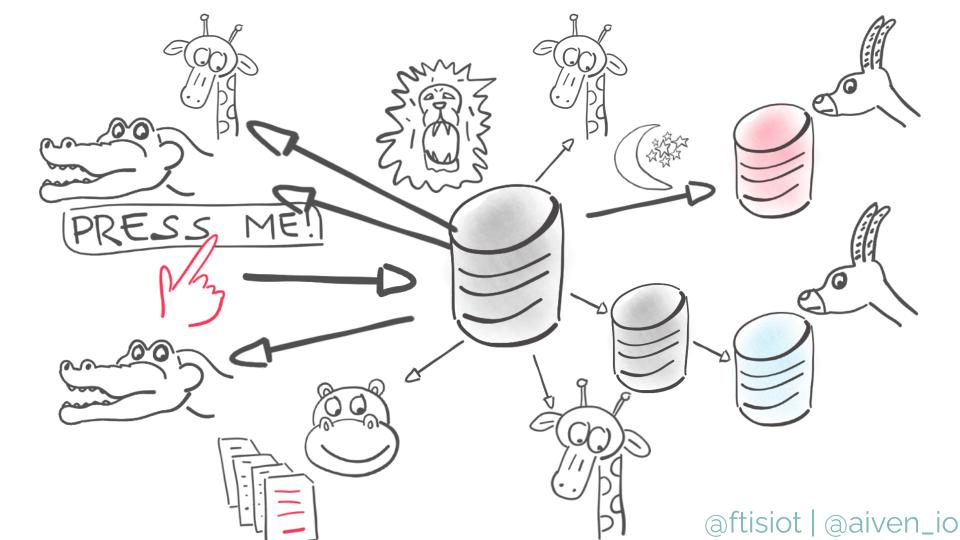


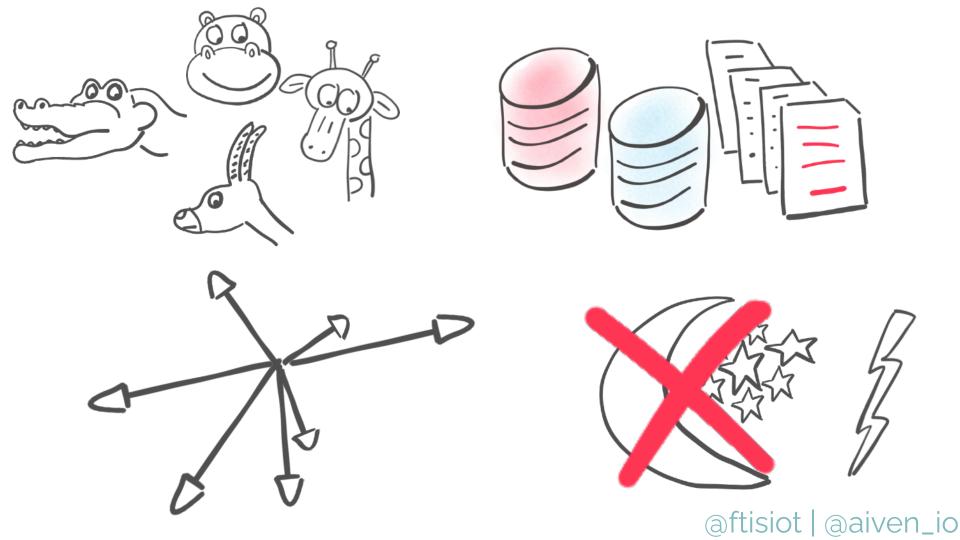
I Don't Want to Miss a Thing

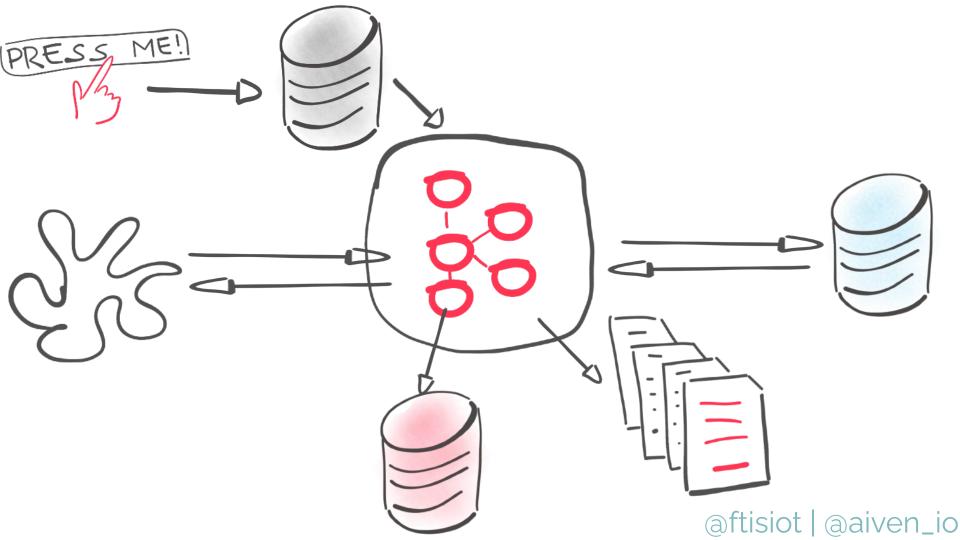
Track Database Changes with Apache Kafka

Francesco Tisiot - Developer Advocate

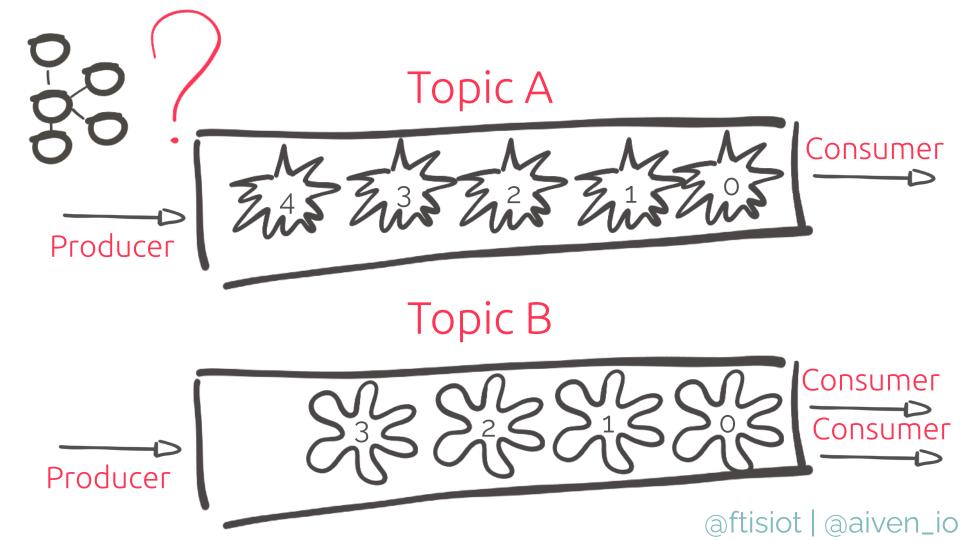
aftisiot













Table



VS

Log

The Fridge Dilemma



Table









Log





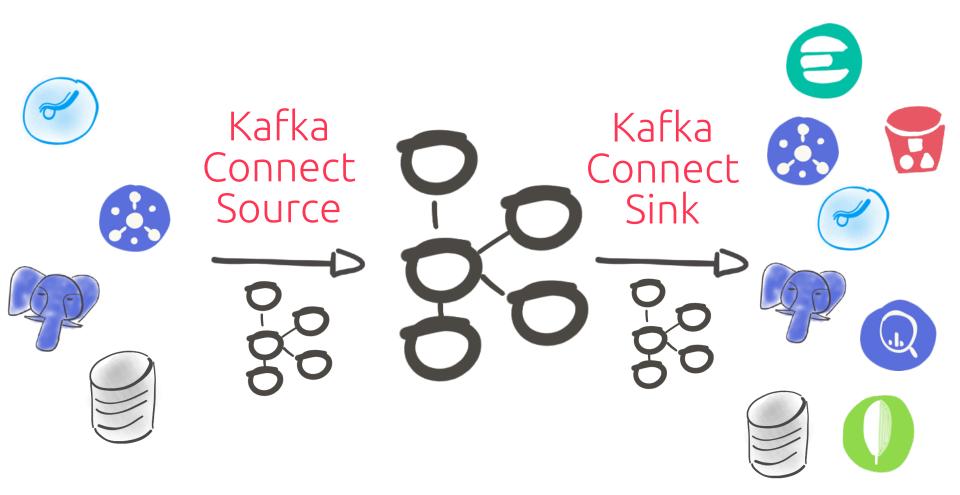






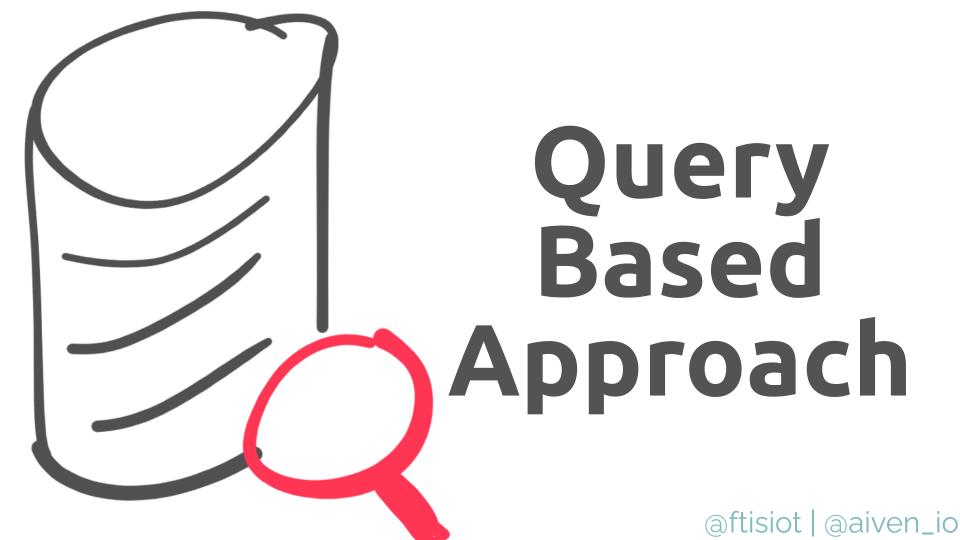
@ftisiot | @aiven_io



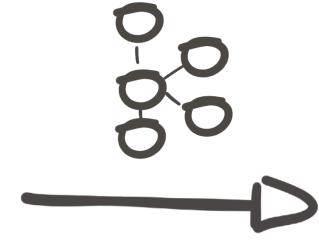




Changes Kafka?



Pasta Name
Fusilli
Pennette
Farfalle
Spaghetti
Lasagne



Fusilli, Pennette, Farfalle Fusilli, Pennette, Farfalle

Fusilli, Pennette, Farfalle

Fusilli, Pennette,

Farfalle, Spaghetti

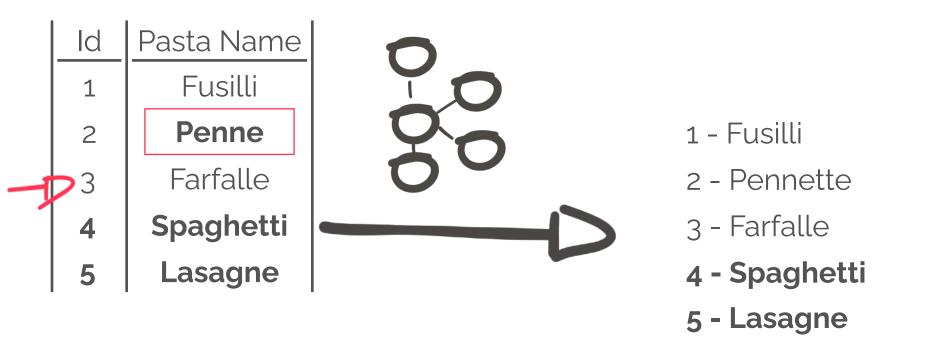
Fusilli, Pennette, Farfalle, Spaghetti

Fusilli, Pennette, Farfalle, Spaghetti Fusilli, Pennette,

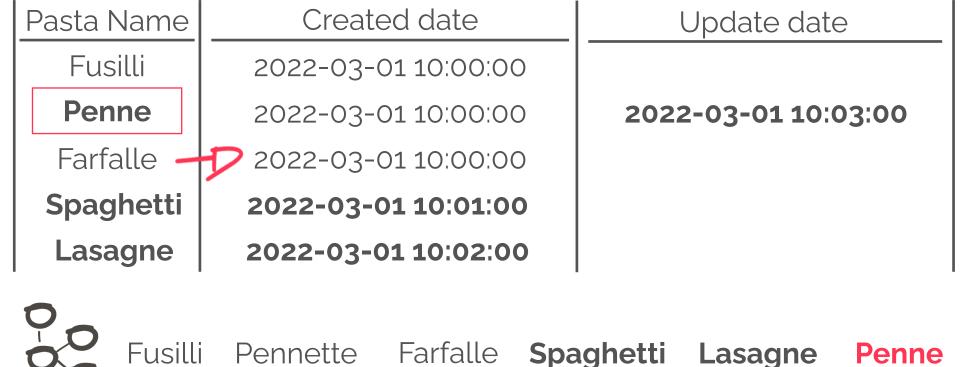
Farfalle, Spaghetti, **Lasagne**

@ftisiot | @aiven_io

Bulk Mode



Incremental Mode



Timestamp Mode

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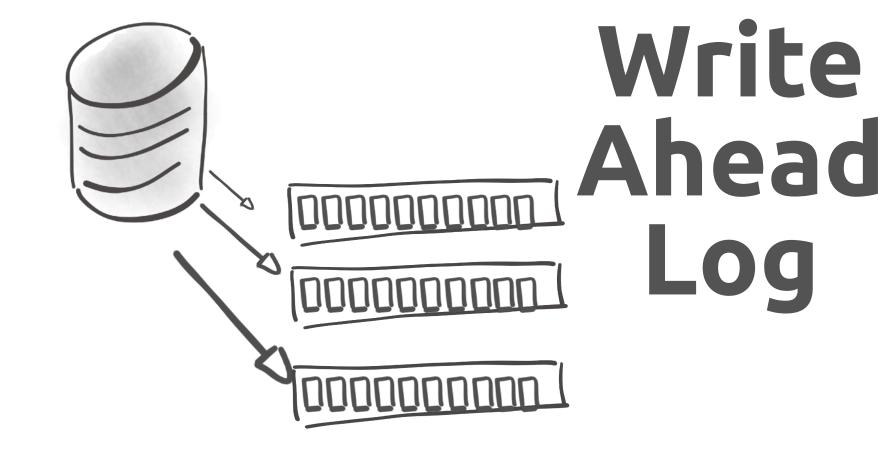
```
"name": "pg-bulk-source",
"connector.class": "io.aiven.connect.jdbc.JdbcSourceConnector",
"connection.url": "jdbc:postgresql://<HOST>:<PORT>/<DB>?<SSL>",
"connection.user": "avnadmin",
"connection.password": "verysecurepassword123",
"table.whitelist": "pasta",
"poll.interval.ms": "10000",
"topic.prefix": "pg_source_",
"mode": "bulk",
```

Max 1 per Table!

"tasks.max":"1"









Debezium

Replication Slot

Replica Identity

Publication

```
"name": "cdc-source-pg-json",
"connector.class":
"io.debezium.connector.postgresql.PostgresConnector",
 "database.hostname": "<HOST>",
 "database.port": "<PORT>",
"database.user": "avnadmin",
 "database.password": "verysecurepassword123",
 "database.dbname": "<DB>",
 "database.sslmode": "require",
 "plugin.name": "wal2json",
 "slot.name": "<SLOT_NAME>",
 "publication.name": "<PUBLICATION_NAME>",
 "table include list": "public pasta",
 "database.server.name": "<TOPIC_PREFIX>",
 "tasks.max": 1
                                              @ftisiot | @aiven_io
```



Debezium Gotcha

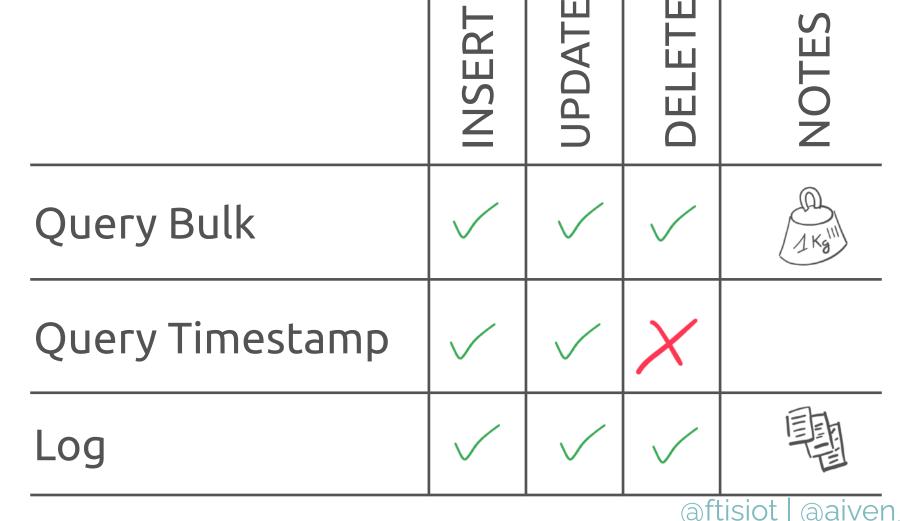
Plugin Types: decoderbufs, wal2json, pgoutput

Log Sequence Numbers (LSNs) Updates

Data Types support

https://debezium.io/documentation/reference/stable/connectors/postgresql.html

aftisiot | aaiven_io





https://kafka.apache.org/



https://developer.aiven.io/docs/products/kafka/kafka-connect/howto/debezium-source-connector-pg.html



https://aiven.io/blog/using-kafka-connect-jdbc-source-a-postgresql-example



https://aiven.io/blog/db-technology-migration-with-apache-kafka-and-kafka-connect



https://aiven.io