

Devops Assignment Challenge (Qoala)

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Issues Identified:

- The Docker logs indicated that the version attribute in the **docker-compose.yaml** file is obsolete and should be removed to avoid confusion.
- Incorrectly named attributes in the configuration files (e.g., **worker_process** instead of **worker_processes**, **mime.tyess** instead of **mime.types**, and **typos** in **nginx.conf** and **Dockerfile**).

Resolution Steps:

1. Update docker-compose.yaml:

- Changed port mapping from **eighty:80** to **80:80** for correct HTTP access.
- Corrected the indentation and spelling in the service definitions and ensured that the driver is set to bridge.

2. Corrected Configuration Files:

- Updated **nginx.conf** to use **worker_processes auto**; and fixed the include statement to include **/etc/nginx/mime.types**;
- Changed **default_typ** to **default_type** in **nginx.conf**.
- In the **Dockerfile** for Nginx, corrected FROM **nginx:latests** to FROM **nginx:latest** and **CMD ["nginx", "-g", "daemon off;"]**.
- Updated the **Dockerfile** for the Python app to correct the **COPY** command to **COPY app.py /app** and changed **CMD ["python", "app.py"]**.

3. Testing and Debugging:

- Used **docker-compose logs -f** to view logs for both the Python application and Nginx services.
- Verified access to the application at **http://localhost**, confirmed the application is running correctly, and checked that requests are being logged in Nginx.

4. Final Checks:

- Ensured all changes were documented and re-tested the application to confirm that all functionalities, user information retrieval, were working as intended.