

DAG Structure and Operators

Estimated time needed: 15 minutes

Introduction

Apache Airflow is a Python framework that helps create workflows using multiple technologies using both CLI and a user-friendly UI. An Apache Airflow Directed Acyclic Graph (DAG) is a Python program where you define the tasks and the pipeline with the order in which the tasks will be executed.

Objectives

After completing this reading, you'll be able to:

- Explain the structure of Directed Acyclic Graphs
- Categorize the operators that you can use with the DAGs
- Identify DAG arguments
- Describe how to create tasks for a DAG
- Explain how to define the dependencies for the tasks

Airflow operator for task definition

Airflow offers a wide range of operators, including many that are built into the core or are provided by pre-installed providers. Some popular core operators include:

- BashOperator - executes a bash command
- PythonOperator - calls an arbitrary Python function
- EmailOperator - sends an email

The other core operators available include:

- BranchBranchOperator - A base class for creating operators with branching functionality



