



OS Activity Container

1. Python File

```
 app.py > ...  
1   import os  
2  
3   secret_user = os.getenv("secret_user", "Unknown")  
4   print(f"Hello, {secret_user}!")  
5
```

2. Docker File

```
 Dockerfile > ...  
1   FROM python:3.9-slim  
2  
3   WORKDIR /app  
4  
5   COPY app.py .  
6  
7   CMD ["python", "app.py"]  
8
```

3. Build Image

```
~/Desktop/File/Study/3-2/OS Sys Prog/13 > main ?8
docker build -t os-docker-activity .
[+] Building 7.7s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 113B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/3] FROM docker.io/library/python:3.9-slim@sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e74190f0
=> => resolve docker.io/library/python:3.9-slim@sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e74190f0
=> => sha256:38e1512de14ab38f491ffe30986b322e3849dc2dc2d4f4dea5083ab22e5aab2d 1.37kB / 1.37kB
=> => sha256:53559251a170222e7b3246c32afe0d4cc7ad646f8006c3269040a77f8d9dac35 6.92kB / 6.92kB
=> => sha256:26070551e657534bdf420d43107e85b972b2e8c212413bbbe5d192bd2692c0a7 29.16MB / 29.16MB
=> => sha256:a86293a104aeca8f0afb101ae802e777d5020922c574ef074747ebc96aeec384 3.32MB / 3.32MB
=> => sha256:7026348db0125b806190a533878098f14f639becd3c84e377cfff3d2093c5a7a 11.86MB / 11.86MB
=> => sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e74190f0 1.86kB / 1.86kB
=> => sha256:7ab944183f1019509c44c5843225cc87db1167b7196d889e86c52b4d9f720cff 241B / 241B
=> => sha256:6436d78716e7298a9173d33755c75509efc7ca688cd8d7803c4773520e40aa41 3.13MB / 3.13MB
=> => extracting sha256:26070551e657534bdf420d43107e85b972b2e8c212413bbbe5d192bd2692c0a7
=> => extracting sha256:a86293a104aeca8f0afb101ae802e777d5020922c574ef074747ebc96aeec384
=> => extracting sha256:7026348db0125b806190a533878098f14f639becd3c84e377cfff3d2093c5a7a
=> => extracting sha256:7ab944183f1019509c44c5843225cc87db1167b7196d889e86c52b4d9f720cff
=> => extracting sha256:6436d78716e7298a9173d33755c75509efc7ca688cd8d7803c4773520e40aa41
=> [internal] load build context
=> => transferring context: 126B
=> [2/3] WORKDIR /app
=> [3/3] COPY app.py .
=> => exporting to image
=> => exporting layers
=> => writing image sha256:50dda84c33c8a6949d0841e2318616a583bed3ce0c76a850dded6de73ea7f1e4
=> => naming to docker.io/library/os-docker-activity
```

4. Test build

```
~/Desktop/File/Study/3-2/OS Sys Prog/13 > main ?8
docker run -e secret_user=Peem os-docker-activity
Hello, Peem!
```

5. Push Docker Image to Docker Hub

```
Apple > ~ / Desktop / File / Study / 3-2 / OS Sys Prog / 13 > main ?8
docker push punyaphatsura/os-docker-activity:latest
The push refers to repository [docker.io/punyaphatsura/os-docker-activity]
e3279d039f97: Pushed
f5f52c9ca47c: Pushed
b9d86a694252: Mounted from library/python
ccc520b5b889: Mounted from library/python
840adb9be7df: Mounted from library/python
635e23f01252: Mounted from library/python
6e5a1bc9659a: Mounted from library/python
latest: digest: sha256:562cd6acd9570b77b0f19c3081ebaa0de652ac33996be6a1dbdbf3f1a2a51638 size: 1783
```

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punyaphatsura/os-docker-activity

Updated 16 minutes ago

OS Activity 13

This repository does not have a category INCOMPLETE

Docker commands

To push a new tag to this repository:

```
docker push punyaphatsura/os-docker-activity:tagname
```

[Public View](#)

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	16 minutes ago	17 minutes ago

[See all](#)

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#)

[Upgrade](#)

6. Test Pull and Run in other team member device

```
Apple > ~ / De / W / C / Y / OS docker pull punyaphatsura/os-docker-activity:latest
Cannot connect to the Docker daemon at unix:///Users/natyaninchayanuwong/.docker/run/docker.sock. Is the docker daemon running?

Apple > ~ / De / W / C / Y / OS docker pull punyaphatsura/os-docker-activity:latest
latest: Pulling from punyaphatsura/os-docker-activity
26070551e657: Pull complete
a86293a104ae: Pull complete
7026348db012: Pull complete
7ab944183f10: Pull complete
6436d78716e7: Pull complete
310a9b0a6d82: Pull complete
7557e00f62a4: Pull complete
Digest: sha256:562cd6acd9570b77b0f19c3081ebaa0de652ac33996be6a1dbdbf3f1a2a51638
Status: Downloaded newer image for punyaphatsura/os-docker-activity:latest
docker.io/punyaphatsura/os-docker-activity:latest

Apple > ~ / De / W / C / Y / OS docker run -e secret_user=KrerK punyaphatsura/os-docker-activity:latest
Hello, Krerk!

Apple > ~ / De / W / C / Y / OS docker run -e secret_user=Pru punyaphatsura/os-docker-activity:latest
Hello, Pru!

Apple > ~ / Desktop / Work / Chula_University / Year3 / OS
```