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Issues Identified

Dockerfile Errors(Python App):

- Error in file naming in the Dockerfile: the app file was referenced as appy.py instead of app.py.
- Typo in the command: CMD ["pythn", "app.py"] (misspelled python).
- The EXPOSE directive used an incorrect string format ("eight thousand" instead of 8000)
- Misnamed working directory as /appp instead of /app.

Dockerfile Errors(Nginx):

- The COPY statements failed due to misnamed configuration files and folders (nginix.conf instead of nginx.conf and htmll instead of html).
- Port exposure was incorrectly specified as "eighty" instead of 80.
- o CMD had a typo (daemon of; instead of daemon off;).

Docker-compose.yml Issues:

- The version field warning: Docker Compose no longer requires a version field, causing a warning during deployment.
- o Typo in nginx.conf file reference (nginx.confi instead of nginx.conf).
- Network driver and options fields contained misspellings (bridg instead of bridge and compelex_option).

Build and Deployment Errors:

 Attempted to pull local-nginx and local-python-app images from Docker Hub instead of building them locally.

Resolution Steps

Python App Dockerfile:

- Corrected the file reference to app.py and fixed the CMD to CMD ["python", "app.py"].
- Changed EXPOSE "eight thousand" to EXPOSE 8000.
- Renamed the working directory to /app.

Nginx Dockerfile:

- Fixed typos in COPY statements to correctly reference nginx.conf and html.Created the missing html directory and ensured proper files were included.
- Changed EXPOSE "eighty" to EXPOSE 80.
- Corrected the CMD statement to CMD ["nginx", "-g", "daemon off;"].

docker-compose.yaml:

- Removed the version field to avoid warnings.
- Corrected the nginx.conf reference and the misspelled fields under networks.

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Application Verification:

- Verified successful application access by opening http://localhost and confirming the displayed IP address, MAC address, and timestamp.
- Confirmed Nginx access logs showed the requests, ensuring correct request handling by the reverse proxy.