

Hide menu

Using Apache Airflow to build Data Pipelines

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Video: Apache Airflow Overview

6 min
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Video: Advantages of Using Data Pipelines as DAGs in Apache Airflow

6 min
- ✓

Video: Apache Airflow UI

3 min
- ✓

Reading: A Note on Airflow Lab Exercises

10 min
- ✓

Ungraded App Item: Hands-on Lab: Getting Started with Apache Airflow

20 min
- ✓

Video: Build DAG Using Airflow

4 min
- 🔒

Ungraded App Item: Hands-on Lab: Create a DAG for Apache Airflow

40 min
- 🔒

Ungraded App Item: Hands-on Lab: Create and execute a Shell script from Airflow

20 min
- ✓

Video: Airflow Monitoring and Logging

4 min
- ✓

Ungraded App Item: Hands-on Lab: Monitoring a DAG

20 min
- ✓

Reading: Summary & Highlights

3 min
- ✓

Practice Quiz: Practice Quiz: Using Apache Airflow to build Data Pipelines

5 questions
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Quiz: Graded Quiz: Using Apache Airflow to build Data Pipelines

10 questions

Graded Quiz: Using Apache Airflow to build Data Pipelines

Quiz • 20 min

Submit your assignment

Due Jul 2, 11:59 PM EDT Attempts 3 every 8 hours

Receive grade

To Pass 70% or higher

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Apache Airflow pipelines are built around their principles. Which of the following principles include parameterization?

1 point

- ☐ Scalable
- ☒ Lean and explicit
- ☐ Dynamic
- ☐ Extensible

Start assignment

2. Which of the following Apache Airflow use cases involves coordination of data in data warehouses?

1 point

- ☐ Scheduling tool
- ☐ Decoupled batch processes
- ☒ Orchestrate SQL transformation in data warehouses
- ☐ Define machine learning pipeline dependencies

3. Apache Airflow DAGs are a python script consisting of logical blocks. Which of the following logical blocks might use the 'from airflow import DAG' command?

1 point

- ☒ Library imports
- ☐ Task pipeline
- ☐ DAG arguments
- ☐ DAG definition

4. Sensors are a class of DAG operators. Which is another type of operator that defines DAG tasks?

1 point

- ☐ Email
- ☐ Python
- ☐ Bash
- ☒ All of the above

5. Which of the following advantages of Apache Airflow expressing workflows as code enables Git to track them?

1 point

- ☐ Collaborative
- ☐ Testable
- ☒ Versionable
- ☐ Maintainable

6. The 'Task Instance Context Menu' can be accessed from any of the DAG views that display what?

1 point

- ☐ Task instances
- ☐ Details
- ☒ Tree view
- ☐ Gantt

7. The final block in your Airflow pipeline script is where you specify the dependencies for your workflow. How do you specify the order of task 1 and task 2?

1 point

- ☐ >
- ☒ >>
- ☐ >=
- ☐ //

8. Which block specifies the DAG start date?

1 point

- ☐ Task pipeline
- ☒ DAG arguments
- ☐ Task definitions
- ☐ DAG definition

9. Which of the following Airflow metrics could fluctuate?

1 point

- ☐ Timers
- ☒ Gauges
- ☐ Counters
- ☐ None, they all can increase

10. Which of the following Apache Airflow basic components serves the interactive UI?

1 point

- ☒ Web Server
- ☐ Scheduler
- ☐ DAG directory
- ☐ Executor

Upgrade to submit

