

Kafka Streams

nightmare
or

sweet dream?





#### Kafka Streams nightmare or sweet dream?





#### SO IT DEPENDS





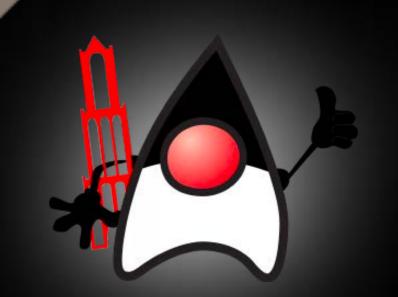




ko-turk



koturk77





#### About Ko Turk

Developing software (Java / Kotlin)

Speaking about Green Software Engineering, Kafka and Pulsar.

Writing blog(s)



## You will learn

#### How to:

- Produce / consume messages
- Process big data
- Custom processing (with timing)
- Create proper monitoring

- --> spring-kafka
- --> actuator



https://github.com/KoTurk/Kafka/tree/solution/adessoConf/PaymentEngine

#### MARNING

This meeting will contain live coding, so everything could (potentially) go wrong.



## The story....









## but it's slow....



# Let' Apache Kafka! With Apache async

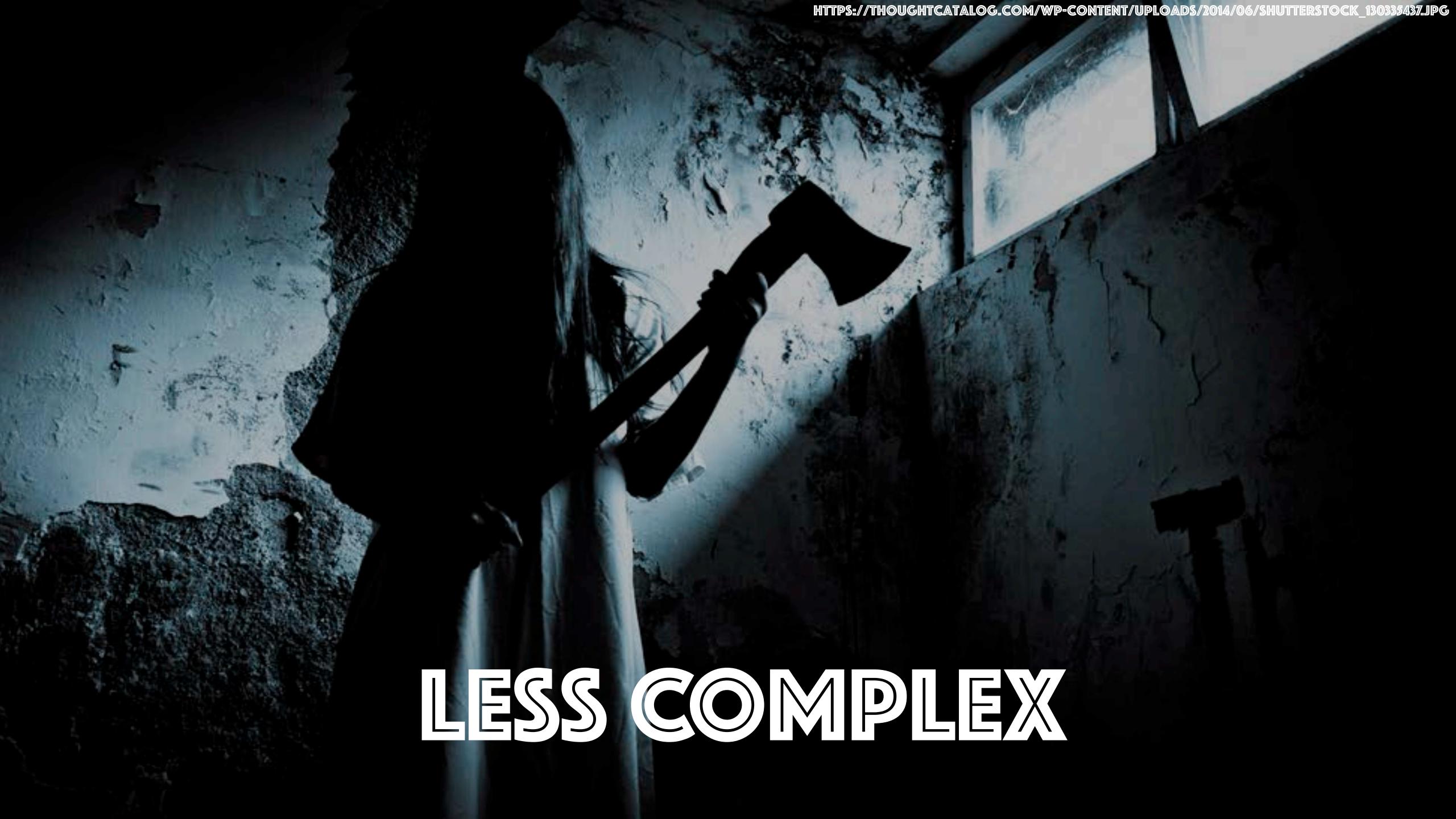




## but first, why?? event streaming









#### FAULT TOLERANT



#### REPLAYABILITY

## For that we have

8 kafka



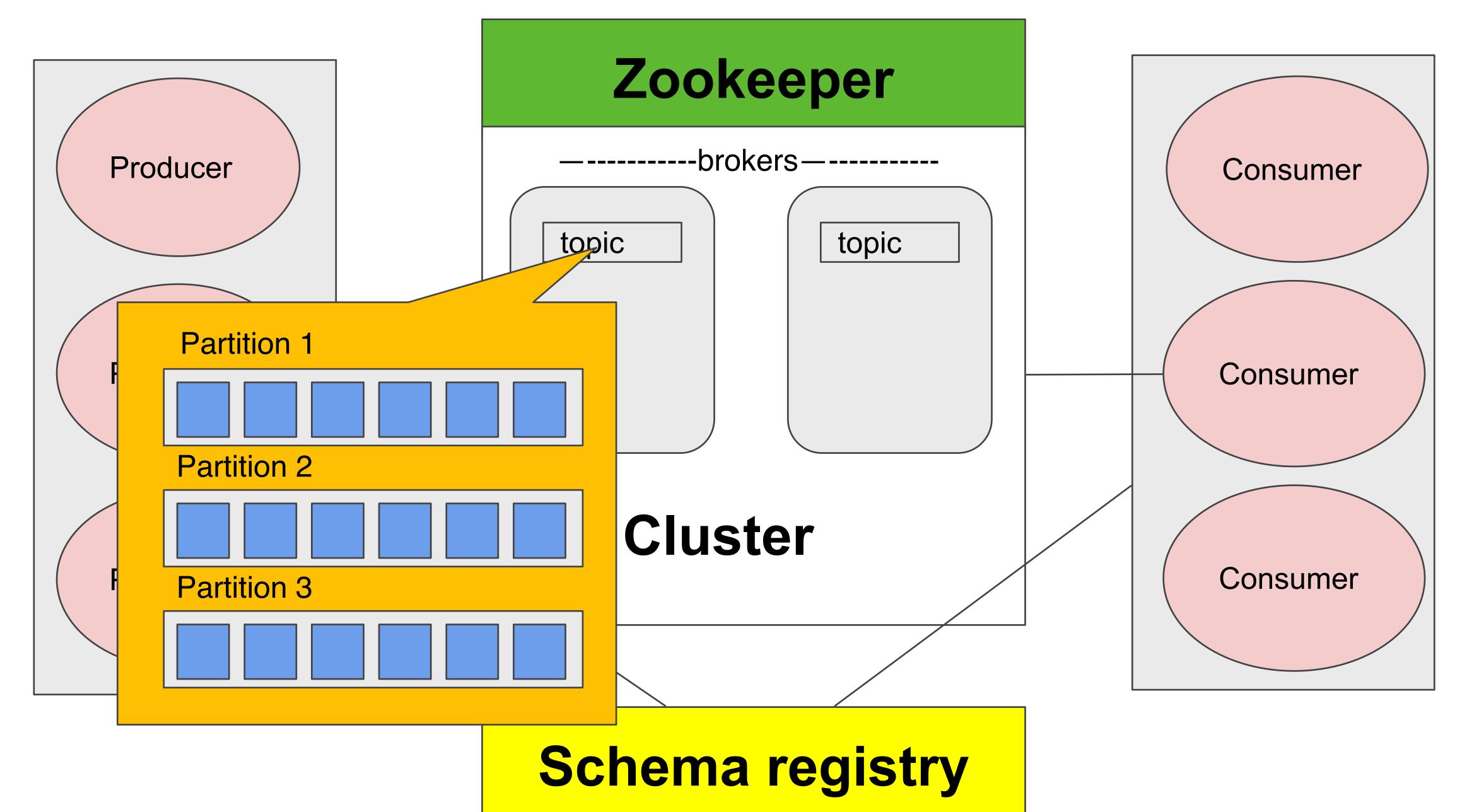




#### Create, Process, and Query Event Streams and Tables ksqIDB Streaming Database **Compute Layer** TABLE Kafka Streams API Kafka Kafka Consumer API Producer API Import Data as Event Streams with Connectors Export Data as Event Streams with Connectors Kafka Connect & Kafka Connect & CLOUD SERVICE, DB, CLOUD SERVICE, DB, OR OTHER SYSTEM OR OTHER SYSTEM Producer API Consumer API Kafka Cluster Broker Broker Broker Broker Read and Process Create **Event Streams Event Streams** with with Kafka Producer APIs Kafka Consumer APIs APP APP Broker . Broker Broker Elastic & Scalable Streaming Storage **Storage Layer**

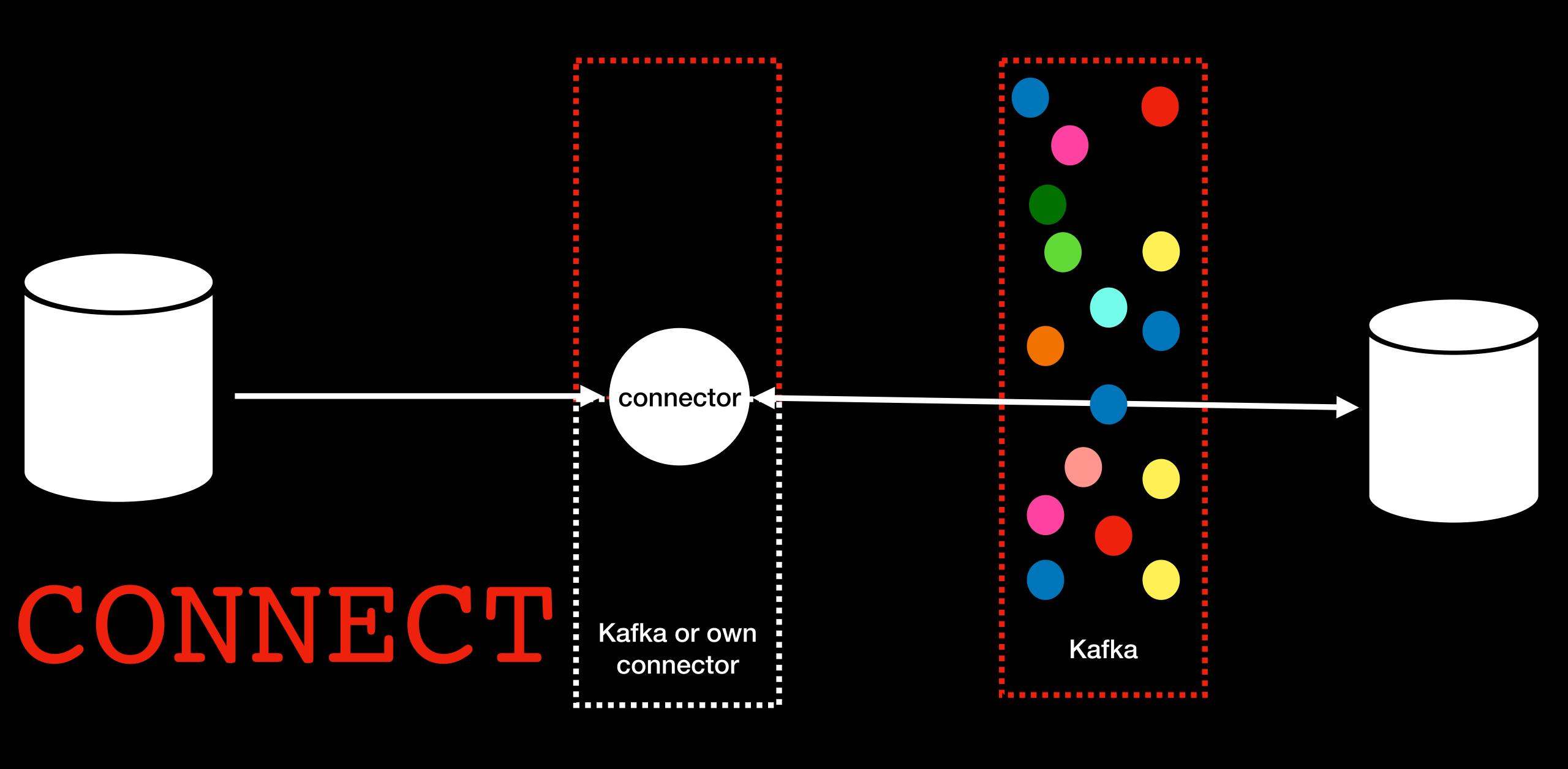
From Confluents site





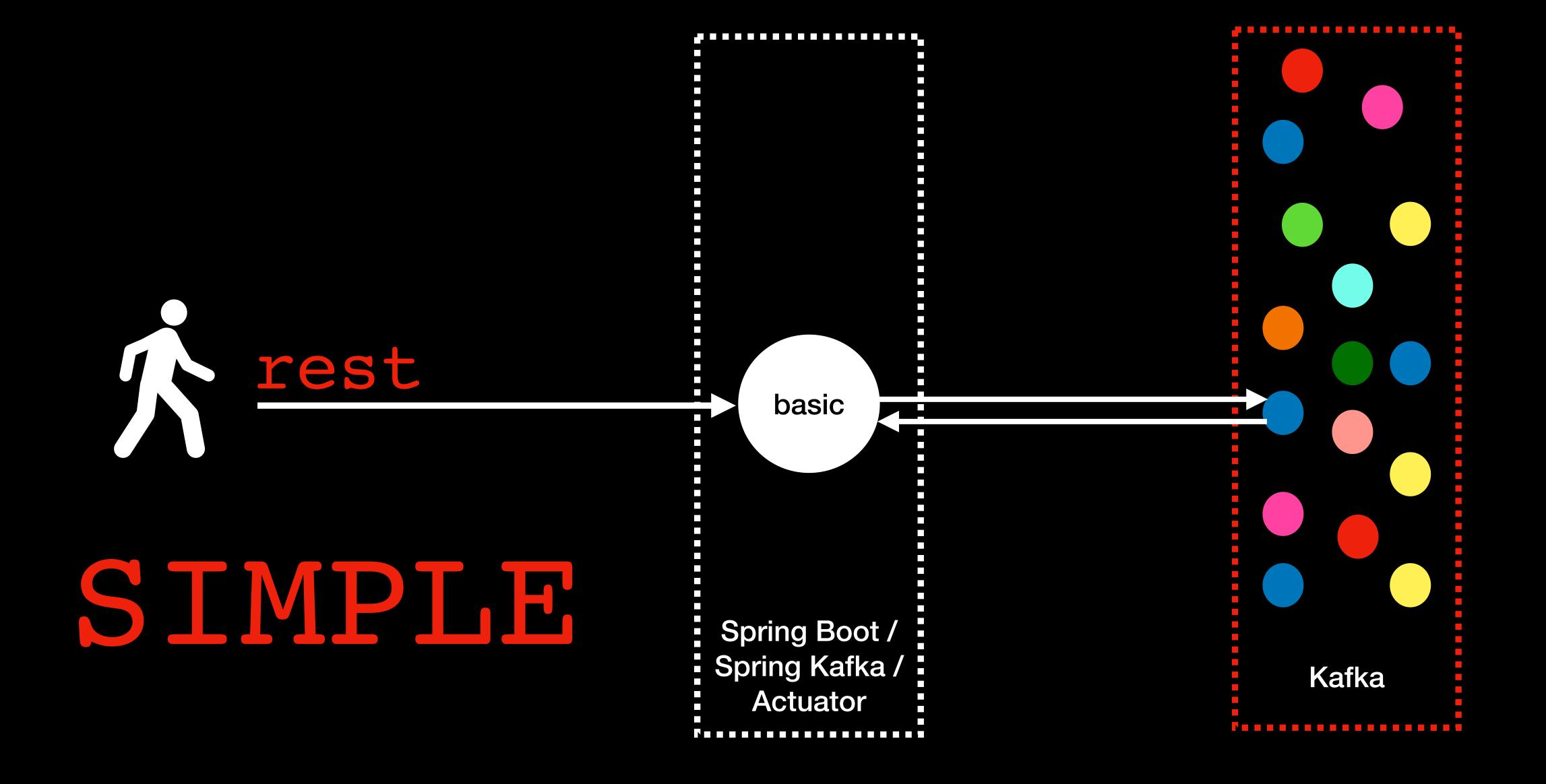
## KAFKA is most useful with BIG DATA





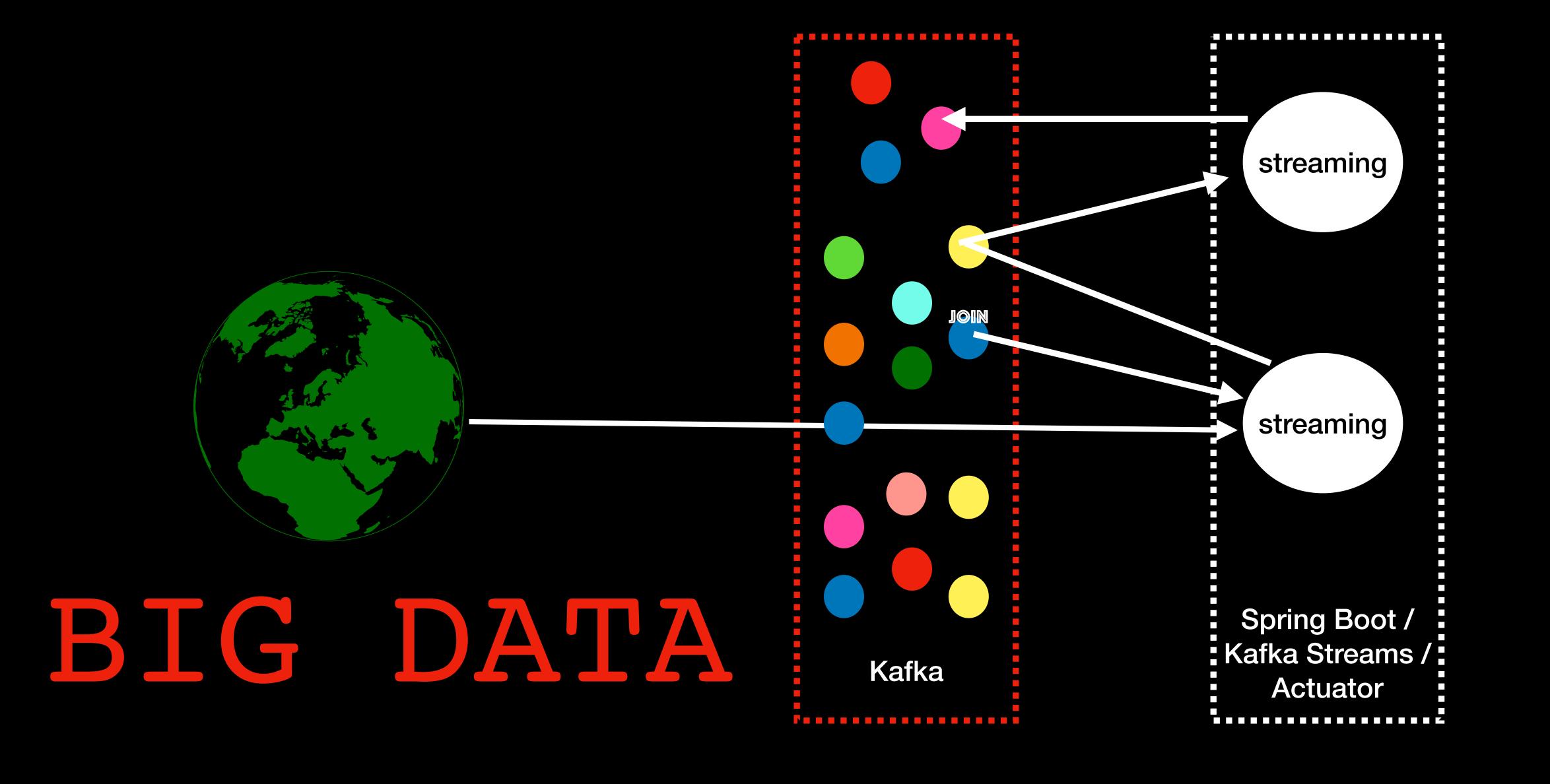
## NIGHMARE

## But when configured, 1t runs smoothly



### SWEET DREAM

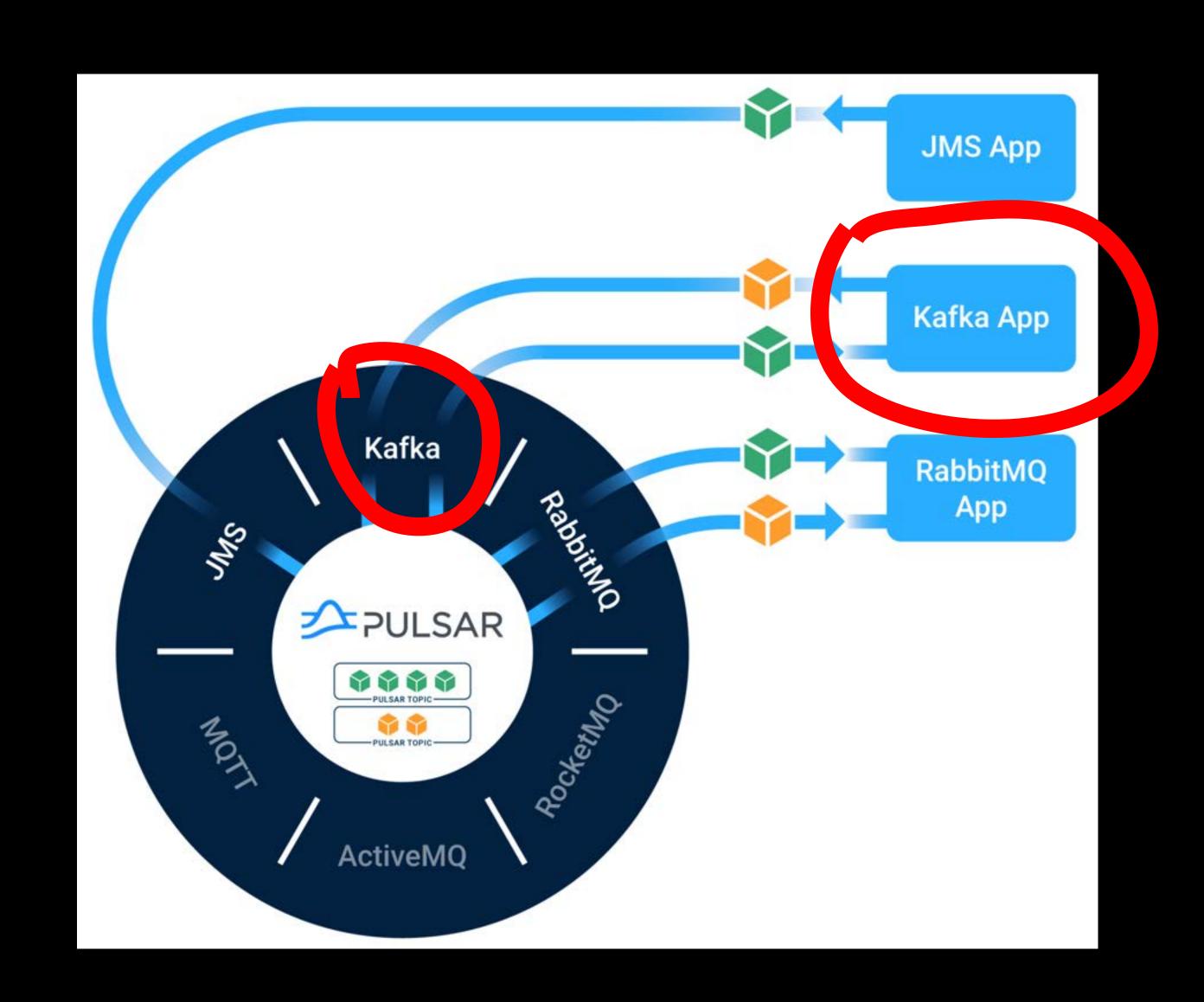
### 



## SWEET DREAMS? LET'S DISCOVER TOGETHER



#### Better possibilities?



### You learned

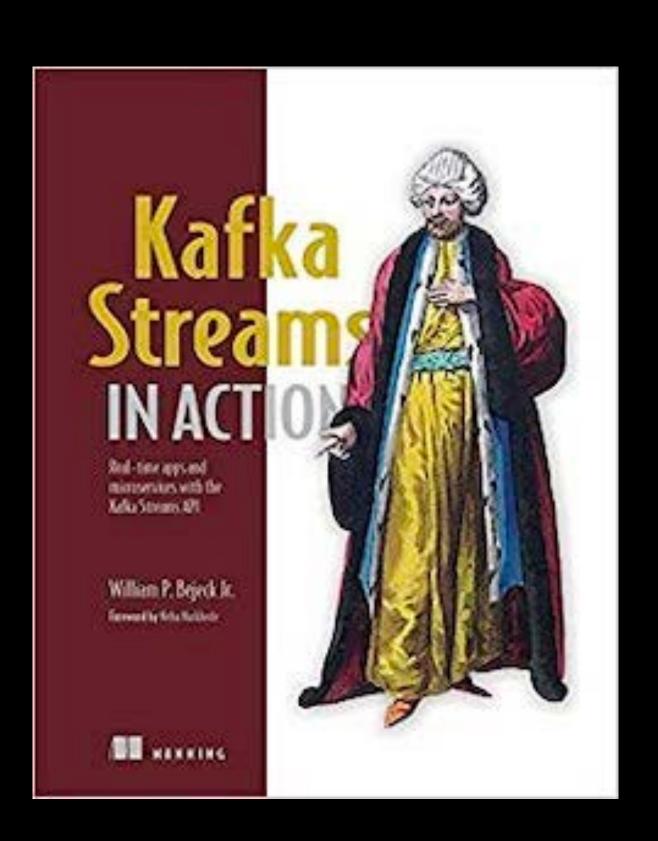
#### How to use:

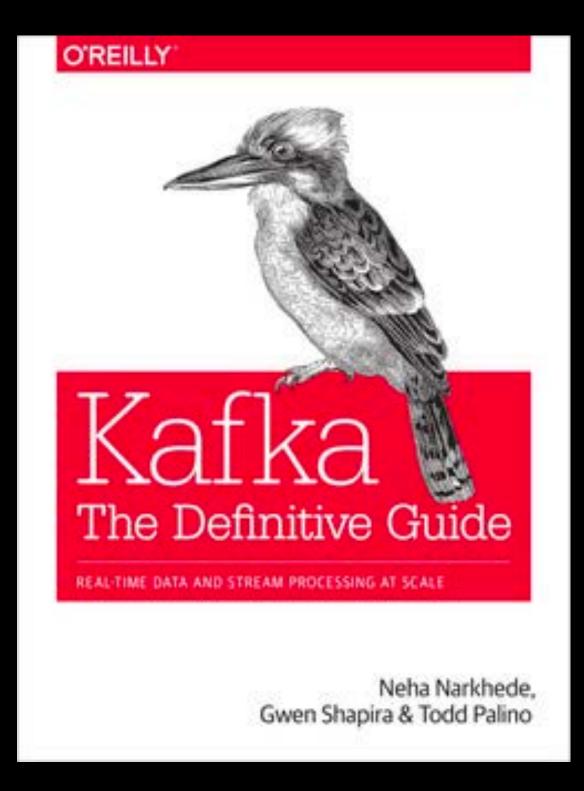
- Consumer
- Producer
- Streams

- -> @KafkaListener
- -> Kafkatemplate
- -> Streamsbuilder

Learn to create metrics (actuator)!!



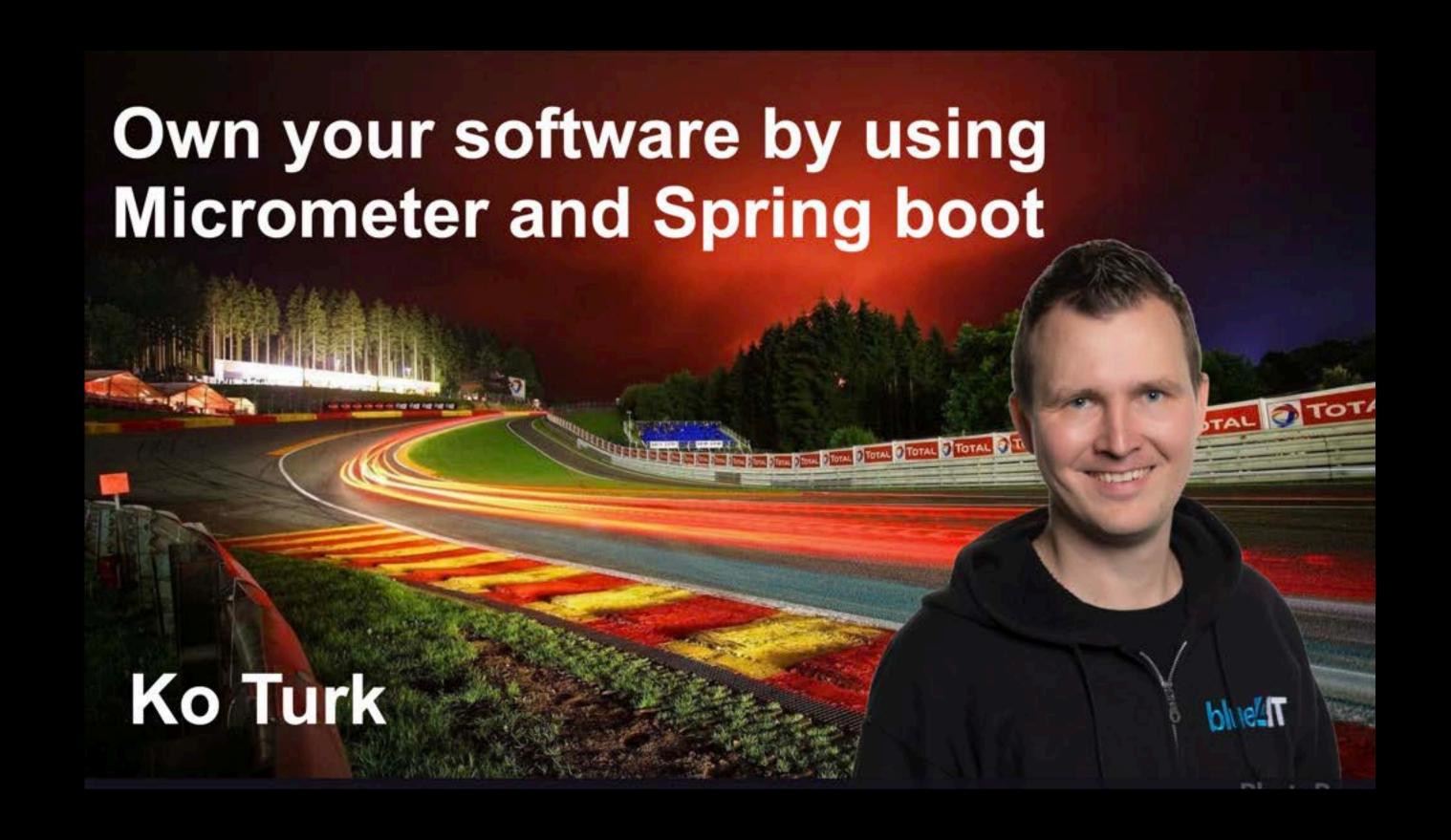








#### HTTPS://YOUTU\_BE/UNSZKYPAMZC?T=688





#### MONITORING

#### REFERENCES

#### for more fun



spring kafka

https://docs.spring.io/spring-kafka/docs/current/reference/html/



streams (more tutorials)

https://developer.confluent.io/tutorials/



Slides + code (branch 'solution')
Follow me at Twitter: @KoTurk77

