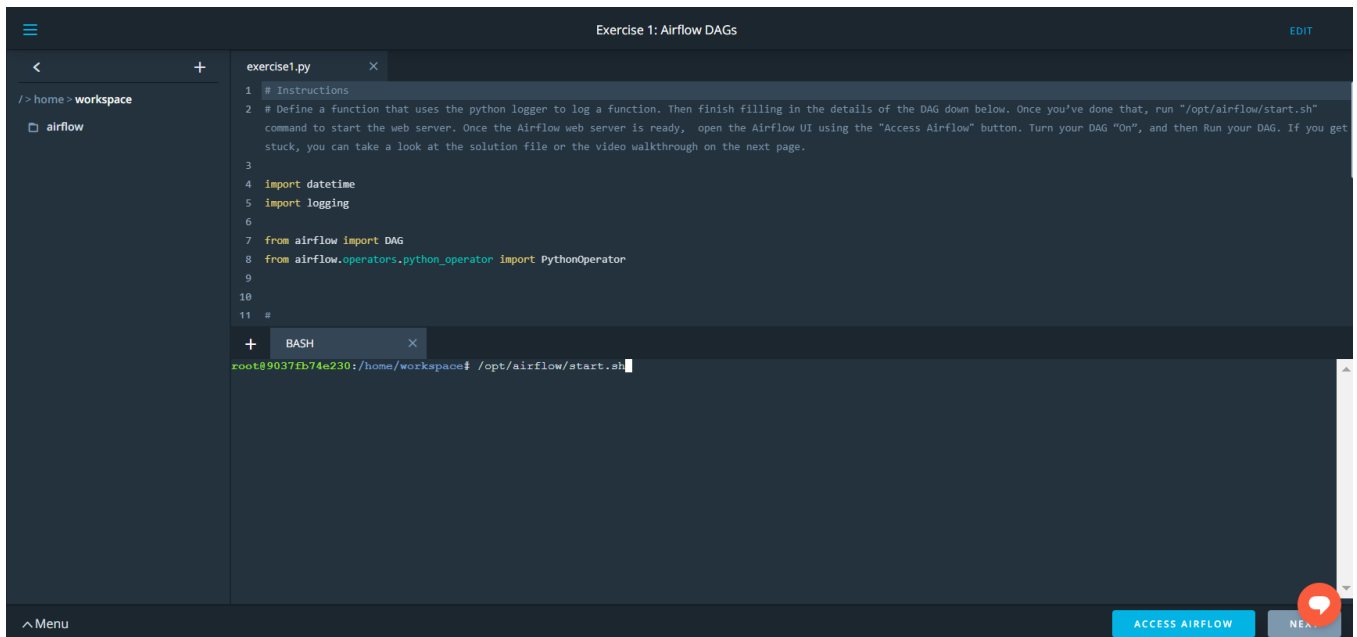


# Workspace Instructions

Before you start on your first exercise, please note the following instruction.

1. After you have updated the DAG, you will need to run `/opt/airflow/start.sh` command to start the Airflow webserver. See the screenshot below for the Exercise 1 Workspace.

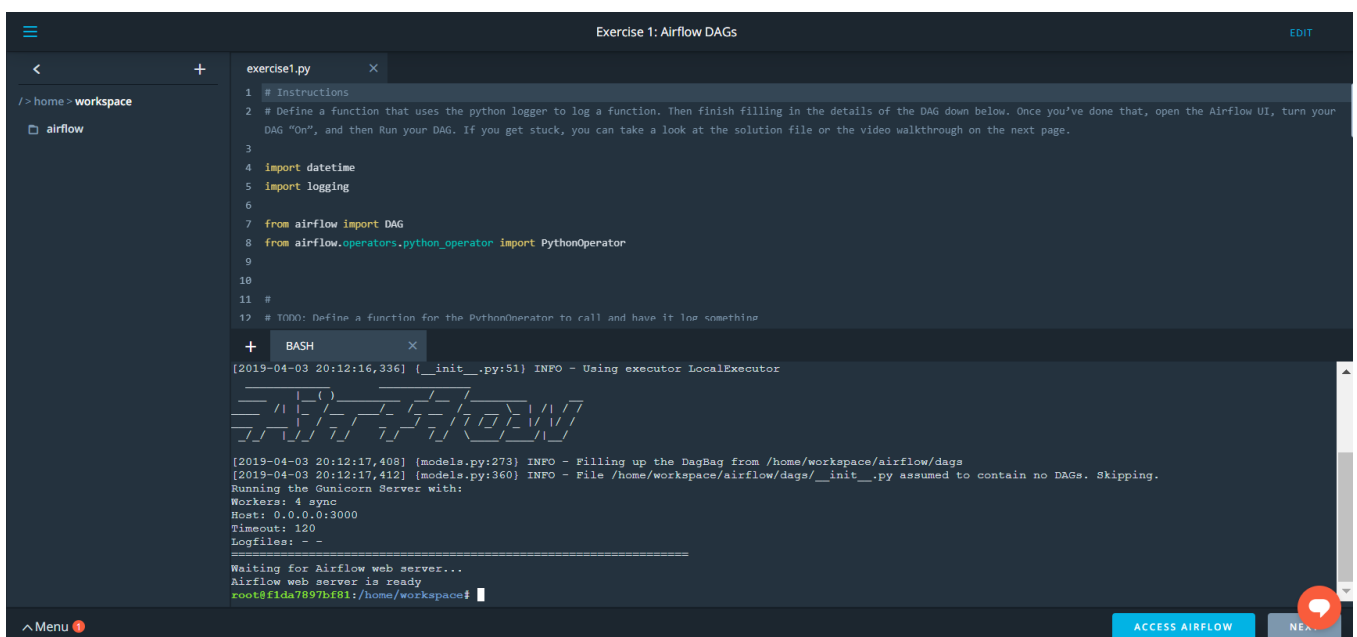


The screenshot shows the 'Exercise 1: Airflow DAGs' workspace. On the left, there's a sidebar with a file explorer showing 'home' and 'workspace' directories, with 'airflow' selected under 'workspace'. The main area displays the 'exercise1.py' file with the following content:

```
1 # Instructions
2 # Define a function that uses the python logger to log a function. Then finish filling in the details of the DAG down below. Once you've done that, run "/opt/airflow/start.sh"
  command to start the web server. Once the Airflow web server is ready, open the Airflow UI using the "Access Airflow" button. Turn your DAG "On", and then Run your DAG. If you get
  stuck, you can take a look at the solution file or the video walkthrough on the next page.
3
4 import datetime
5 import logging
6
7 from airflow import DAG
8 from airflow.operators.python_operator import PythonOperator
9
10
11 #
```

Below the file editor is a terminal window with the command `/opt/airflow/start.sh` entered. The terminal prompt is `root@9037fb74e230:/home/workspace#`. At the bottom right, there are two buttons: 'ACCESS AIRFLOW' (blue) and 'NEXT' (grey). A red speech bubble icon is also visible.

2. Wait for the Airflow web server to be ready (see screenshot below).



The screenshot shows the same workspace as before, but the terminal window now displays the output of the `/opt/airflow/start.sh` command. The output includes:

```
[2019-04-03 20:12:16,336] {__init__.py:51} INFO - Using executor LocalExecutor
=====
[2019-04-03 20:12:17,408] {models.py:273} INFO - Filling up the DagBag from /home/workspace/airflow/dags
[2019-04-03 20:12:17,412] {models.py:360} INFO - File /home/workspace/airflow/dags/__init__.py assumed to contain no DAGs. Skipping.
Running the Gunicorn Server with:
Workers: 4 sync
Host: 0.0.0.0:3000
Timeout: 120
Logfiles: - -
=====
Waiting for Airflow web server...
Airflow web server is ready
root@f1da7897bf81:/home/workspace#
```

The terminal prompt is now `root@f1da7897bf81:/home/workspace#`. The 'ACCESS AIRFLOW' button remains visible at the bottom right.

3. Access the Airflow UI by clicking on the blue "Access Airflow" button.

This should be able to access the Airflow UI without any delay.

**Please note:** Because the files located in the s3 bucket 'udacity-dend' are very large, Airflow can take up to 10 minutes to make the connection.