[GITHUB REPOSITORY](https://github.com/OmarAttia95/FHIR_ETL_Project/blob/main/airflow_dag_workflow.py)

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Dockerfile Instructions & Documentation

Dear,

This Dockerfile is designed to set up an **Apache Airflow** environment with Python 3.8 using the **Apache Airflow 2.5.0 Docker image**. It installs necessary Python packages and prepares the environment for running Airflow DAGs. Follow the steps below to build and run the Docker image:

**Step 1: Create the Dockerfile**

Save the provided Dockerfile contents into a file named Dockerfile.

Ensure the file is in the directory where you will build the Docker image.

**Step 2: Add the Required Files**

Place the airflow\_dag\_workflow.py file in the same directory as the Dockerfile.

If the DAG file is not available locally, download it from the following GitHub repository:

Airflow DAG [GitHub](https://github.com/OmarAttia95/FHIR_ETL_Project/blob/main/airflow_dag_workflow.py) Repository.

**Step 3: Build the Docker Image**

Navigate to the directory containing the Dockerfile in the terminal.

#bash docker build -t airflow\_custom:latest .

Replace airflow\_custom with a name of your choice for the Docker image.

**Step 4: Run the Docker Container**

#bash docker run -p 8080:8080 airflow\_custom:latest

This maps the Airflow web server to port 8080 on your local machine.

You can access the Airflow UI at: <http://localhost:8080>.

**Known Issue**

During testing, the container build failed due to file permissions issues with the airflow\_dag\_workflow.py file being copied into the Docker container. Attempts to resolve these permissions issues in the current setup were unsuccessful. We will meet to discuss the workarounds.

Omar Hossam Attia

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