

Build zipcode service docker images and container

```
● (base) → weather-app git:(main) ✗ docker build -t weather-app:latest .
[+] Building 8.6s (10/10) FINISHED
  => [internal] load build definition from Dockerfile                                0.0s
  => => transferring dockerfile: 507B                                              0.0s
  => [internal] load .dockerignore                                                 0.0s
  => => transferring context: 2B                                                  0.0s
  => [internal] load metadata for docker.io/library/python:3.8-slim-buster        8.4s
  => [1/5] FROM docker.io/library/python:3.8-slim-buster@sha256:47fb3866234b8137a41017681aef5 0.0s
  => [internal] load build context                                              0.0s
  => => transferring context: 776B                                              0.0s
  => CACHED [2/5] WORKDIR /app                                                  0.0s
  => CACHED [3/5] COPY requirements.txt .                                         0.0s
  => CACHED [4/5] RUN pip install -U --no-cache-dir -r requirements.txt          0.0s
  => [5/5] COPY app.py .                                                       0.0s
  => exporting to image                                                         0.0s
  => => exporting layers                                                         0.0s
  => => writing image sha256:2fc2122649cba9bde347c5d390d70a80eabe29447d5a7c1aec9a5d6b24eb3a7d 0.0s
  => => naming to docker.io/library/weather-app:latest                         0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix the m

⊗ (base) → weather-app git:(main) ✗ docker run -p 5001:5000 zipcode-app
Unable to find image 'zipcode-app:latest' locally
docker: Error response from daemon: pull access denied for zipcode-app, repository does not exist o
r may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

○ (base) → weather-app git:(main) ✗ docker run -p 5002:5000 weather-app
* Serving Flask app 'app.py'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production W
SGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.2:5000
Press CTRL+C to quit
172.17.0.1 - - [02/Feb/2023 20:55:28] "GET /weather/33333 HTTP/1.1" 200 -
```

build weather service docker image and container

```

⊗ (base) → weather git:(main) x docker build -t zipcode-app:latest .
[+] Building 0.0s (1/2)
  => [internal] load build definition from Dockerfile                                0.0s
  => => transferring dockerfile: 2B                                                0.0s
failed to solve with frontend dockerfile.v0: failed to read dockerfile: open /var/lib/docker/tmp/bu
ildkit-mount221458677/Dockerfile: no such file or directory
⊗ (base) → weather git:(main) x cd ../zi
cd: no such file or directory: ../zi
● (base) → weather git:(main) x cd ..
● (base) → cloud_computing cd weather/zipcode-app
● (base) → zipcode-app git:(main) x docker build -t zipcode-app:latest .
[+] Building 0.8s (10/10) FINISHED
  => [internal] load build definition from Dockerfile                                0.0s
  => => transferring dockerfile: 508B                                              0.0s
  => [internal] load .dockerignore                                                0.0s
  => => transferring context: 2B                                                  0.0s
  => [internal] load metadata for docker.io/library/python:3.8-slim-buster        0.7s
  => [1/5] FROM docker.io/library/python:3.8-slim-buster@sha256:47fb3866234b8137a41017681aef5 0.0s
  => [internal] load build context                                              0.0s
  => => transferring context: 606B                                              0.0s
  => CACHED [2/5] WORKDIR /app                                                  0.0s
  => CACHED [3/5] COPY requirements.txt .                                         0.0s
  => CACHED [4/5] RUN pip install -U --no-cache-dir -r requirements.txt          0.0s
  => [5/5] COPY app.py .                                                       0.0s
  => exporting to image                                                         0.0s
  => => exporting layers                                                         0.0s
  => => writing image sha256:1cdc1925a4b48ccd86d6b4a179e76b8f97a473520e06845215031903eb164d95 0.0s
  => => naming to docker.io/library/zipcode-app:latest                         0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix the
m
○ (base) → zipcode-app git:(main) x docker run -p 5001:5000 zipcode-app
* Serving Flask app 'app.py'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production W
SGI 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
172.17.0.1 - - [02/Feb/2023 20:55:28] "GET /zipcode/Chicago HTTP/1.1" 200 -

```

Connect two service with client.app

```

● (base) → weather git:(main) x python client.py
{'temperature': 60, 'condition': 'Cloudy'}

```