

A wireframe globe is centered in the background, rendered in a light gray color. It features a grid of latitude and longitude lines. The globe is partially obscured by the text and other graphical elements.

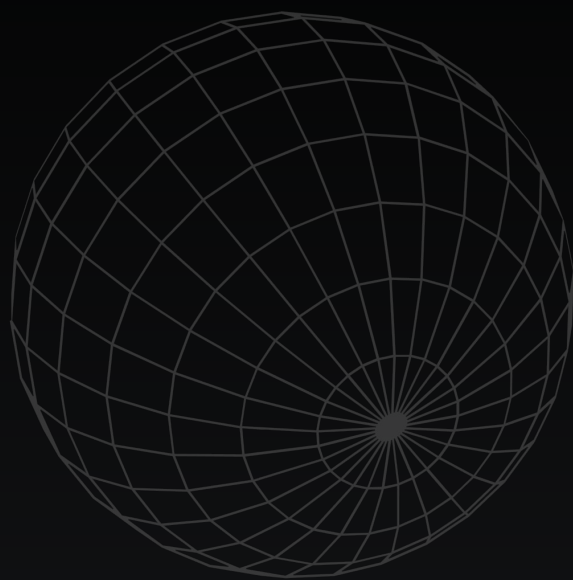
May 23–27, 2022

AIRFLOW SUMMIT

Large, vibrant green abstract shapes are positioned on the left and right sides of the image. On the left, there is a thick, curved shape that resembles a stylized 'S' or a thick bracket. On the right, there is a similar thick, curved shape. Additionally, there are several small green triangles scattered across the dark background, including one pointing left in the upper right and another pointing left in the lower left.

How DAG Became a Test

Airflow System Tests Redefined



We need TESTS

~~We need TESTS~~

We need to RUN TESTS

~~We need TESTS~~

~~We need to RUN TESTS~~

We need to AUTOMATICALLY
RUN HIGH QUALITY TESTS
and CHECK the RESULTS

Testing Trinity



Airflow System Tests



AIP-47

New design of Airflow System Tests



Maintainability

1

DAG file

2

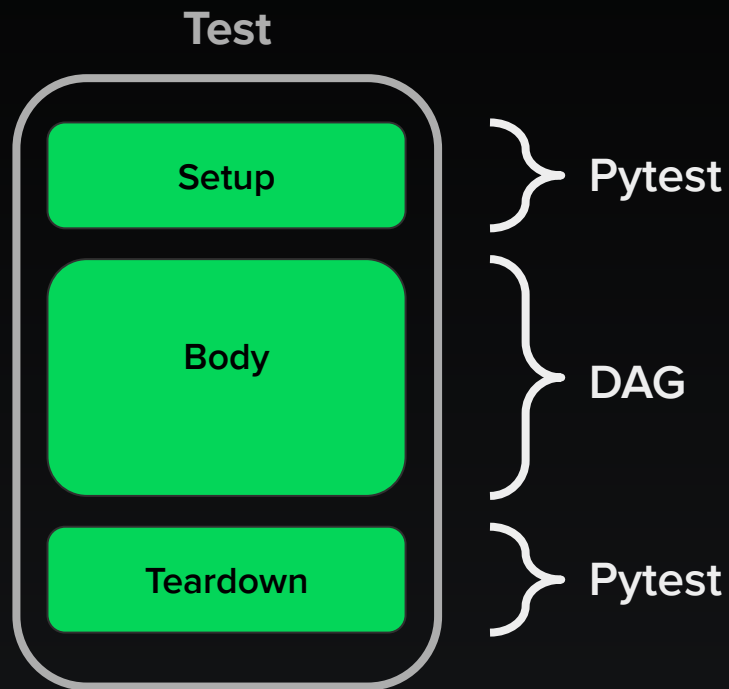
Pytest wrapper

Maintainability

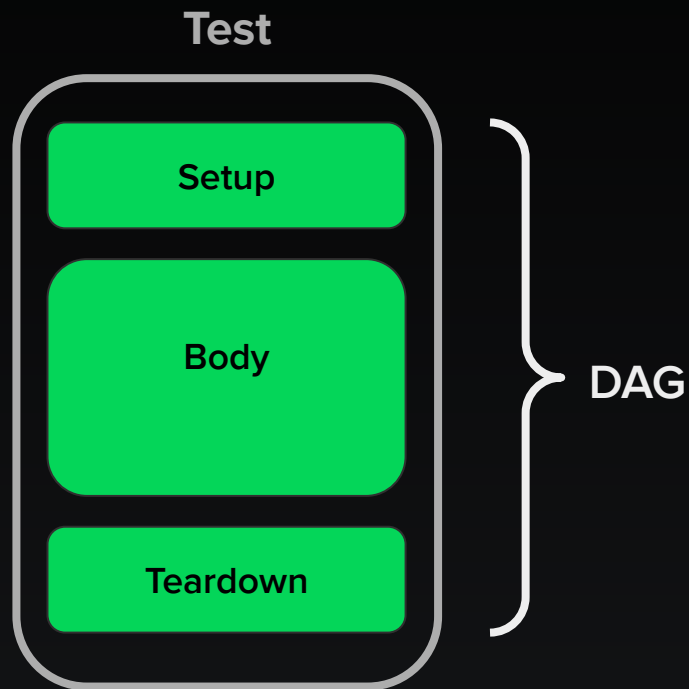


Self-contained DAG

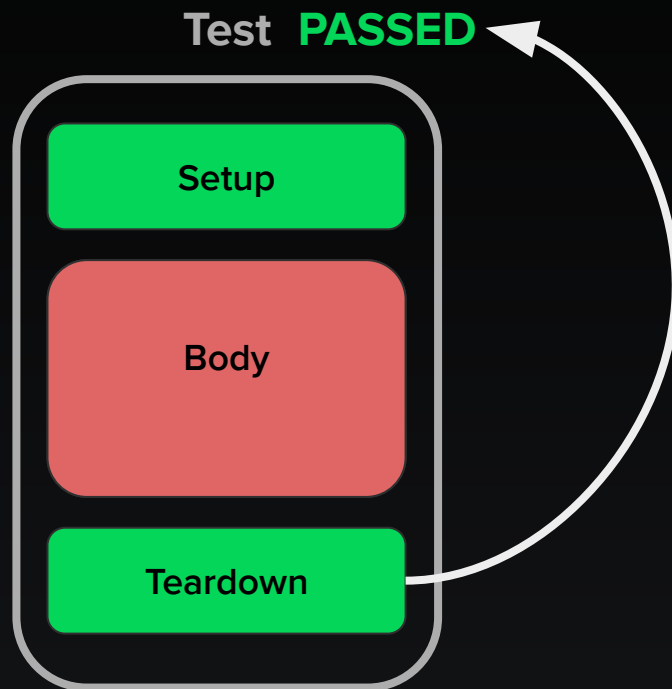
Setup & Teardown



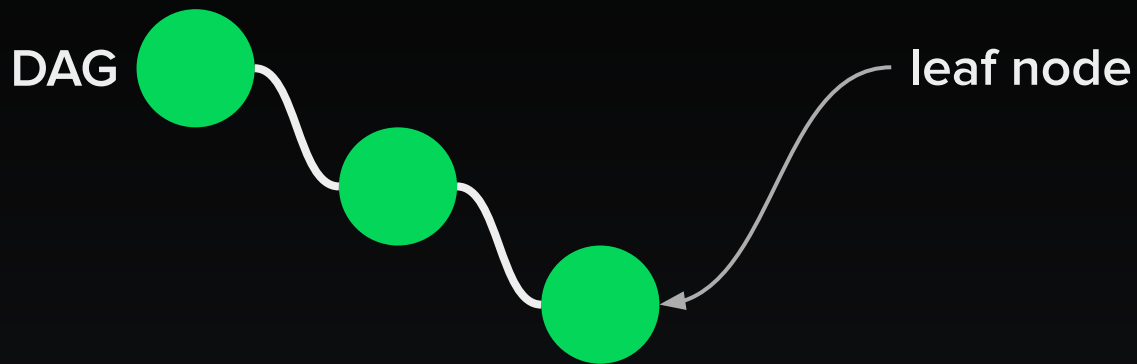
Setup & Teardown



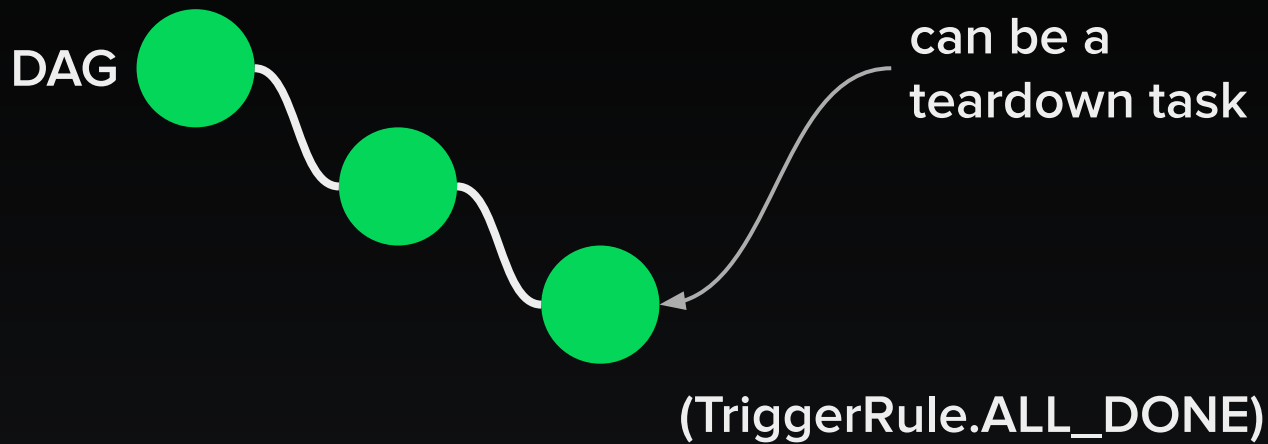
Setup & Teardown



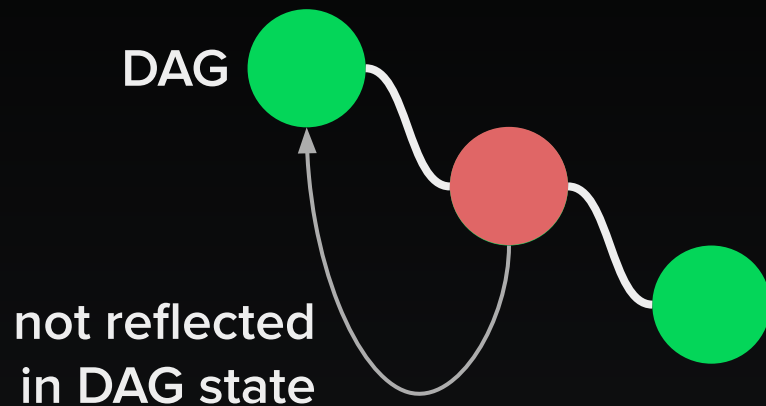
Leaf nodes



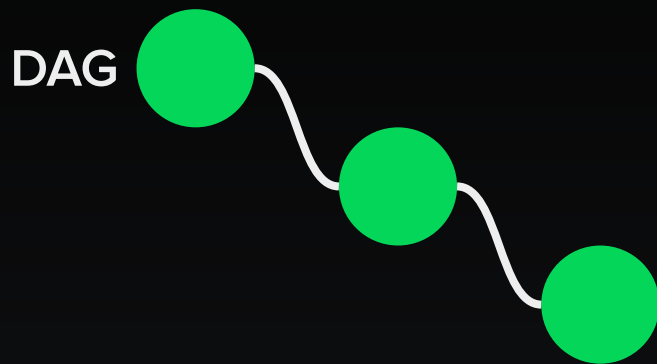
Leaf nodes



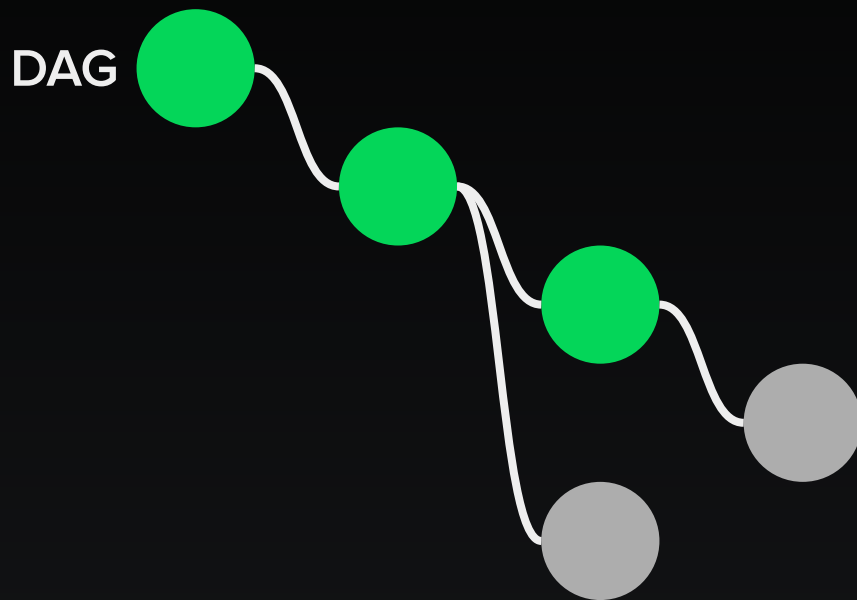
Leaf nodes



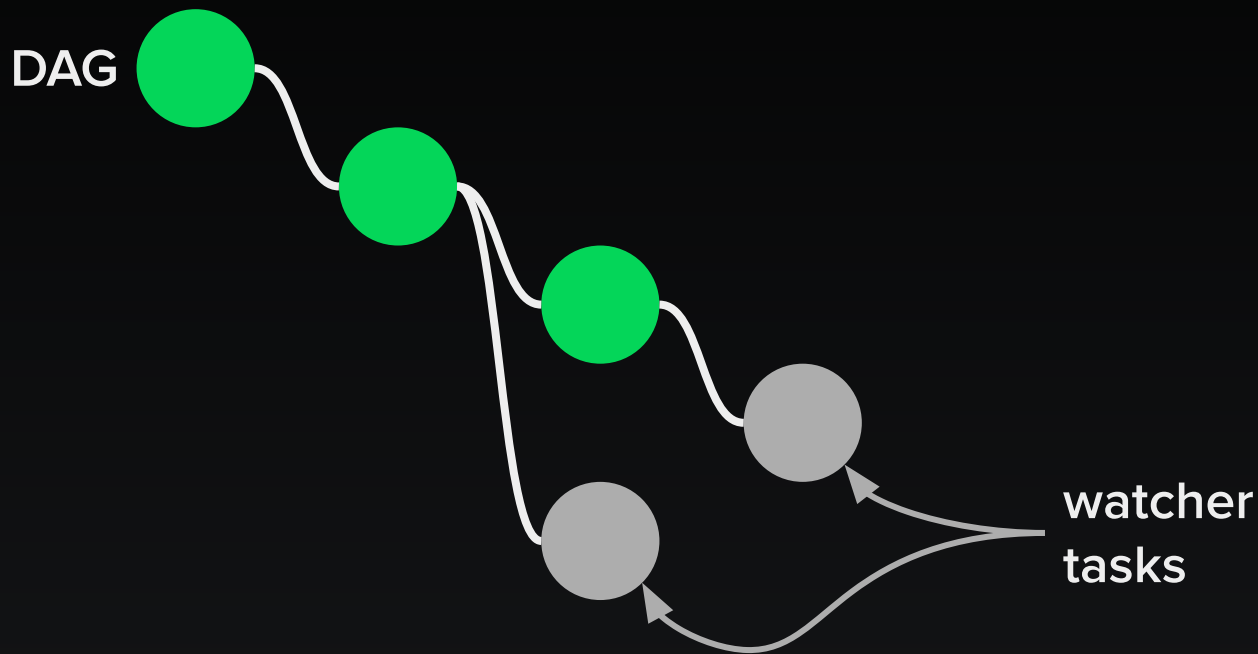
Watcher



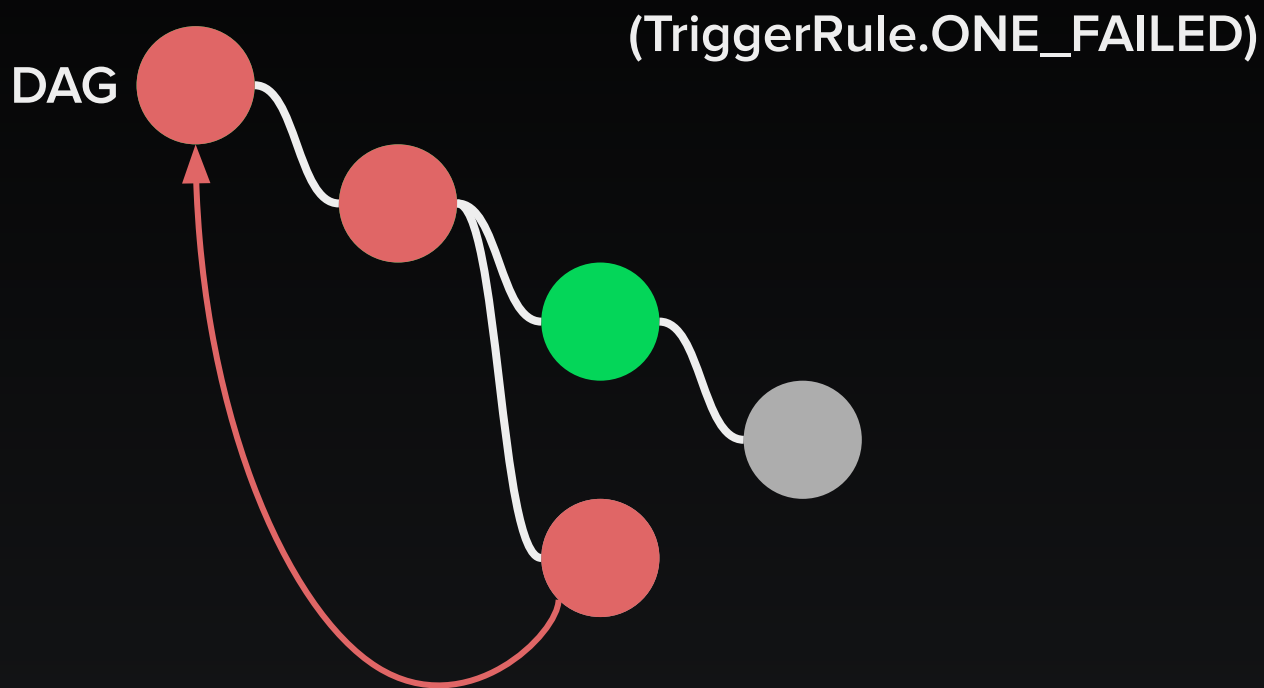
Watcher



Watcher



Watcher



What is the value for the users? How are they affected?

- **High quality of the provider operators**
 - **Decreased number of bugs**
 - **No regressions and backward incompatible changes**
(for operators which are covered with system tests)
- **Airflow documentation for providers is better quality**
 - **Examples are correct and work properly**
 - **Up-to-date**

What is the value for Airflow developers?

- **Simple and straightforward process of adding new tests**
- **Little effort on maintaining existing ones**
- **Reduced amount of effort to execute System Tests and therefore simplifying process to run System Tests on a regular basis**

Continuous Integration

- **Community CI is in progress**
- **Composer CI is running Airflow System Tests for new versions of Airflow and new versions of Google provider package**

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