

LIGHTNING TALK

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REPUBLIC**

#AirflowSummit2021

LIGHTNING TALK

Airflow and Analytics Engineering Dos and don'ts

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Airflow 
Summit 2021

AGENDA

1. Why am I here?
2. What does an Analytics Engineer do?
3. Why then Airflow?
4. The Dos
5. The Don'ts
6. Outro

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What does an Analytics Engineer do?

“This job is neither data engineering, nor analysis. It’s somewhere in the middle, and it needed a new title. Starting in 2018, we (dbt) and a few of our friends in the Locally Optimistic Community started calling this role the analytics engineer.”

“Analytics engineers provide clean data sets to end users, modelling data in a way that empowers end users to answer their own questions. While a data analyst spends their time analysing data, an analytics engineer spends their time transforming, testing, deploying, and documenting data....”

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Why then Airflow?

Airflow is the Analytics Engineer's ally in any organisation, as it allows you to orchestrate the integration of external data sources by using different operators from different providers, the transformation of data using for example dbt. It can also help you monitor and alert the status of your data pipelines using notifications for example with Slack Operators.

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Use the Community's Slack Channel

- apache-airflow.slack.com

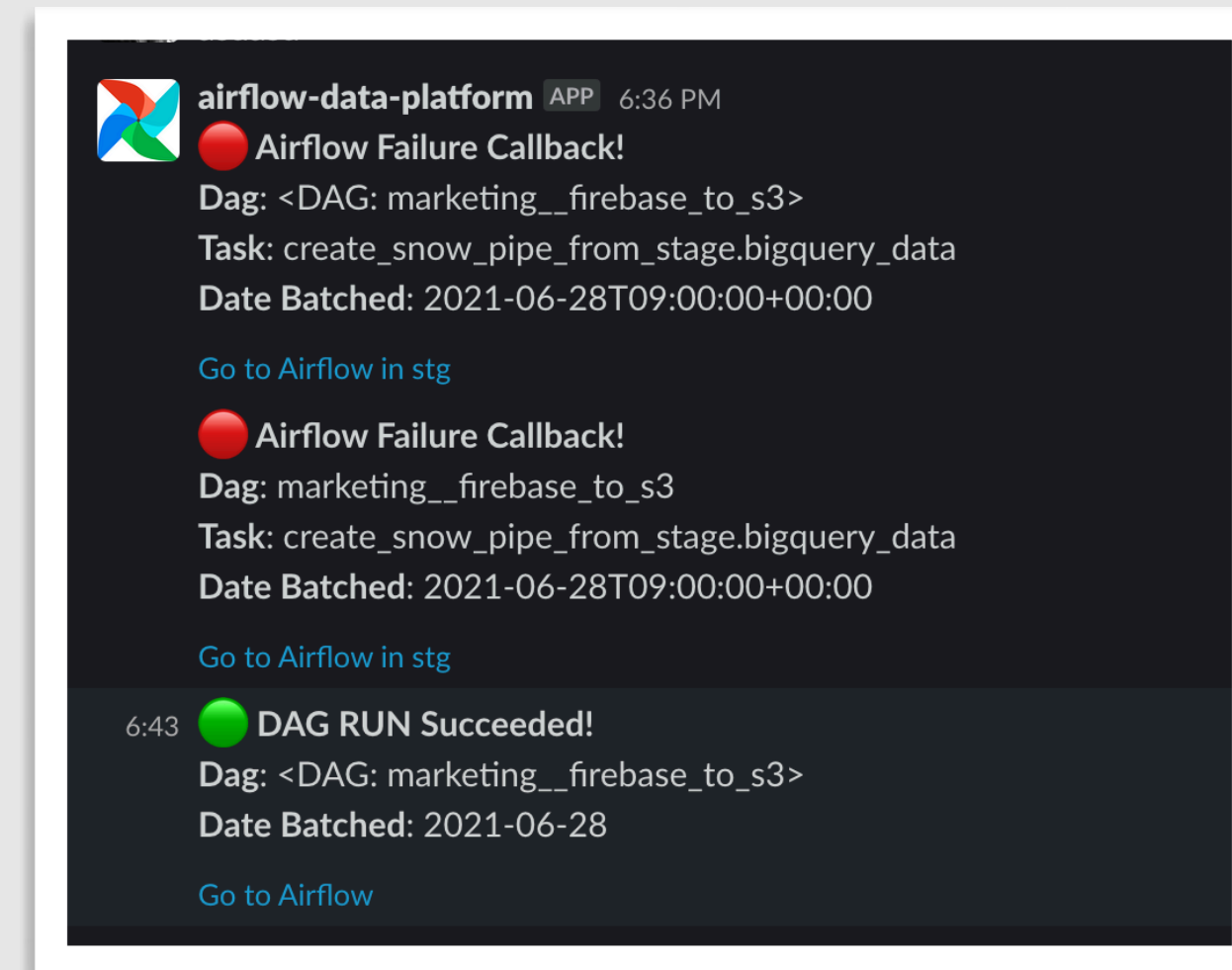
Have your own Local Airflow Environment

- Local System / Docker / Breeze ...

Define Together with your Team Best Practices for Writing DAGs

- Task Names
- Arguments
- Linters
- Dependency of Tasks

Always Include Notifications in your DAGs



`on_success_callback` , `on_failure_callback` , or `on_retry_callback`

Share what you know about Airflow with your team



Ensure that a Fail-Safe CI/CD is in Place

- Continuous Integration / Continuous Development

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Do not Ignore the Folder Structure

`airflow / airflow / providers /`

Do not put Tokens, Passwords or any Sensitive Data in Plain Text



```
key = 'pRmgMa8T0INjEAfksafzoZXEuwKI7wDe4c1F8AY='
```

Do not put Top-Level Statements Inside your DAGs

[illegible]

Do not Write the same DAG Hundred of Times

- DRY



Do not Over Engineer your Data Pipelines



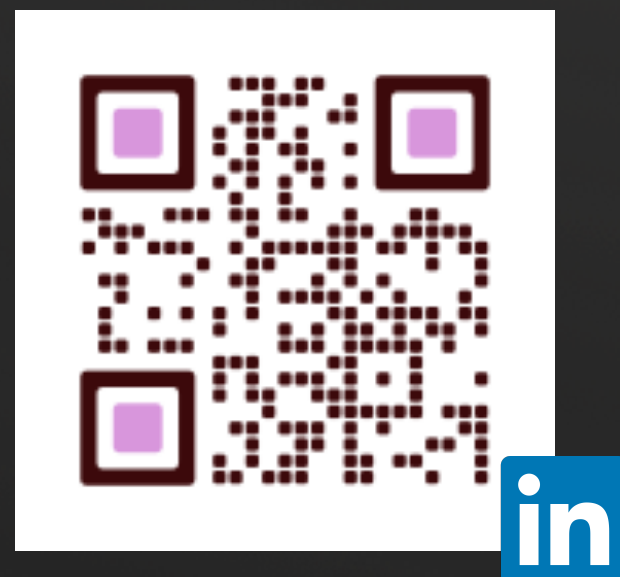
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Gracias!

Hosted by Bay Area community

Feedback, Questions or other Discussions in Slack



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