

Assisted Practice:

4.2 Push an Image to Docker Hub

```
C:\Users\ADMIN\Docker>mkdir docker_python
```

```
C:\Users\ADMIN\Docker>cd docker_python/
```

```
C:\Users\ADMIN\Docker\docker_python>notepad Dockerfile
```

```
Dockerfile - Notepad
File Edit Format View Help
FROM python
WORKDIR /app
ADD . /app
RUN pip install -r requirements.txt
EXPOSE 80
ENV NAME world
CMD ["python", "app.py"]
```

```
C:\Users\ADMIN\Docker\docker_python>notepad app.py
```

```
app - Notepad
File Edit Format View Help
from flask import Flask
import os
import socket
app = Flask(__name__)@app.route("/")def hello():
    html = "<h3>Hello {name}!</h3>" \
          "<b>Hostname:</b> {hostname}<br/>"
    return html.format(name=os.getenv("NAME", "world"), hostname=socket.gethostname())
if __name__ == "__main__":
    app.run(host='0.0.0.0', port=80)
```

```
C:\Users\ADMIN\Docker\docker_python>notepad requirements.txt
```

```
requirements - Notepad
File Edit Format View Help
Flask
```

```
C:\Users\ADMIN\docker\docker_python>dir /a /od /t:w
Volume in drive C has no label.
Volume Serial Number is 6618-89B3
```

Directory of C:\Users\ADMIN\docker\docker_python

```
27-07-2023  05:38 PM           137 Dockerfile.txt
27-07-2023  05:43 PM           366 app.py
27-07-2023  05:44 PM    <DIR>           ..
27-07-2023  05:44 PM    <DIR>           .
27-07-2023  05:44 PM           5 requirements.txt
              3 File(s)           508 bytes
              2 Dir(s)  9,898,139,648 bytes free
```

```
C:\Users\ADMIN\docker\docker_python>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
phpcode latest 4c8fb1b2f77c About an hour ago 276MB
```

```
C:\Users\ADMIN\docker\docker_python>docker build -t docker_python -f C:\Users\ADMIN\docker\Dockerfile C:\Users\ADMIN\docker\docker_python
```

```
[+] Building 0.0s (0/0)
[+] Building 38.9s (12/12) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 574B
=> [internal] load metadata for docker.io/library/ubuntu:latest
=> [internal] load build context
=> => transferring context: 25B
=> [1/7] FROM docker.io/library/ubuntu:latest@sha256:0bced47fffa3361afa981854fcabdc4577cd43cebbb808cea2b1f33a3dd7f508
=> CACHED [2/7] RUN apt-get update -y
=> CACHED [3/7] RUN apt-get install -y git curl apache2 php libapache2-mod-php php-mysql
=> CACHED [4/7] RUN rm -rf /var/www/html/*
=> [5/7] ADD src /var/www/html/
=> [6/7] RUN a2enmod rewrite
=> [7/7] RUN chown -R www-data:www-data /var/www/html
=> exporting to image
=> => exporting layers
=> => writing image sha256:2ce7de9e24b501431107a9ec0d0fed7fa8977a577eb7c88f064bbd936742d87
=> => naming to docker.io/library/docker_python
```

What's Next?

View summary of image vulnerabilities and recommendations → [docker scout quickview](#)

```
C:\Users\ADMIN\docker\docker_python>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
docker_python latest 2ce7de9e24b5 About a minute ago 276MB
phpcode latest 4c8fb1b2f77c 2 hours ago 276MB
```

```
C:\Users\ADMIN\docker\docker_python>docker run -d --name docker_python -p 80:80 docker_python
```

```
C:\Users\ADMIN\docker\docker_python>curl http://localhost:80
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>
<head>
<title>Index of /</title>
</head>
<body>
<h1>Index of /</h1>
<table>
<tr><th valign="top">img src="/icons/blank.gif" alt="[ICO]"></th><th>ca href="#">C=;0=0">Name</th><th>ca href="#">C=;0=0">Last modified</th><th>ca href="#">C=;0=0">Size</th><th>ca href="#">C=;0=0">0e
scription</a></th></tr>
<tr><th colspan="5"><div></div></th></tr>
<tr><th colspan="5"><div></div></th></tr>
</table>
<address>Apache/2.4.52 (Ubuntu) Server at localhost Port 80</address>
</body></html>
```