

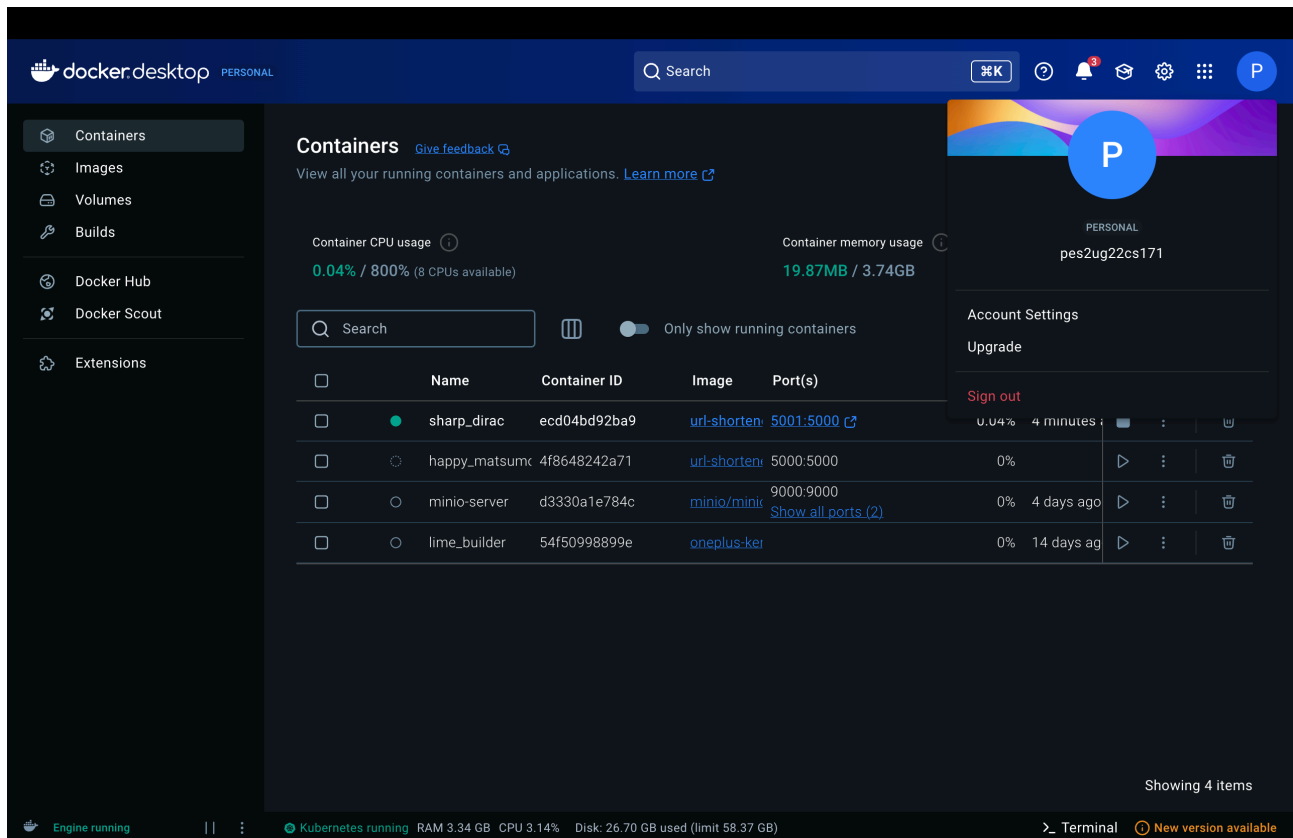
# Cloud Computing

## Mini-Project

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```
((base) deviprasadreddyp@Mac 131-134-151-171-Load-Balanced-URL-Shortener-using-Docker-Kubernetes % docker build -t url-shortener .
(*) Building 122.4s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 282B
=> [internal] load metadata for docker.io/library/python:3.9
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/python:3.9@sha256:bc2a06bca883472050fc3b7c134c28ab822be73126ba1ce29517d9e8b7f3703b
=> => resolve docker.io/library/python:3.9@sha256:bc2a06bca883472050fc3b7c134c28ab822be73126ba1ce29517d9e8b7f3703b
=> sha256:3ac7d2d82d1801388a369fcd2a58cadcff5e2c88bf92089c61a74309774d76c8 6.24MB / 6.24MB
=> sha256:73432a665082ee58396b8569511b826404f9fd96bd12c10b31e3701b05f0ecd8 19.27MB / 19.27MB
=> sha256:ad3813f8430489b94aa3ef0fc22ba98eebfabec6f72e2b822e13322e33f75fe 249B / 249B
=> sha256:1d9d474cce081e468bc6f85727459852112ba732fbbfe3236fae66c5fa8a5ed5 202.75MB / 202.75MB
=> sha256:140d15be2fea6dcd21c20cad2601a118c08a938168718b2612ad6aca91f74a 64.36MB / 64.36MB
=> sha256:4378a6c11dea5043896b9425853a850807e5845b0018fe01dd56c16245fc3c 23.54MB / 23.54MB
=> sha256:545aa82ec479f60f3a196d14d43d445ab1bd1098043223bfdd21e50b70581f 48.30MB / 48.30MB
=> extracting sha256:545aa82ec479f60f3a196d14d43d445ab1bd1098043223bfdd21e50b70581f 1.8s
=> extracting sha256:4378a6c11dea5043896b9425853a850807e5845b0018fe01dd56c16245fc3c 0.6s
=> extracting sha256:140d15be2fea6dcd21c20cad2601a118c08a938168718b2612ad6aca91f74a 1.5s
=> extracting sha256:1d9d474cce081e468bc6f85727459852112ba732fbbfe3236fae66c5fa8a5ed5 104.3s
=> extracting sha256:3ac7d2d82d1801388a369fcd2a58cadcff5e2c88bf92089c61a74309774d76c8 14.0s
=> extracting sha256:73432a665082ee58396b8569511b826404f9fd96bd12c10b31e3701b05f0ecd8 27.1s
=> extracting sha256:ad3813f8430489b94aa3ef0fc22ba98eebfabec6f72e2b822e13322e33f75fe 0.4s
=> [internal] load build context
=> => transferring context: 36.88kB
=> [2/4] WORKDIR /app
=> [3/4] COPY . .
=> [4/4] RUN pip install flask
=> exporting to image
=> exporting layers
=> exporting manifest sha256:0398501a7b3ac27d9346c3f8f68f9156857ee97c640b09a6fdb49a877ac8653 0.0s
=> exporting config sha256:b0b62c97e1c5d7d4da15ed3017eca0fd194bfcac6c133a9d7efc12eb02aa05b0 0.0s
=> exporting attestation manifest sha256:92a93ed055e30ab74a7dbd4b36ddde1be2a3a1f73c07150697f7fd5b463c624 0.0s
=> exporting manifest list sha256:3d20a0c7fa14e8bee0bb7214319b79b1b5cad113151ca1dbb103cede362d3fc6 0.3s
=> naming to docker.io/library/url-shortener:latest 0.8s
=> unpacking to docker.io/library/url-shortener:latest 0.2s

What's next:
View a summary of image vulnerabilities and recommendations → docker scout quickview
((base) deviprasadreddyp@Mac 131-134-151-171-Load-Balanced-URL-Shortener-using-Docker-Kubernetes % docker run -p 5000:5000 url-shortener
docker: Error response from daemon: Ports are not available: exposing port TOP 0.0.0.0:5000 -> 127.0.0.1:0; listen tcp 0.0.0.0:5000: bind: address already in use.
((base) deviprasadreddyp@Mac 131-134-151-171-Load-Balanced-URL-Shortener-using-Docker-Kubernetes % docker run -p 5001:5000 url-shortener
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.3:5000
Press CTRL+C to quit
```

```
(base) deviprasadreddyp@Mac 131-134-151-171-Load-Balanced-URL-Shortener-using-Docker-Kubernetes % curl -X POST http://localhost:5001/shorten -H "Content-Type: application/json" -d '{"long_url": "https://example.com"}'
{"short_url": "http://localhost:5000/AavtBx"}
(base) deviprasadreddyp@Mac 131-134-151-171-Load-Balanced-URL-Shortener-using-Docker-Kubernetes %
```