

Hands-on with Docker and Cloud

Steps

- Download app.zip: <https://www.dropbox.com/s/vqe1cwk1o8fb4h2/app-en.zip?dl=0>
- Create Dockerfile

```
FROM python:3 COPY ./requirements.txt /app/requirements.txt WORKDIR /app RUN  
pip install --no-cache-dir -r requirements.txt COPY . /app ENTRYPOINT [   
"python" ] CMD [ "app.py" ]
```

- Zip and Upload app.zip to Cloud Shell
- Unzip app.zip
- Build Docker image

```
docker build -t app:1.0 . docker image ls
```

- Test image locally on Cloud Shell

```
docker container run --name app -p 5000:5000 app:1.0 docker container ls  
docker container ls --all docker container start app docker container stop  
app
```

- Tag the image

```
docker tag app:1.0 us.gcr.io/<PROJECT_ID>/app
```

- Push the image to Container Registry

```
docker push us.gcr.io/<PROJECT_ID>/app
```

- Deploy the image as container in Cloud Run