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The steps have been followed according to the assignment.

ISSUES FACED:

C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker-compose up --build - d

validating C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge\docker-compose.yaml: networks.nginx-network Additional property options is not allowed

Error in docker-compose.yaml file,

- 1)changed "eighty:80" to :80:80"
- 2) changed "eight thousand" to "8000:8000"
- 3) changed expose:
 - "eight thousand" to ports:
 - "8000:8000"

Expose makes port accessible only to other services within the same docker network.

Ports help in creating mapping between localhost and the container.

- 4) changed ./nginx/nginx.conf:/etc/nginx/nginx.conf to ./nginx/nginx.conf:/etc/nginx/nginx.conf
- 5) networks:

nginx-network:

driver: bridg

options:

compelex_option: value to

networks:

nginx-network:

driver: bridge

6) build:

context: ./nginx

dockerfile: Dockerfile

context specifies docker where to look for files.

Build specifies how docker should an image for a service.

Dockerfile specifies name of dockerfile.

Similarly, build:

context: ./python

dockerfile: Dockerfile

C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker-compose up --build - d

time="2024-10-31T11:18:41+05:30" level=warning msg="C:\\Users\\aksha\\OneDrive\\Desktop\\tester\\devops-internship-challenge\\docker-compose.yaml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

[+] Building 0.9s (4/4) FINISHED

docker:desktop-linux

=> [python-app internal] load build definition from Dockerfile

0.2s

=> => transferring dockerfile: 182B

0.1s

=> [nginx internal] load build definition from Dockerfile

0.2s

=> => transferring dockerfile: 187B

0.1s

=> CANCELED [nginx internal] load metadata for docker.io/library/nginx:latests

0.6s

=> [python-app internal] load metadata for docker.io/library/python:3.9

0.3s

failed to solve: failed to process "\"eight": unexpected end of statement while looking for matching double-quote

Found errors in nginx dockerfile,

- 1) FROM nginx:latests to FROM nginx:latest
- 2) COPY nginix.conf /etc/nginx/nginx.conf to COPY nginx.conf /etc/nginx/nginx.conf
- 3) Remove COPY ./html /usr/share/nginx/htmll
- 4) EXPOSE "eighty" to EXPOSE 80
- 5) CMD ["nginx", "-g", "daemon of;"] to CMD ["nginx", "-g", "daemon off;"]

#IMPORTANT STEPS OF WORK

C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker-compose up --build - d

time="2024-10-31T11:20:43+05:30" level=warning

msg="C:\\Users\\aksha\\OneDrive\\Desktop\\tester\\devops-internship-challenge\\docker-compose.yaml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

[+] Building 4.4s (13/13) FINISHED

docker:desktop-linux

=> [nginx internal] load build definition from Dockerfile

0.1s

=> => transferring dockerfile: 187B

0.1s

=> [python-app internal] load build definition from Dockerfile

0.1s

=> => transferring dockerfile: 170B	0.1s	
=> [python-app internal] load metadata for docker.io/library/pythor	n:3.9 0.2s	
=> ERROR [nginx internal] load metadata for docker.io/library/nginx	:latests 4.0s	
=> [python-app internal] load .dockerignore	0.0s	
=> => transferring context: 2B	0.0s	
=> [python-app 1/4] FROM docker.io/library/python:3.9@sha256:ed8b9dd4e9f89c111f4bdb85a55f8c9f0e227 3.8s		
=> => resolve docker.io/library/python:3.9@sha256:ed8b9dd4e9f89c111f4bdb85a 3.8s	a55f8c9f0e22796a29844938	
=> [python-app internal] load build context	0.0s	
=> => transferring context: 1.25kB	0.0s	
=> [nginx auth] library/nginx:pull token for registry-1.docker.io	0.0s	
=> [python-app auth] library/python:pull token for registry-1.docker	c.io 0.0s	
=> CACHED [python-app 2/4] WORKDIR /app	0.0s	
=> CACHED [python-app 3/4] COPY app.py /app	0.0s	
=> CACHED [python-app 4/4] RUN pip install flask netifaces	0.0s	
=> CANCELED [python-app] exporting to image	0.0s	
=> => exporting layers 0.	0s	
=> => exporting manifest sha256:552b15b646e50b28bcdedd57f2bb24a981e19f7d1961b12c39ab1887639f9173 0.0s		
=> => exporting config sha256:b419f8ca66546cf5d6fb1b065c02a53cfc29517d9b409b1b2bb88858c9160e2a 0.0s		
> [nginx internal] load metadata for docker.io/library/nginx:latests:		
failed to solve: nginx:latests: failed to resolve source metadata for docker.io/library/nginx:latests: docker.io/library/nginx:latests: not found		
FOUND ERRORS IN PYTHON DOCKERFILE AND nginx.conf		
WORKDIR /appp to WORKDIR /app		
COPY appy.py /app to COPY app.py /app		
RUN pip install flask netiface to RUN pip install flask netifaces		
EXPOSE "eight thousand" to EXPOSE 8000		

CMD ["pythn", "app.py"] to CMD ["python", "app.py"] worker_process auto to worker_processes auto; worker_connection 1024; to worker_connections 1024; include /etc/nginx/mime.typess; default_typ application/octet-stream; to include /etc/nginx/mime.types; default_type application/octet-stream;

C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker-compose up --build d

time="2024-10-31T11:25:45+05:30" level=warning msg="C:\\Users\\aksha\\OneDrive\\Desktop\\tester\\devops-internship-challenge\\dockercompose.yaml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"

[+] Building 1.5s (18/18) FINISHED	docker:desktop-linux
=> [nginx internal] load build definition from Dockerfile	0.1s

=> => transferring dockerfile: 142B 0.0s

=> [python-app internal] load build definition from Dockerfile 0.1s

=> => transferring dockerfile: 170B 0.0s

=> [python-app internal] load metadata for docker.io/library/python:3.9 0.1s

=> [nginx internal] load metadata for docker.io/library/nginx:latest 0.1s

=> [nginx internal] load .dockerignore 0.0s

=> => transferring context: 2B 0.0s

=> [python-app internal] load .dockerignore 0.1s

0.0s => => transferring context: 2B

=> [nginx internal] load build context 0.0s

=> => transferring context: 592B 0.0s

=> [nginx 1/2] FROM

docker.io/library/nginx:latest@sha256:28402db69fec7c17e179ea87882667f1e0543911 0.1s

=> => resolve

docker.io/library/nginx:latest@sha256:28402db69fec7c17e179ea87882667f1e054391138f77f 0.1s

=> [python-app 1/4] FROM

docker.io/library/python:3.9@sha256:ed8b9dd4e9f89c111f4bdb85a55f8c9f0e227 0.1s

docker.io/library/python:3.9@sha256:ed8b9dd4e9f89c111f4bdb8	85a55f8c9f0e22796a29844938	
=> [python-app internal] load build context	0.0s	
=> => transferring context: 28B	0.0s	
=> CACHED [nginx 2/2] COPY nginx.conf /etc/nginx/nginx.conf	0.0s	
=> [nginx] exporting to image	0.5s	
=> => exporting layers	0.0s	
=> => exporting manifest sha256:cf8b973f0e0ace96c645047cebf4ca7af410de15f4826470a852ec0bb04122b7 0.0s		
=> => exporting config sha256:80d780602b707280461883f8f30b2de49c9cf00b435557b691eb07c92cbb44e3 0.0s		
=> => exporting attestation manifest sha256:a410d2da260e8e15493c4f98f0c57e9dd00905e8940a6a7cd344d3 0.1s		
=> => exporting manifest list sha256:67f2f33e79c99ba6e06ffec3c8c4056b3c98a55b0303792df54527e2fa8a9 0.1s		
=> => naming to docker.io/library/local-nginx:latest	0.0s	
=> => unpacking to docker.io/library/local-nginx:latest	0.1s	
=> CACHED [python-app 2/4] WORKDIR /app	0.0s	
=> CACHED [python-app 3/4] COPY app.py /app	0.0s	
=> CACHED [python-app 4/4] RUN pip install flask netifaces	0.0s	
=> [python-app] exporting to image	0.5s	
=> => exporting layers	0.0s	
=> => exporting manifest sha256:552b15b646e50b28bcdedd57f2bb24a981e19f7d1961b12c39ab1887639f9173 0.0s		
=> => exporting config sha256:b419f8ca66546cf5d6fb1b065c02a53cfc29517d9b409b1b2bb88858c9160e2a 0.0s		
=> => exporting attestation manifest sha256:25a62af3ec871b087a55c52f70949d1a7cea1ba7dac91c7fb6077a 0.1s		
=> => exporting manifest list sha256:aacc28344521a3be913fa4f3ae52a23467b0ead584290b03	38dc47ee769991 0.1s	
=> => naming to docker.io/library/local-python-app:latest	0.1s	
=> => unpacking to docker.io/library/local-python-app:latest	0.1s	
=> [nginx] resolving provenance for metadata file	0.0s	

=> => resolve

=> [python-app] resolving provenance for metadata file

0.0s

[+] Running 2/2

✓ Container devops-internship-challenge-nginx-1 Started

3.7s

√ Container python_app

Started

3.7s

#BOTH THE NGINX AND PYTHON APP CONTAINER START

C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker container Is

CONTAINER ID IMAGE

COMMAND

CREATED

STATUS

PORTS

NAMES

cd4d1b84dbe0 local-python-app "python app.py"

12 seconds ago Up 11 seconds

 $0.0.0.0:8000 \text{->} 8000/\text{tcp} \quad \text{python_app}$

e1601453b8fd local-nginx

"/docker-entrypoint...." 12 seconds ago Up 11 seconds 0.0.0.0:80-

>80/tcp devops-internship-challenge-nginx-1

C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker compose ps

time="2024-10-31T11:27:23+05:30" level=warning

msg="C:\\Users\\aksha\\OneDrive\\Desktop\\tester\\devops-internship-challenge\\docker-compose.yaml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

NAME

IMAGE

COMMAND

SERVICE

CREATED S

STATUS

PORTS

python_app

devops-internship-challenge-nginx-1 local-nginx

"/docker-entrypoint...." nginx

x About a

minute ago Up About a minute 0.0.0.0:80->80/tcp

local-python-app "python app.py"

python-app About a minute

ago Up About a minute 0.0.0.0:8000->8000/tcp

C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker-compose logs python-app

time="2024-10-31T11:28:50+05:30" level=warning

msg="C:\\Users\\aksha\\OneDrive\\Desktop\\tester\\devops-internship-challenge\\docker-compose.yaml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

python_app | * Serving Flask app 'app'

python_app | * Debug mode: off

python_app | WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

```
python_app | * Running on all addresses (0.0.0.0)
python_app | * Running on http://127.0.0.1:8000
python_app | * Running on http://172.20.0.2:8000
python_app | Press CTRL+C to quit
python_app | 172.20.0.1 - - [31/Oct/2024 05:56:17] "GET / HTTP/1.1" 200 -
python_app | 172.20.0.1 - - [31/Oct/2024 05:56:35] "GET / HTTP/1.1" 200 -
C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker-compose logs nginx
time="2024-10-31T11:28:56+05:30" level=warning
msg="C:\\Users\\aksha\\OneDrive\\Desktop\\tester\\devops-internship-challenge\\docker-
compose.yaml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid
potential confusion"
nginx-1 | /docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform
configuration
nginx-1 | /docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
nginx-1 | /docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
nginx-1 | 10-listen-on-ipv6-by-default.sh: info: Getting the checksum of
/etc/nginx/conf.d/default.conf
nginx-1 | 10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in
/etc/nginx/conf.d/default.conf
nginx-1 | /docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
nginx-1 | /docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
nginx-1 | /docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
nginx-1 | /docker-entrypoint.sh: Configuration complete; ready for start up
C:\Users\aksha\OneDrive\Desktop\tester\devops-internship-challenge>docker exec -it devops-
internship-challenge-nginx-1 curl http://python_app:8000
  <html>
  <body>
    <b>IP Address:</b> 172.20.0.2
    <b>MAC Address:</b> 00:00:00:00:00:00
    <b>Username:</b> Guest
```

Timestamp: 2024-10-31 06:11:46

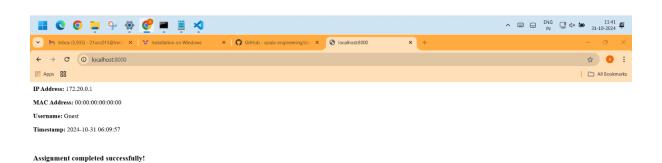
```
<br/><h3>Assignment completed successfully!</h3></body></html>
```

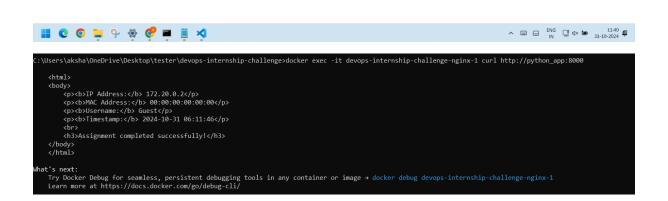
What's next:

Try Docker Debug for seamless, persistent debugging tools in any container or image \rightarrow docker debug devops-internship-challenge-nginx-1

Learn more at https://docs.docker.com/go/debug-cli/







```
College valuable Note Prive Note National Processing College (Note 11:15)

Memory intermality challenge running(2)

College Valuable Note (Note 11:15)

College Valuable Note (Note (Note (Note 11:15)

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```