devops-qoala-assignment-Divyansh-Bansal-20DEC004

Issues Identified and Resolution Steps
1. docker-compose.yml

In the docker-compose.yml file, several issues were identified. First, "eighty:80" in the ports configuration was corrected to 80:80 for proper port mapping. Additionally, the path ./nginx/nginx.conf:/etc/nginx/nginx.confi had a typo and was fixed to ./nginx/nginx.conf:/etc/nginx/nginx.conf. Similarly, the "eight thousand" entry in expose was replaced with 8000 to reflect the correct port number. The network driver specified as bridg was corrected to bridge, and the compelex_option parameter was removed as it was both misspelled and unnecessary. The version attribute generated a warning when running docker-compose up: "the attribute version is obsolete, it will be ignored, please remove it to avoid potential confusion". To address this, the version: '3.8' line was removed as it was no longer needed.

2. Python/Dockerfile

In the Python/Dockerfile, several issues were identified that needed correction. The WORKDIR /appp command was changed to WORKDIR /app to set the correct working directory path. Additionally, the COPY appy.py /app command was corrected to COPY app.py /app to reference the correct file. A typo in the dependencies installation command, RUN pip install flask netiface, was fixed to RUN pip install flask netifaces to install the intended packages. The EXPOSE "eight thousand" line was updated to EXPOSE 8000 to specify the correct port number, and CMD ["pythn", "app.py"] was corrected to CMD ["python", "app.py"] to ensure the command could properly execute the application.

3. nginx/Dockerfile

In the nginx/Dockerfile, several syntax and path issues were identified. The FROM nginx:latests line was corrected to FROM nginx:latest to use the valid base image tag. Additionally, the COPY nginix.conf /etc/nginx/nginx.conf command was updated to COPY nginx.conf /etc/nginx/nginx.conf, and COPY ./html /usr/share/nginx/htmll was corrected to COPY ./html /usr/share/nginx/html to ensure the correct file paths. The EXPOSE "eighty" directive was updated to EXPOSE 80 to expose the correct port. The CMD ["nginx", "-g", "daemon of;"] command was corrected to CMD ["nginx", "-g", "daemon off;"] for proper configuration. Additionally, an error in COPY ./html /usr/share/nginx/html was encountered due to the missing html directory. To resolve this, an html folder was created inside the nginx directory.

4. nginx/nginx.conf

In the nginx/nginx.conf file, the Nginx container initially exited with the error unknown directive "worker_process" in /etc/nginx/nginx.conf:1 when starting the containers. To resolve this, several syntax corrections were made in the configuration file. The directive worker_process was corrected to worker_processes, and worker_process auto was updated to worker_processes auto;. Additionally, worker_connection 1024; was modified to worker_connections 1024; to follow correct syntax. Other minor typos were fixed, such as changing mime.typess to mime.types and default_typ to default_type.