

Problem 1 :

```
Activities Terminal Aug 6 15:36 root@Hermes: /home/yousry/Desktop/Docker-Lab1

yousry@Hermes:~/Desktop/Docker-Lab1$ docker volume create staticfiles
staticfiles
yousry@Hermes:~/Desktop/Docker-Lab1$ docker volume create configfiles
configfiles
yousry@Hermes:~/Desktop/Docker-Lab1$ docker run -d -v staticfiles:/usr/share/nginx/html -v configfiles:/etc/nginx/conf.d nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
efc2b5ad9eec: Pull complete
8fe9a55eb80f: Pull complete
045037a63be8: Pull complete
711b42b4bfa: Pull complete
3dfc528a4df9: Pull complete
9e891cdb453b: Pull complete
0f11e17345c5: Pull complete
Digest: sha256:6af79ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aa1ed93f5511bb18c
Status: Downloaded newer image for nginx:latest
eb9bb55d5066bdbab8e8a539b0834c4736492543a1f4766e36c9d6efde191f2fa
yousry@Hermes:~/Desktop/Docker-Lab1$ docker volume ls
DRIVER      VOLUME NAME
local       1f13e5a4015a4e0fad5983aeb76b884bea4a284bb244d885c78fe9394a70912
local       configfiles
local       d3446684cf6c0a7968a6d9e02ee8dbf127f7bdca55d350b19021299b4b082297
local       jenkins_home
local       minikube
local       staticfiles
local       yousry_postgresql
local       yousry_postgresql_data
local       yousry_sonarqube_data
local       yousry_sonarqube_extensions
local       yousry_sonarqube_logs
```

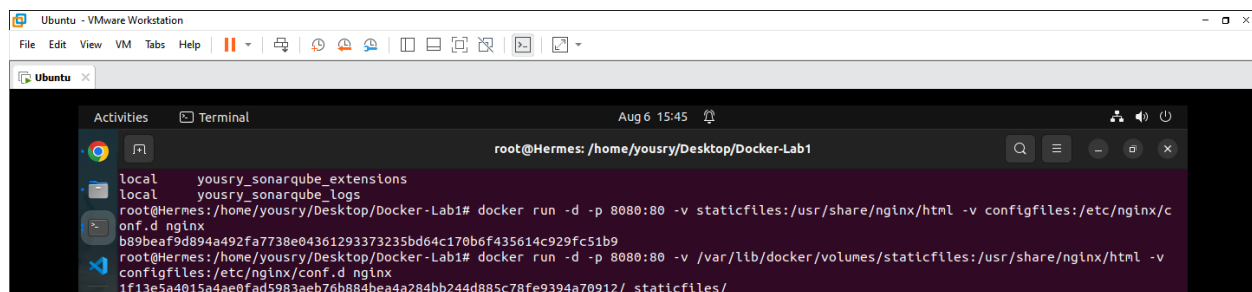
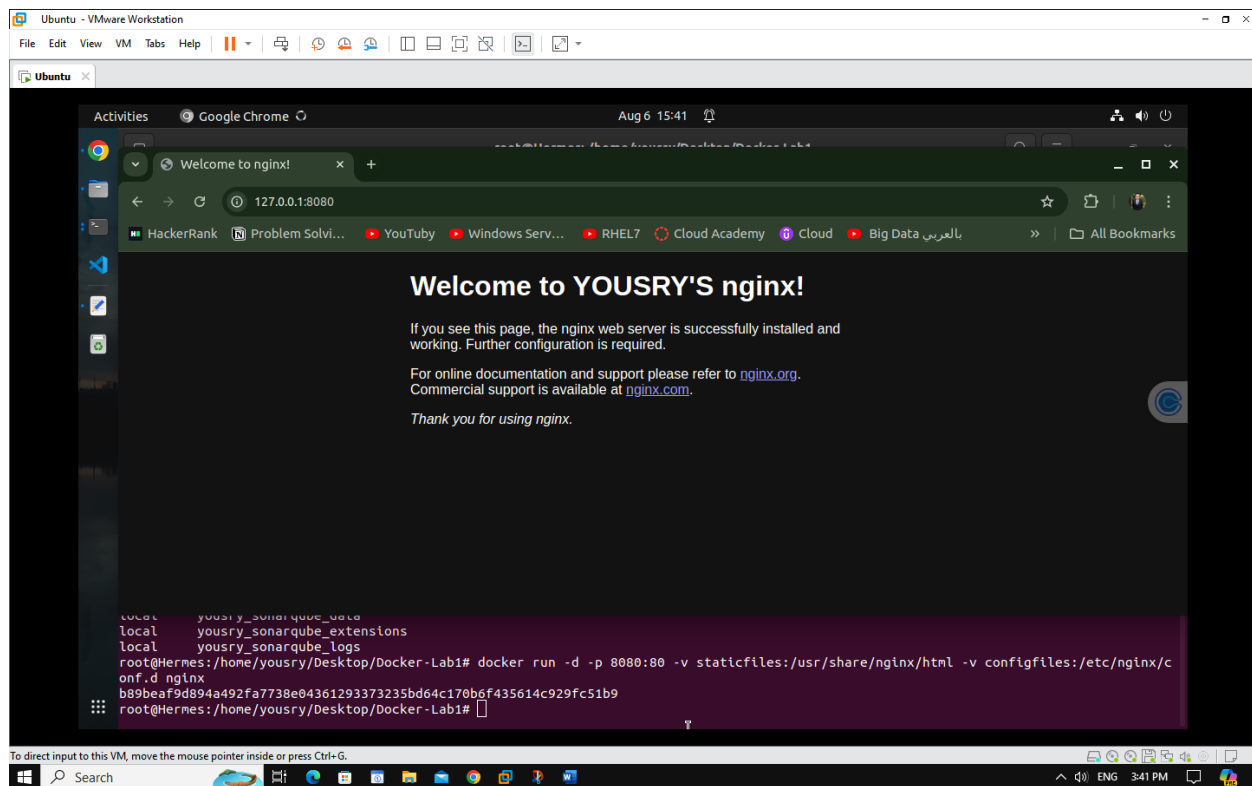
```
Ubuntu - VMware Workstation
File Edit View VM Tabs Help
Ubuntu
Activities Terminal Aug 6 15:37 root@Hermes: /home/yousry/Desktop/Docker-Lab1

<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to YOUSRY'S nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>

"/var/lib/docker/volumes/staticfiles/_data/index.html" 23L, 624B 12,23 All
```



Problem 2 :

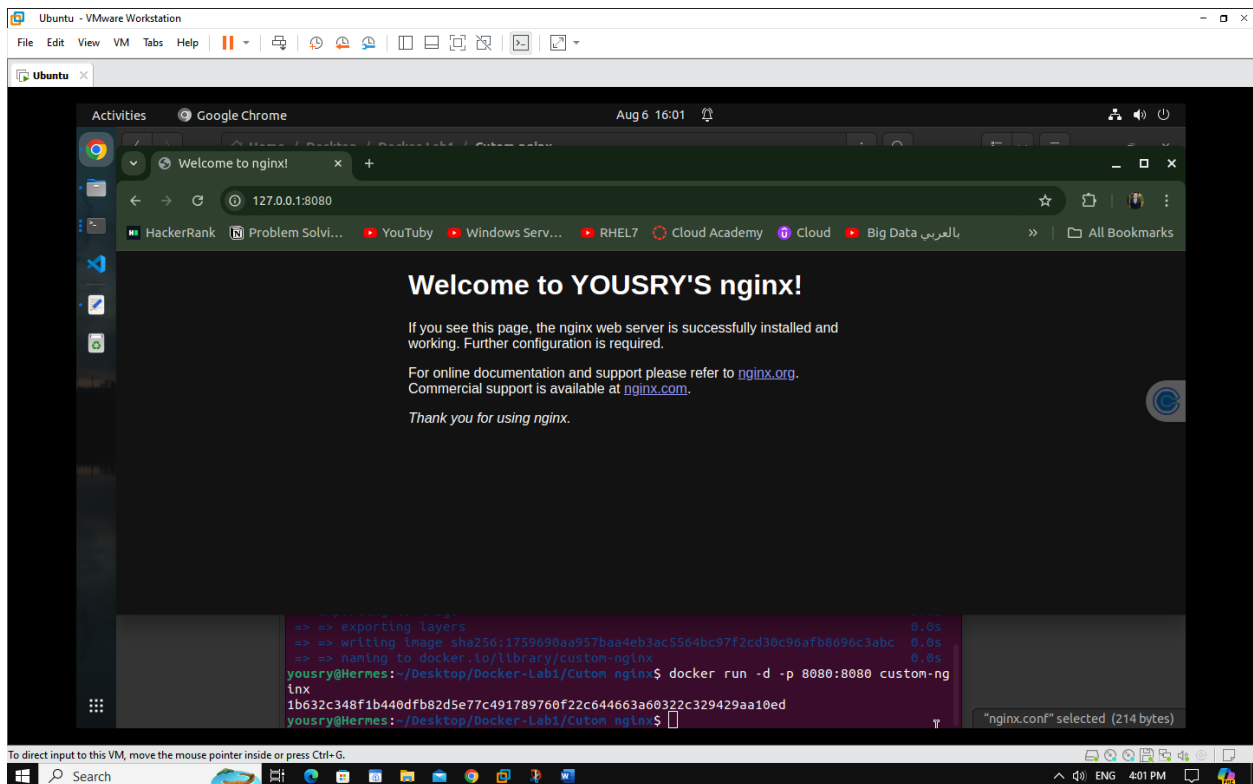
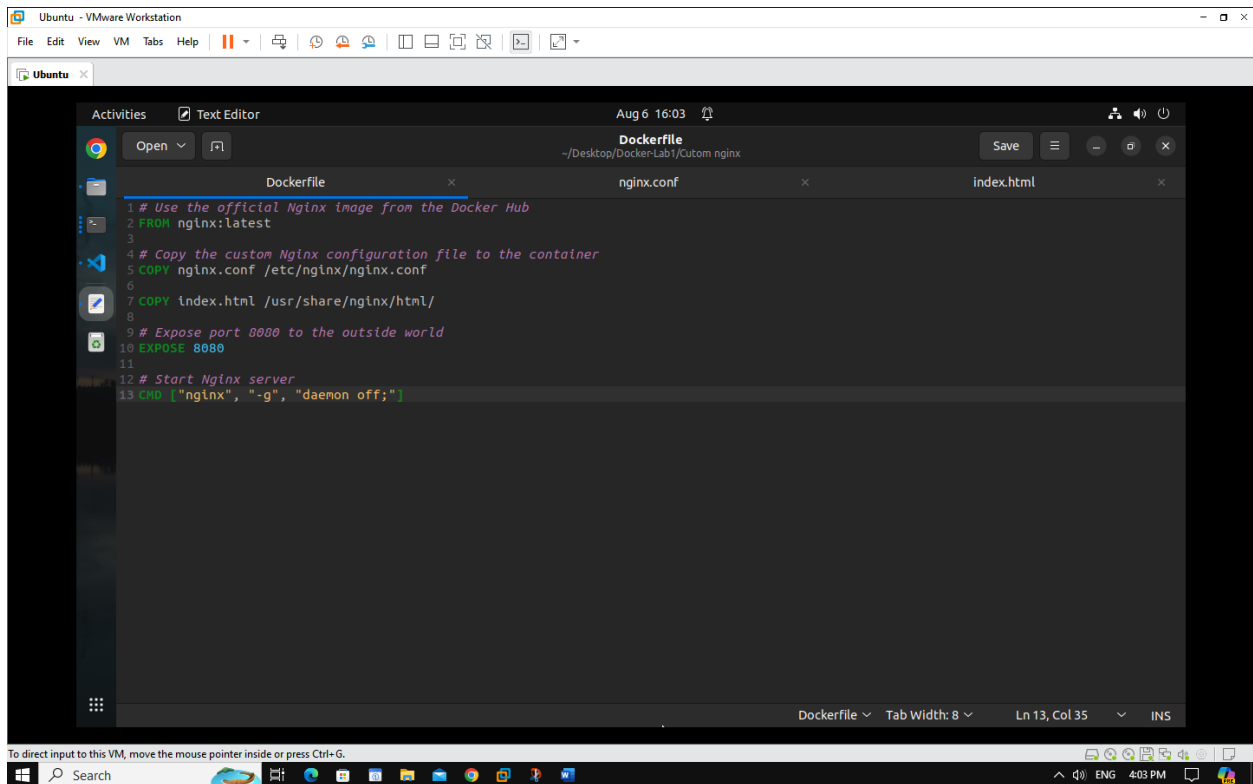
The image displays two screenshots of a VMware Workstation interface, showing an Ubuntu virtual machine. The top screenshot shows the 'index.html' file in a text editor, and the bottom screenshot shows the 'nginx.conf' file.

Top Screenshot: index.html

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Welcome to nginx!</title>
5 <style>
6 html { color:scheme: light dark; }
7 body { width: 35em; margin: 0 auto;
8 font-family: Tahoma, Verdana, Arial, sans-serif; }
9 </style>
10 </head>
11 <body>
12 <h1>Welcome to YOUSRY'S nginx!</h1>
13 <p>If you see this page, the nginx web server is successfully installed and
14 working. Further configuration is required.</p>
15
16 <p>For online documentation and support please refer to
17 <a href="http://nginx.org/">nginx.org</a>.<br/>
18 Commercial support is available at
19 <a href="http://nginx.com/">nginx.com</a>.</p>
20
21 <p><em>Thank you for using nginx.</em></p>
22 </body>
23 </html>
```

Bottom Screenshot: nginx.conf

```
1 worker_processes 1;
2
3 events {
4     worker_connections 1024;
5 }
6
7 http {
8     server {
9         listen 8080;
10
11         location / {
12             root /usr/share/nginx/html;
13             index index.html;
14         }
15     }
16 }
17
```



Problem 3 :

```
Open  hello.py  Save  ~/Desktop/dockerLab1
1 from flask import Flask
2 app = Flask(__name__)
3
4 @app.route('/')
5 def hello_world():
6     return 'Hello, World! From Docker!'
7
8
9 if __name__ == '__main__':
10     app.run(host='0.0.0.0', port=5000)
```

```
*requirements.txt  hello.py  Dockerfile
1 flask
```

```
Dockerfile  *requirements.txt  hello.py
1 FROM python:latest
2
3 WORKDIR /app
4
5 COPY requirements.txt .
6
7 RUN pip install -r requirements.txt
8
9 COPY hello.py .
10
11 EXPOSE 5000
12
13 CMD ["python", "hello.py"]
```

Ubuntu - VMware Workstation

File Edit View VM Tabs Help

Aug 6 16:15

Activities Terminal Dockerfile

Welcome to nginx! localhost:5000

localhost:5000

Hello, World! From Docker!

yousry@Hermes: ~

Package	Version	Architecture	Size	Install Date
engyousry/nti-python-app	4	amd64	2d7ddfaa3bd7	3 months ago
engyousry/nti-python-app	3	amd64	fc9dcd9fa732	3 months ago
MoVousry510/nti-python-app	2	amd64	39c253944a41	3 months ago
gcr.io/k8s-minikube/kicbase	v0.0.43	amd64	619d67e74933	3 months ago
jenkins/jenkins	latest	amd64	95a77343608f	3 months ago
ubuntu	latest	amd64	7af9ba4f0a47	3 months ago
python	3.8-slim	amd64	5b29acce18dd	4 months ago
hello-world	latest	amd64	d2c94e258dc8	15 months ago
gradle	7.3.3-jdk11	amd64	7430fae7a2c3	2 years ago
adoptopenjdk	11-jre-hotspot	amd64	2c57fb3bc67b	2 years ago

```
yousry@Hermes:~$ docker run -d -p 5000:5000 pyflask
32e19b68cb1d558b29e7cabb1e9957ce7cf40af4e77410c9beac78e7435ac8ae
yousry@Hermes:~$
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

Search

ENG 4:15 PM