

Cloud Sidecar

Enabling multi-cloud and cloud migration

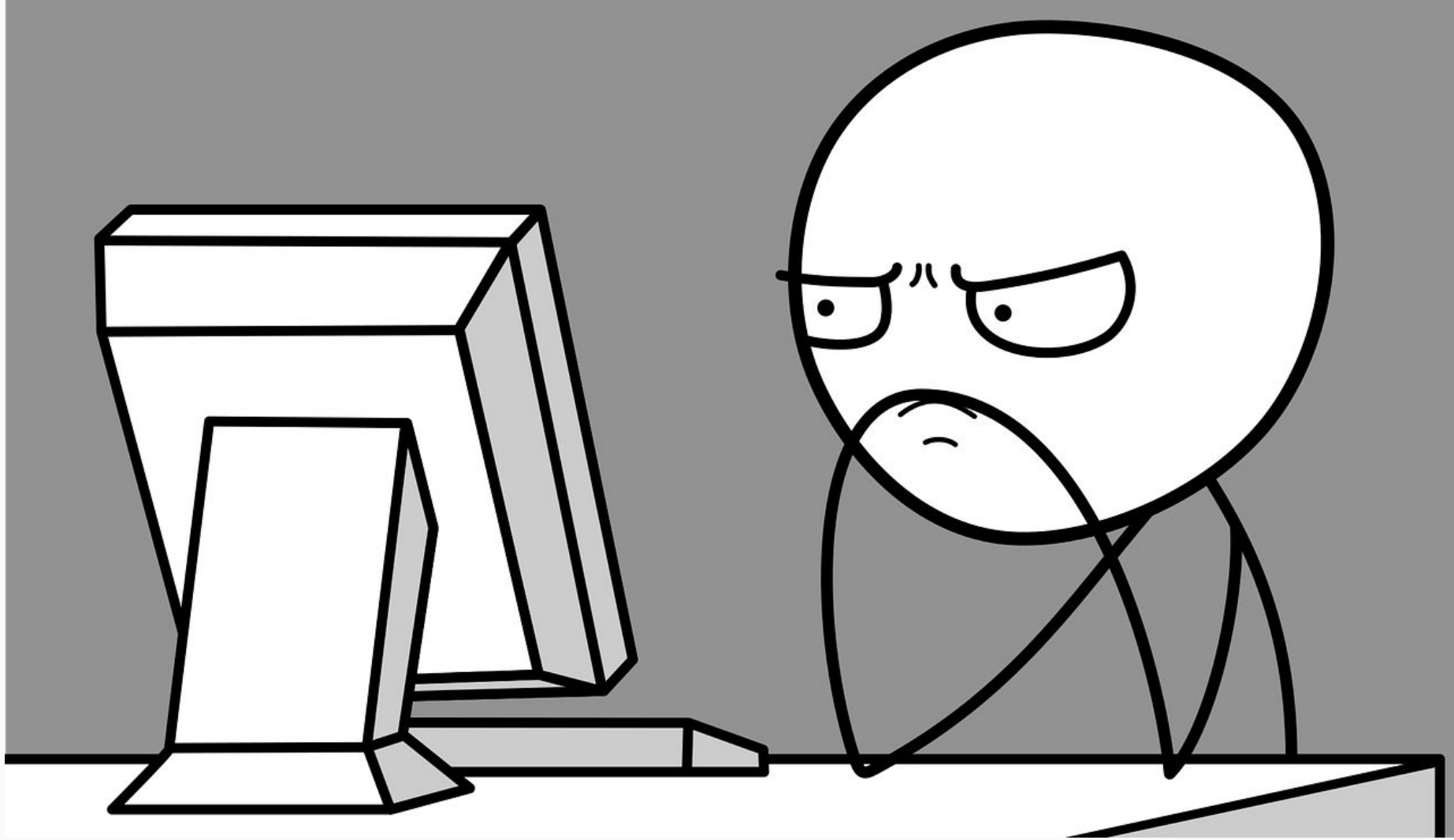




“I read an article that said all successful companies need to be multi-cloud. Get us multi-cloud by the end of the half. ”

- Crazy CTO





“Multi-cloud and
cloud migration is
easy”

- No one ever

A photograph of a person in a red shirt and grey shorts pushing a large, rough, reddish-brown rock in a room with peeling walls and large windows. The text "Vendor Lock-In" is overlaid in white on a black rectangular background in the center of the image.

Vendor Lock-In

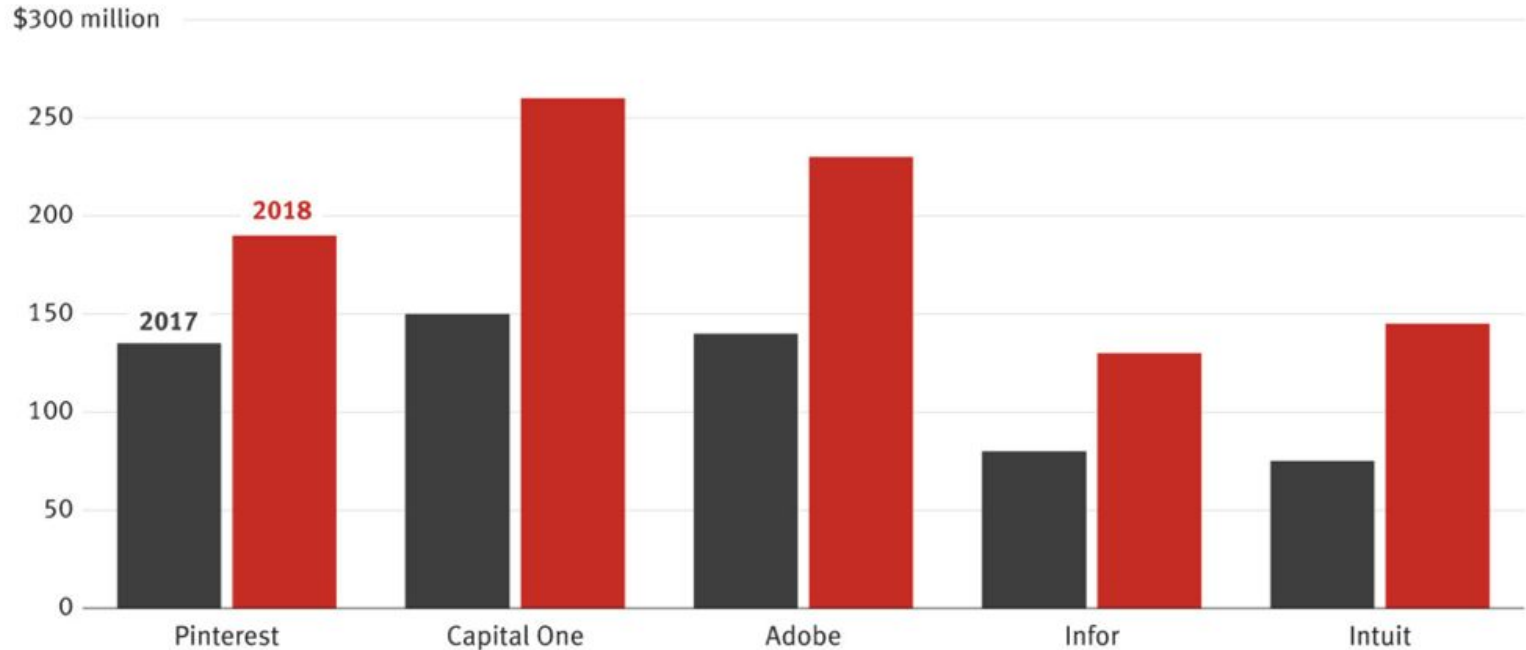
Lawrence (Larry) Finn



Why even think beyond your current cloud?

Climbing Cloud Costs

AWS bills for several big customers increased significantly in recent years



Source: The Information reporting

Why even think beyond your current cloud?



Why even think beyond your current cloud?



Why even think beyond your current cloud?



Infrastructure

Software

Infrastructure is a “solved” problem



HashiCorp

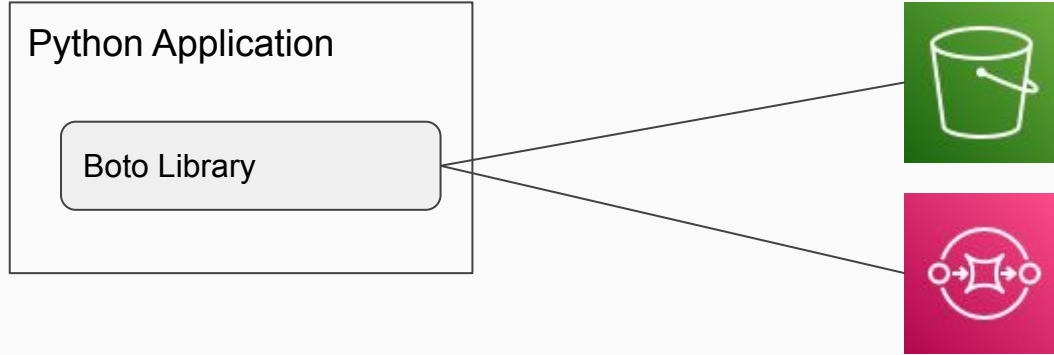
Terraform



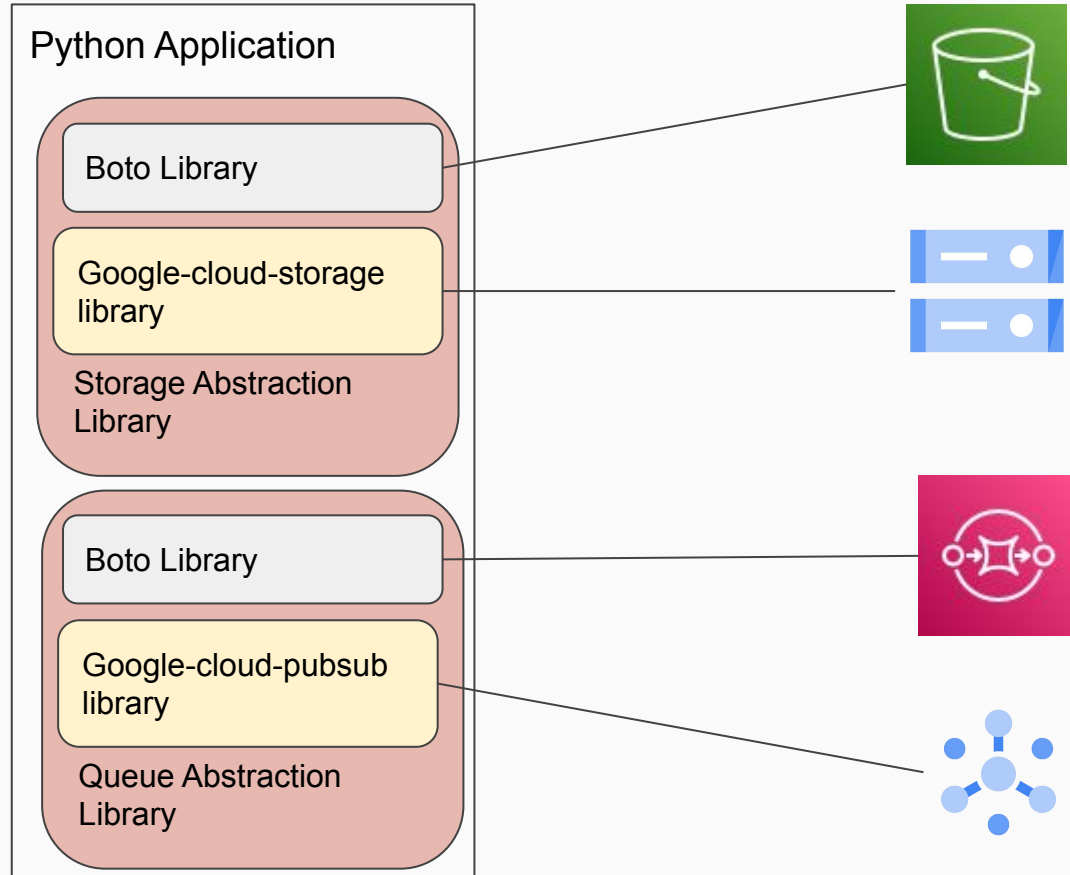
kubernetes

What about your
software?

How would you enable GCP for an AWS applications?



How would you enable GCP for an AWS applications?



Polyglot Everything



Fun Architecture

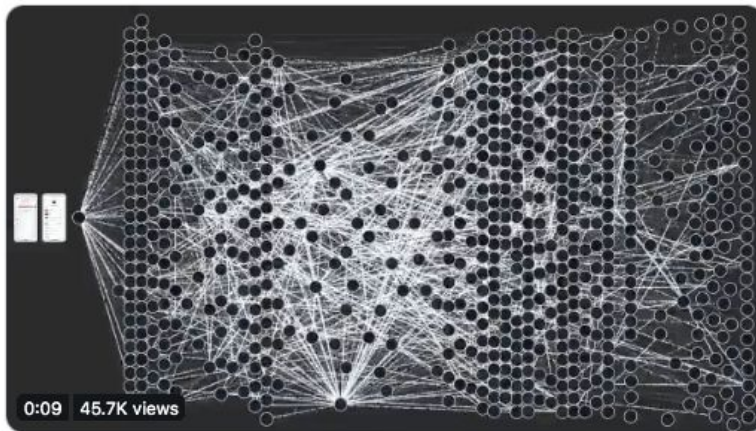


Suhail Patel
@suhailpatel



Here's the live request flow on a large subset of the 1500+ microservices on the [@MakingMonzo](#) Platform. A lot of things are involved in running a bank!

If you used the [@monzo](#) app at around 3pm today, you might be represented 😊



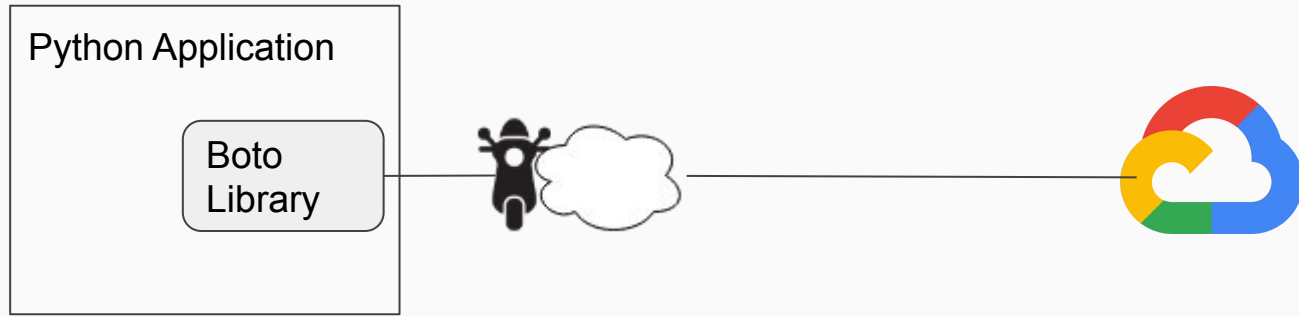
4:00 PM · Nov 17, 2019 · [Twitter Web App](#)

Enter Cloud Sidecar

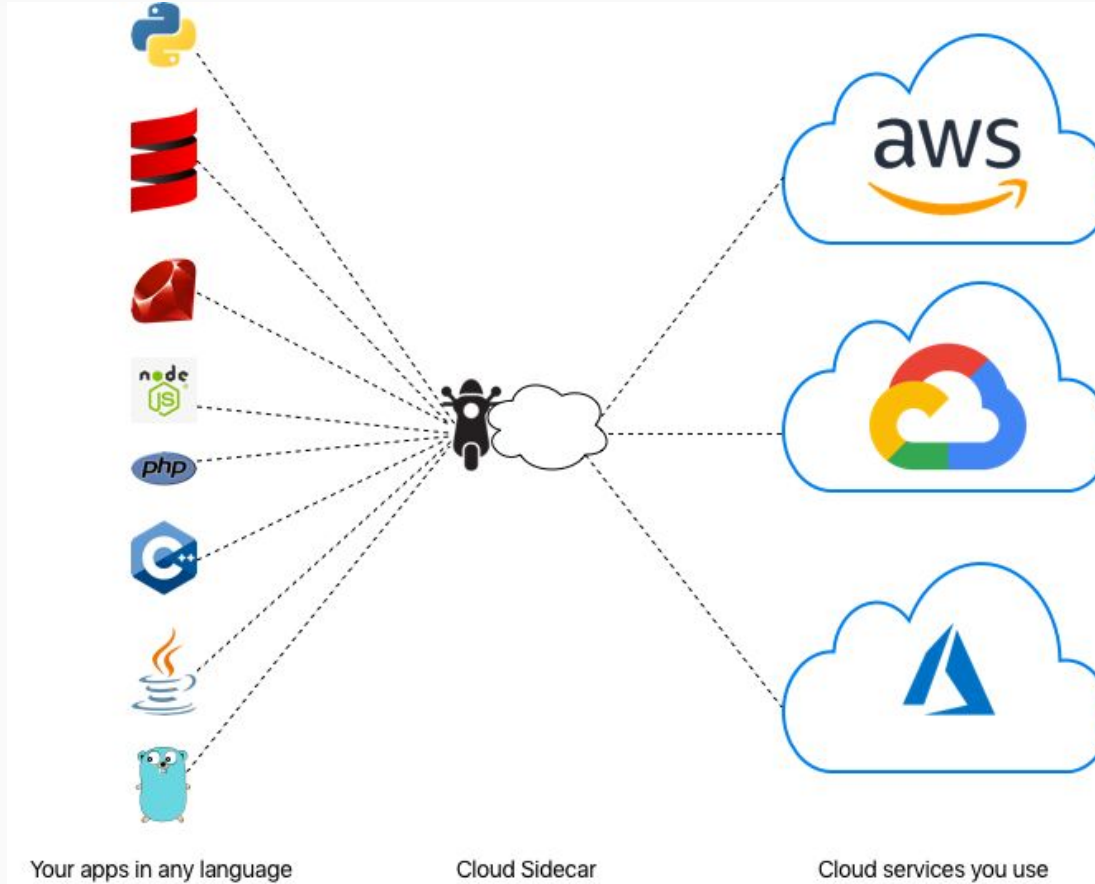
How it works



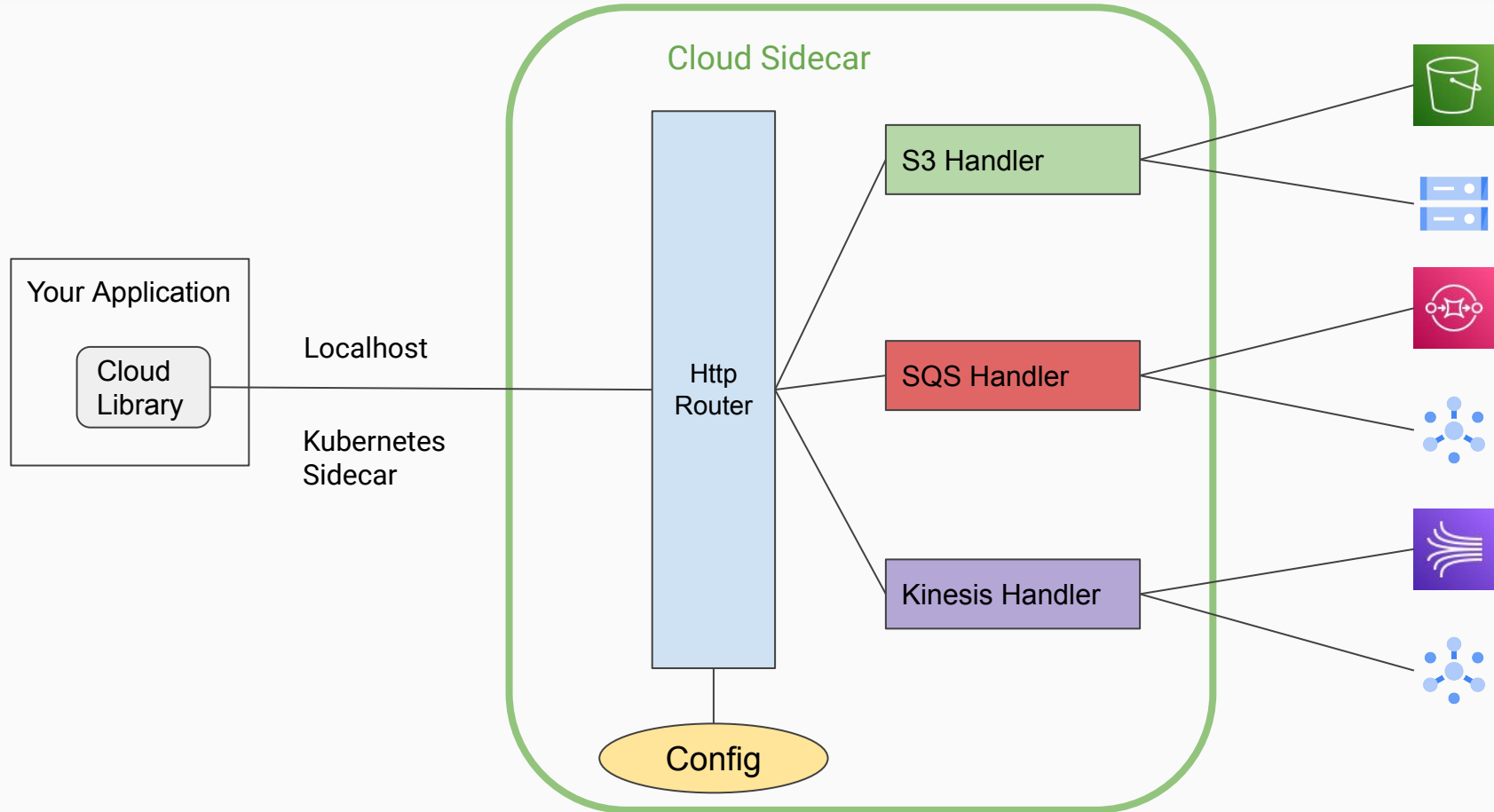
How it works

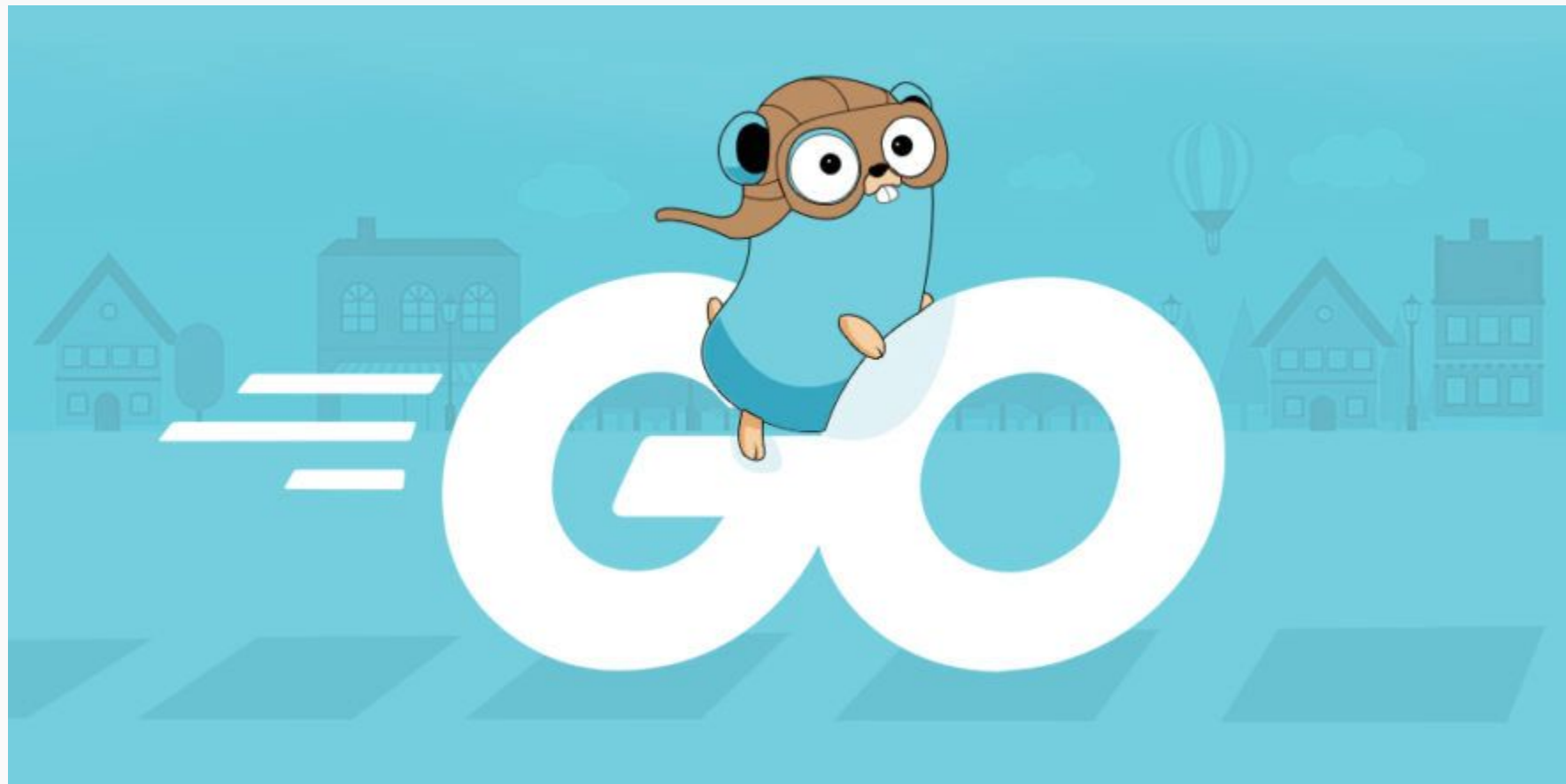


Transform existing software



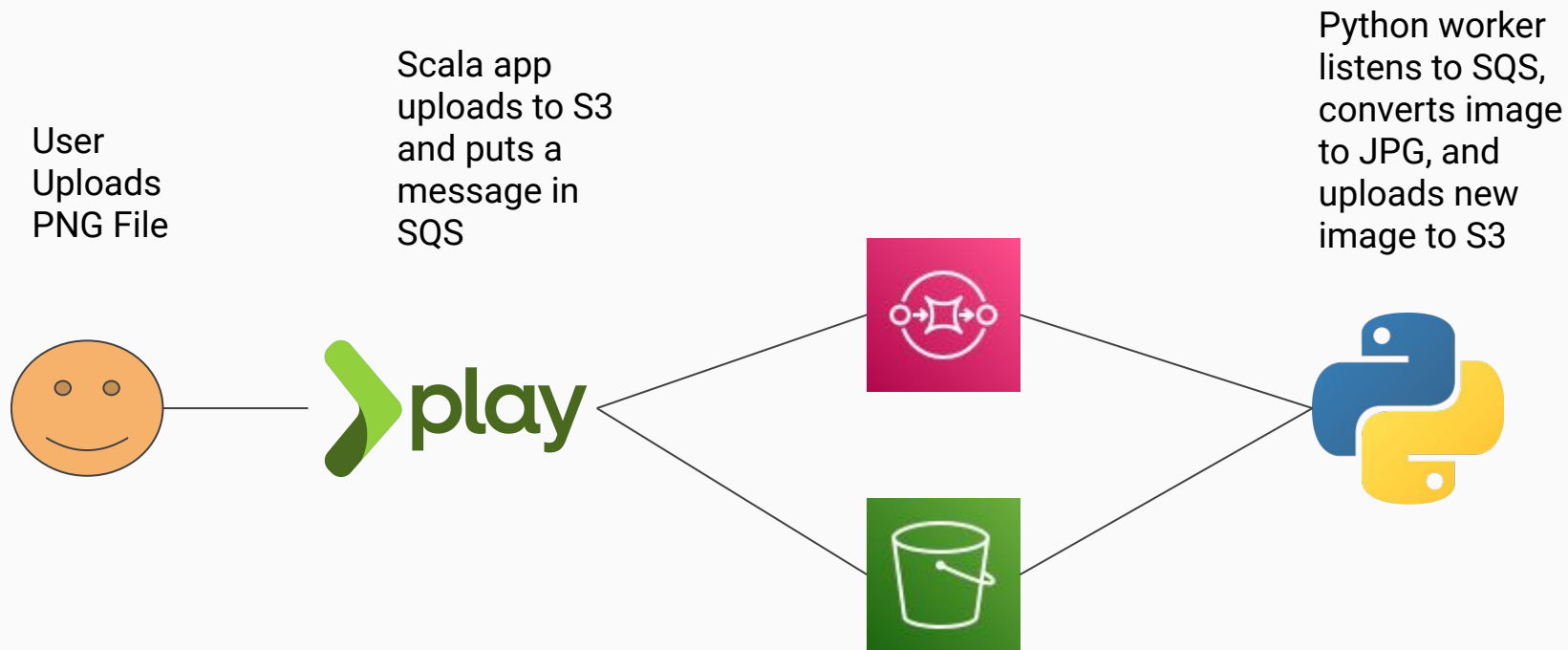
Tech Details

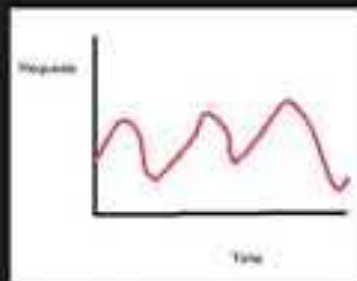




Demo Application

Demo Image Conversion Application





Features and Functionality

Overview

	Community	Enterprise
Supports Any Programming Language	✓	✓
AWS to GCP Conversion	✓	✓
File Storage - S3 to GCS	✓	✓
File Storage - GCS to S3	✓	✓
Queue - SQS to Pubsub	✓	✓
Streaming Data - Kinesis to Pubsub	✓	✓
Customizable Plugins and Middleware	✓	✓
Key Value - DynamoDB to Datastore or Bigtable	✗	✓
Big Data - Redshift to BigQuery	✗	✓
Big Data - Customizable Stored Procedure Style Plugins	✗	✓
Metrics Integration - StatsD and Datadog	✗	✓

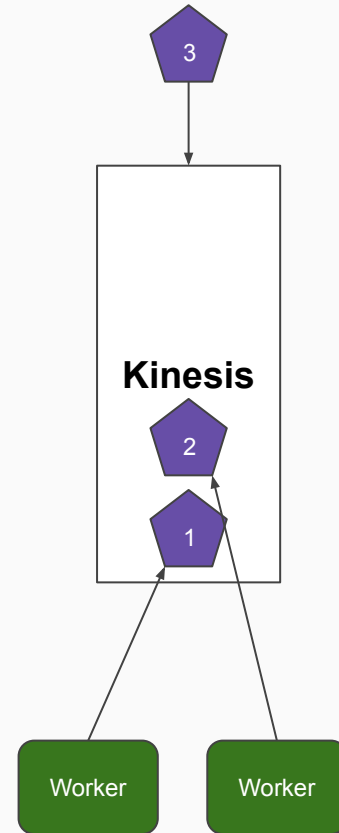
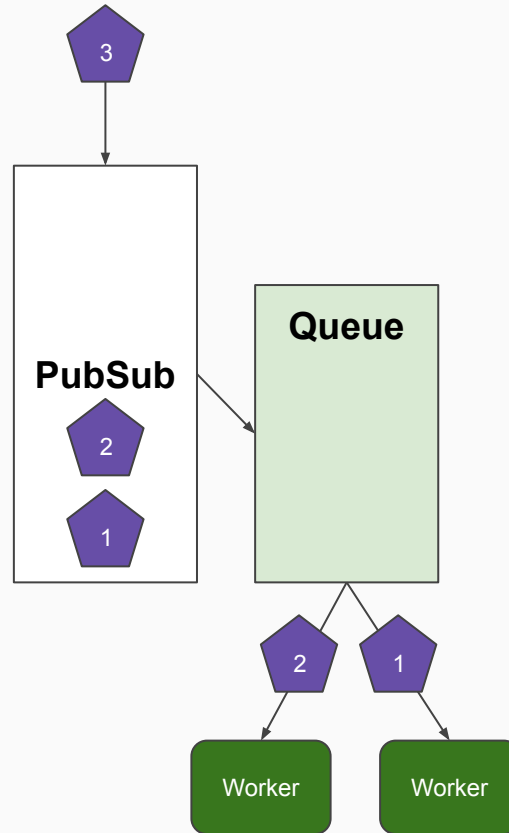
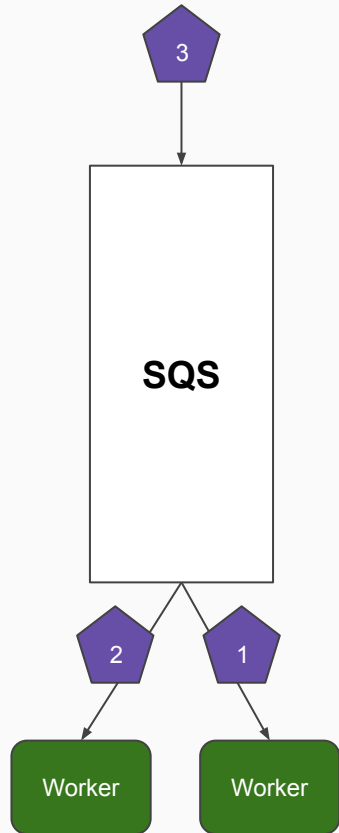
Storage - S3 to GCS

- List v1
- List v2
- ACL
- Head
- Get
- Put
- Multipart Upload
- Delete
- Multi-delete
- Copy

Storage - GCS to S3 - Beta

- List
- ACL
- Get
- Put
- Resumable Upload
- Combine
- Delete
- Copy

Message Queue



Message Queue - SQS to PubSub

- List
- Create
- Purge
- Delete
- Send
- Send Batch
- Receive
- Delete Message
- Delete Message Batch

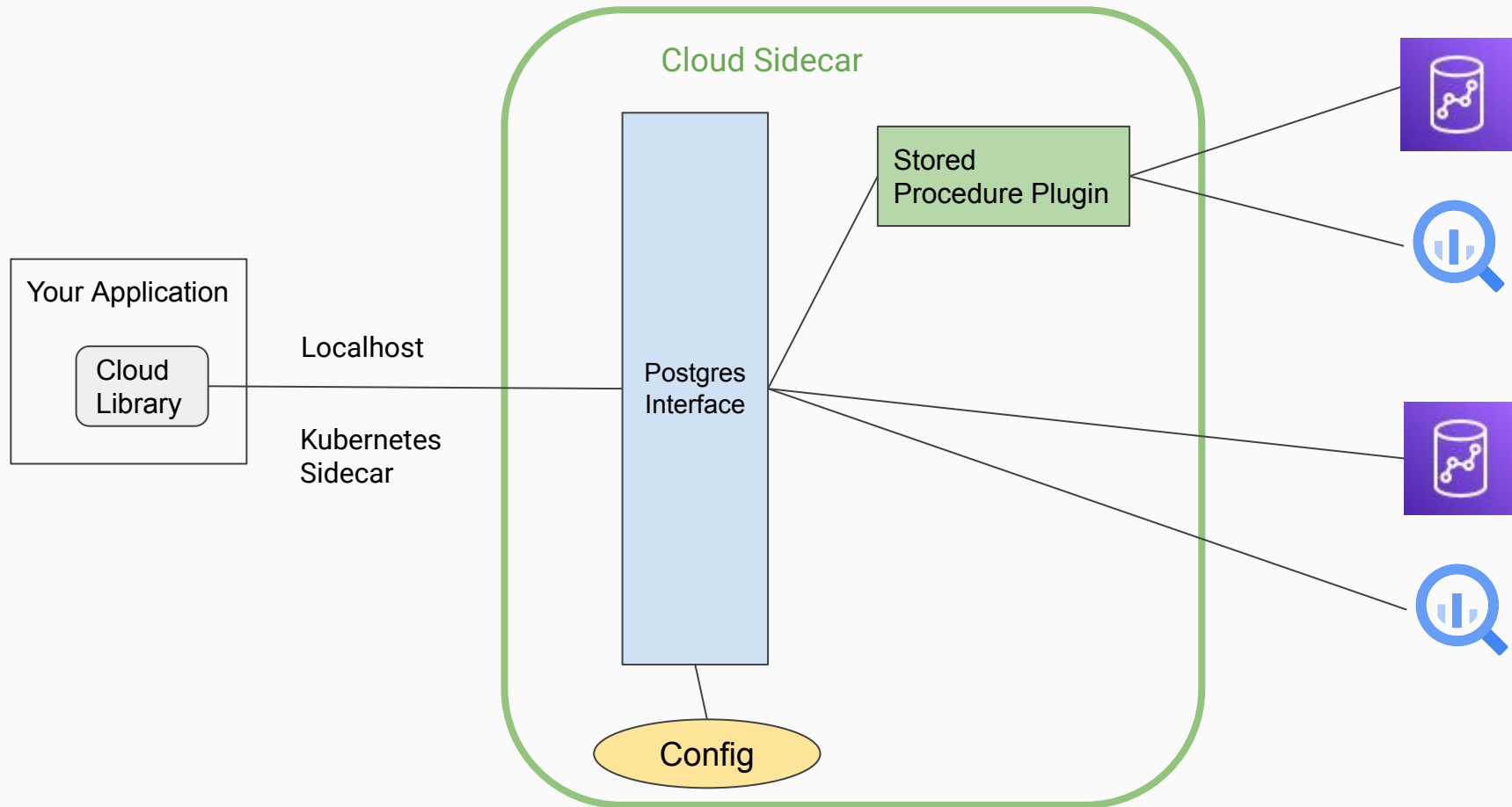
Message Queue - Kinesis to PubSub

- Get Records
- Get Shard Iterator
- Describe
- Publish
- Create Stream
- Delete Stream

NoSQL - DynamoDB to Datastore

- Get Item
- Query
- Scan
- Put Item
- Update Item
- Delete Item

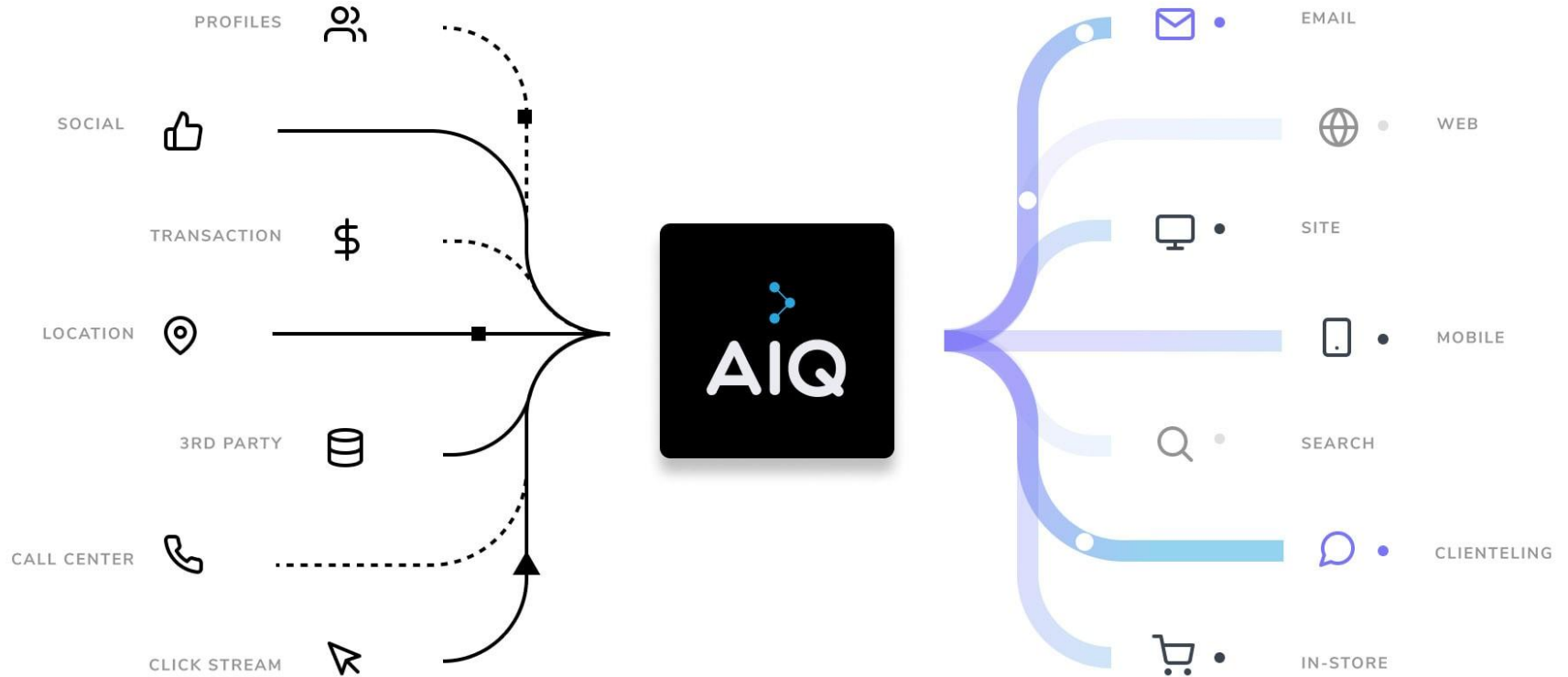
Big Data



Big Data - Redshift to BigQuery

- Insert
- Select
- Delete
- Unload
- Copy
- Rename Table
- Create Table
- Drop Table

Customer Story



Try It Out! Contribute!

www.cloudsidecar.com - website

github.com/cloudsidecar/cloudsidecar - Cloud sidecar

github.com/lawrencefinn/cloudsidecar-image-demo - Demo image uploader

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Questions?