

Steps:

starting from `~/AirflowMiniProject`, run:

```
tar -xvzf springboard-airflow.tar.gz
```

```
cd springboard-airflow
```

```
./start.sh (build+start postgres db, docker container, & airflow services)
```

```
docker-compose ps (should output table with 3 healthy services)
```

```
open Web UI with browser at http://localhost:8080 [ user : airflow | pass : airflow ]
```

dag workflow may run automatically per configured schedule or can be manually triggered

```
./stop.sh (stop all services)
```

```
./reset.sh (wipe all images)
```

```
./copyDockerOutput.sh (copy sources+results from container image to data dir daily partition)  
ManuallyTriggerDag.sh
```

Results:

```
conner@Linuxclev0:~/AirflowMiniProject/data/2022-06-19$ head -3 AAPL_data.csv  
date,time,Open,High,Low,Close,Adj Close,Volume  
2022-06-16 09:30:00-04:00,132.0800018310547,132.0800018310547,131.58999633789062,132.02000427246094,132.02000427246094,4911843  
2022-06-16 09:31:00-04:00,132.02000427246094,132.38999938964844,132.02000427246094,132.13999938964844,132.13999938964844,567632  
conner@Linuxclev0:~/AirflowMiniProject/data/2022-06-19$  
conner@Linuxclev0:~/AirflowMiniProject/data/2022-06-19$ head -3 TSLA_data.csv  
date,time,Open,High,Low,Close,Adj Close,Volume  
2022-06-16 09:30:00-04:00,668.2100219726562,672.530029296875,667.2999877929688,672.1013793945312,672.1013793945312,1555450  
2022-06-16 09:31:00-04:00,672.0,675.5,671.010009765625,671.2849731445312,671.2849731445312,245454  
conner@Linuxclev0:~/AirflowMiniProject/data/2022-06-19$  
conner@Linuxclev0:~/AirflowMiniProject/data/2022-06-19$ cat daily_trade_volumes.txt  
Total AAPL Shares Traded: 95449574 , Total TSLA Shares Traded: 34425563  
conner@Linuxclev0:~/AirflowMiniProject/data/2022-06-19$
```

data sources

query results

Logs:

```
conner@Linuxclev0:~/AirflowMiniProject$ cat tasklogs/*  
*** Reading local file: /opt/airflow/logs/marketvol/task0/2022-06-19T21:04:01.563486+00:00/1.log  
[2022-06-19 21:04:03.333] [taskinstance.py:851] INFO - Dependencies all met for <TaskInstance: marketvol.task0 2022-06-19T21:04:01.563486+00:00 [queued]>  
[2022-06-19 21:04:03.337] [taskinstance.py:851] INFO - Dependencies all met for <TaskInstance: marketvol.task0 2022-06-19T21:04:01.563486+00:00 [queued]>  
[2022-06-19 21:04:03.337] [taskinstance.py:1042] INFO -  
*****  
[2022-06-19 21:04:03.337] [taskinstance.py:1043] INFO - Starting attempt 1 of 3  
[2022-06-19 21:04:03.337] [taskinstance.py:1044] INFO -  
[2022-06-19 21:04:03.484] [taskinstance.py:1063] INFO - Executing <Task(TaskOperator): task0> on 2022-06-19T21:04:01.563486+00:00  
[2022-06-19 21:04:03.486] [standard_task_runner.py:52] INFO - Started process 483 to run task  
[2022-06-19 21:04:03.490] [standard_task_runner.py:76] INFO - Running: ['airflow', 'task0', 'run', 'marketvol', 'task0', '2022-06-19T21:04:01.563486+00:00', '--job-id', '1', '--pool', 'default_pool', '--raw', '--subd',  
'r', 'DAGS_FOLDER/crude_pipeline.py', '--cfg-path', '/tmp/tmp7LwHnK', '--error-file', '/tmp/cmpandsize']  
[2022-06-19 21:04:03.490] [standard_task_runner.py:77] INFO - Job 2: Subtask task0  
[2022-06-19 21:04:03.428] [logging_mixin.py:104] INFO - Running <TaskInstance: marketvol.task0 2022-06-19T21:04:01.563486+00:00 [running]> on host a7b2792dctcc  
[2022-06-19 21:04:03.440] [taskinstance.py:1065] INFO - Exporting the following env vars:
```