

Airflow Assignment: Installation of Apache Airflow

By Esaq A

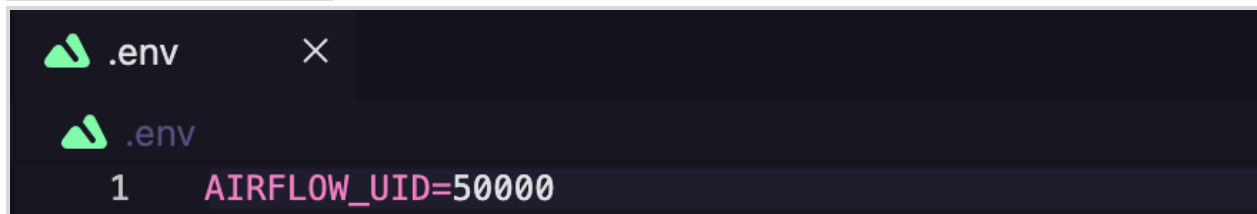
1 . Downloading Docker Desktop and Visual Studio Code:

- For Docker Desktop, go to <https://www.docker.com/products/docker-desktop/>
- For VS Code, go to <https://code.visualstudio.com/download>
- Download both of them. Docker should be v2.14.0 or newer

2 . Creating .env file & fetching docker-compose.yaml file:

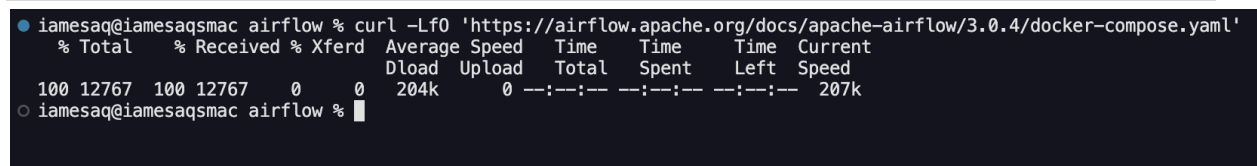
- Open the folder you will be using for Airflow in VS Code
- Create a file named “.env” and type the following text and save:

AIRFLOW UID=50000



- Then open terminal in VS Code and run the following command

```
curl -LfO 'https://airflow.apache.org/docs/apache-airflow/3.0.4/docker-compose.yaml'
```



- Now the “docker-compose.yaml” file has been downloaded.

3 . Initialize the database:

- We should run the database migration and create the first user account in the system. To do that, we have to run the following command:

```
docker compose up airflow-init
```

- This will create an account with username **airflow** password **airflow**.

4 . Running Airflow:

- We can start all the services using the following command:

```
docker compose up
```

- Now we can head to Airflow UI and login using the username and password.
- Paste this URL in browser, <http://localhost:8080/>

Sign In

Enter your login and password below:

Username:
airflow

Password:

Sign In

- After logging into Airflow UI, the main dashboard of the list of all DAGs is presented.

DAGs

All 54 Active 2 Paused 82

Running 0 Failed 0

Filter DAGs by tag

Search DAGs

Auto-refresh

DAG	Owner	Runs	Schedule	Last Run	Next Run	Recent Tasks	Actions	Links
dataset_consumes_1 consumes dataset-scheduled	airflow	1	Dataset	2025-08-18, 17:11:53	On x3/dag1/output_1.txt	1	▶ □	...
dataset_consumes_1_and_2 consumes dataset-scheduled	airflow	0	Dataset		0 of 2 datasets updated	0	▶ □	...
dataset_consumes_1_never_scheduled consumes dataset-scheduled	airflow	0	Dataset		0 of 2 datasets updated	0	▶ □	...
dataset_consumes_unknown_never_scheduled dataset-scheduled	airflow	0	Dataset		0 of 2 datasets updated	0	▶ □	...
dataset_produces_1 dataset-scheduled produces	airflow	0	Daily		2025-08-19, 05:30:00	0	▶ □	...
dataset_produces_2 dataset-scheduled produces	airflow	0	None			0	▶ □	...
example_bash_operator example example2	airflow	0	0 0 * * *		2025-08-19, 05:30:00	0	▶ □	...
example_branch_datetime_operator	airflow	0	Daily		2025-08-19, 05:30:00	0	▶ □	...