CS 327E Class 11

April 22, 2019

Announcements

Milestone 13:

- What: Group Presentations.
- When: Week of May 6th. M-F 6pm 8:00pm.
- Where: TBD.
- Ask: Email me your preferred times by this Friday.

1) In Airflow, a workflow is modeled as a _________

- A. Undirected Cyclic Graph
- B. Directed Acyclic Graph
- C. Directed Graph

2) How is a DAG defined in Airflow?

- A. Standard SQL file
- B. Jinja template file
- C. Standard Python file

3) How is a task executed in Airflow?

- A. The unit of work is executed by a single Operator
- B. The unit of work is executed by multiple Operators
- C. The unit of work is executed by a SubDag

4) What does the statement t1 >> t2 mean where t1 and t2 each represent a task?

- A. t1 runs first and t2 runs second
- B. t2 runs first and t1 runs second
- C. t1 and t2 do not have an ordering

5) A trigger rule specifies the conditions under which the tasks can .

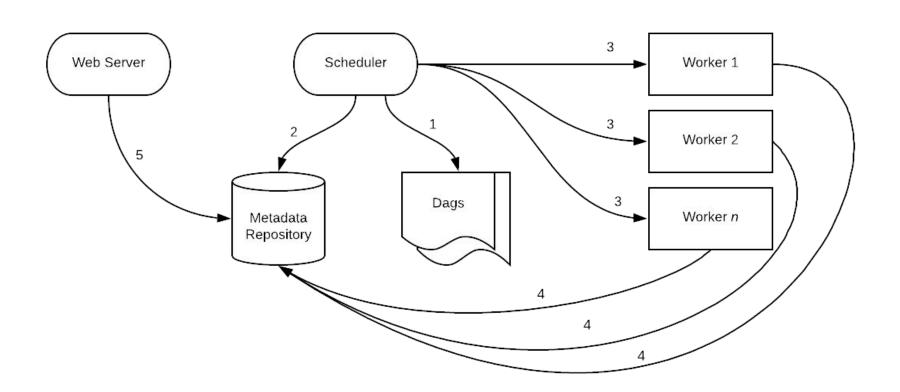
A. execute

B. sleep

C. succeed

D. fail

Life of a DAG Run



Basic Commands

```
airflow list_dags
airflow list_tasks <dag> --tree
airflow test <dag> <task> <date>
airflow backfill <dag> -s <start_date> -e <end_date>
airflow clear <dag> -s <start_date> -e <end_date>
```

Installation Procedure

https://github.com/cs327e-spring2019/snippets/wiki/Airflow-Setup-Guide

Hands-on Exercise

git clone https://github.com/cs327e-spring2019/snippets.git

git pull origin master to pull down the latest code

Relevant Files:

or

```
simple_workflow1.py - simple_workflow3.py
college_workflow1.py - college_workflow3.py
```

Milestone 11

http://www.cs.utexas.edu/~scohen/milestones/Milestone11.pdf