

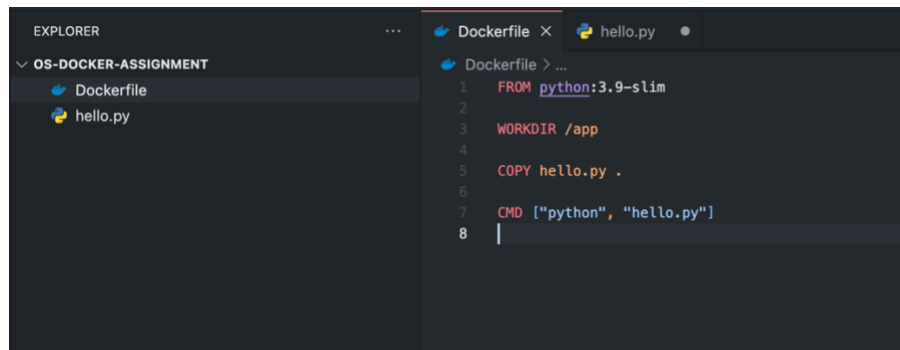
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Github : <https://github.com/YorJor/os-docker-assignment>

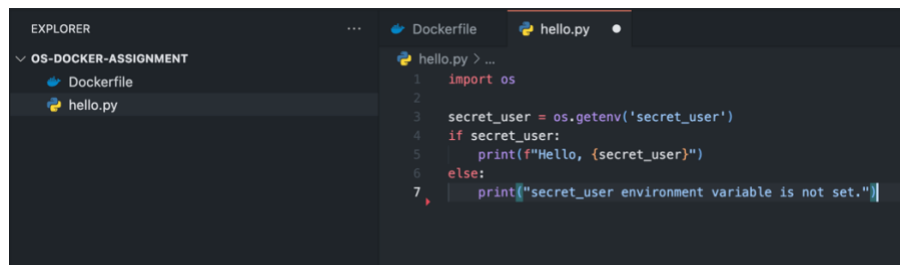
Step1 : Create docker file



The screenshot shows the VS Code interface with the Explorer on the left and the Dockerfile editor on the right. The Explorer shows a project named 'OS-DOCKER-ASSIGNMENT' with files 'Dockerfile' and 'hello.py'. The Dockerfile editor shows the following content:

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

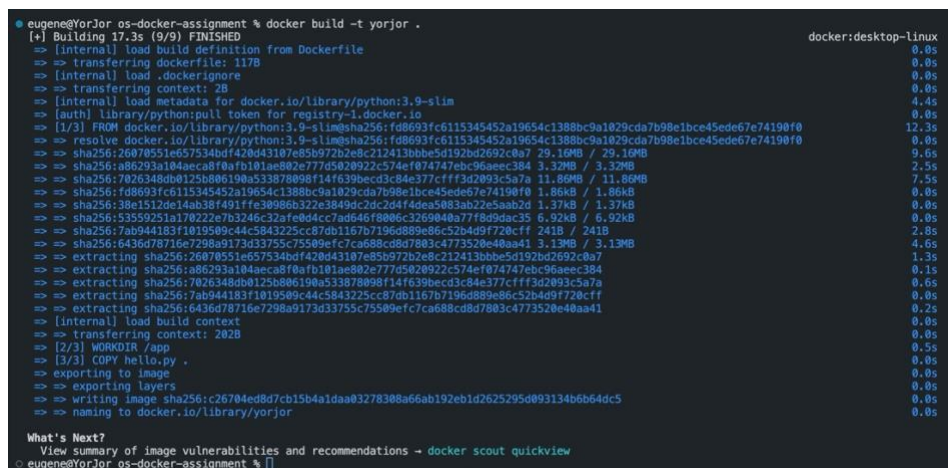
Step 2 : Create python file



The screenshot shows the VS Code interface with the Explorer on the left and the hello.py editor on the right. The Explorer shows the same project structure. The hello.py editor shows the following content:

```
1 import os
2
3 secret_user = os.getenv('secret_user')
4 if secret_user:
5     print(f"Hello, {secret_user}")
6 else:
7     print("secret_user environment variable is not set.")
```

Step 3 : Build docker image

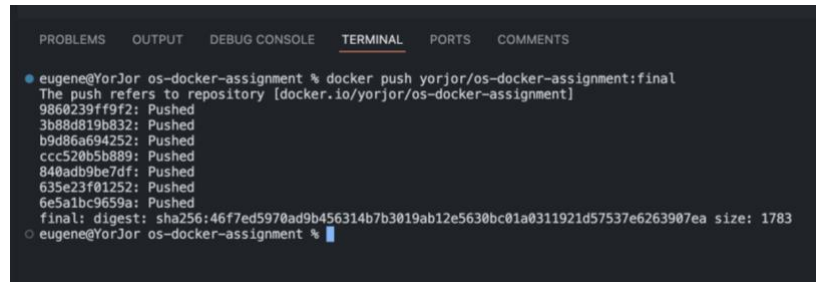


The screenshot shows a terminal window with the output of the command 'docker build -t yorjor .'.

```
eugene@YorJor os-docker-assignment % docker build -t yorjor .
[+] Building 17.3s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 117B
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load metadata for docker.io/library/python:3.9-slim
[auth] library/python:pull token for registry-1.docker.io
=> [1/3] FROM docker.io/library/python:3.9-slim@sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e74190f0
=> resolve docker.io/library/python:3.9-slim@sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e74190f0
=> sha256:26078551e657534bdf420d43107e85b972b2e8c212413bbbe5d192bd2692c0a7 29.10MB / 29.10MB
=> sha256:a86293a104eca8f0afb101ae802e777d5020922c574ef074747ebc96aeecc384 3.32MB / 3.32MB
=> sha256:7026348db0125b806190a533878090f14f639becd3c84e377cfff3d2093c5a7a 11.66MB / 11.66MB
=> sha256:fd8693fc6115345452a19654c1388bc9a1029cda7b98e1bce45ede67e74190f0 1.86kB / 1.86kB
=> sha256:38e1512de14ab38f491ffe30986b322e3849dc2dc2d4f4dea5083ab22e5aab2d 1.37kB / 1.37kB
=> sha256:53559251a170222e7b3246c32afe0d4cc7ad646f8006c3269040a77f8d9dac35 6.92kB / 6.92kB
=> sha256:7ab944183f1019509c44c5843225cc87db1167b7196d889e86c52b4d9f720cfff 241B / 241B
=> sha256:6436d78716e7290a9173d33755c75509efc7ca688cd87803c4773520e40aa41 3.13MB / 3.13MB
=> extracting sha256:26078551e657534bdf420d43107e85b972b2e8c212413bbbe5d192bd2692c0a7 1.3s
=> extracting sha256:a86293a104eca8f0afb101ae802e777d5020922c574ef074747ebc96aeecc384 0.1s
=> extracting sha256:7026348db0125b806190a533878090f14f639becd3c84e377cfff3d2093c5a7a 0.6s
=> extracting sha256:7ab944183f1019509c44c5843225cc87db1167b7196d889e86c52b4d9f720cfff 0.0s
=> extracting sha256:6436d78716e7290a9173d33755c75509efc7ca688cd87803c4773520e40aa41 0.2s
=> [internal] load build context
=> transferring context: 202B
=> [2/3] WORKDIR /app
=> [3/3] COPY hello.py .
=> exporting to image
=> exporting layers
=> writing image sha256:c26704ed8d7cb15b4ad9a83278388a66ab192ebd12625295d093134b6b64dc5 0.0s
=> naming to docker.io/library/yorjor 0.0s

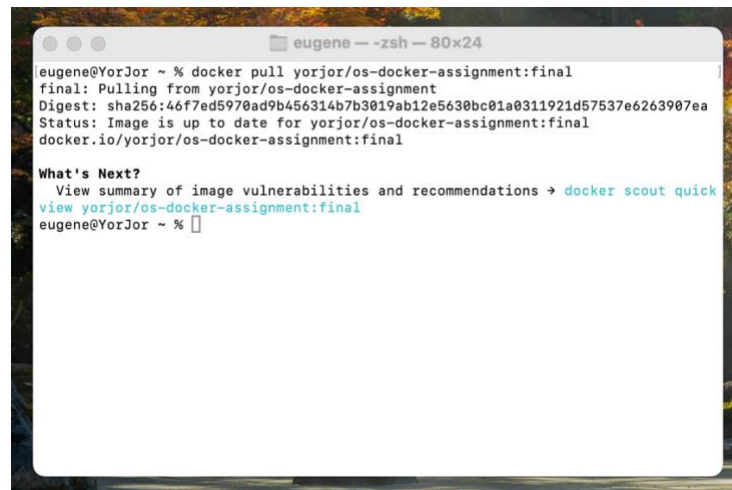
What's Next?
View summary of image vulnerabilities and recommendations - docker scout quickview
eugene@YorJor os-docker-assignment %
```

#### Step 4 : Push docker image to docker hub



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
eugene@YorJor os-docker-assignment % docker push yorjor/os-docker-assignment:final
The push refers to repository [docker.io/yorjor/os-docker-assignment]
9860239ff9f2: Pushed
3b88d819b832: Pushed
b9d86a694252: Pushed
ccc520b5b889: Pushed
840adb9be7df: Pushed
635e23f01252: Pushed
6e5a1bc9659a: Pushed
final: digest: sha256:46f7ed5970ad9b456314b7b3019ab12e5630bc01a0311921d57537e6263907ea size: 1783
eugene@YorJor os-docker-assignment %
```

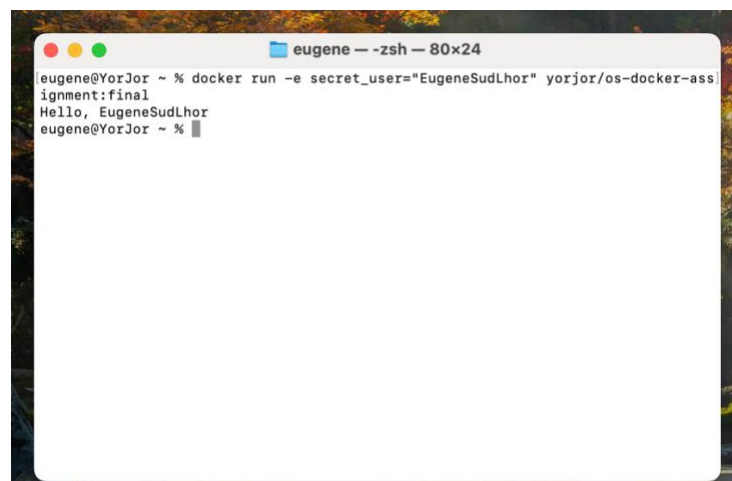
#### Step 5 : Pull docker image



```
eugene -- -zsh -- 80x24
eugene@YorJor ~ % docker pull yorjor/os-docker-assignment:final
final: Pulling from yorjor/os-docker-assignment
Digest: sha256:46f7ed5970ad9b456314b7b3019ab12e5630bc01a0311921d57537e6263907ea
Status: Image is up to date for yorjor/os-docker-assignment:final
docker.io/yorjor/os-docker-assignment:final

What's Next?
View summary of image vulnerabilities and recommendations → docker scout quick
view yorjor/os-docker-assignment:final
eugene@YorJor ~ %
```

#### Step 6 : Run pulled image



```
eugene -- -zsh -- 80x24
eugene@YorJor ~ % docker run -e secret_user="EugeneSudLhor" yorjor/os-docker-assignment:final
Hello, EugeneSudLhor
eugene@YorJor ~ %
```