




Docker – run a container

Step 1: Creating the Files and Folders

- C:\Users\Downloads\docker\docker_assignment

 dockerfile

 test

```
docker_assignment >  test.py
```

```
1 a=890
```

```
2 b=900
```

```
3 print(a+b)
```

Step 2: Creating the Docker file

- FROM python:latest
- LABEL Maintainer="ask"
- WORKDIR /usr/app/src
- #to add remote file at root directory in container
- copy test.py ./
- #from offical image documentation
- CMD ["python", "./test.py"]

Step 3: Building the Docker Container

- docker image build -t python:0.0.1
C:\Users\Downloads\docker\docker_assignment\

```
[+] Building 63.0s (5/8)
=> [internal] load .dockerignore                                0.1s
=> => transferring context: 2B                                  0.0s
=> [internal] load build definition from dockerfile             0.1s
=> => transferring dockerfile: 247B                             0.0s
=> [internal] load metadata for docker.io/library/python:latest 7.9s
=> [auth] library/python:pull token for registry-1.docker.io   0.0s
=> [1/3] FROM docker.io/library/python:latest@sha256:3a619e3c96fd4c5fc5e1998fd4dcb1f1403eb90c4c6409c70d7e80b946 54.9s
=> => resolve docker.io/library/python:latest@sha256:3a619e3c96fd4c5fc5e1998fd4dcb1f1403eb90c4c6409c70d7e80b9468 0.1s
=> => sha256:3a619e3c96fd4c5fc5e1998fd4dcb1f1403eb90c4c6409c70d7e80b9468df7df 2.14kB / 2.14kB 0.0s
=> => sha256:cbaa654007e0c2f2e2869ae69f9e9924826872d405c02647f65f5a72b597e853 2.01kB / 2.01kB 0.0s
=> => sha256:0a6cd0db41a4daebb332262ddd1f61a29e88169b8c93476cb885f46d400473c8 7.52kB / 7.52kB 0.0s
=> => sha256:6710592d62aa1338ac1c1c363dedc255659f666cc41441c7e0f735c484db10ff 15.76MB / 15.76MB 3.9s
=> => sha256:75256935197ed1bb3b994a77c01efa00349b901014448a260fafd9c3719a741d 54.58MB / 54.58MB 50.7s
=> => sha256:bd73737482dd5575526c7207872963479808d979ab2741c321706b8553918474 55.05MB / 55.05MB 52.4s
=> => sha256:c1e5026c64577dee4b6bac20b18196f964a41d8b9016fbbbada0c70b601cd5bf 196.85MB / 196.85MB 34.2s
=> => sha256:f0016544b8b99a7e91472b231a8eb1af0aede28806efc821c60ca20b65fc1eb8 6.29MB / 6.29MB 36.1s
=> => sha256:1d58eee51ff228a3e1f6abee482290e736c696025d75a5a7b29029b97f37f162 19.99MB / 19.99MB 38.7s
=> => sha256:93dc7b704cd18c44b49693575022ab7ebaf7bf9f186af30ef53602fb0c19d4ce 243B / 243B 39.1s
=> => sha256:caefdefa531e3b0d90aa4918fa072a441f0f0e57bc69f61212e7f00ce5a94340 3.08MB / 3.08MB 40.1s
=> => extracting sha256:bd73737482dd5575526c7207872963479808d979ab2741c321706b8553918474 2.3s
=> [internal] load build context                                0.1s
=> => transferring context: 58B                                  0.0s
```

Step 4: Verify the Image Build

- docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
python	0.0.1	cd8aa6ed81f0	3 minutes ago	920MB

Step 5: Running the Docker Container

- `docker run python:0.0.1`

Docker run

- `docker run ubuntu`

Unable to find image 'ubuntu:latest' locally

latest: Pulling from library/ubuntu

dbf6a9befcde: Pull complete

Digest: sha256:dfd64a3b4296d8c9b62aa3309984f8620b98d87e47492599ee20739e8eb54fbf

Status: Downloaded newer image for ubuntu:latest

To goto the terminal

- `docker run -it ubuntu`