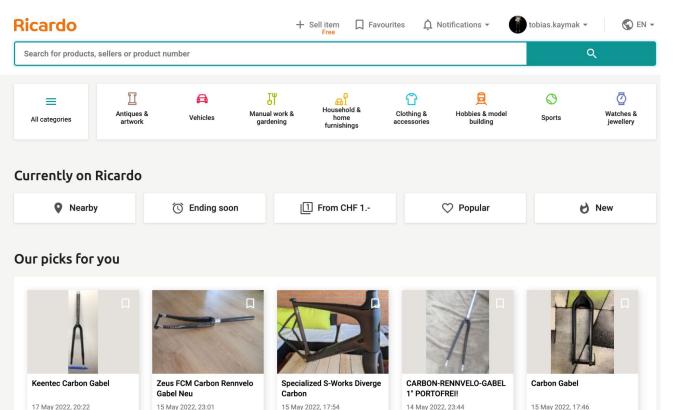
Playing the Long Game

Transforming Ricardo's Data Infrastructure with Apache Beam

By Tobias Kaymak







Ricardo

 $3 = \Delta M$

150.00

Starting bid

149.00

Buy now

3'990.00

Buy now

Starting bid

149.95

Starting bid

420.00



Why Apache Beam?

Austin, 2022





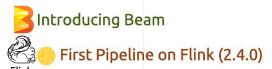




Will We Make It to the Promised Land?

Timeline





First Python Pipeline

Cassandra Enrichment Pipeline

Bigtable Enrichment Pipeline



Move to Dataflow

2018

2019

2020

2021

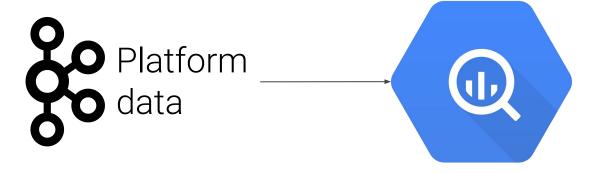
2022



Why move?











What is the most important ingredient of a successful migration?

People





So let's migrate!



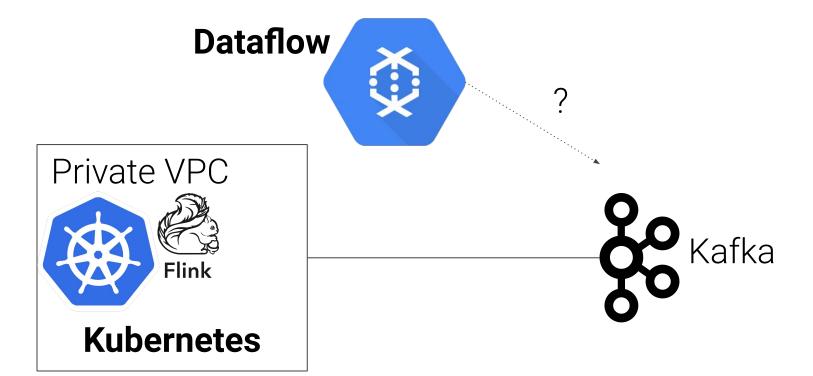


mvn package -Pflink-runner

mvn package -Pdataflow-runner

Pitfall #1

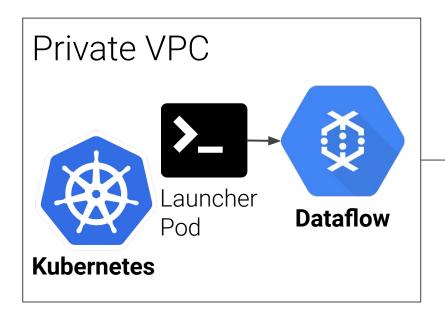






Solution #1







Pitfall #2









Solution #2



Pitfall #3



1:1 topic-pipeline



Kubernetes



many:1 topic-pipeline



Dataflow

Solution #3



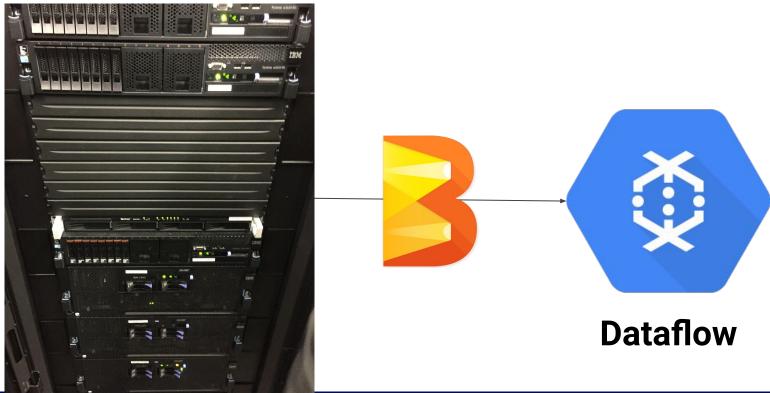


```
kafka-consumer-groups
--group beam-consumers
--reset-offsets
--to-datetime 2022-07-19T00:00:00.000

--all-topics
--timeout 10000
[--execute]
```

Recap







The future is bright









Thank you

Questions?

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