



The new modern data stack

Powered by Airbyte, Airflow, dbt

Hello!



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Airbyte

Open Data Integration (ELT)

 3,000 users

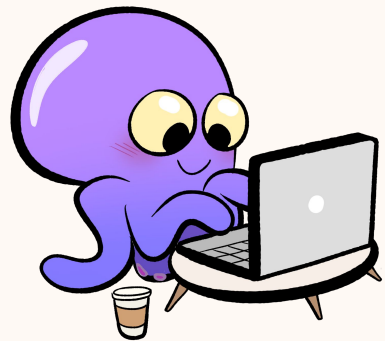
 1,900 Slack members

 3.5k GitHub stars

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Extract - Load - Transform

A new paradigm for modern data teams



Extract

Source-specific routines to pull selected data from an external system.

Transform

Business logic specific to your organization to serve an analytics or operational use case.

Load

Destination specific routines to push data where it is going to be consumed.

ETL doesn't work in today's world

Inflexible

- Friction when changing an existing pipeline.
- Hard to add new data.
- Most issues force data to be re-extracted.

Lack of Autonomy

- Warehouses made data consumers more autonomous.
- Changes require engineering involvement.

Complex

- Custom DSL.
- Force adoption of a data stack.
- Address 70% of the needs, 30% still built and maintained in-house.

E

xtract

General-purpose routines to pull selected data from a source.

L

oad

General-purpose routines to push raw data where it is going to be consumed.

T

ransform

Business logic specific to your organization to serve an analytics or operational use case with SQL / dbt / ...

ELT fixes the ETL-related issues

Flexibility

- All the data available on the destination.
- Data consumers are free to use what they need for the insights they want.

Autonomy

- Data consumers can leverage SQL queries to transform the data the way they want.
- No need to involve the engineering team.

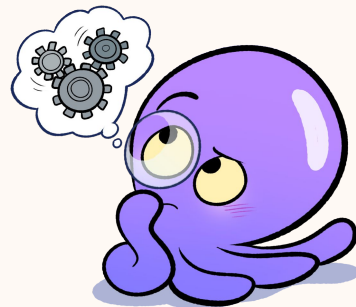
Future proof

- Issues during transformation don't prevent access to the data.
- Easy to update transformation schemas.

2

The open modern-stack

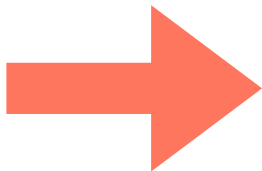
Compose with best of breed



The world of data is changing

All companies have custom data needs

- Types
- Skills
- Scale
- Budget
- Security
- Privacy
- Turnaround
- Compliance
- ...



**We are moving away from
horizontal, end-to-end solutions**

Select the best building blocks

Extract & Load



Data warehouse



Quality



great_expectations

Transformation



SQL

BI / Visualization



Observability



MONTE CARLO



Bigeye

Infrastructure



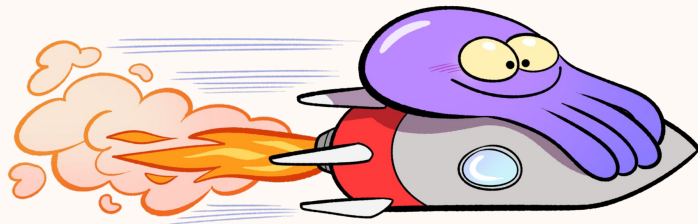
Composed with the best glue



3

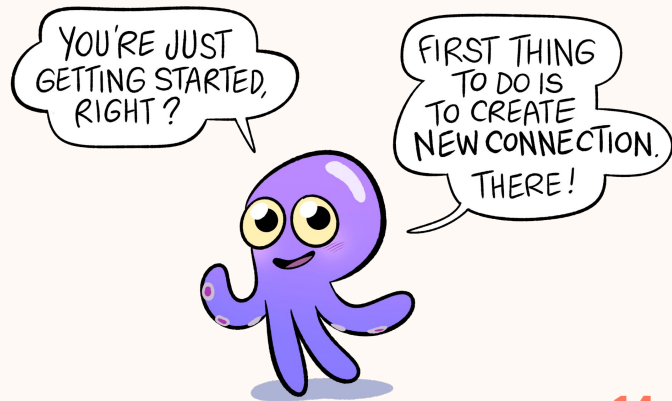
Airbyte-dbt-Airflow

To rule them all

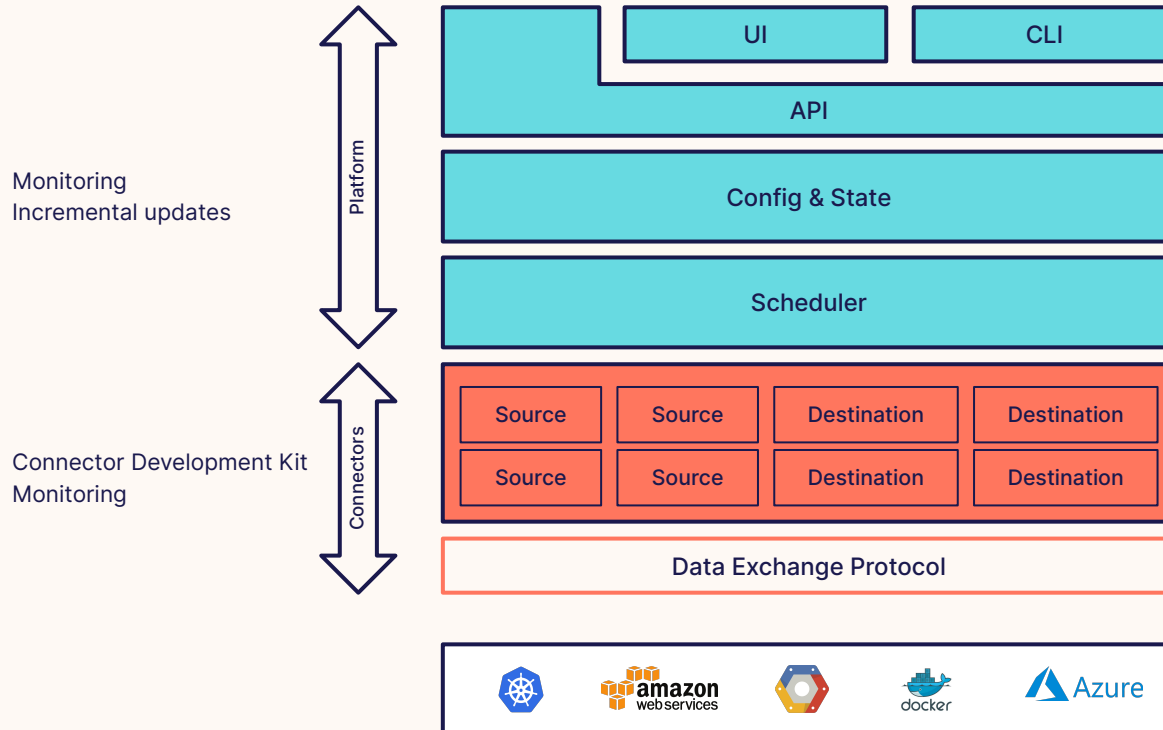


Airbyte: Solving Data Integration

- **Open-Source** data integration platform
- **80 high-quality data connectors** (targeting 200 by EOY)
- **Connector Development Kit** to build your own data connector
- Active **Slack community**
- Super fun mascot: **Octavia Squidington III**

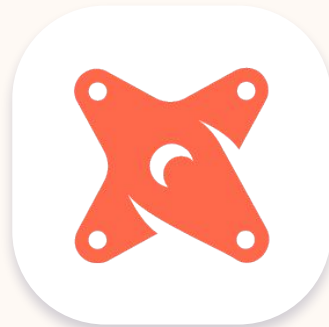


An open data platform for modern teams



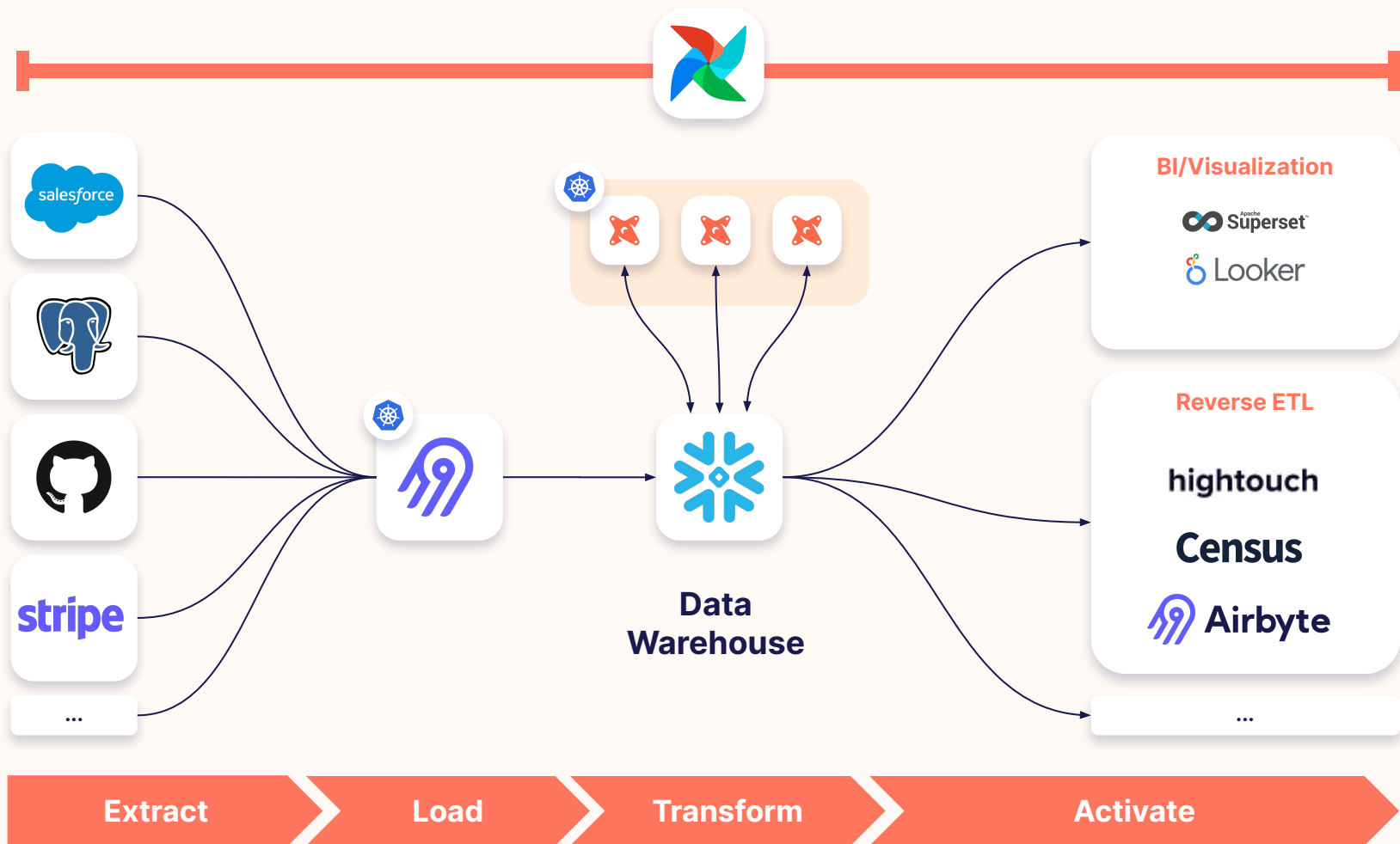
dbt: Solving Data Transformation

- **Open-Source** data transformation application
 - **Transform SQL** to tables, views
 - **Cascades** transformations
- Supports most SQL **Databases** & **Warehouses**
- Brings software engineering **best practices** to Analytics Engineers
 - Version control
 - Testing
 - Packaging



Airflow: Solving Scheduling

Do I really need to tell you what Airflow is?







Demo

All source code & configurations available on [github](#)

Thanks!

Any questions?

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