

Milestones for DevOPS Assignment

1. Code Dockerizing

You can dockerize this code repository (fork repo if required) i.e. Generating dockerfile for given source code in python, so that it builds a docker image. (push image to dockerhub public)

<https://github.com/exact-space/flask-assignment>

Extra points for running flask app with uwsgi/gunicorn

Extra points for adding virtual env/ pipenv

2. Code Deployment

Create a local environment to deploy the above docker image. You can run in swarm or kubernetes.

Extra points for kubernetes!

Extra points if you can build and deploy this via vscode

3. Continuous Integration (with Github)

If code is committed or code is pushed to master branch. Trigger a build!

(Use jenkins, github actions, hooks whatever.)

4. Security

- Point of Failures in each step, and how to avoid them.
- Point of Hacking in each step (from security point), and how to avoid them.

If you happen to complete till point 4, please give us a callback!

Mode of Submission: Screenshot for each step output in a slide (will be reviewed during interview!), as well as extra configuration used i.e. Dockerfile, Swarm/K8 yaml. Provide code in zip or github fork url link.