



# TEQNATION

CODE | INNOVATE | CREATE

# WARNING

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

You will learn how to create a payment application with  
Apache Kafka (Streams) and Actuator

Watch out for some scary images.



The story.....



# IT WAS A NIGHTMARE



TO BE A DEVELOPER (in the 90's)



CORBA



A dark, atmospheric scene featuring a solar eclipse with a bright corona, palm trees, and a chain-link fence.

**SOAP**



A dark, atmospheric hallway with a hospital bed and wheelchair.

REST

but it's slow.....

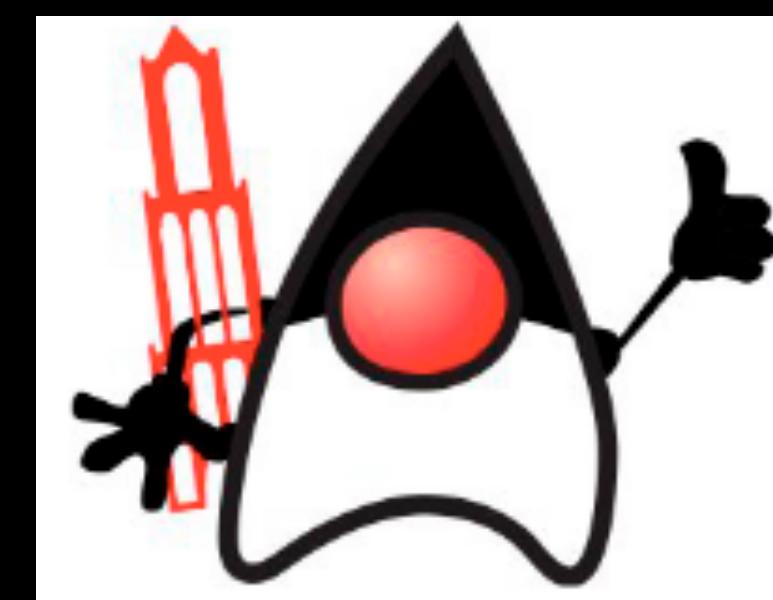
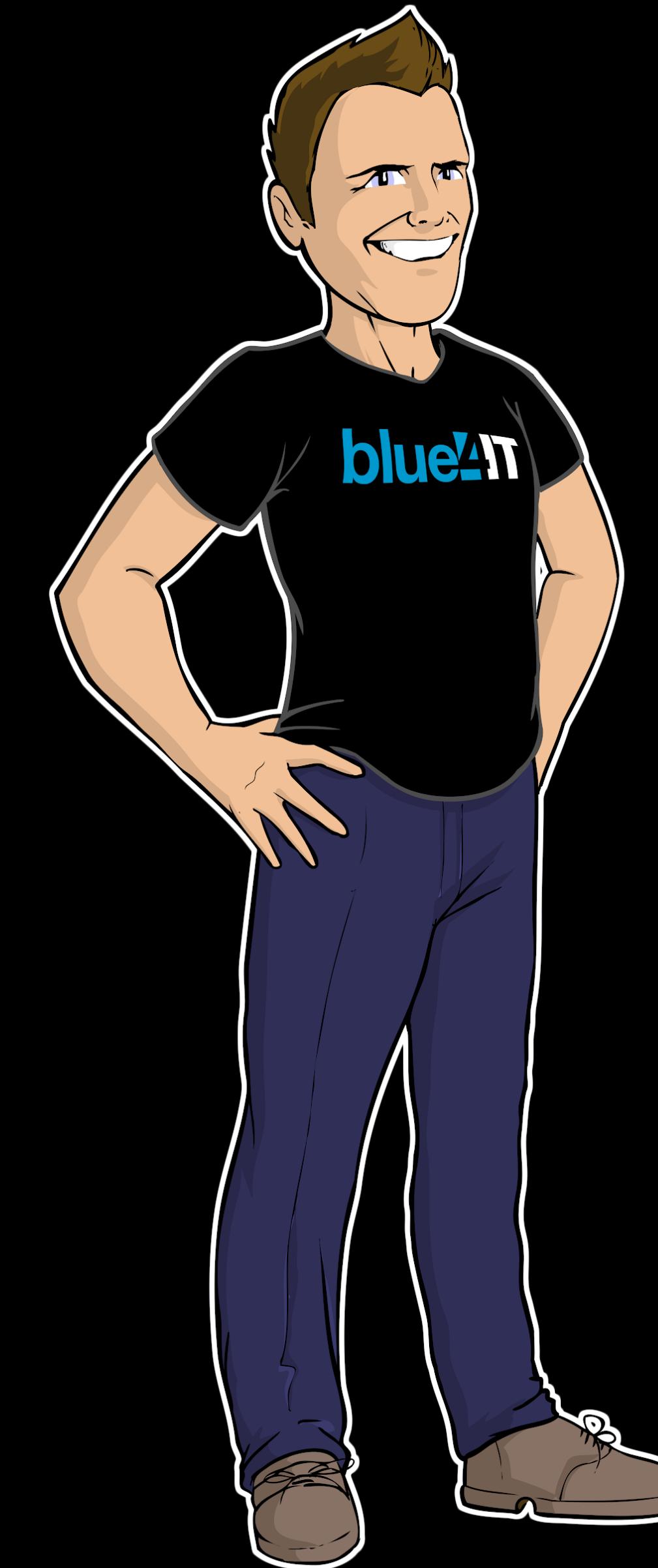


Let's  
With Apache Kafka!  
async

# EVENT STREAMING APPLICATIONS

**With Kafka Streams, Spring Kafka and Actuator**

# MARRIED



@KOTURK77

# Key takeaways:

How to easily setup:

- a cluster
- a consumer and producer
- a streams application (with proper monitoring)

**With Apache Kafka!**

but first, why??  
event streaming



EVENTS



A dramatic night scene featuring the Ghost Rider. He is a skeletal figure with a flaming skull head, wearing a black leather jacket and pants. He is riding a black motorcycle with a large chrome sidecar. The sidecar is engulfed in intense orange and yellow flames. The rider is looking directly at the viewer with a fierce expression. The background is dark, with some foliage visible on the left.

SOMETHING FAST

A dark, moody photograph of a woman with long hair, wearing a white shirt, standing in a doorway. She is holding a large axe over her shoulder with both hands. The background is a textured, possibly stone or concrete wall. The lighting is dramatic, with strong highlights and shadows.

LESS COMPLEX



# FAULT TOLERANT



# REPLAYABILITY

For that we have

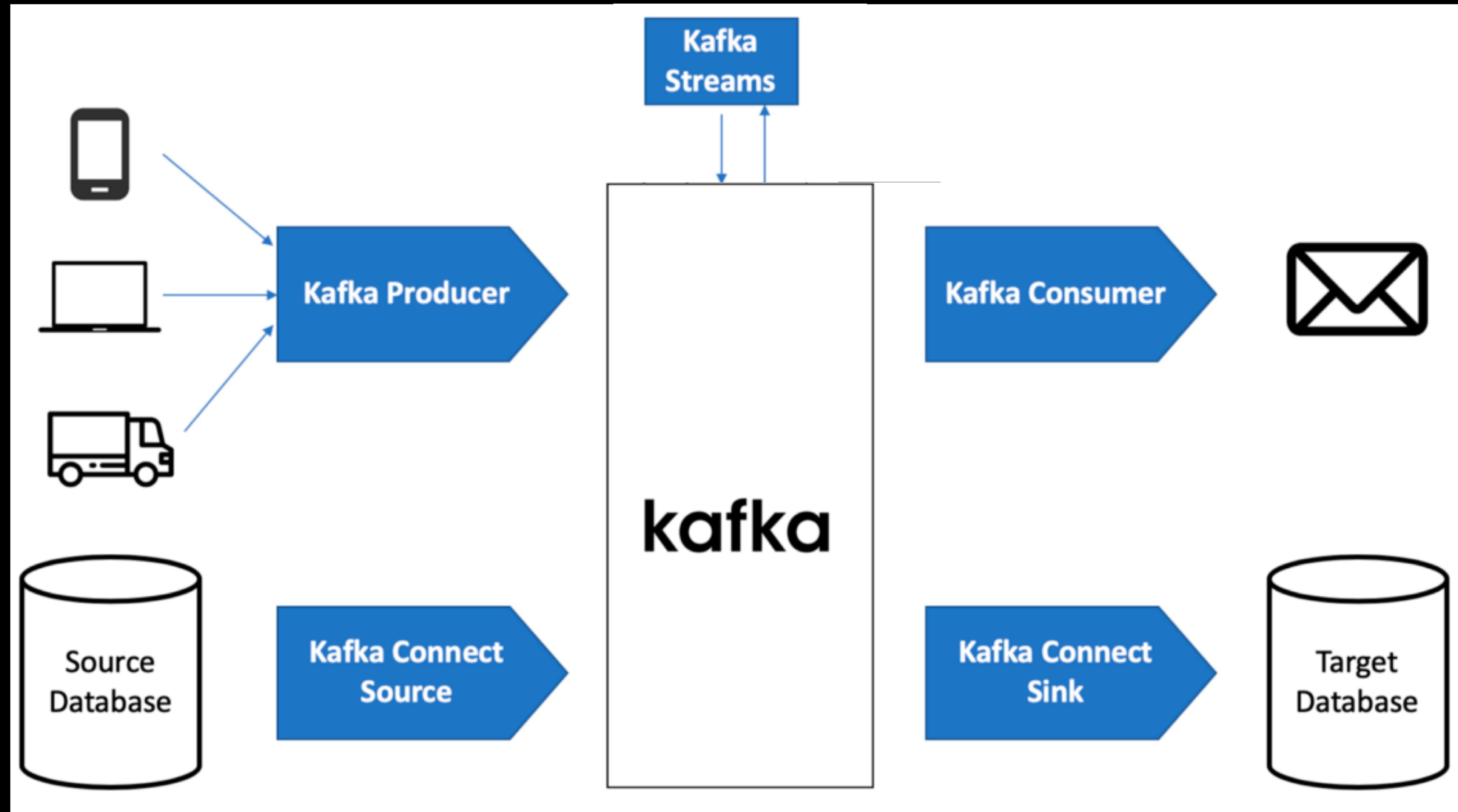


kafka



A photograph of three clowns standing side-by-side. The clown on the left has a multi-colored, spiky hairstyle and wears a green and yellow ruffled collar. The clown in the center has a red ruffled collar and a red bow tie. The clown on the right has a red ruffled collar and a red bow tie. They are all wearing white face paint with black eyebrows and noses, and red lips.

THREE FLAVOURS



# Key takeaways:

How to easily setup:

- a cluster
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A close-up photograph of a woman's face in profile, looking upwards towards a large, lush green plant. The plant has long, serrated leaves and a prominent, textured flower or seed head. The lighting is dramatic, with strong highlights on her skin and the plant's leaves against a dark background.

WHAT DO YOU NEED

<https://kafka.apache.org/quickstart>

# PLAFORM VENDORS

# LET'S EAT SOME CODE



[HTTPS://YOUTU.BE/UNSZKYPAMZC?T=688](https://youtu.be/unszkypamzc?t=688)



Ko Turk



MONITORING

# Key takeaways:

How to easily setup:

- a cluster → local or cloud (Confluent / Axual)
- a consumer and producer → kafka template / kafka listener
- a streams application → kafka-streams

**THANK YOU**  
**FOR YOUR TIME**

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Twitter: @KoTurk77



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#teqnation2022