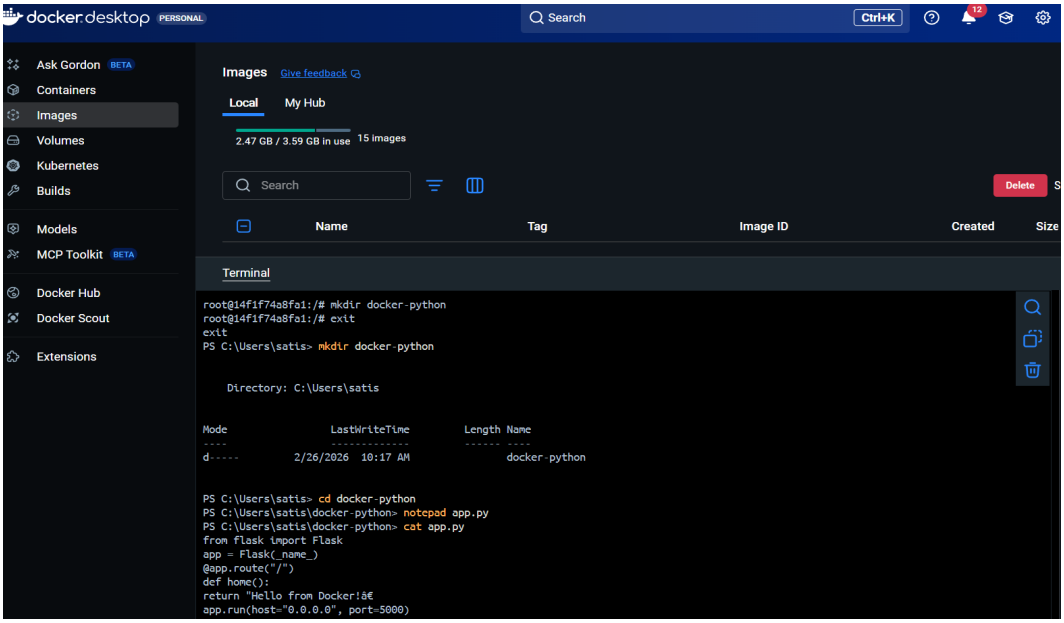
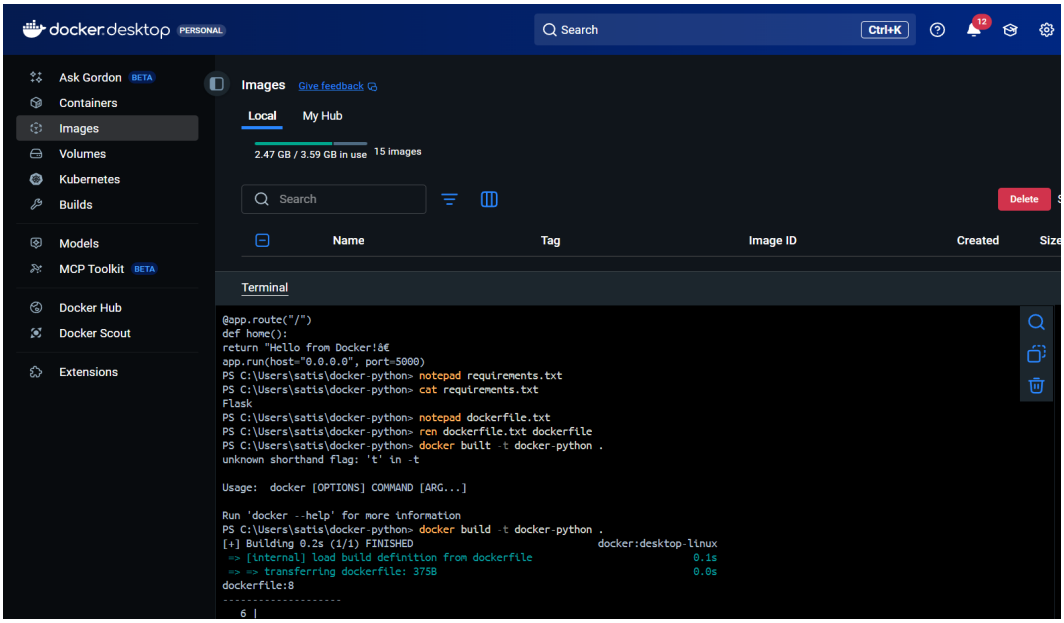
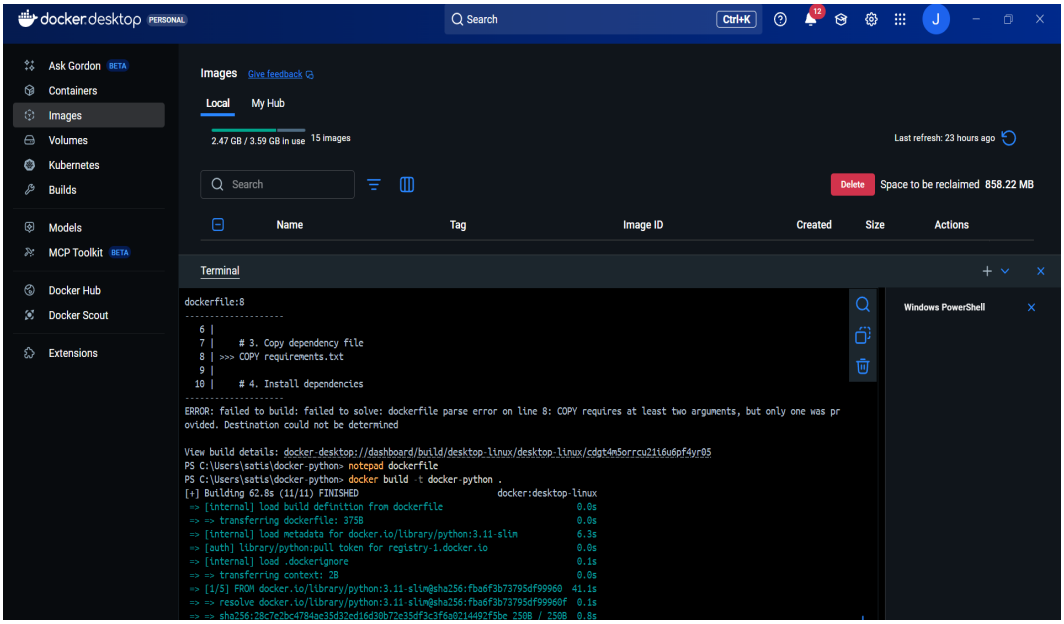
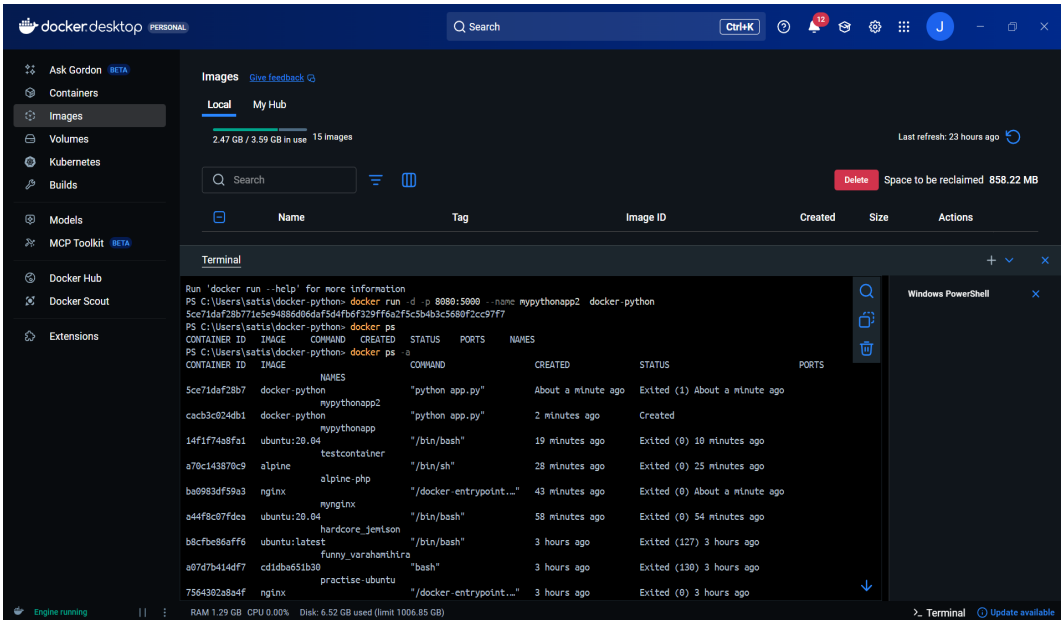
Docker Python Flask Practise - Steps Performed

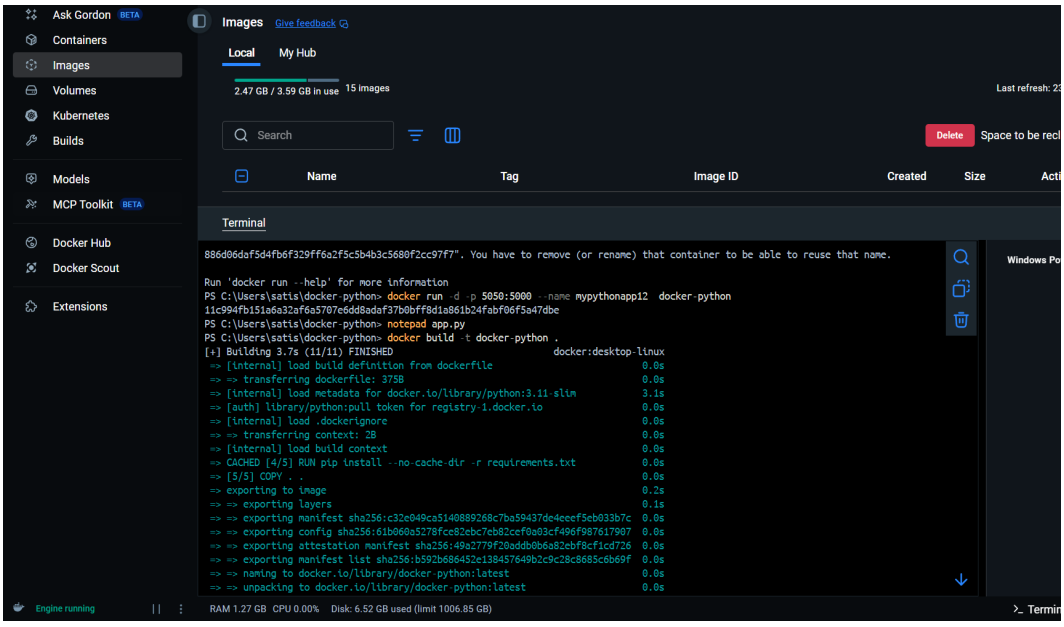
1. Created docker-python directory
2. Created Flask app.py file
3. Added Flask code inside app.py
4. Created requirements.txt and added Flask
5. Created Dockerfile
6. Built Docker image using docker build -t docker-python .
7. Ran container using docker run -d -p 5050:5000 --name mypythonapp docker-python
8. Container exited due to Flask syntax error
9. Corrected __name__ and indentation in app.py
10. Rebuilt Docker image
11. Removed existing containers
12. Ran container again on port mode 5050
13. Checked container status using docker ps and docker ps -a

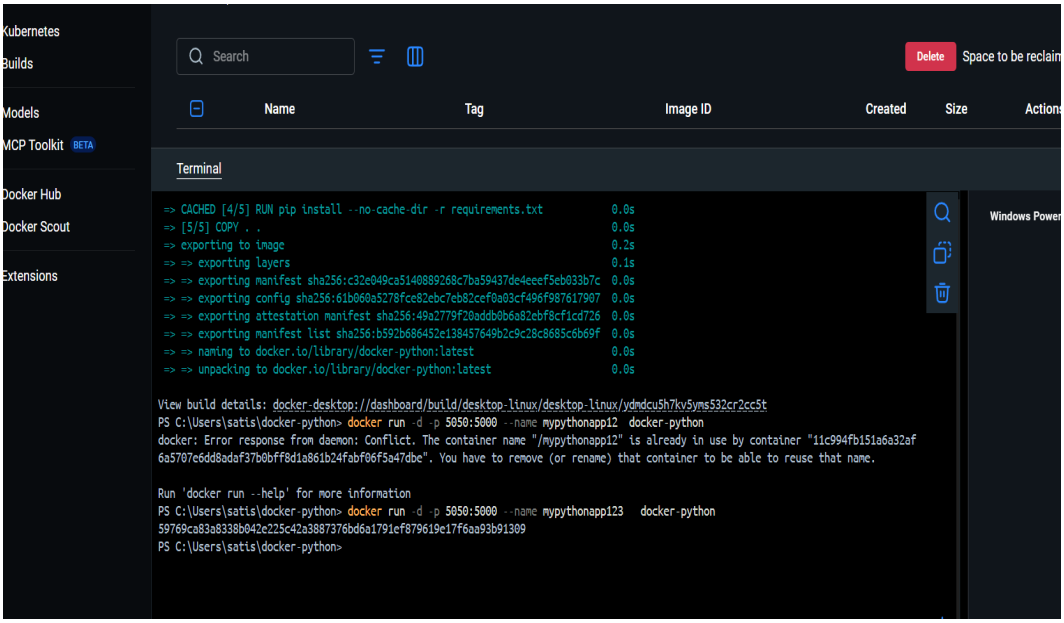





docker desktop PERSONAL
Search Ctrl+K
Ask Gordon BETA
Containers
Images
Volumes
Kubernetes
Builds
Models
MCP Toolkit BETA
Docker Hub
Docker Scout
Extensions
Images Give feedback
Local My Hub
2.47 GB / 3.59 GB in use 15 images
Last refresh: 23 hours ago
Search
Delete Space to be reclaimed 858.22 MB
Name Tag Image ID Created Size Actions
Terminal
Windows PowerShell
dockerfile:8
6 |
7 | # 3. Copy dependency file
8 | >>> COPY requirements.txt
9 |
10 | # 4. Install dependencies
ERROR: failed to build: failed to solve: dockerfile parse error on line 8: COPY requires at least two arguments, but only one was pr
ovided. Destination could not be determined
View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/cdgt4m5orrcu2116u6pf4yr05
PS C:\Users\satis\docker-python> notepad dockerfile
PS C:\Users\satis\docker-python> docker build -t docker-python .
[+] Building 62.8s (11/11) FINISHED docker:desktop-linux
=> [internal] load build definition from dockerfile 0.0s
=> => transferring dockerfile: 375B 0.0s
=> [internal] load metadata for docker.io/library/python:3.11-slim 6.3s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [1/5] FROM docker.io/library/python:3.11-slim@sha256:fba6f3b73795df99960 41.1s
=> => resolve docker.io/library/python:3.11-slim@sha256:fba6f3b73795df99960f 0.1s


docker desktop PERSONAL
Search Ctrl+K
Images Give feedback
Local My Hub
2.47 GB / 3.59 GB in use 15 images
Last refresh: 23 hours ago
Delete Space to be reclaimed 858.22 MB
Name Tag Image ID Created Size Actions
Terminal
Windows PowerShell
Run 'docker run --help' for more information
PS C:\Users\satis\docker-python> docker run -d -p 8080:5000 --name mypythonapp2 docker-python
5ce71daf28b771e5e94886d06daf5d4fb6f329ff6a2f5c5b4b3c5680f2cc97f7
PS C:\Users\satis\docker-python> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
PS C:\Users\satis\docker-python> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
5ce71daf28b7 docker-python "python app.py" About a minute ago Exited (1) About a minute ago mypythonapp2
cacb3c024db1 docker-python "python app.py" 2 minutes ago Created mypythonapp
14f1f74a8fa1 ubuntu:20.04 "/bin/bash" 19 minutes ago Exited (0) 10 minutes ago testcontainer
a70c143870c9 alpine "/bin/sh" 28 minutes ago Exited (0) 25 minutes ago alpine-php
ba0983df59a3 nginx "/docker-entrypoint.…" 43 minutes ago Exited (0) About a minute ago mynginx
a44f8c07fdea ubuntu:20.04 "/bin/bash" 58 minutes ago Exited (0) 54 minutes ago hardcore_jemison
b8cfbe86aff6 ubuntu:latest "/bin/bash" 3 hours ago Exited (127) 3 hours ago funny_varahamihira
a07d7b414df7 cd1dba651b30 "bash" 3 hours ago Exited (130) 3 hours ago practise-ubuntu
7564302a8a4f nginx "/docker-entrypoint.…" 3 hours ago Exited (0) 3 hours ago
Engine running
RAM 1.29 GB CPU 0.00% Disk: 6.52 GB used (limit 1006.85 GB)
Terminal Update available


Ask Gordon BETA
Containers
Images
Volumes
Kubernetes
Builds
Models
MCP Toolkit BETA
Docker Hub
Docker Scout
Extensions
Images Give feedback
Local My Hub
2.47 GB / 3.59 GB in use 15 images
Search
Delete
Name Tag Image ID Created Size
Terminal
886d06daf5d4fb6f329ff6a2f5c5b4b3c5680f2cc97f7". You have to remove (or rename) that container to be able to reuse that name.
Run 'docker run --help' for more information
PS C:\Users\satis\docker-python> docker run -d -p 5050:5000 --name mypythonapp12 docker-python
11c994fb151a6a32af6a5707e6dd8adaf37b0bff8d1a861b24fabf06f5a47dbe
PS C:\Users\satis\docker-python> notepad app.py
PS C:\Users\satis\docker-python> docker build -t docker-python .
[+] Building 3.7s (11/11) FINISHED docker:desktop-linux
=> [internal] load build definition from dockerfile 0.0s
=> => transferring dockerfile: 375B 0.0s
=> [internal] load metadata for docker.io/library/python:3.11-slim 3.1s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build context 0.0s
=> CACHED [4/5] RUN pip install --no-cache-dir -r requirements.txt 0.0s
=> [5/5] COPY . . 0.0s
=> exporting to image 0.2s
=> => exporting layers 0.1s
=> => exporting manifest sha256:c32e049ca5140889268c7ba59437de4eecf5eb033b7c 0.0s
=> => exporting config sha256:61b069a5278fce82ebc7eb82cef0a03cf496f987617907 0.0s
=> => exporting attestation manifest sha256:49a2779f20addb0b6a82ebf8cf1cd726 0.0s
=> => exporting manifest list sha256:b592b686452e138457649b2c9c28c8685c6b69f 0.0s
=> => naming to docker.io/library/docker-python:latest 0.0s
=> => unpacking to docker.io/library/docker-python:latest 0.0s
Engine running
RAM 1.27 GB CPU 0.00% Disk: 6.52 GB used (limit 1006.85 GB)


Kubernetes
Builds
Models
MCP Toolkit BETA
Docker Hub
Docker Scout
Extensions
Search
Delete
Space to be reclaim
Name
Tag
Image ID
Created
Size
Actions
Terminal
Windows Power
=> CACHED [4/5] RUN pip install --no-cache-dir -r requirements.txt 0.0s
=> [5/5] COPY . . 0.0s
=> exporting to image 0.2s
=> => exporting layers 0.1s
=> => exporting manifest sha256:c32e049ca5140889268c7ba59437de4eeef5eb033b7c 0.0s
=> => exporting config sha256:61b060a5278fce82ebc7eb82cef0a03cf496f987617907 0.0s
=> => exporting attestation manifest sha256:49a2779f20addb0b6a82ebf8cf1cd726 0.0s
=> => exporting manifest list sha256:b592b686452e138457649b2c9c28c8685c6b69f 0.0s
=> => naming to docker.io/library/docker-python:latest 0.0s
=> => unpacking to docker.io/library/docker-python:latest 0.0s
View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/ydmdcu5h7kv5yms532cr2cc5t
PS C:\Users\satis\docker-python> docker run -d -p 5050:5000 --name mypythonapp12 docker-python
docker: Error response from daemon: Conflict. The container name "/mypythonapp12" is already in use by container "11c994fb151a6a32af6a5707e6dd8adaf37b0bff8d1a861b24fabf06f5a47dbe". You have to remove (or rename) that container to be able to reuse that name.
Run 'docker run --help' for more information
PS C:\Users\satis\docker-python> docker run -d -p 5050:5000 --name mypythonapp123 docker-python
59769ca83a8338b042e225c42a3887376bd6a1791ef879619e17f6aa93b91309
PS C:\Users\satis\docker-python>