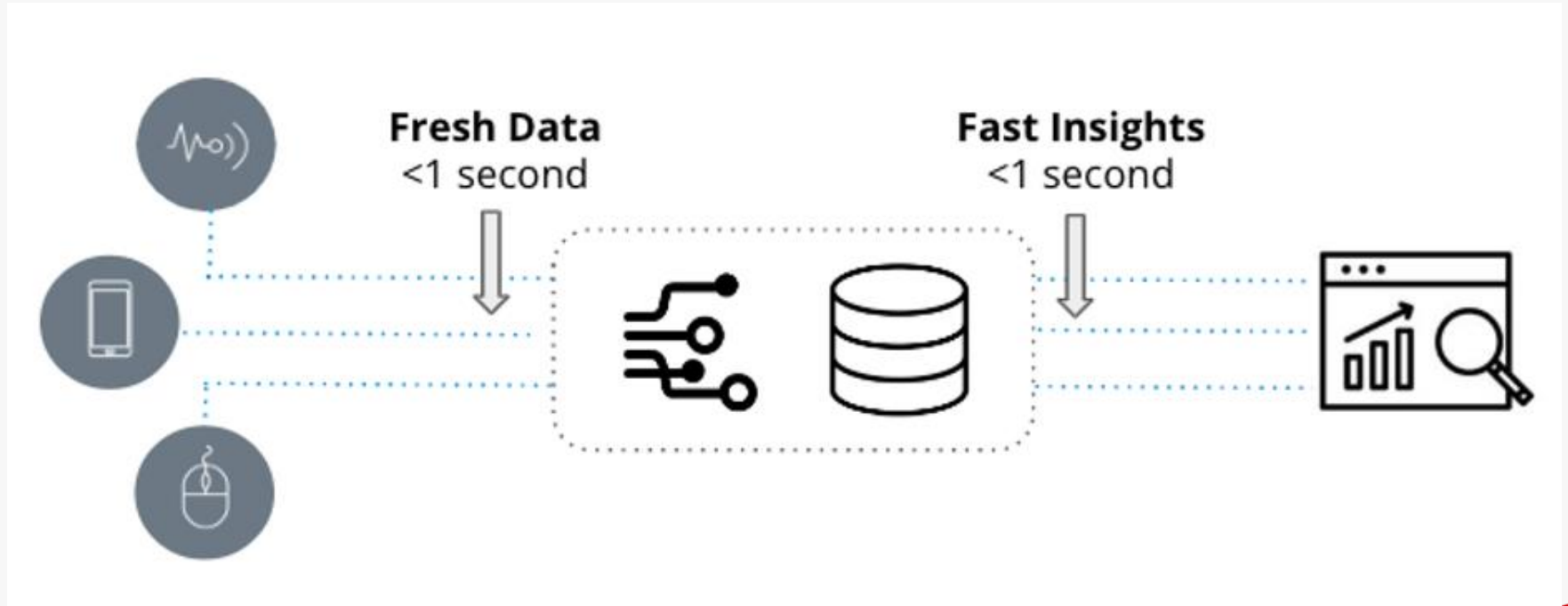


Ingeniería de datos

# Procesamiento en tiempo real

Comenzamos en unos minutos

# Concepto



# Batch vs Real time

## PUSH

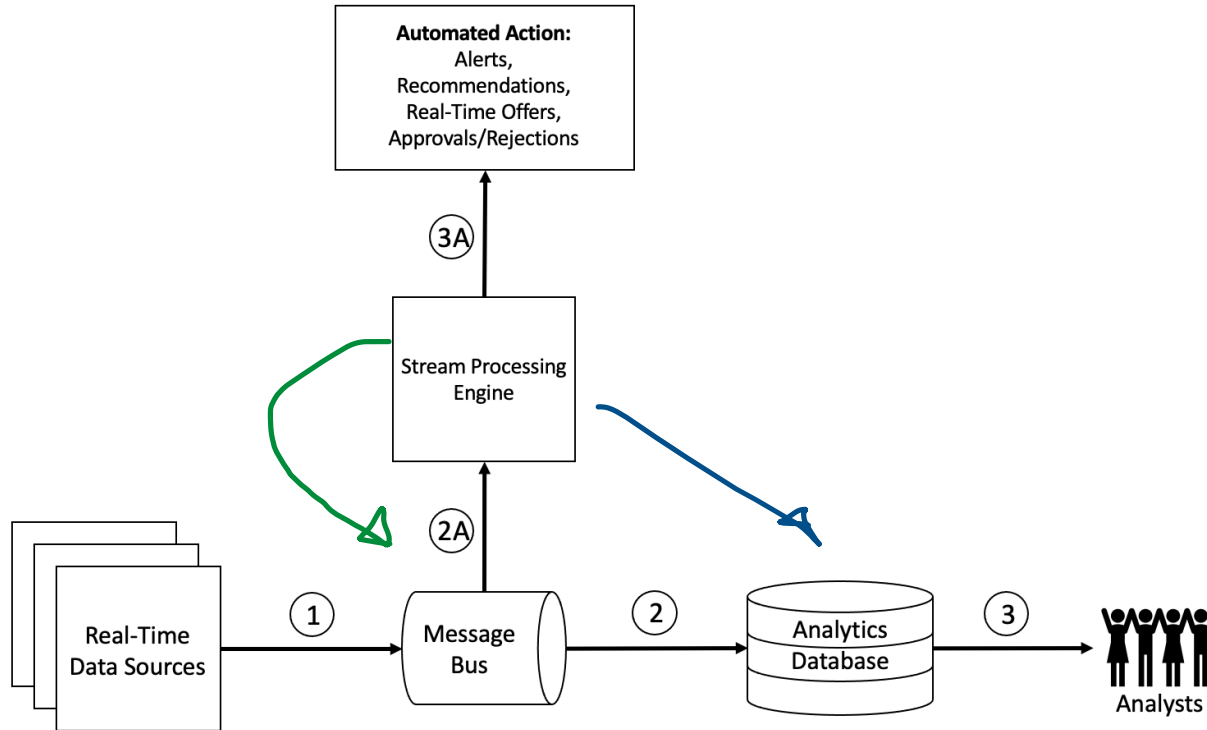


## PULL

What is Jay's credit score now?



# Componentes



# Procesamiento

## Tareas

Filter

Route

Transform

Parse / Extract

Cleanse / Normalize

Mask / Anonymize

Aggregate

Trigger

Process a Change stream as  
an Append stream

Process an Append stream as  
a Change stream

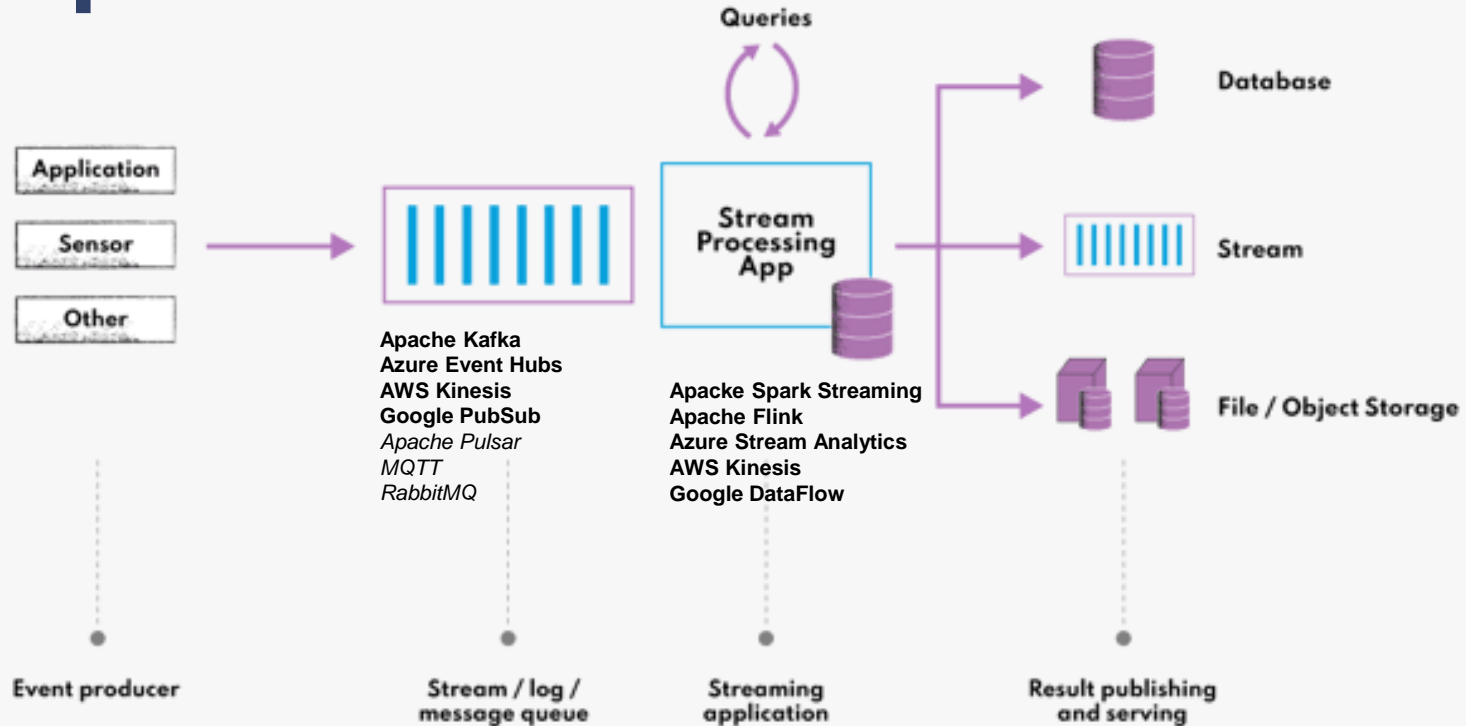
## Agregaciones

Agrupar por ventanas de tiempo

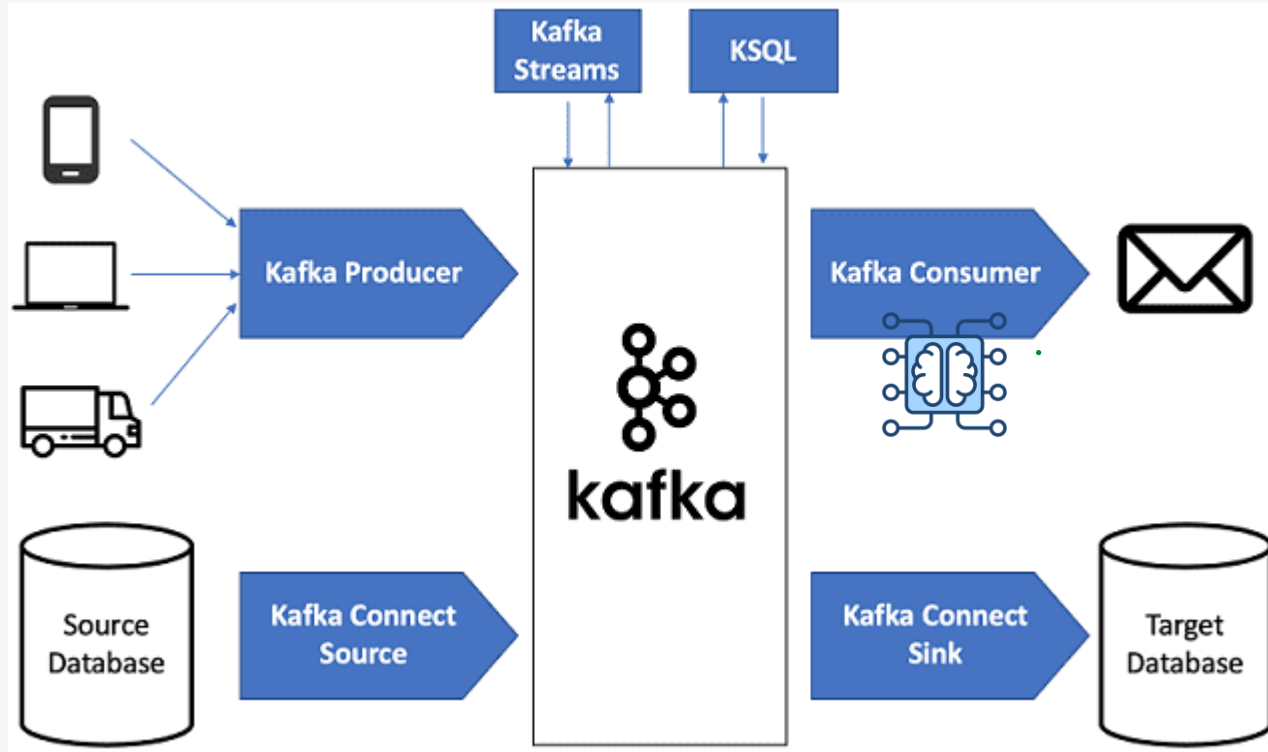
- [Hopping](#)
- [Tumbling](#)

*Datos "tardíos"*

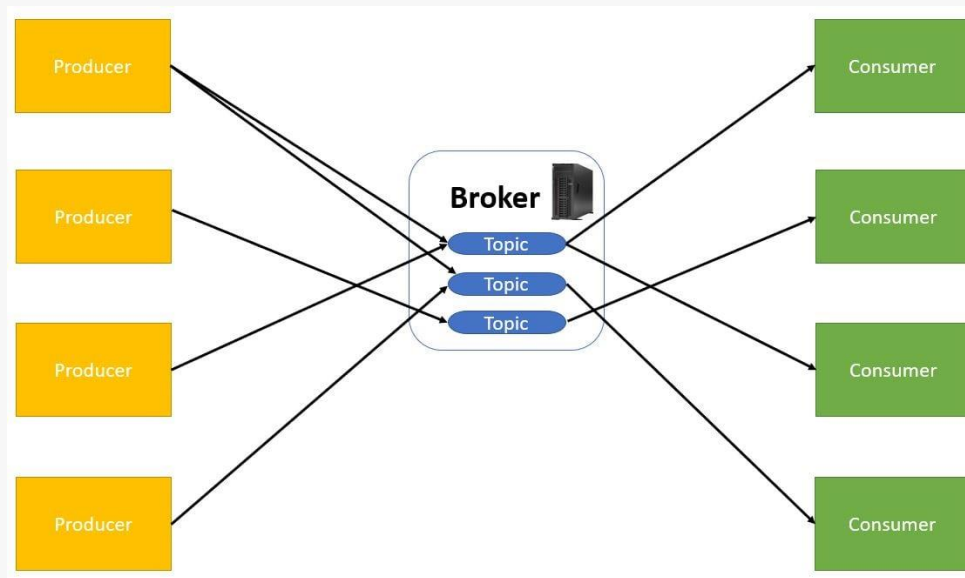
# Componentes



# Apache Kafka – Terminología



# Apache Kafka – Terminología





# Apache Kafka – Terminología



# Apache Kafka – Terminología

