



Quix Streams

Real-time processing with Quix streams

Hi





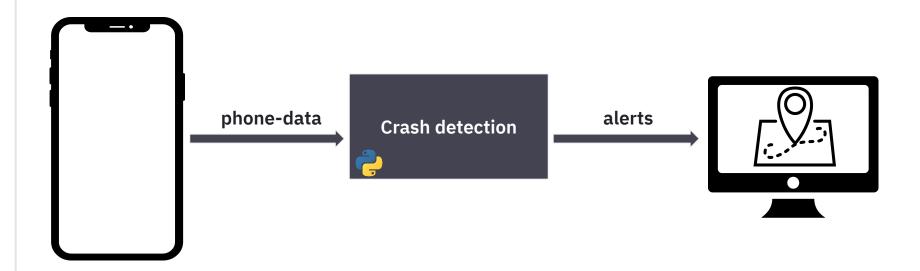
Javier Blanco

Senior Data Scientist

- **Quix** Data Streaming
- Orange
 - Federated Learning
 - MMM
 - Churn
- Areas of interest:
 - Real time
 - Causality
 - Keeping it simple

The Challenge

Today's session goal



Poll

Are you familiar with streaming technologies (Kafka topics, pub/sub, etc.)?

Streaming

VS Batch

Batch







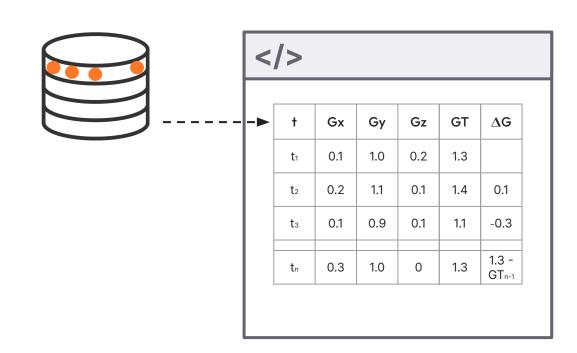


Data Processing

Data is collected over time into a database.

At some point data is loaded from the database into the processing system.

- Operations are easy to compute: all historic data is present
- Results are not in real time



Streaming



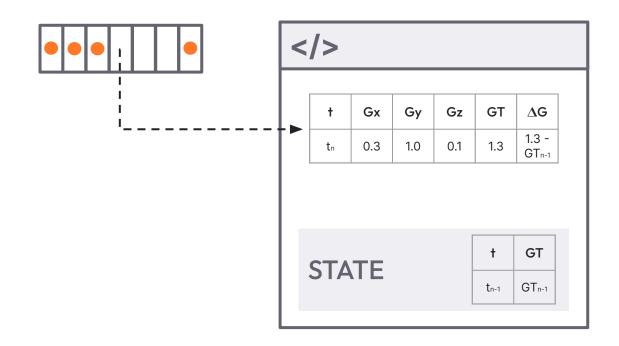


Data Processing

Data is collected over time into a streaming broker (like a Kafka topic).

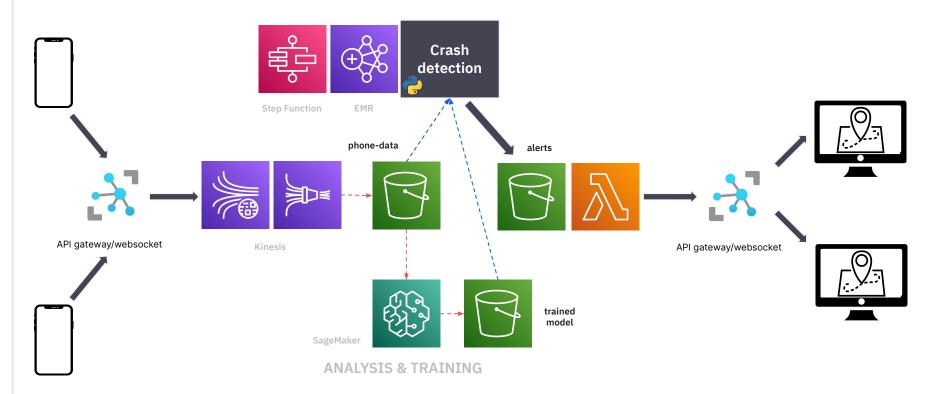
The processing system consumes the data as soon as it is published into the topic.

- Operations are not always easy to compute: state is used to keep necessary historic data
- Real time results



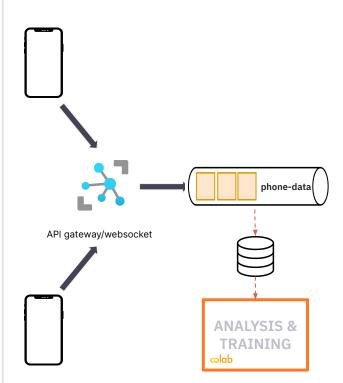
Batch

Batch architecture



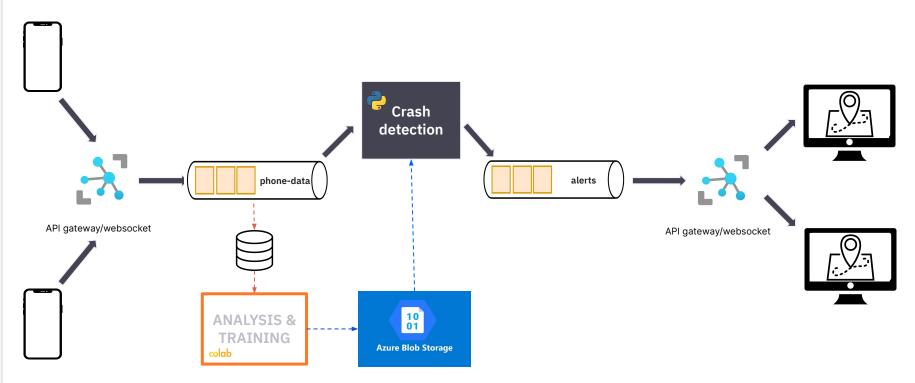
Streaming

Streaming architecture



Streaming

Streaming architecture



Quix

Simple streaming

Founded by F1 Engineers



Built by experts

A combined 30+ years of experience solving real-time data processing in the most extreme, time-critical environment

Enterprise-grade, production ready

700+ accounts

>750GiB streamed monthly

>11B messages monthly

Backed by top-tier investors

Backed by £15m million in funding, with expert advisors and investors from top tech companies

Project A













Validated by major brands

From household names to startups, developers trust Quix to handle mission-critical workloads







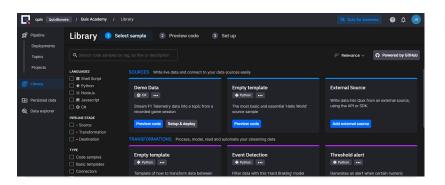
Deloitte.



Quix

Simple streaming





Quix Streams

Open source stream processing library, focused on time-series data and ease of use. It uses a message broker (as Kafka), instead of a database, so you can process time series with performance, low resources and no delay.

SaaS Platform

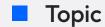
Platform to quickly build, test and run real-time data pipelines that power next-gen apps. It gives data teams the freedom to work on streaming data directly in Kafka using Python and Kubernetes without the complications you'd expect.

Quix Streams

Pub/Sub/Processing

Kafka Topic

Streaming Broker



Infrastructure where data is streamed:

Topic

Pub

Publishing data to the topic

Publish

A data producer publishes data to the topic.

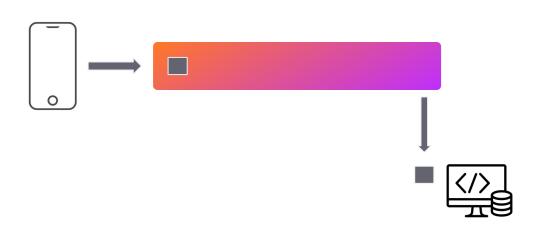


Sub

Subscribing to the topic data

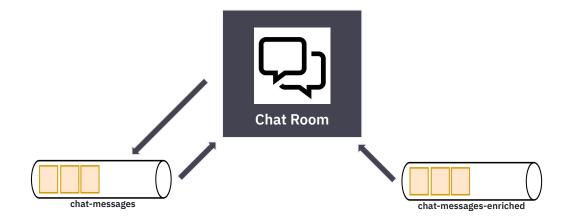
Subscribe

A data consumer subscribes to data in the topic.



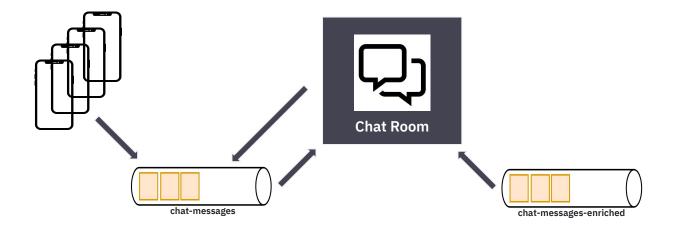
Processing Data

Sub/Process/Pub



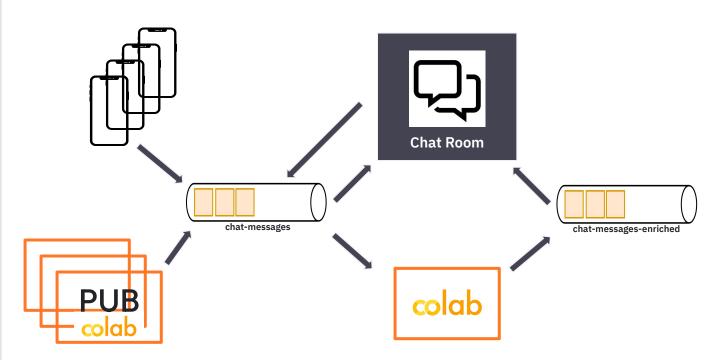
Processing Data

Sub/Process/Pub



Processing Data

Sub/Process/Pub

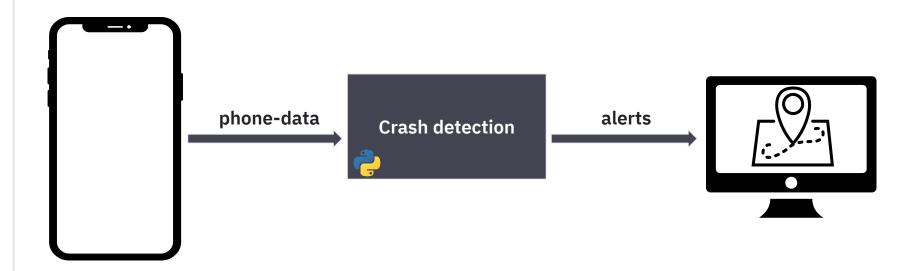


Quix Streams

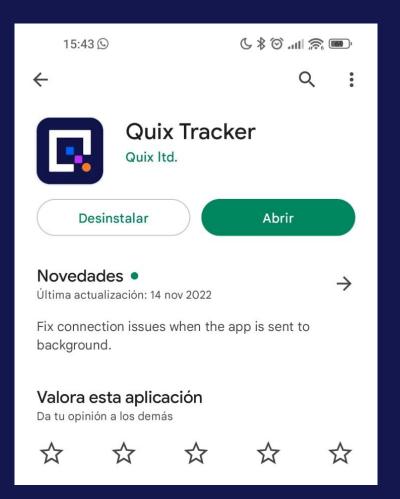
Escaling

The Challenge

Today's session goal



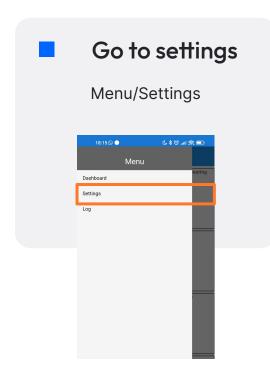
Android users: Download Quix Tracker from Google Play

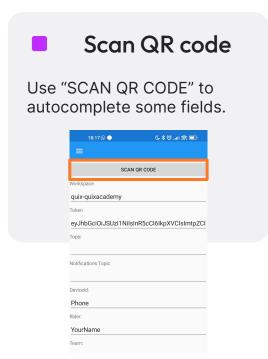


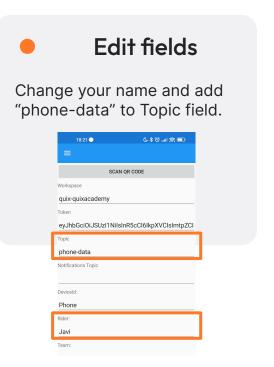
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Quix Tracker

Android App







Star Quix Streams

Open Source project



We need you

To make this open source initiative the library you want.

Star our repo

Thank you

If you have any questions etc...

Any additional sign off text to go here.



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