Report

As I began this assignment, I reviewed all files and identified multiple typos and configuration issues. I proceeded to correct these errors step-by-step. Here's a summarized note of the corrections made:

1. **Docker Compose Configuration**:
   * Corrected typos in ports and volumes keys and specified build contexts to resolve container setup issues.
   * Changed network driver from bridg to bridge and removed invalid options.
2. **Nginx Dockerfile**:
   * Corrected image tag and EXPOSE syntax.
   * Fixed file paths for COPY statements and command syntax in CMD.
3. **Nginx Configuration**:
   * Fixed typos in worker\_processes, worker\_connections, and include paths.
   * Corrected default\_type to use application/octet-stream.
4. **Python App Dockerfile**:
   * Fixed typos in WORKDIR, COPY paths, and command syntax.
   * Corrected package name and standardized EXPOSE port.
5. **Python App.py file**:
   * Revised the get\_mac\_address() function to retrieve the correct MAC address, which initially returned “00:00:00:00:00:00”.

After correcting all these errors, I tried to generate an image and then ran the docker container on my local computer. Everything was correct but the Mac address was showing “00:00:00:00:00:00” so I corrected the function to retrieve the correct Mac address as stated above. Now everything was running fine.

So, moving on to the next step deploy it on the cloud. I choose AWS free tier and in AWS I choose EC2 to deploy my assignment. First I launched an instance after making minor changes and generating a key-pair.pem file. Next on my local commuter command prompt, I connected it with ec2 with the pem file. Now I uploaded my assignment folder on the cloud and started the build. After that both the container started and my link was active. Now I was able to see the front end from any device with my IP and DNS. Next, I ran the log command to see the logs and verify them. I took a screenshot of both and added the same to the repository.

You can access the assignment via this link: <http://51.20.12.176/>