

DEPLOYMENT OF APP IN IBM CLOUD

CONTAINERIZE THE APP

Team ID	PNT2022TMID08239
Project Name	PERSONAL EXPENSE TRACKER APPLICATION

DOCKER IMAGE CREATION

```
[*] Building 197.4s (12/12) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 439B                                              0.0s
=> [internal] load .dockerignore                                                 0.0s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/python:3.6.5-alpine          5.5s
=> [auth] library/python:pull token for registry-1.docker.io                  0.0s
=> [1/6] FROM docker.io/library/python:3.6.5-alpine@sha256:3f9e8710fc8dffb2aaaa32016bd8a0805f90612e61b5fc5b119de 20.2s
=> resolve docker.io/library/python:3.6.5-alpine@sha256:3f9e8710fc8dffb2aaaa32016bd8a0805f90612e61b5fc5b119de1 0.0s
=> sha256:3f9e8710fc8dffb2aaaa32016bd8a0805f90612e61b5fc5b119de1d9d1f7edca2 1.70kB / 1.70kB 0.0s
=> sha256:89e8e6f87a150d83a3cc87a29b3998fdb9208836f015f16a9b3405f4dcb6d7f 1.37kB / 1.37kB 0.0s
=> sha256:5be8d36f77ee72d9bec88e30238ac720174643a55c37590a6183a94d83e301d 6.00kB / 6.00kB 0.0s
=> sha256:ff3a5c916c926d3ff77519ffa742d3ec61b7f591b6b7504599d95a4a41134e28 2.07MB / 2.07MB 7.4s
=> sha256:40014a6ad6bc191019e0c2a1f8ddcb67b32a941a9c17083658a94a135d99909e 308.02kB / 308.02kB 3.6s
=> sha256:9e372a7142ef8bb924e5715ba353a216a479f2c2901f6c5d154bad1698aa693d 28.87MB / 28.87MB 26.0s
=> sha256:3ab6d28ced3c1770b90f194bb7f160fdef5dfadeec0f3af5cb81d737d4a183c 230B / 230B 4.4s
=> sha256:27f34cba021a17165965ff70822d43a1b03b6153fc06dc365c30114defcbe4e 1.90MB / 1.90MB 12.3s
=> => extracting sha256:ff3a5c916c926d3ff77519ffa742d3ec61b7f591b6b7504599d95a4a41134e28 0.2s
=> => extracting sha256:40014a6ad6bc191019e0c2a1f8ddcb67b32a941a9c17083658a94a135d99909e 0.0s
=> => extracting sha256:9e372a7142ef8bb924e5715ba353a216a479f2c2901f6c5d154bad1698aa693d 0.6s
=> => extracting sha256:3ab6d28ced3c1770b90f194bb7f160fdef5dfadeec0f3af5cb81d737d4a183c 0.0s
=> => extracting sha256:27f34cba021a17165965ff70822d43a1b03b6153fc06dc365c30114defcbe4e 0.1s
=> [internal] load build context                                                0.1s
=> => transferring context: 1.25kB                                              0.0s
=> [2/6] WORKDIR /app                                                         0.2s
=> [3/6] ADD ./app                                                            0.1s
=> [4/6] RUN set -e; apk add --no-cache --virtual .build-deps gcc lib 103.1s
=> [5/6] COPY requirements.txt /app                                           0.1s
=> [6/6] RUN pip install -r requirements.txt                                  17.0s
=> => exporting to image                                                         2.3s
=> => exporting layers                                                         2.3s
=> => writing image sha256:0adc8506b1242fb2c8001acaa9456ea816e7c25cda54a03b340180d0a62f2ac4 0.0s
=> => naming to docker.io/library/maha                                         0.0s
```

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

Containers

Images

Volumes

Dev Environments

Extensions

Add Extensions

Images

An image is a read-only template with instructions for creating a Docker container. [Learn more](#)

LOCAL

REMOTE REPOSITORIES

638.42 MB / 77.79 MB in use

13 images

Last refresh: about 10 hours ago

Search

	NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
<input type="checkbox"/>	maha 0adc05060124	latest	In use	1 minute ago	537.08 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	nginx 19dd4d73108a	alpine	In use	7 days ago	23.55 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	ubuntu a8780b506fa4	latest	In use	16 days ago	77.79 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	hubproxy.docker.internal:5000/docker/desktop-kubernetes 09d7e1dbc2c4	kubernetes-v	Unused	about 2 months ago	363.32 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	k8s.gcr.io/kube-apiserver 97801f839490	v1.25.2	Unused	about 2 months ago	127.73 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	k8s.gcr.io/kube-scheduler ca0ea1ee3cda	v1.25.2	Unused	about 2 months ago	50.58 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	k8s.gcr.io/kube-controller-manager dbfceb93c69b	v1.25.2	Unused	about 2 months ago	117.1 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	k8s.gcr.io/kube-proxy					<div></div> <div></div> <div></div>

Showing 13 items

RAM 3.46GB

CPU 1.46%

Connected to Hub

v4.14.0

21°C Mostly sunny

Search

ENG IN

09:07 19-11-2022

Containers

Images

Volumes

Dev Environments

Extensions

Add Extensions

Containers

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

Only show running containers

Search

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	nginx_base 52091870854c	nginx:alpine	Running	80:80	1 hour ago	<div></div> <div></div> <div></div>
<input type="checkbox"/>	MyUbuntu1 2622deccdc3b	ubuntu:latest	Exited (255)			<div></div> <div></div> <div></div>
<input type="checkbox"/>	compassionate_gates bdd0827d9c09	maha:latest	Exited			<div></div> <div></div> <div></div>

Showing 3 items

RAM 3.46GB

CPU 1.42%

Connected to Hub

v4.14.0

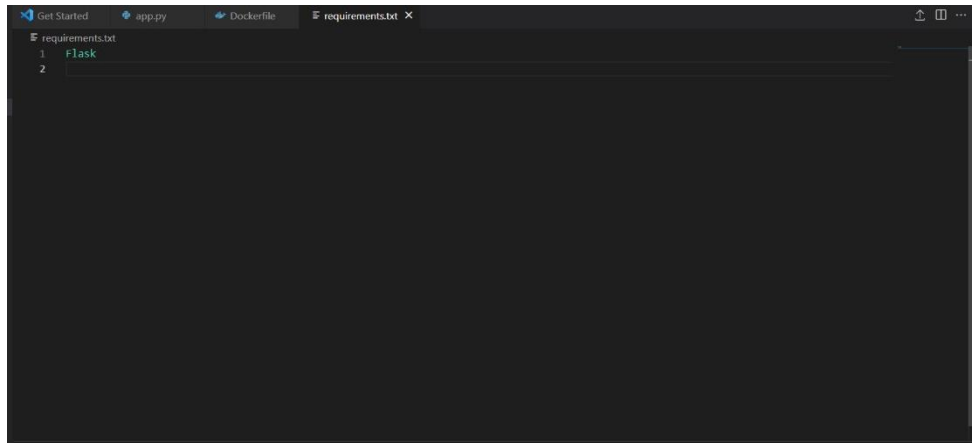
21°C Mostly sunny

Search

ENG IN

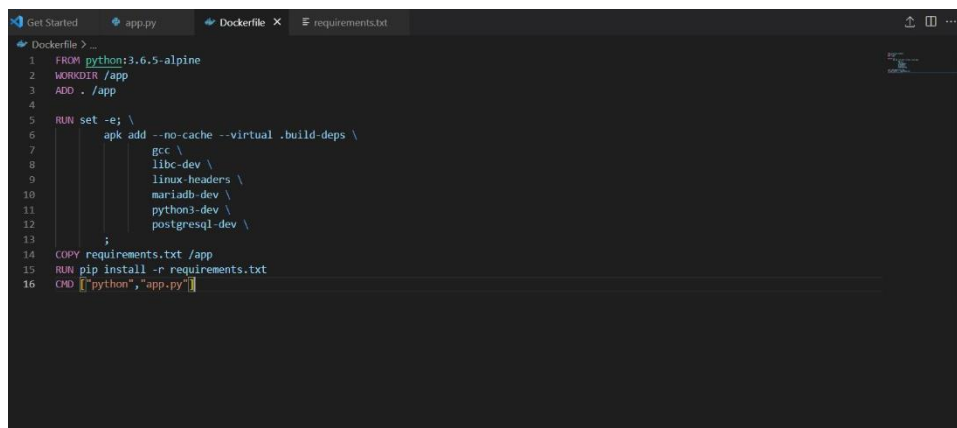
09:07 19-11-2022

CREATING DOCKER IMAGE FOR FLASK APP



A screenshot of a code editor with a dark theme. The top bar shows four tabs: 'Get Started', 'app.py', 'Dockerfile', and 'requirements.txt'. The 'requirements.txt' tab is active, displaying a file with two lines of text: 'Flask' on line 1 and an empty line on line 2.

```
requirements.txt
1 Flask
2
```



A screenshot of a code editor with a dark theme. The top bar shows four tabs: 'Get Started', 'app.py', 'Dockerfile', and 'requirements.txt'. The 'Dockerfile' tab is active, displaying a Dockerfile with 16 lines of code. The code defines a Docker image based on 'python:3.6.5-alpine', sets the working directory to '/app', adds the current directory to the path, and installs various system and Python dependencies. It then copies the 'requirements.txt' file, installs the Python dependencies, and sets the command to run the application.

```
Dockerfile > ...
1 FROM python:3.6.5-alpine
2 WORKDIR /app
3 ADD . /app
4
5 RUN set -e; \
6     apk add --no-cache --virtual .build-deps \
7         gcc \
8         libc-dev \
9         linux-headers \
10        mariadb-dev \
11        python3-dev \
12        postgresql-dev \
13        ;
14 COPY requirements.txt /app
15 RUN pip install -r requirements.txt
16 CMD ["python", "app.py"]
```

```
Get Started  app.py x Dockerfile requirements.txt
app.py > home
1 from flask import Flask
2 app = Flask(__name__)
3
4 @app.route("/")
5 def home():
6     return "hello flask"
```

← → ↻ ⓘ 127.0.0.1:5000

hello flask