

\$docker build -f Dockerfile.txt -t my-app-image:1.0 .

\$docker images ls

```
Select Administrator: C:\Program Files\WindowsApps\Microsoft.PowerShell_7.3.3.0_x64_8wekyb3d8bbwe\pwsh.exe
executor failed running [/bin/sh -c pip3 install -r]: exit code: 2
PS F:\Docker\APP> ls

Directory: F:\Docker\APP

Mode                LastWriteTime         Length Name
----                -
-a---             4/5/2023   9:02 PM             390 app.py
-a---             4/5/2023   9:03 PM             293 Docker-compose.yaml
-a---             4/5/2023   9:11 PM             162 Dockerfile.txt
-a---             4/5/2023   9:01 PM              12 requirements.txt

PS F:\Docker\APP> docker build -f Dockerfile.txt -t my-app-image:1.0 .
[+] Building 38.7s (10/10) FINISHED
-> [internal] load build definition from Dockerfile.txt
-> => transferring dockerfile: 205B
-> [internal] load .dockerignore
-> => transferring context: 2B
-> [internal] load metadata for docker.io/library/python:3.10-alpine
-> [1/5] FROM docker.io/library/python:3.10-alpine@sha256:5fb31782a701cacb6062eca0bb7c75409e10e467ac2a1ceb75a878073d09acf
-> [internal] load build context
-> => transferring context: 62B
-> CACHED [2/5] WORKDIR /myApp-image
-> CACHED [3/5] COPY requirements.txt
-> [4/5] RUN pip3 install -r requirements.txt
-> [5/5] COPY app.py
-> exporting to image
-> => exporting layers
-> => writing image sha256:5ef5e8238bb33d99cb512b72435d745ac5c8692d809bc5d53cefea8261ef1bf3
-> => naming to docker.io/library/my-app-image:1.0
PS F:\Docker\APP> docker image ls

REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
my-app-image        1.0                5ef5e8238bb3       22 seconds ago     63.4MB
my-httpd-image      latest             1cd466740445       4 days ago         145MB
myimage             1.0                52d9a6498e70       4 days ago         530MB
myimage             2.0                52d9a6498e70       4 days ago         530MB
my                  latest             7c3117b66191       4 days ago         145MB
httpd               2.4                192d41583420       13 days ago        145MB
httpd               latest            192d41583420       13 days ago        145MB
ubuntu              latest            08d22c0ceb15       4 weeks ago        77.8MB
mysql/mysql-server  latest            1d9c2219ff69       2 months ago       496MB
docker/getting-started latest            3e4394f6b72f       3 months ago       47MB
centos               latest            5d0da3dc9764       18 months ago      231MB

PS F:\Docker\APP>
```

\$docker compose -p python-app up -d

```
Administrator: C:\Program Files\WindowsApps\Microsoft.PowerShell_7.3.3.0_x64_8wekyb3d8bbwe\pwsh.exe
PS F:\Docker\APP> docker compose -p python-app up -d
[+] Running 0/2
 - app Error
 - redis Error
Error response from daemon: pull access denied for my-app, repository does not exist or may require 'docker login': denied: requested access to the resource is denied
PS F:\Docker\APP> docker compose -p python-app up -d
[+] Running 7/7
 - redis Pulled
   - f56be85fc22e Already exists
   - 10889393d00d Pull complete
   - 4bf915173f8 Pull complete
   - 895db9b4713a Pull complete
   - 29c90175ca4c Pull complete
   - 3873c005997a Pull complete
[+] Running 4/4
 - Network python-app_app-network Created
 - Network python-app_default Created
 - Container python-app-redis-1 Started
 - Container python-app-app-1 Started
PS F:\Docker\APP>
```

\$docker compose -p python-app up

```
Administrator: C:\Program Files\WindowsApps\Microsoft.PowerShell_7.3.3.0_x64_8wekyb3d8bbwe\pwsh.exe
PS F:\Docker\APP> docker compose -p python-app up
[+] Running 2/2
 - Container python-app-redis-1 Created                                0.0s
 - Container python-app-app-1 Recreated                               1.2s
Attaching to python-app-app-1, python-app-redis-1
python-app-redis-1 | 1:C 05 Apr 2023 20:24:09.113 # 000000000000 Redis is starting 000000000000
python-app-redis-1 | 1:C 05 Apr 2023 20:24:09.113 # Redis version=7.0.10, bits=64, commit=00000000, modified=0, pid=1, just started
python-app-redis-1 | 1:C 05 Apr 2023 20:24:09.113 # Warning: no config file specified, using the default config. In order to specify a config file use redis-server /path/to/redis.conf
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.114 * monotonic clock: POSIX clock_gettime
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.117 * Running mode=standalone, port=6379.
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.117 # Server initialized
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.117 # WARNING Memory overcommit must be enabled! Without it, a background save or replication may fail under low memory condition. Being disabled, it can also cause failures without low memory condition, see https://github.com/jemalloc/jemalloc/issues/1328. To fix this issue add 'vm.overcommit_memory = 1' to /etc/sysctl.conf and then reboot or run the command 'sysctl vm.overcommit_memory=1' for this to take effect.
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.130 * Loading RDB produced by version 7.0.10
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.130 * RDB age 114 seconds
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.130 * RDB memory usage when created 0.82 Mb
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.130 * Done loading RDB, keys loaded: 0, keys expired: 0.
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.130 * DB loaded from disk: 0.000 seconds
python-app-redis-1 | 1:M 05 Apr 2023 20:24:09.131 * Ready to accept connections
python-app-app-1 | * Serving Flask app 'app'
python-app-app-1 | * Debug mode: on
python-app-app-1 | WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
python-app-app-1 | * Running on all addresses (0.0.0.0)
python-app-app-1 | * Running on http://127.0.0.1:8000
python-app-app-1 | * Running on http://172.30.0.3:8000
python-app-app-1 | Press CTRL+C to quit
python-app-app-1 | * Restarting with stat
python-app-app-1 | * Debugger is active!
python-app-app-1 | * Debugger PIN: 532-809-210
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:42] "GET / HTTP/1.1" 200 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:45] "GET /favicon.ico HTTP/1.1" 404 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:48] "GET / HTTP/1.1" 200 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:49] "GET / HTTP/1.1" 200 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:49] "GET / HTTP/1.1" 200 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:49] "GET / HTTP/1.1" 200 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:50] "GET / HTTP/1.1" 200 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:50] "GET / HTTP/1.1" 200 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:50] "GET / HTTP/1.1" 200 -
python-app-app-1 | 172.30.0.1 - - [05/Apr/2023 20:24:50] "GET / HTTP/1.1" 200 -
```

