UNDERSTANDING DAG (PROGRAM PERSPECTIVE)

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Program flow

Airflow DAGs are python files with following sections



Activity I

Lets now create a simple program with two tasks namely.

- I. Hello which would display 'Hello world' (using python operator).
- 2. Bye which would display 'Bye' (echo command in Unix / Linux bash scripting using bash operator)

'Hello' task(T1) to run first and after successful completion of this task, 'Bye' task(T2) would need to run.

1. Imports

- from __future__ import print_function
- import datetime
- from airflow import models
- from airflow.operators import bash_operator
- from airflow.operators import python_operator

2. Arguments

Define defaults and DAG specific arguments.

```
default_dag_args = {'start_date': datetime.datetime(2019, 3, 22),
```

Set ups

- Provide DAG with a Name and schedule intervals
- with models.DAG(

```
'composer_sample_simple_greeting_two',
schedule_interval=datetime.timedelta(days=I),
default_args=default_dag_args) as dag:
```

Tasks

Define the function, tasks with operators

```
def greeting():
     import logging
     logging.info('Hello World!')
hello_python = python_operator.PythonOperator(
       task_id='hello',
      python_callable=greeting)
goodbye_bash = bash_operator.BashOperator(
      task_id='bye',
     bash_command='echo Goodbye.')
```

Schedule

- Define the schedule:
- hello_python >> goodbye_bash