

**Issue #1 :-** While building the docker container identified typos in the Dockerfile and the docker-compose.yaml which are fixed in the following [commit#1](#)

```
MINGW64/C/Users/ASUS/qaala-assignment/devops-internship-challenge/Python
cd devops-internship-challenge/

$ git remote remove origin
$ git remote add origin https://github.com/leeladhar04/qaala-internship-process.git
$ git init
$ echo "# qaala-internship-process" >> README.md
$ git add README.md
$ git commit -m "First commit"
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
$ git push -u origin main
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 16 threads
Compressing objects: 100% (19/19), done.
Writing objects: 100% (26/26), 10.44 KiB | 10.44 MiB/s, done.
Total 26 (delta 9), reused 21 (delta 7), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/leeladhar04/qaala-internship-process.git
 * [new branch]    main -> main
branch 'main' set up to track 'origin/main'.

$ cd Python/
$ docker build -t local-python-app -f Dockerfile .
#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 182B done
#1 DONE 0.0s
#2 [internal] load metadata for docker.io/library/python:3.9
#2 DONE 2.8s
Dockerfile#9
-----
#9 | RUN pip install flask netifac
#9 |
#9 | >>> EXPOSE "eight thousand"
#9 |
#9 | CMD ["python", "app.py"]
-----
ERROR: failed to solve: failed to process "\"eight\": unexpected end of statement while looking for matching double-quote"
```

**Issue #2 :-** Identified issue while running the containers using docker-compose.yaml that nginx Dockerfile that had reference to an html file that is not present and had typos along with having additional property “options”, also fixed typos in nginx.conf file in the following [commit#2](#)

```
MINGW64/C/Users/ASUS/qaala-assignment/devops-internship-challenge/Python
cd devops-internship-challenge/

$ echo "# qaala-internship-process" >> README.md
$ git init
$ git add README.md
$ git commit -m "First commit"
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
$ git push -u origin main
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 16 threads
Compressing objects: 100% (19/19), done.
Writing objects: 100% (26/26), 10.44 KiB | 10.44 MiB/s, done.
Total 26 (delta 9), reused 21 (delta 7), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/leeladhar04/qaala-internship-process.git
 * [new branch]    main -> main
branch 'main' set up to track 'origin/main'.

$ cd Python/
$ docker build -t local-python-app -f Dockerfile .
#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 182B done
#1 DONE 0.0s
#2 [internal] load metadata for docker.io/library/python:3.9
#2 DONE 2.8s
Dockerfile#9
-----
#9 | RUN pip install flask netifac
#9 |
#9 | >>> EXPOSE "eight thousand"
#9 |
#9 | CMD ["python", "app.py"]
-----
ERROR: failed to solve: failed to process "\"eight\": unexpected end of statement while looking for matching double-quote"
```

```
MINGW64/C/Users/ASUS/qaala-assignment/devops-internship-challenge/Python
cd devops-internship-challenge/

$ docker-compose -f docker-compose.yaml up
validating C:\Users\ASUS\qaala-assignment\devops-internship-challenge\docker-compose.yaml: networks.nginx-network Additional property options is not allowed
```

```

C:\MINGW64\bin\ASUS\qaala-assignment\devops-internship-challenge/nginx
[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge\Python (main)]
docker-compose up
[WARNING] C:\Users\ASUS\qaala-assignment\devops-internship-challenge\docker-compose.yml: networks.nginx-network: Additional property options is not allowed
[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge\Python (main)]
docker-compose up
time="2024-11-03T01:25:18.051307" level=warning msg="C:\Users\ASUS\qaala-assignment\devops-internship-challenge\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
nginx Pulling
Error: pull access denied for local-nginx, repository does not exist or may require 'docker login'
Error response from daemon: pull access denied for local-nginx, repository does not exist or may require 'docker login'
[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge\Python (main)]
pwd
C:\Users\ASUS\qaala-assignment\devops-internship-challenge\Python
[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge\Python (main)]
cd .
[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge (main)]
ls
LICENSE Python/ README.md docker-compose.yml nginx/
[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge (main)]
cd nginx/
[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge/nginx (main)]
docker build -t local-nginx .
[INFO] building with "desktop-linux" instance using docker driver
[internal] load build definition from Dockerfile
[+] transferring dockerfile: 1878 B.0s done
[+] DONE 0.0s
[internal] load metadata for docker.io/library/nginx:latest
[ERROR] docker.io/library/nginx:latest: not found
[internal] load metadata for docker.io/library/nginx:latest:
-----
dockerfile1
[+] 1 | FROM nginx:latest
[+] 2 | COPY nginx.conf /etc/nginx/nginx.conf
[+] 3 | COPY ./html /usr/share/nginx/html
-----
[ERROR] failed to solve: nginx:latest: failed to resolve source metadata for docker.io/library/nginx:latest: docker.io/library/nginx:latest: not found
[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge/nginx (main)]
docker build -t local-nginx .
[INFO] building with "desktop-linux" instance using docker driver
[internal] load build definition from Dockerfile
[+] transferring dockerfile: 1798 B.0s done
[+] DONE 0.0s
[internal] load metadata for docker.io/library/nginx:latest
[+] DONE 1.8s
[internal] load .dockerignore
[+] transferring context: 28 B.0s done
[+] DONE 0.0s
[internal] load build context
[+] transferring context: 1888 B.0s done
[+] DONE 0.1s
[2/3] COPY nginx.conf /etc/nginx/nginx.conf
[+] CACHED
[3/3] COPY ./html /usr/share/nginx/html
[+] ERROR: failed to calculate checksum of ref na1easdpdg0akjsinfjoxs:u45inb4p1p1ngas1179ejrdp0: "/html": not found

```

## Running the containers

```

[USBLAPTOP-9V20096C MINGW64 ~\qaala-assignment\devops-internship-challenge/nginx
( main)]
[INFO] docker-compose up --build
time="2024-11-03T12:51:14.405130" level=warning msg="C:\Users\ASUS\qaala-assignment\devops-internship-challenge\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
Network devops-internship-challenge_nginx-network Creating
Network devops-internship-challenge_nginx-network Created
Container python_app Creating
Container devops-internship-challenge-nginx-1 Creating
Container python_app Created
Container devops-internship-challenge-nginx-1 Created
Attaching to nginx-1, python_app
nginx-1 | /docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will at
tempt to perform configuration
nginx-1 | /docker-entrypoint.sh: Looking for shell scripts in /docker-entryp
oint.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 /et
c/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-reso
lvers.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-work
er-processes.sh
nginx-1 | /docker-entrypoint.sh: Configuration complete; ready for start up
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 producti
on deployment. Use a production WSGI server instead.
python_app | * Running on all addresses (0.0.0.0)
python_app | * Running on http://172.18.0.1:8000
python_app | * Running on http://172.18.0.2:8000
python_app | Press CTRL+C to quit
nginx-1 | 172.18.0.3 - - [03/Nov/2024 07:21:16] "GET / HTTP/1.0" 200 -
nginx-1 | 172.18.0.1 - - [03/Nov/2024 07:21:16 +0000] "GET / HTTP/1.1" 200 3
00 "-" Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, li
ke Gecko) Chrome/130.0.0.0 Safari/537.36"
python_app | 172.18.0.3 - - [03/Nov/2024 07:21:17] "GET /favicon.ico HTTP/1.0"
404
nginx-1 | 172.18.0.1 - - [03/Nov/2024 07:21:17 +0000] "GET /favicon.ico HTTP
/1.1" 404 207 "https://172.0.0.1/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) App
leWebKit/537.36 (KHTML, like Gecko) Chrome/130.0.0.0 Safari/537.36"

```

127.0.0.1

127.0.0.1

IP Address: 172.18.0.3  
MAC Address: 00:00:00:00:00:00  
Username: Guest  
Timestamp: 2024-11-03 07:21:16

Assignment completed successfully!

## Nginx Access logs

```
ASUSLAPTOP-9V2009KC: WINGW64 ~
$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS
1e012ed1dc91d   local-python-app                    "python app.py"         17 minutes ago   Up 1
7 minutes     8000/tcp                                python_app
4e02c0a036c6   local-nginx                          "/docker-entrypoint.    17 minutes ago   Up 1
7 minutes     0.0.0.0:80->80/tcp                      devops-internship-challenge-nginx-1

ASUSLAPTOP-9V2009KC: WINGW64 ~
$ docker logs devops-internship-challenge-nginx-1
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
172.18.0.1 - - [03/Nov/2024:07:21:16 +0000] "GET / HTTP/1.1" 200 305 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/130.0.0.0 Safari/537.36"
172.18.0.1 - - [03/Nov/2024:07:21:17 +0000] "GET /favicon.ico HTTP/1.1" 404 307 "https://172.0.0.1/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/130.0.0.0 Safari/537.36"
```