



Make Your First Conditional Task Using Branching

Branching in action!

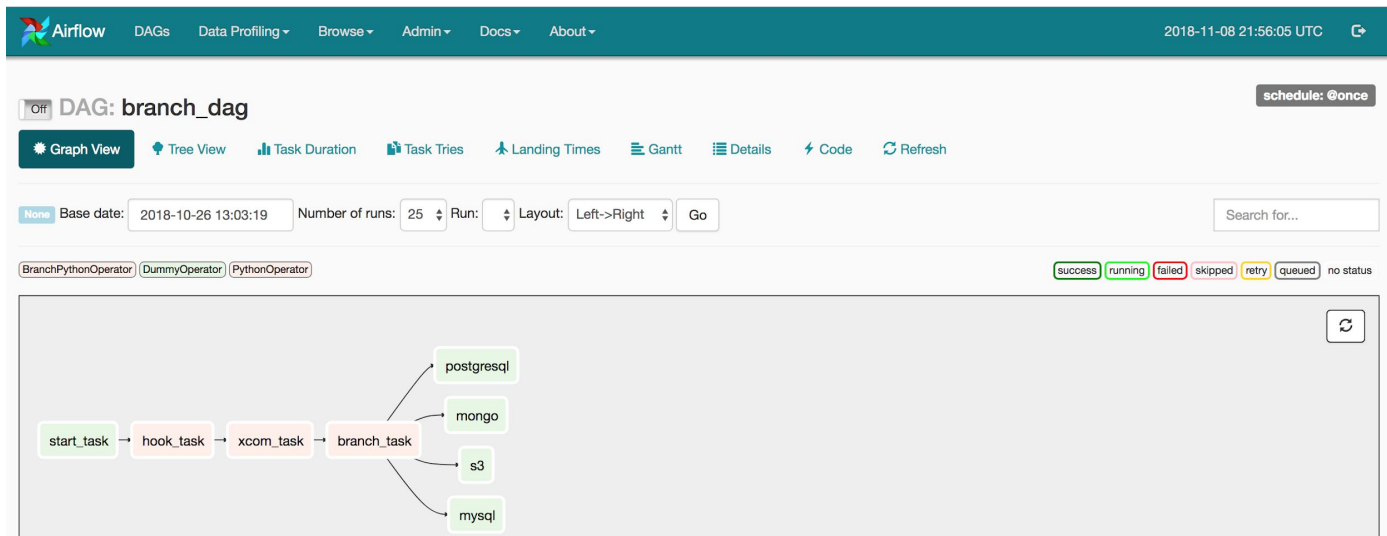


Instructions

- `cd ~`
- `cp ~/airflow_files/branch_dag.py ~/airflow/dags/`
- Restart airflow webserver and scheduler if you don't want to wait for the DAG to be detected.
- `vim ~/airflow/dags/branch_dag.py` and take a look to the code.

Instructions

- Now, if you click on “branch_dag” and go to “Graph View” you should see the following DAG:



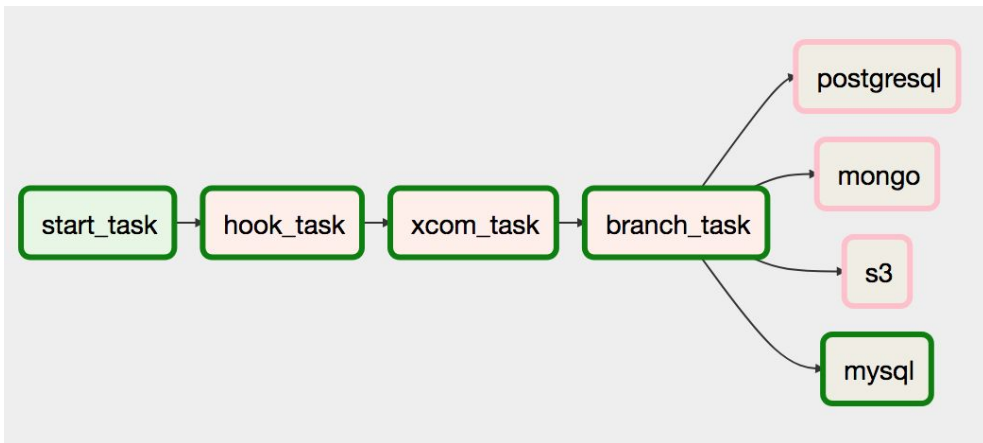


Instructions

- As you can see from the previous slide, we have a `branch_task` leading to 4 different tasks
 - `postgresql`, `mysql`, `mongo`, `s3`.
- Only one task is going to be executed according to the result returned by the task `xcom_task` to the `branch_task`.
- Turn On the toggle and trigger the DAG from the “DAGs View”

Instructions

- Once the DAG has finished executing you should have the following DAG from the “Graph View”:





Instructions

- As you can see from the previous slide, only one task has been executed, the one having the same `task_id` as the value returned by `xcom_task` which we fetched using the function `check_for_activated_sourcecalled` by the `BranchPythonOperator`.
- All the other tasks have been set to the “skipped” status.
- If you click on the task “branch_task” and “View Log” you will see the lines below showing that `PythonBranchOperator` received the value `mysql` and followed the branch with the direct downstream task “mysql”:

```
[2018-10-26 13:13:31,807] {base_task_runner.py:107} INFO - Job 46: Subtask branch_task [2018-10-26 13:13:31,806]
[2018-10-26 13:13:31,840] {python_operator.py:96} INFO - Done. Returned value was: mysql
[2018-10-26 13:13:31,841] {python_operator.py:124} INFO - Following branch mysql
[2018-10-26 13:13:31,841] {python_operator.py:125} INFO - Marking other directly downstream tasks as skipped
[2018-10-26 13:13:31,849] {python_operator.py:134} INFO - Done.
```