Airflow HelloWorld

Create your dags_folder, that is the directory where your DAG definition files will be stored in AIRFLOW_HOME/dag. Inside that directory create a file named airflow_hello.py.

```
Configure common settings

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```

Create the DAG

Now create a DAG object that will contain tasks. Name it airflow_hello_01and pass it default_args .

```
with DAG('airflow_hello_01',
    default_args=default_args,
    schedule_interval='0 * * * *',
    ) as dag:
```

With schedule_interval='0 0 * * *' we've specified a run at every hour 0; Alternatively, you can use strings like '@daily' and '@hourly'.

Airflow will generate DAG runs from the start_date with the specified schedule_interval. Once a DAG is active, Airflow continuously checks in the database if all the DAG runs have successfully ran since the start_date. Any missing DAG runs are automatically scheduled.

Create the tasks

Tasks are represented by operators that either perform an action, transfer data, or sense if something has been done. We'll create a workflow consisting of three tasks: we'll print 'hello', wait for 10 seconds and finally print 'world'. The first two are done with the <code>BashOperator</code> and the latter with the <code>PythonOperator</code>.

```
import datetime as dt
from airflow import DAG
from airflow.operators.bash_operator import BashOperator
from airflow.operators.python_operator import PythonOperator
def print_world():
    print('world')
default_args = {
    'owner': 'airflow',
    'start_date': dt.datetime(2019, 11, 20),
    'retries': 1,
    'retry_delay': dt.timedelta(minutes=5),
}
with DAG('airflow_hello_01',
         default_args=default_args,
         schedule interval='0 * * * *',
         ) as dag:
    print_hello = BashOperator(task_id='print_hello',
                               bash command='echo "hello world"')
    sleep = BashOperator(task_id='sleep',
                         bash_command='sleep 5')
    print_world = PythonOperator(task_id='print_world',
                                 python callable=print world)
print_hello
```

Test the DAG

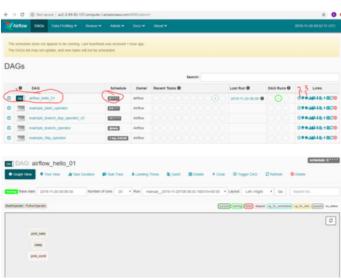
First check that DAG file contains valid Python code by executing the file with Python:

```
python airflow_hello_01
```

You can manually test a single task for a given execution_date with airflow test:

```
airflow test airflow_hello_01 print_world 2019-11-20
```





Go to Airflow WEBUI browser

In order to start a DAG run , First turn Workflow $\bf ON$ and then click $\bf Trig$ $\bf ger$ $\bf DAG$ and finally Click $\bf Graph$ $\bf View$

To check Logs AIRFLOW_HOME/das/scheduler