CloudWatch, Prometheus)