



PASS
Data Community
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Real-Time Streaming in Azure with Apache Pulsar

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I have worked in streaming, real-time data, IoT, data pipelines for over a decade including at Cloudera, Hortonworks, Pivotal, AirisData, Noveda and HPE.

Currently I am Developer Advocate @ StreamNative.

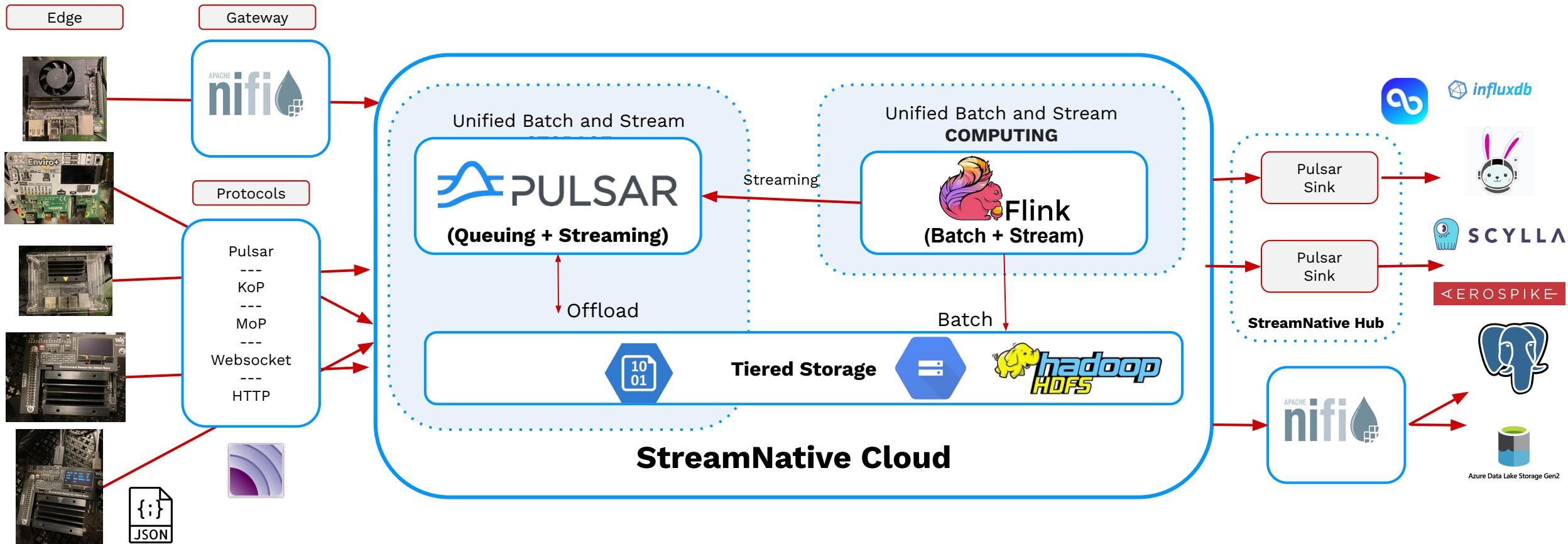
FLiP(N) Stack

- Apache Flink
- Apache Pulsar
- StreamNative's Flink Connector for Pulsar
- Apache NiFi
- Apache +++



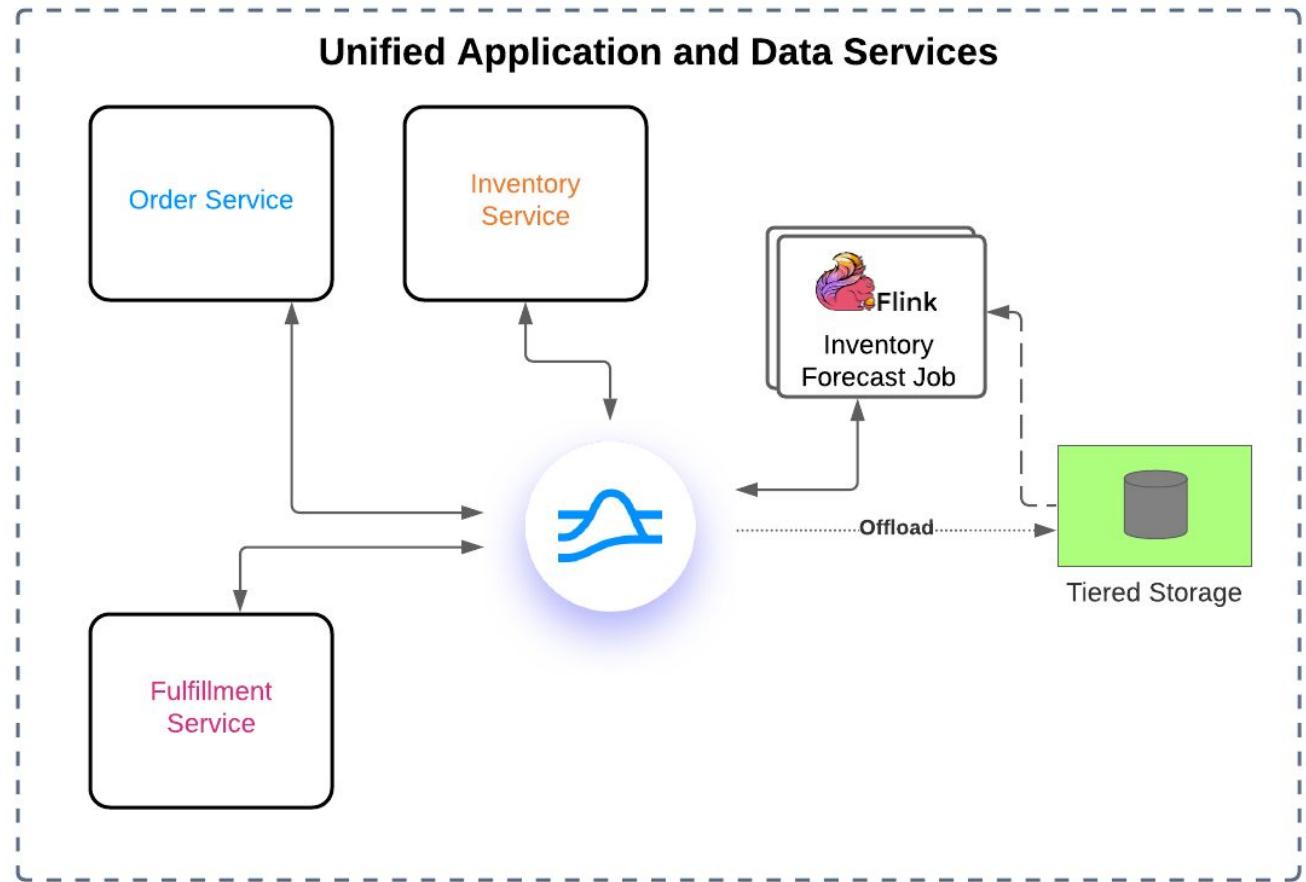
End-to-End Streaming FLiP(N) Apps

Apache Flink - Apache Pulsar - Apache NiFi <-> Events - Python/Go/Java/NodeJS/Scala



Example: E-Commerce with Pulsar

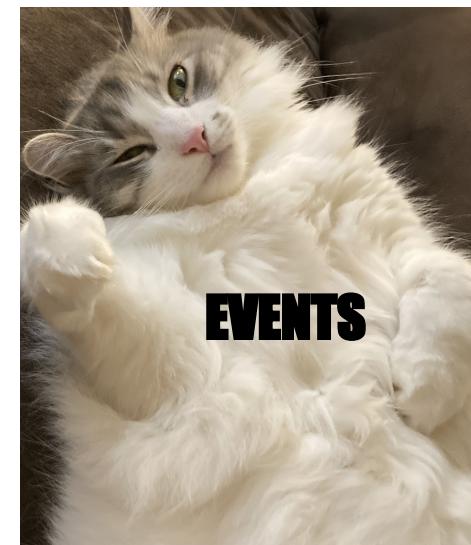
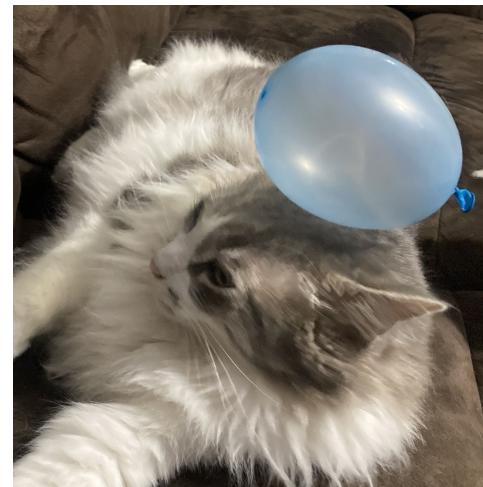
- Unified storage with access to underlying data
- Native tiered storage
- Single system to exchange data
- Teams share toolset



What is Apache Pulsar?

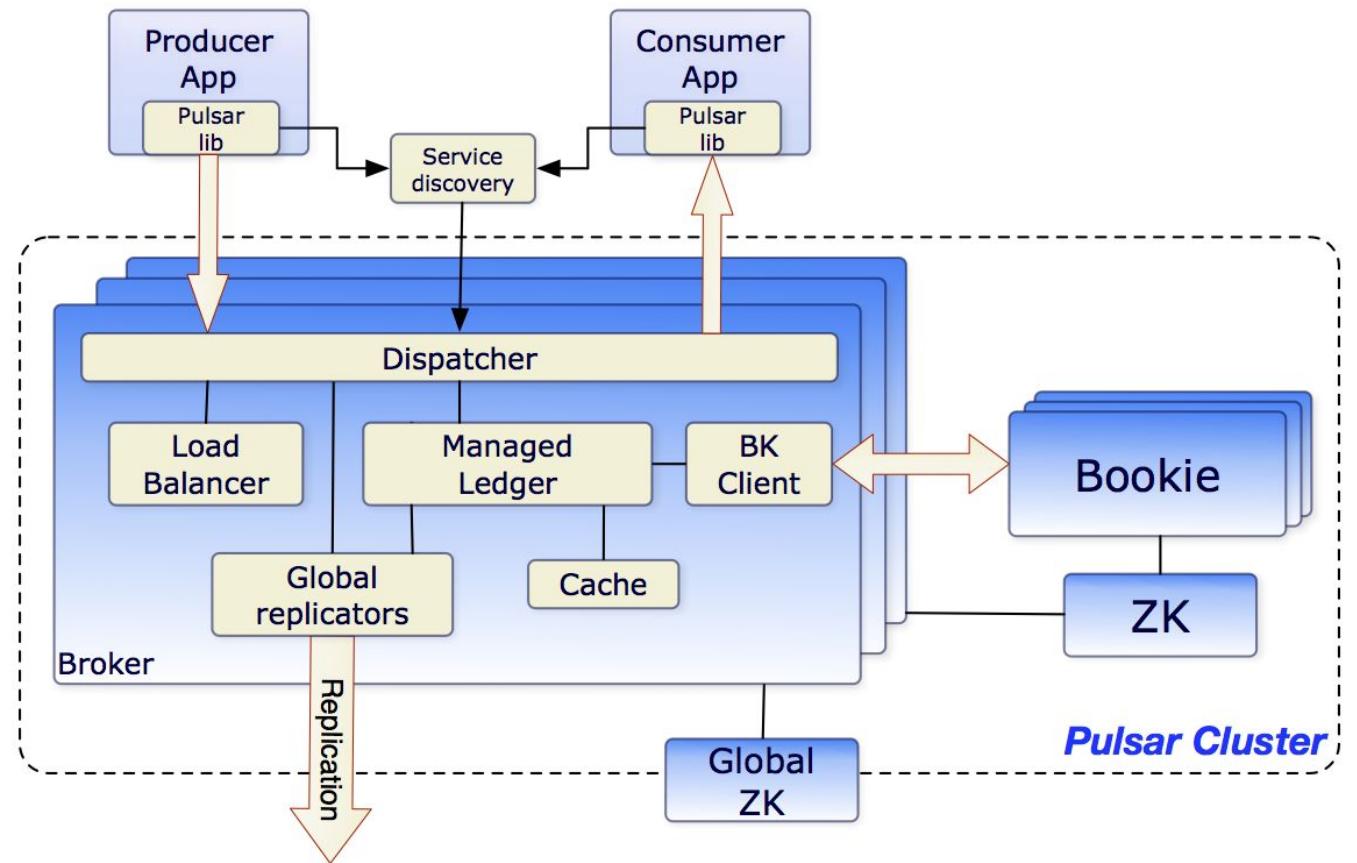


Apache Pulsar is an open source, cloud-native distributed messaging and streaming platform.



Apache Pulsar Overview

- Pub-Sub
- Geo-Replication
- Pulsar Functions
- Horizontal Scalability
- Multi-tenancy
- Tiered Persistent Storage
- Pulsar Connectors
- REST API
- CLI
- Many clients available
- Four Different Subscription Types
- Multi-Protocol Support
 - MQTT
 - AMQP
 - JMS
 - Kafka
 - ...



What are the Benefits of Pulsar?



Multi-Tenancy

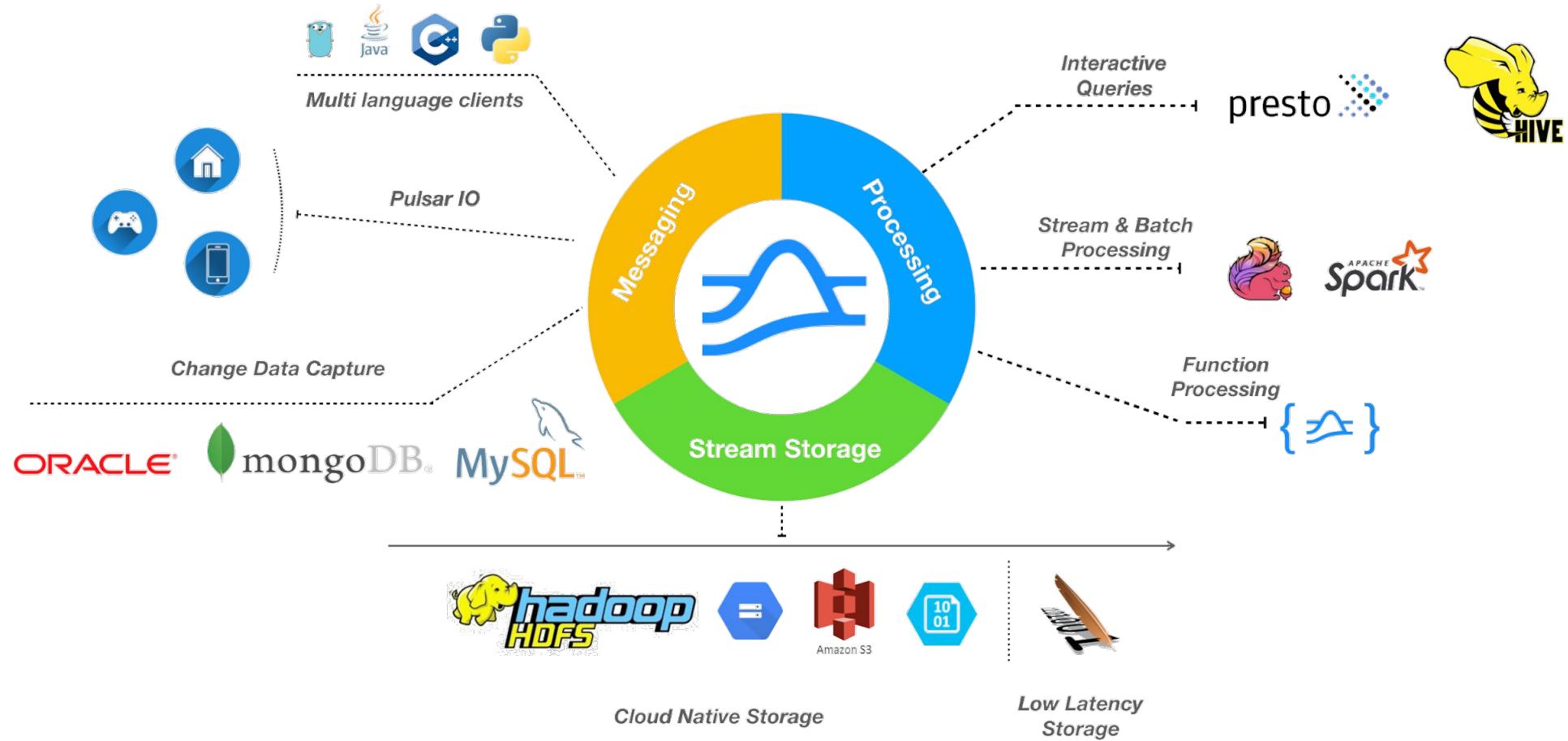
Scalability

Geo-Replication

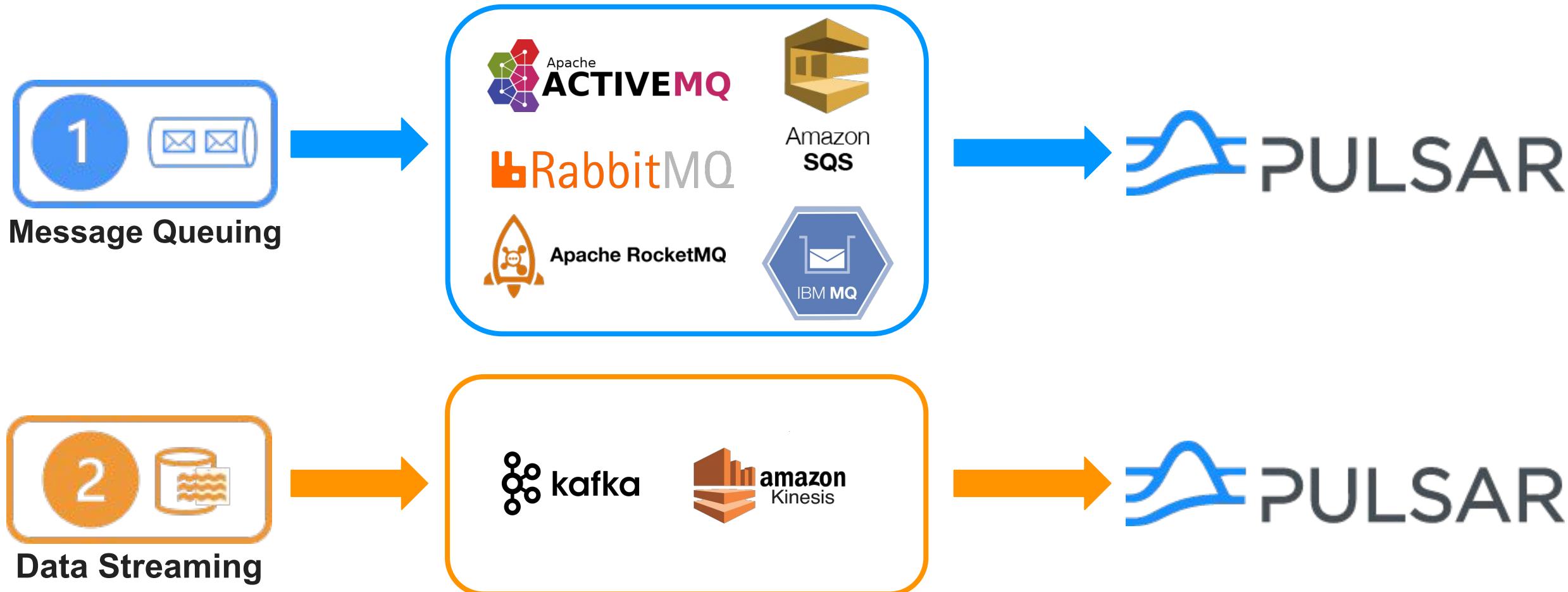
Unified Messaging
Model

Data Durability

Apache Pulsar



A Unified Messaging Platform



StreamNative Cloud

Powered by Apache Pulsar, StreamNative provides a cloud-native, real-time messaging and streaming platform to support multi-cloud and hybrid cloud strategies.



Cloud Native



kubernetes

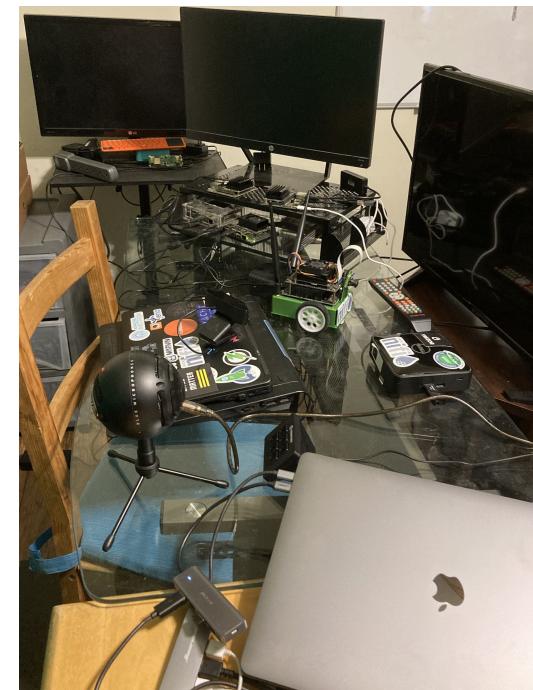
Built for Containers



Flink

Flink SQL

Deeper Content



- <https://www.datainmotion.dev/2020/10/running-flink-sql-against-kafka-using.html>
- <https://www.datainmotion.dev/2020/10/top-25-use-cases-of-cloudera-flow.html>
- <https://github.com/tspannhw/EverythingApacheNiFi>
- <https://github.com/tspannhw/CloudDemo2021>
- <https://github.com/tspannhw/StreamingSQLEXamples>
- <https://www.linkedin.com/pulse/2021-schedule-tim-spann/>
- <https://github.com/tspannhw/StreamingSQLEXamples/blob/8d02e62260e82b027b43abb911b5c366a3081927/README.md>

Deeper Content

- <https://github.com/tspannhw/FLiP-SQL>
- <https://github.com/tspannhw/StreamingSQLExamples>
- <https://github.com/streamnative/pulsar-flink>
- <https://www.linkedin.com/pulse/2021-schedule-tim-spann/>
- https://github.com/tspannhw/SpeakerProfile/blob/main/2021/talks/20210729_HailHydrate!FromStreamtoLake_TimSpann.pdf
- <https://streamnative.io/en/blog/release/2021-04-20-flink-sql-on-streamnative-cloud>
- <https://docs.streamnative.io/cloud/stable/compute/flink-sql>
- <https://www.pulsardeveloper.com/>

Stay Connected With Me!



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