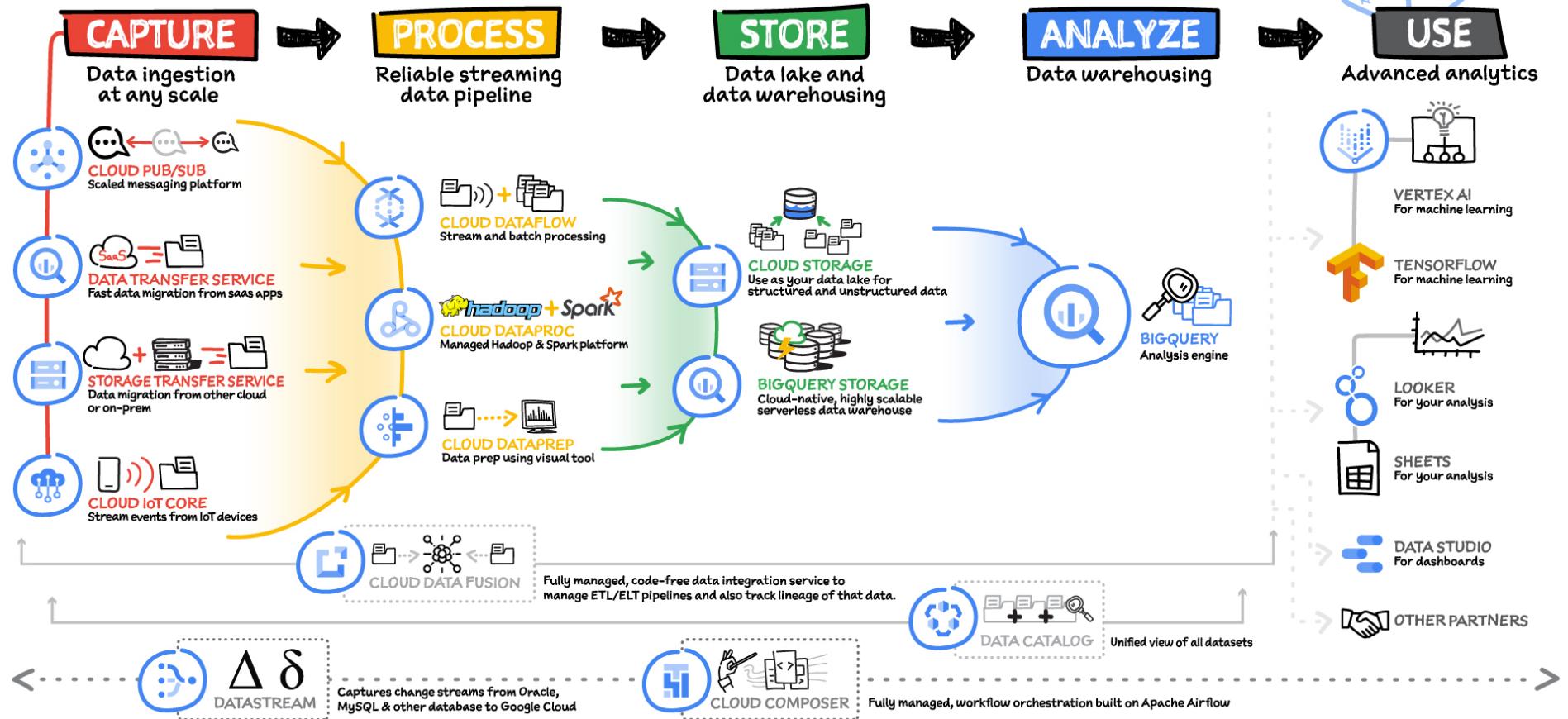




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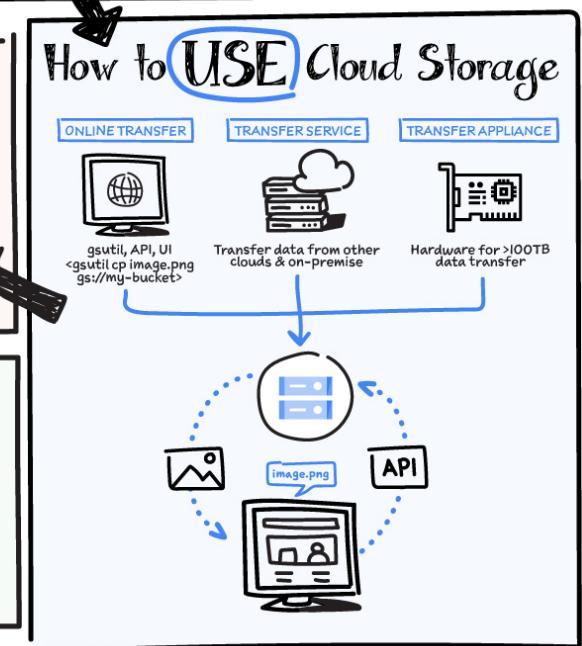
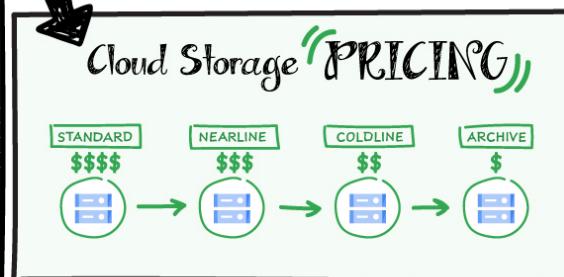
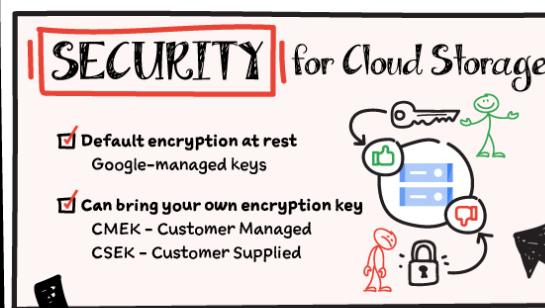
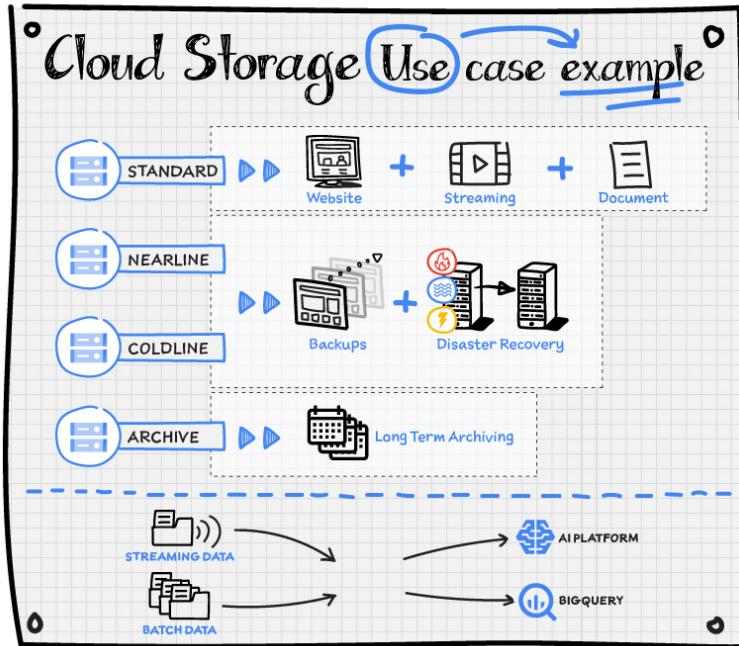
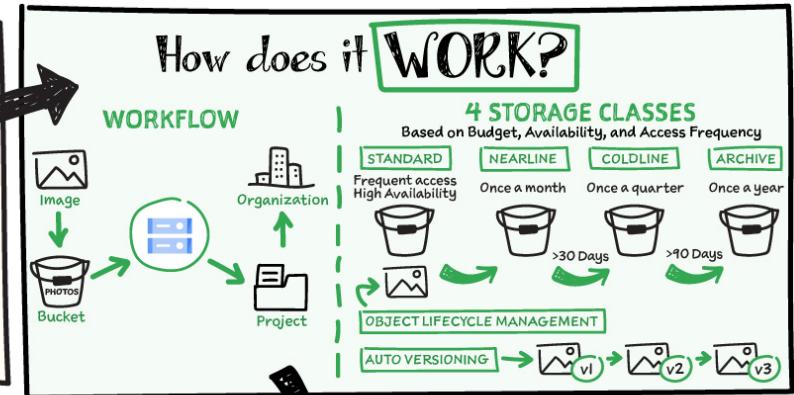
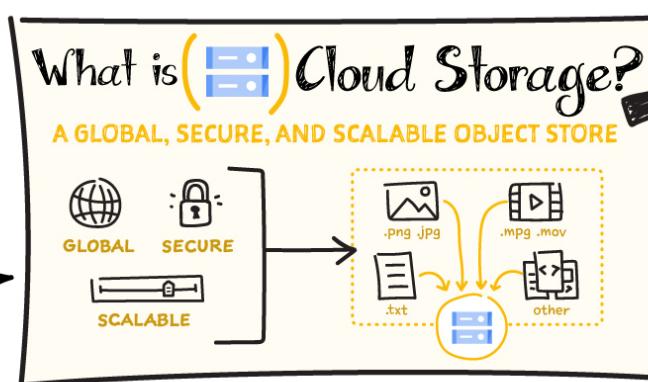
How to build a scalable DATA ANALYTICS PIPELINE



Cloud Storage

#GCPSketchnote

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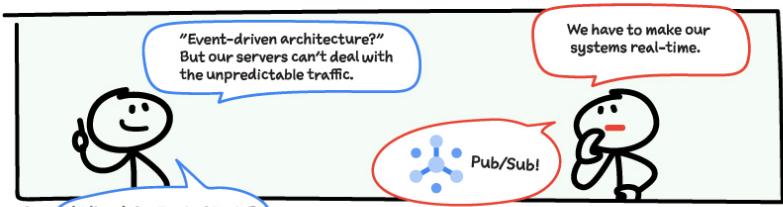


Cloud Pub/Sub

#GCPsketchnote

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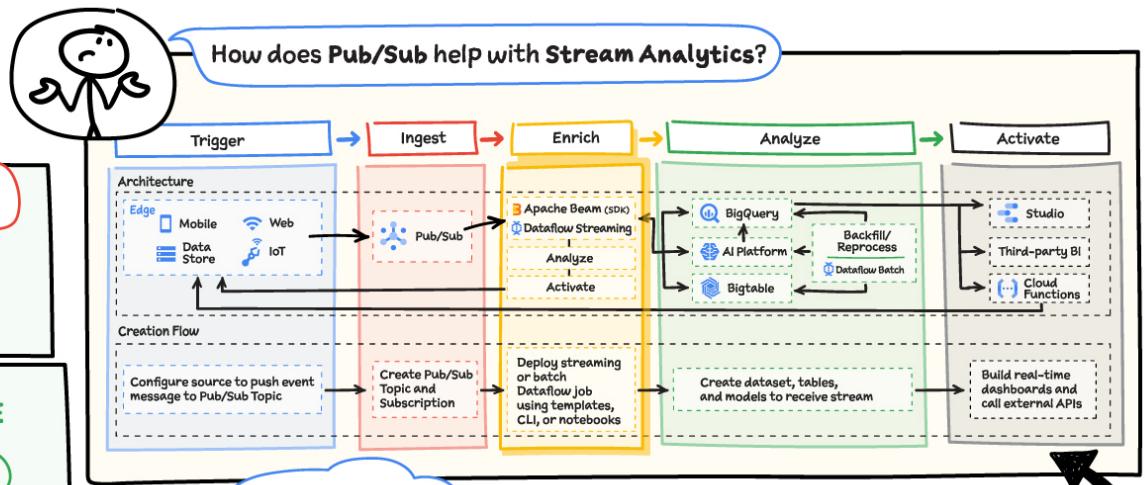
01.05.2021



What is Pub/Sub?

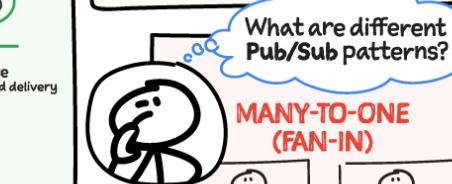
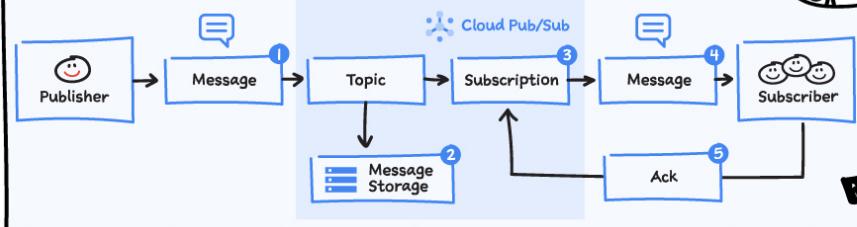
EVENT DRIVEN ASYNCHRONOUS MESSAGING SERVICE

- Service (Produce event) → → Service (Process event)
- In-order delivery at scale
- Exactly once processing
- Dead letter topics
- At-least-once delivery in conjunction with Dataflow
- Filtering
- Seek & Replay
- Pub/Sub Lite Cost optimized delivery
- Offline message inspection

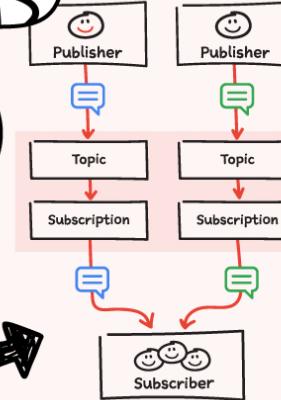


How does Pub/Sub work?

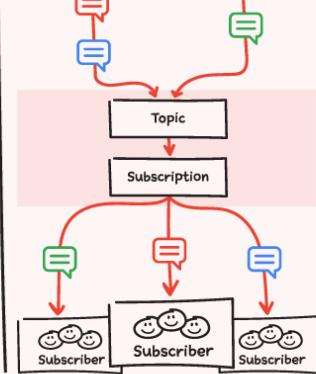
PUB/SUB MESSAGE FLOW



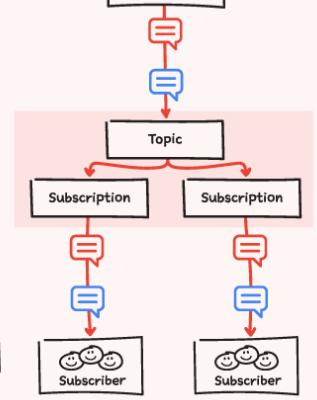
MANY-TO-ONE (FAN-IN)



MANY-TO-MANY



ONE-TO-MANY (FAN-OUT)

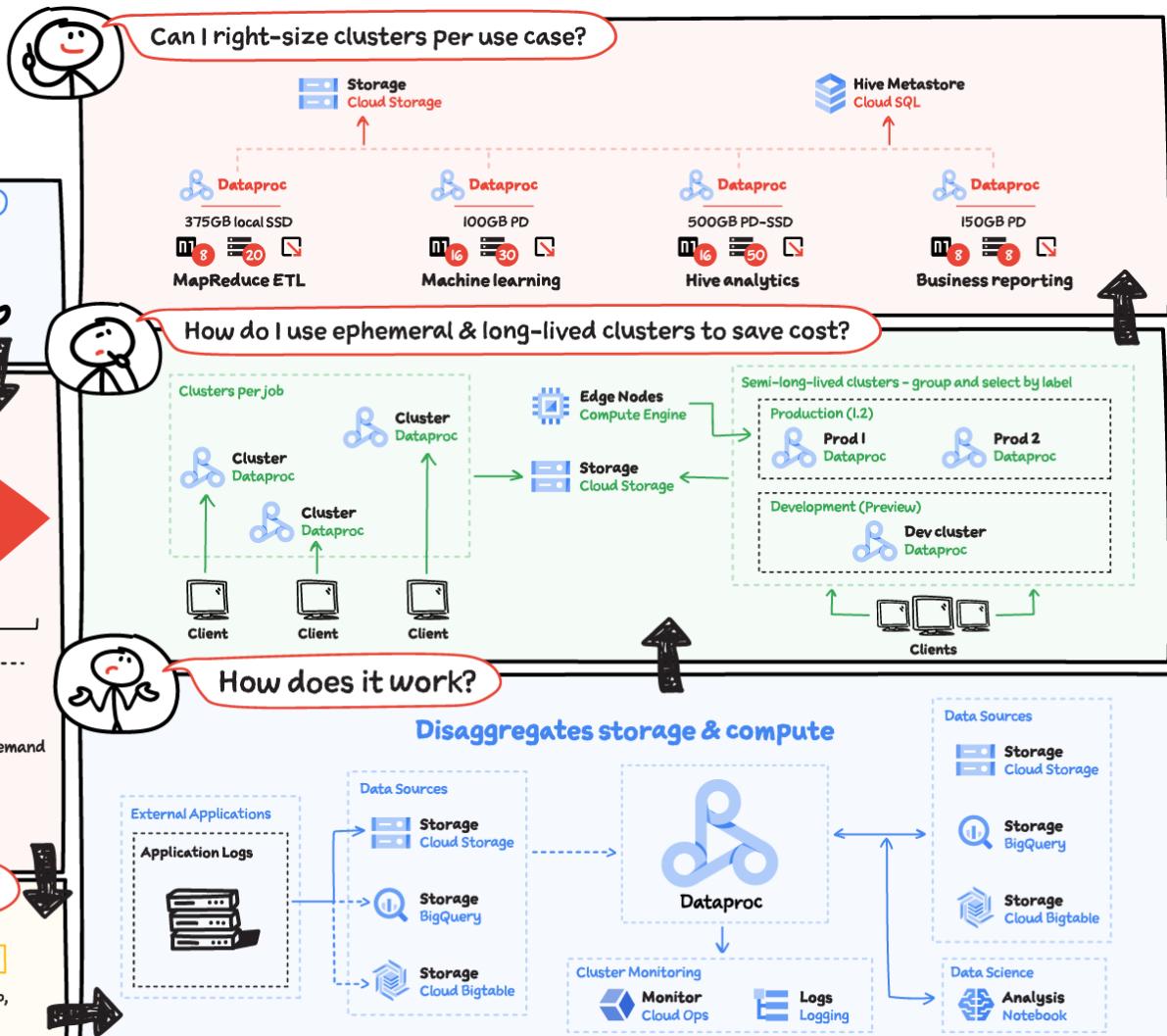
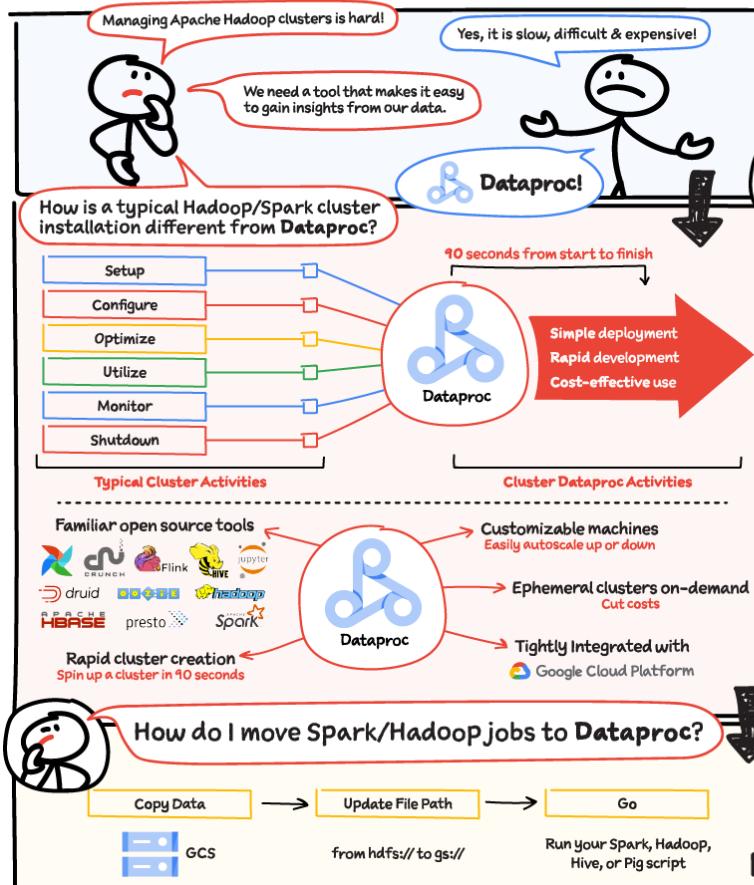


LOAD BALANCING



Dataproc #GCPSketchnote

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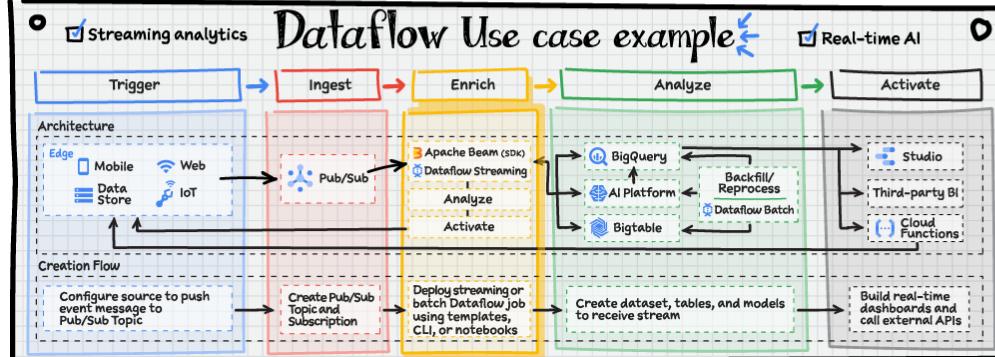
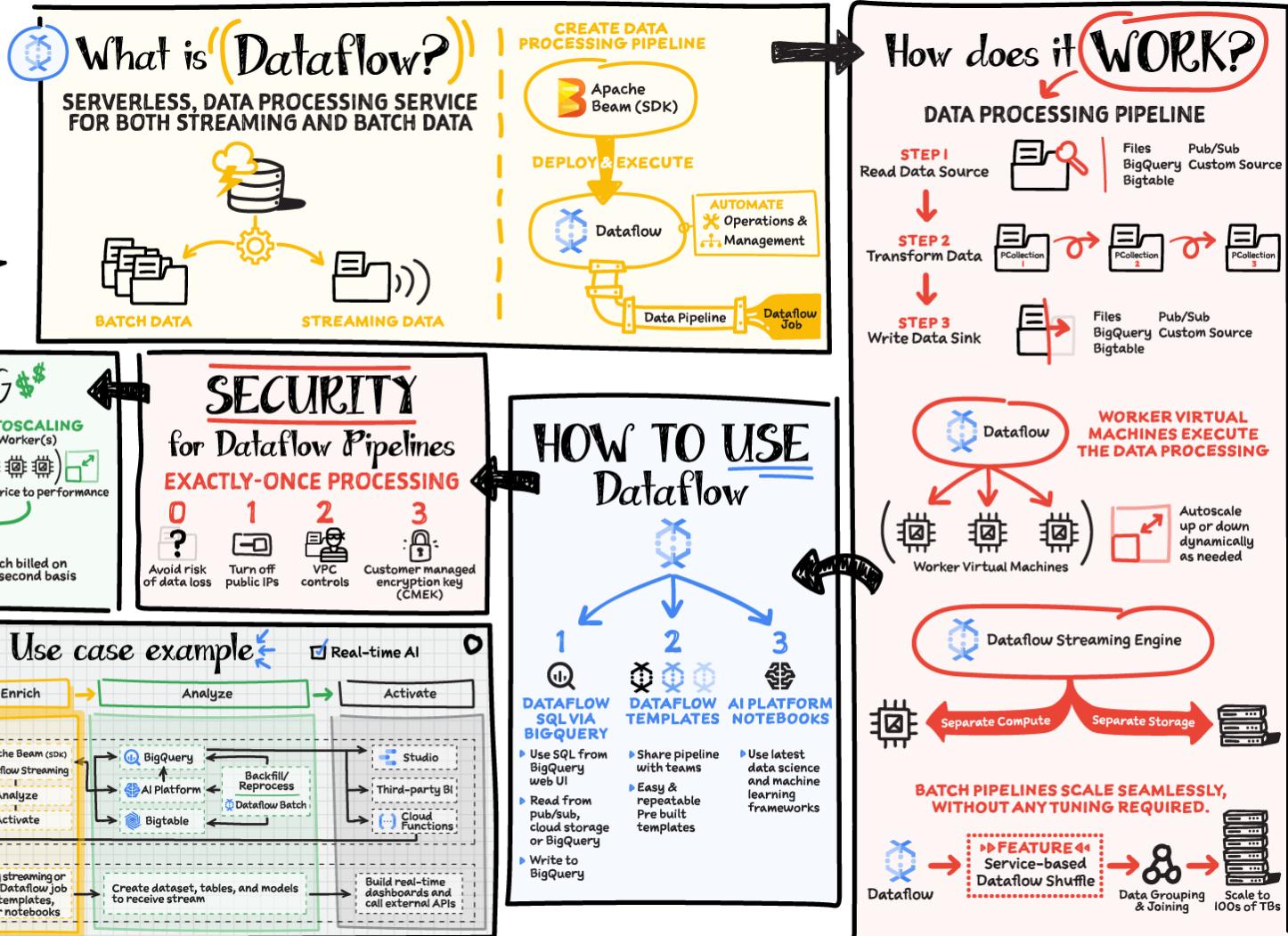
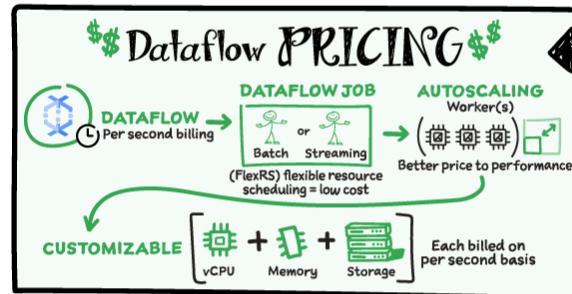


Dataflow

#GCPsketchnote

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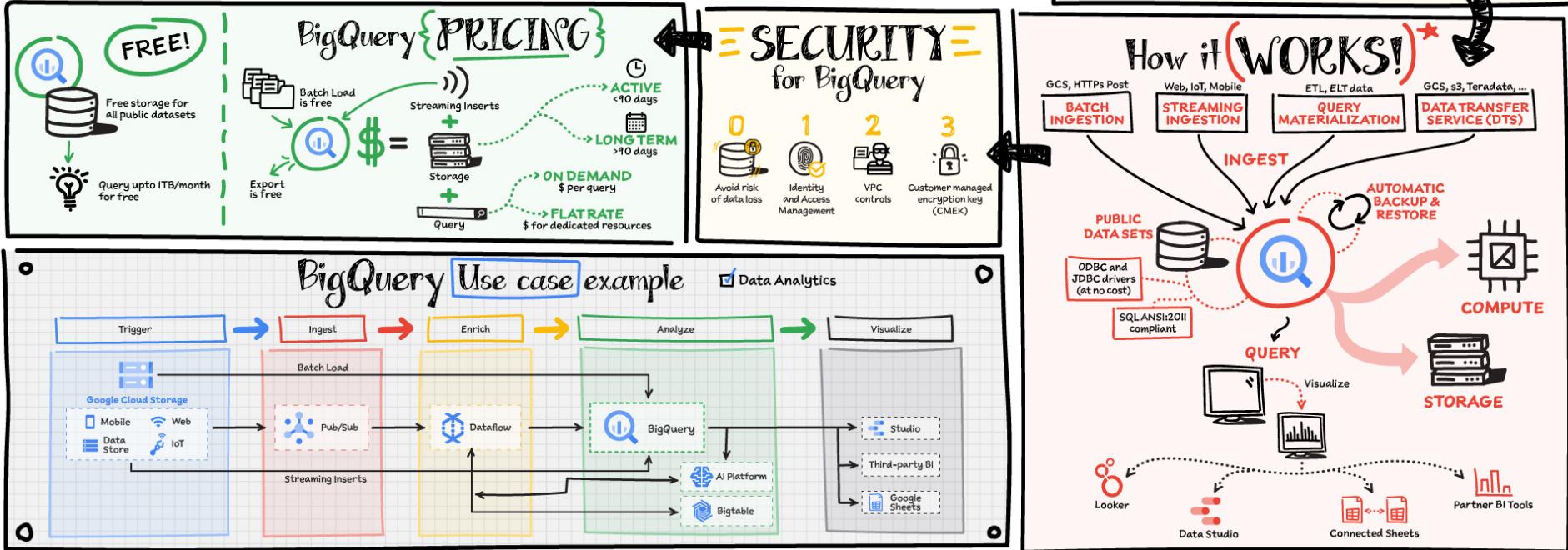
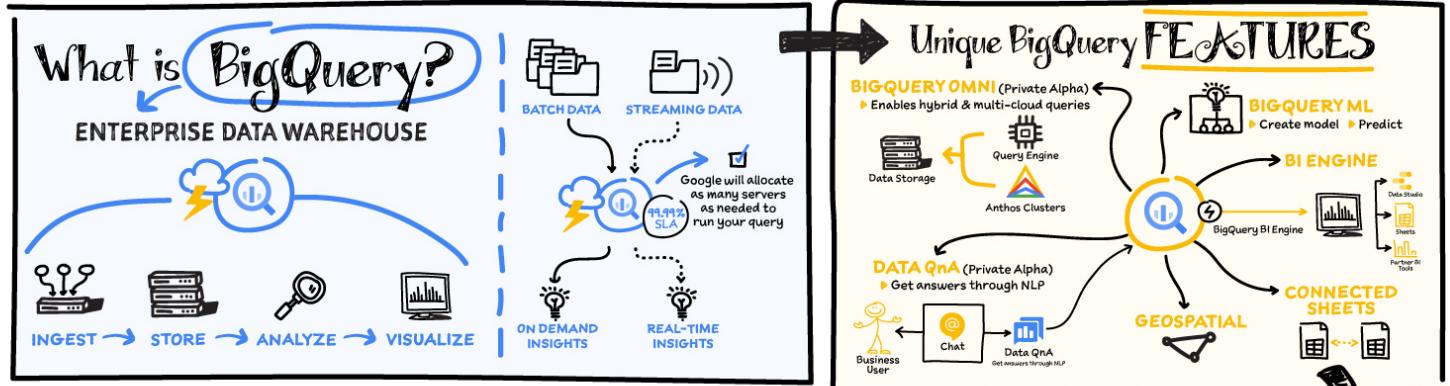
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BigQuery

#GCPsketchnote

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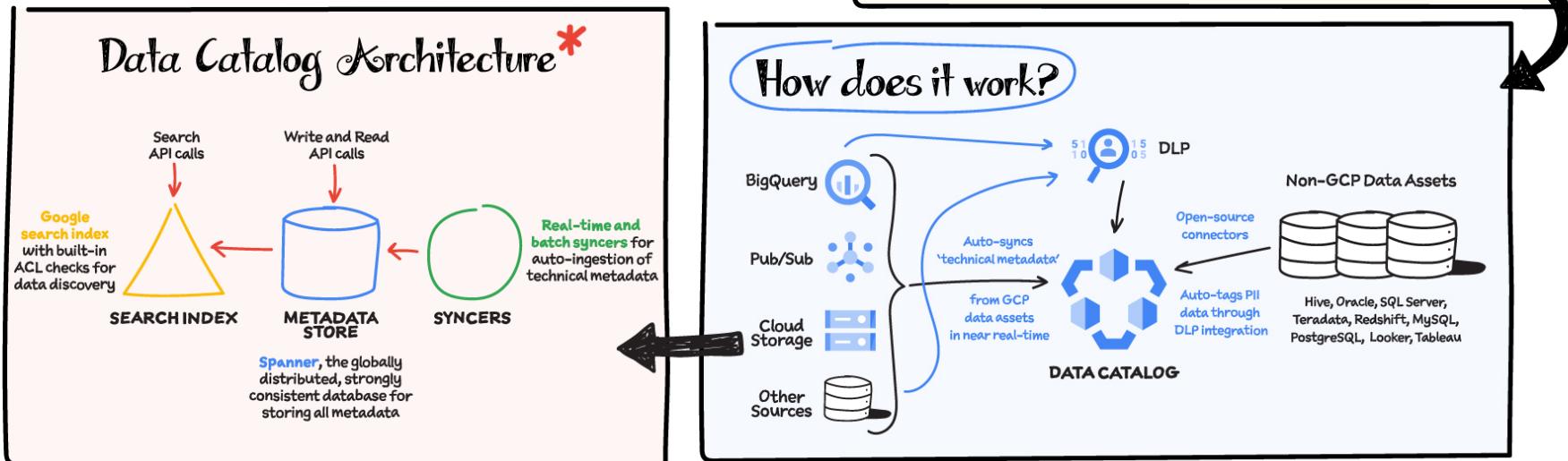
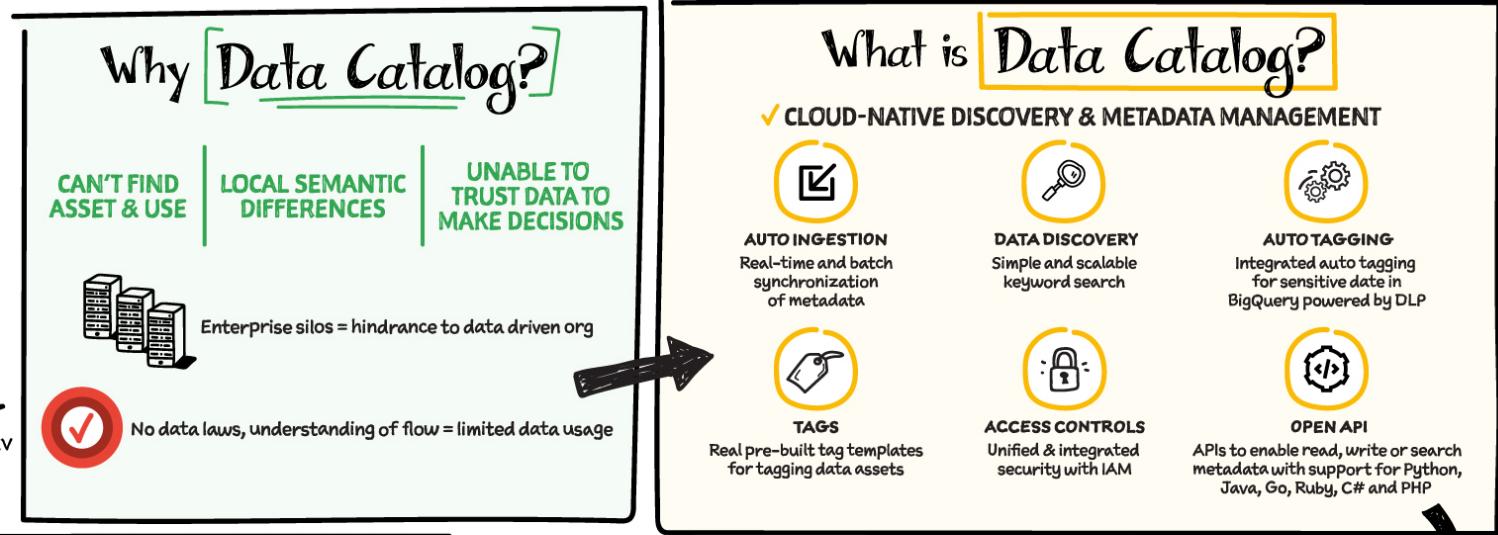


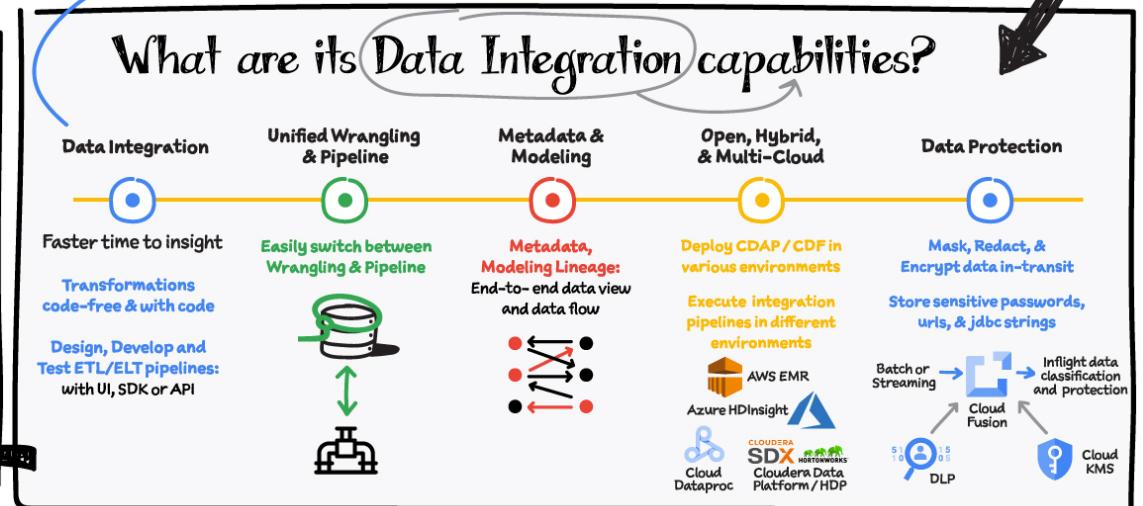
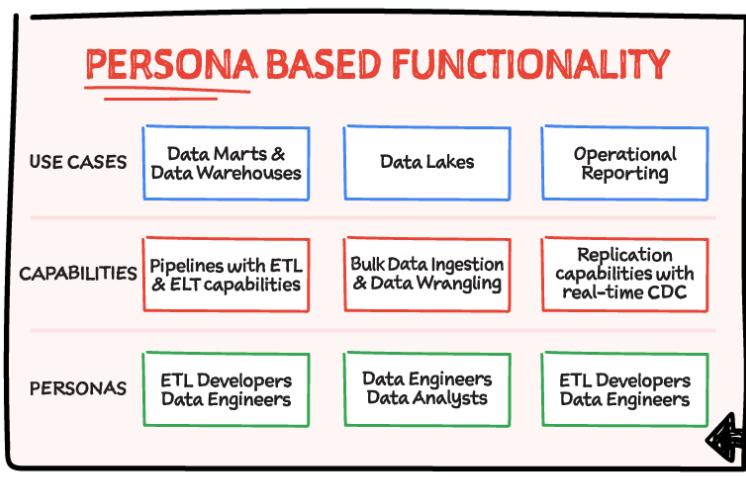
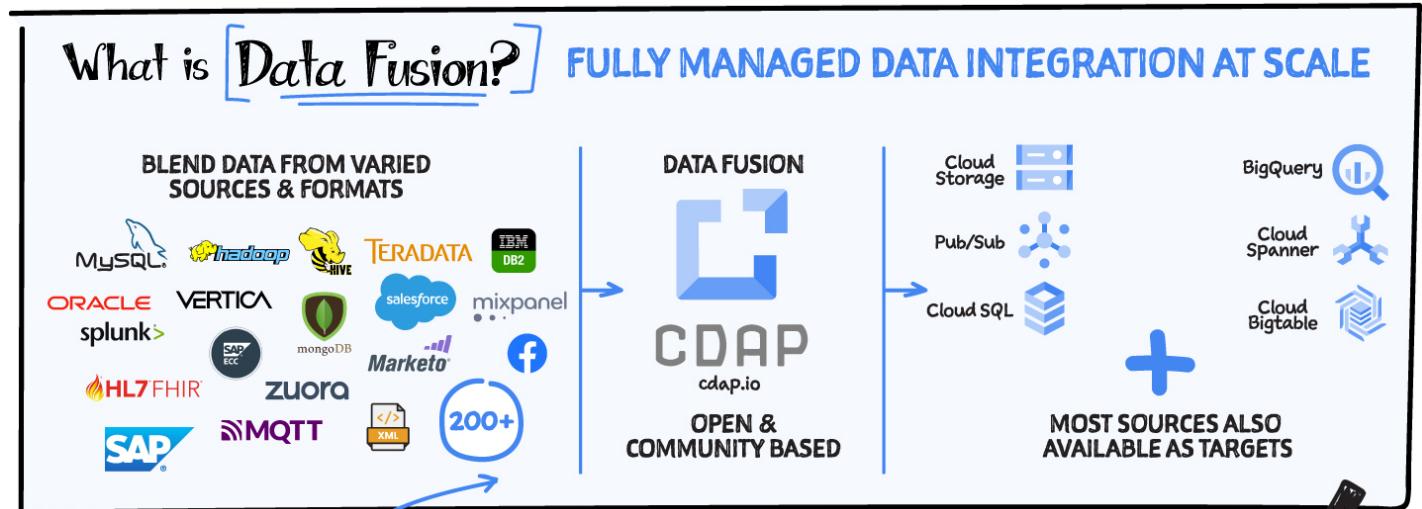
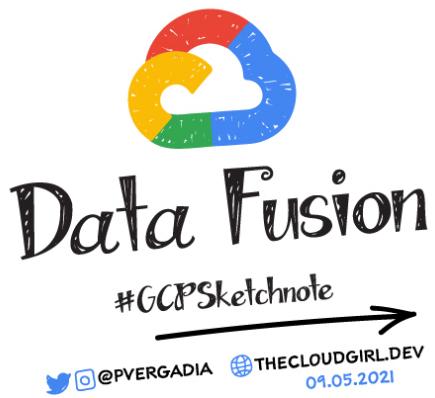


Data Catalog

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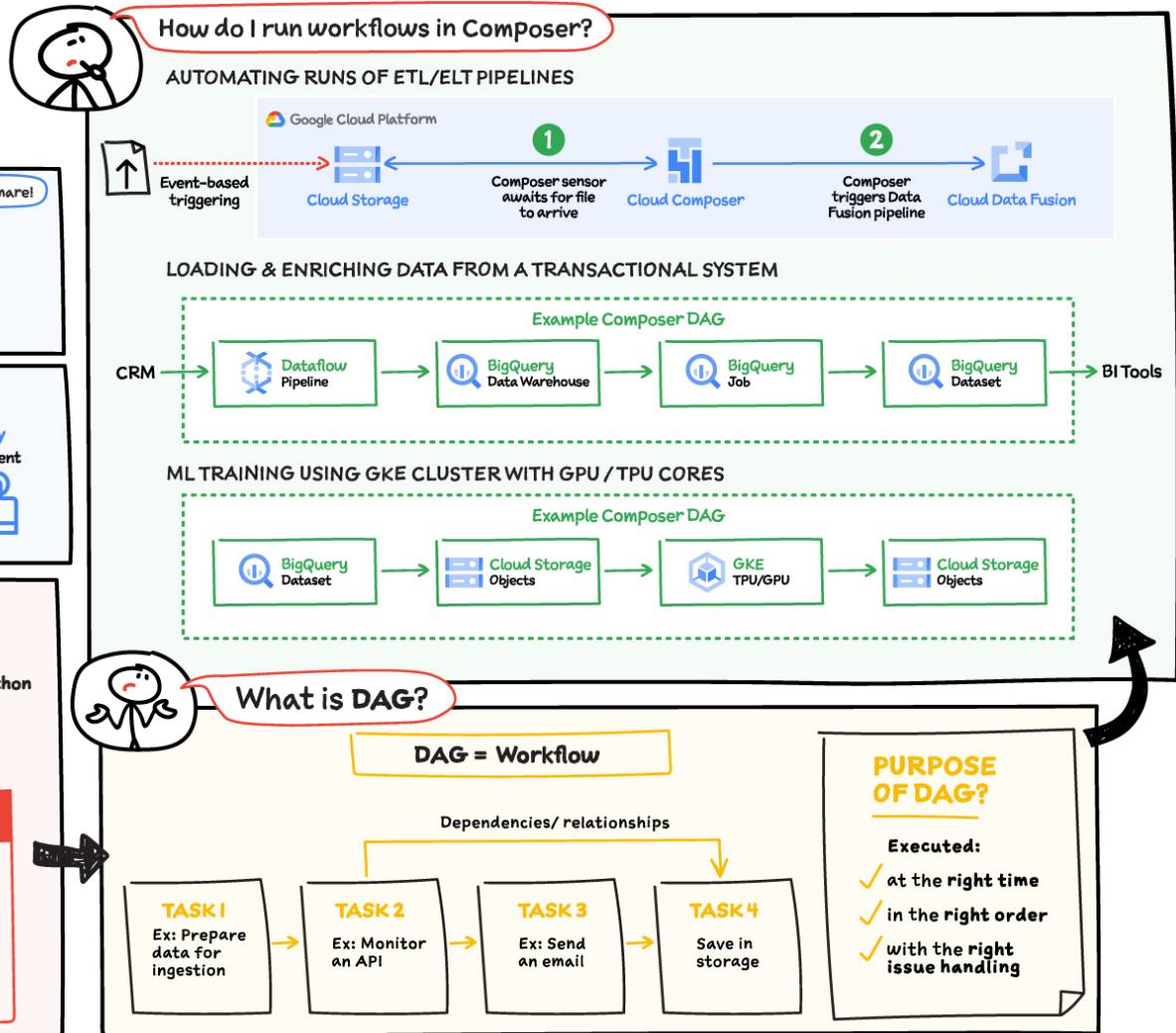
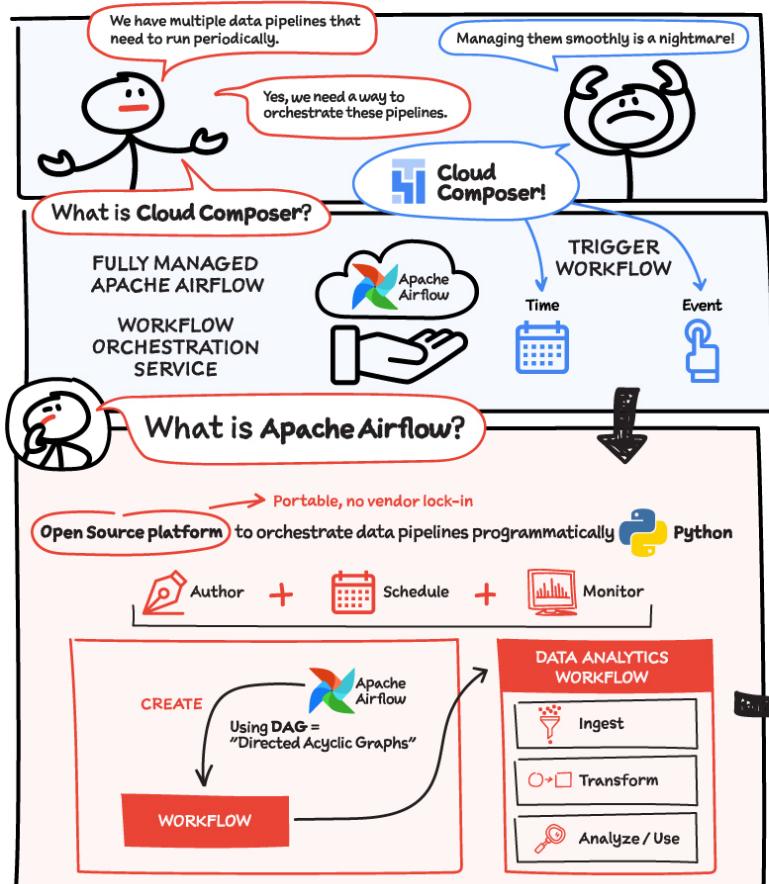
Cloud Composer

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Hey

Look! It's Looker



Real-time dashboards, reports, self service data exploration



Embed analytics into existing applications (CRMs, chat applications, etc)



Automate multicloud workflow through smart alerts and data delivery



Build a custom analytics experience

Modern BI & Analytics

Integrated Insights

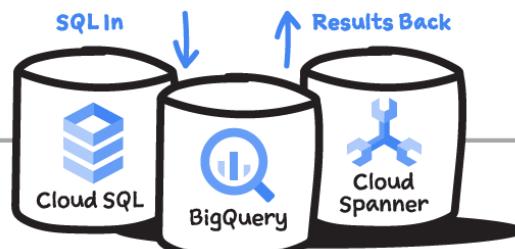
Data-driven Workflows

Custom Applications



Looker

- API-first & cloud native for integrating into existing workflows
- Semantic modeling layer for enterprise-wide governance
- In-database architecture for access to real-time data





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