

## Qoala- DevOps Assignment: Debugging and Running a Dockerized Application

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BONUS POINTS ASSIGNMENT:-

IP ADDRESS DETAILS : 13.235.67.224:8000

The goal of the assignment was to debug and deploy a Dockerized application.

Issues Identified in different files:

### 1. Python Directory:

#### (a) In app.py file:

Installed Netifaces package

#### (b) In Python docker file:

Fixed the following syntax errors:

- WORKDIR / **appp** -> WORKDIR->**app**
- COPY **appy.py** /app -> COPY app.py / **app**
- EXPOSE "**eight thousand**" -> EXPOSE **8000**

### 2. nginx Directory:

#### (a) In nginx.conf file:

Fixed the following syntax errors:

- **worker\_process** auto -> **worker\_processes** auto;
- include /etc/nginx/mime.**typess**; -> include /etc/nginx/mime.**types**;
- default\_**typ** application/octet-stream; ->default\_**type** application/octet-stream;
- proxy\_pass http://python\_app:8000; -> proxy\_pass http://**python-app**:8000; (**The hyphen is valid for Docker service names.**)

#### (b) In the nginx docker file:

- FROM nginx:**latests** -> FROM nginx:**latest**
- COPY **nginix.conf** /etc/nginx/nginx.conf -> COPY **nginx.conf** /etc/nginx/nginx.conf
- COPY ./html /usr/share/nginx/**htmlI**->COPY ./html /usr/share/nginx/**html**
- EXPOSE "**eighty**" -> EXPOSE **80**
- CMD ["nginx", "-g", "daemon **of**;"] -> CMD ["nginx", "-g", "daemon **off**;"]
- COPY ./html /usr/share/nginx/html: based on this command added an HTML directory in the nginx folder which was missing.

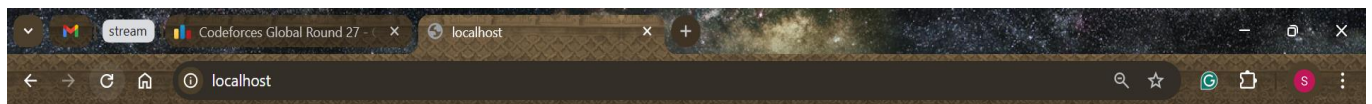
### 3. Docker-compose.yaml file:

- Error: Docker Compose Version Warning  
Description: Received a warning about the obsolete version attribute in docker-compose.yaml as the version specified was outdated.  
Resolution Steps: Removed the version attribute from the docker-compose.yaml file.

- ports: - "**eighty:80**" -> ports: - "**80:80**"
- volumes:
  - ./nginx/nginx.conf:/etc/nginx/nginx.conf ->
  - volumes:
  - ./nginx/nginx.conf:/etc/nginx/nginx.conf
  - **./nginx/logs:/var/log/nginx**
 (Fixed syntax error and added a log file for nginx to complete the assignment)
- expose: - "**eight thousand**" -> expose: - "**8000**"
- driver: **bridg** -> driver: **bridge**
- Removed the unsupported options field in networks(not utilized in the new version of docker).

After fixing the following errors, built the docker images for the python and nginx files. Then utilised docker-compose to build a container for both the docker images.

### Screenshots:



IP Address: 172.18.0.3

MAC Address: 00:00:00:00:00:00

Username: Guest

Timestamp: 2024-11-01 09:14:37

Assignment completed successfully!



