

Using Apache Kafka instead of REST

Ko Turk – Senior Java Developer at Blue4IT



Online Tech Conference
- Italian edition -

C/C++



C/C++

9-10-11 Novembre, 2021



WARNING

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

You will learn how to create a payment application with
consumers / producers and the StreamsAPI

The pictures used in this talk can be harming for your mental health





SHADOW OF THE TOMB RAIDER IMAGE



CORBA



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

SOAP



STYLES



Google

roy fielding



Alle

Nieuws

Afbeeldingen

Video's

Shopping

Meer

Tools



unc charlotte



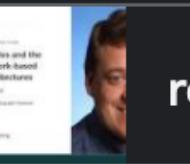
principal scientist



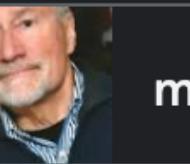
mint hill



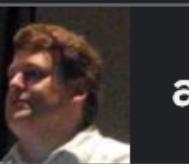
rest



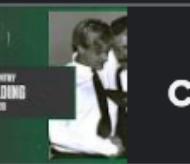
roy thomas fielding



master's degrees



architectural styles



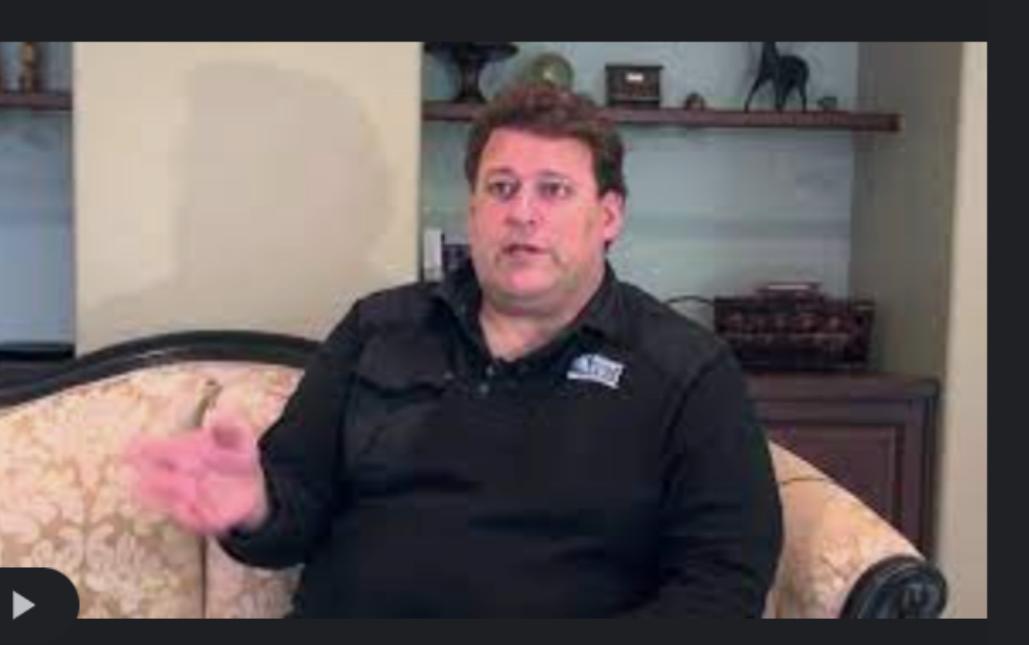
charlotte 49ers



Roy Fielding - Wikipedia
en.wikipedia.org



Roy T. Fielding (@fielding) | Twi...
twitter.com



Roy T. Fielding: Understanding the REST Style - Yo...
youtube.com



File:Roy Fielding.jpg - ...
commons.wikimedia.org



Mastering REST Architecture – Introductio...
ahmetozlu93.medium.com



Roy T. Fielding
ics.uci.edu

REST

LET'S EAT SOME CODE



A dark, moody photograph of a woman with long hair, seen from behind, holding a large axe. She is standing in front of a weathered, peeling wall. The scene is lit from above, creating strong shadows and highlights. The overall atmosphere is gritty and dramatic.

LESS COMPLEX

A scene from the movie Jurassic Park. A man with a beard and a dark t-shirt is running across a green, hilly landscape. He is being chased by a group of velociraptors. The background shows rolling hills under a clear sky.

IT CAN BE FASTER

GO asynchronous !



FAULT TOLERANT



REPLAYABILITY



Go to www.menti.com and use the code 2138 6750



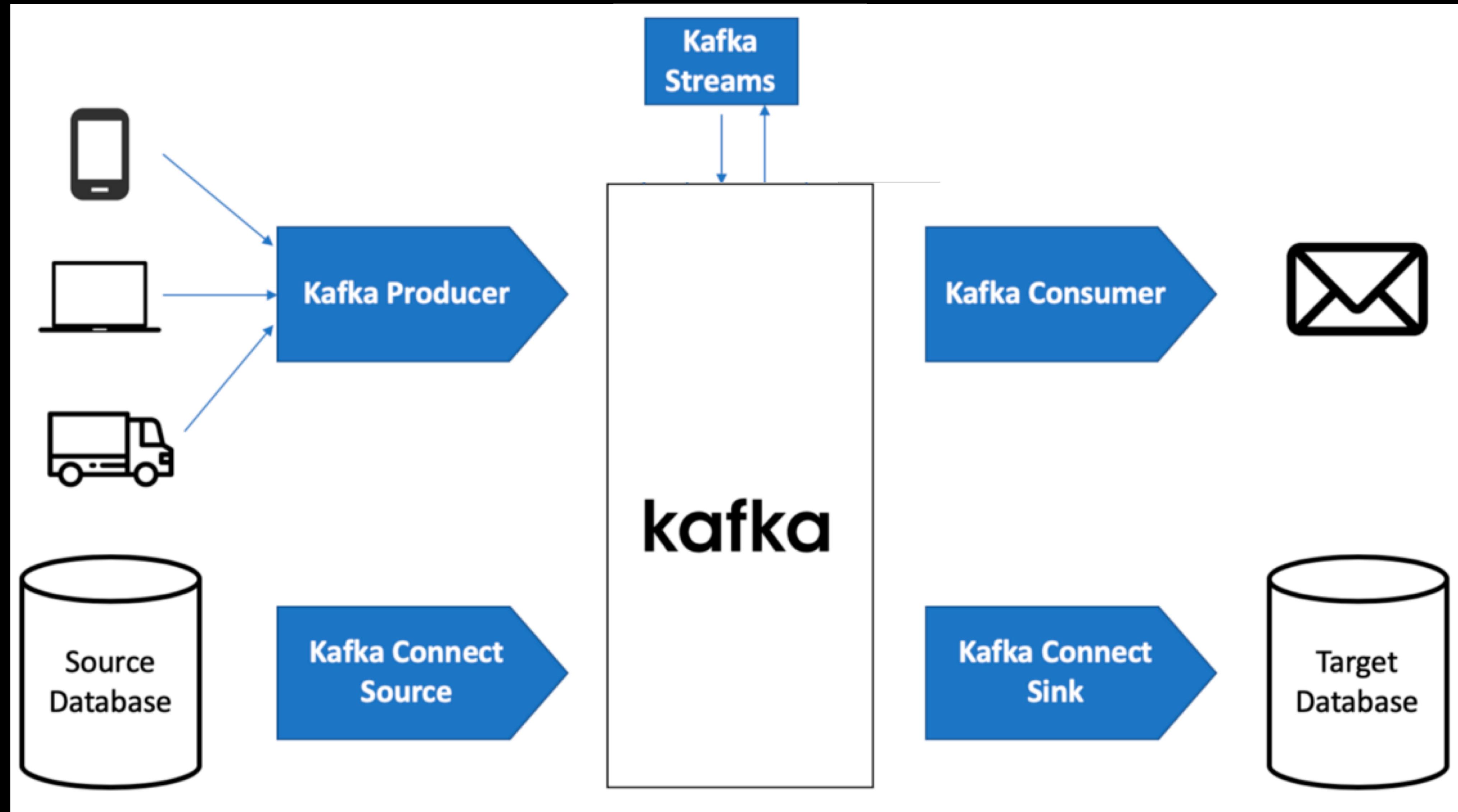
kafka

[HTTPS://LETMEGOOGLETHAT.COM/?](https://letmegooglethat.com/)

O=FRANZKAFKA

A photograph of three clowns standing side-by-side against a dark background. The clown on the left has a multi-colored, spiky hairstyle (yellow, orange, red) 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. All three clowns have white face paint with black eyebrows and noses, and they are smiling.

THREE FLAVOURS



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>



ZOOKEEPER

PLAFORM VENDORS

VERSION: '2'

SERVICES:

ZOOKEEPER:

IMAGE: CONFLUENTINC/CP-ZOOKEEPER-LATEST

ENVIRONMENT:

ZOOKEEPER_CLIENT_PORT: 2181

ZOOKEEPER_TICK_TIME: 2000

PORTS:

- 22181:2181

KAFKA:

IMAGE: CONFLUENTINC/CP-KAFKA-LATEST

DEPENDS_ON:

- ZOOKEEPER

PORTS:

- 9092:9092

ENVIRONMENT:

KAFKA_BROKER_ID: 1

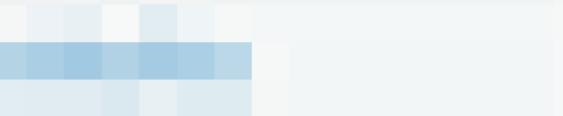
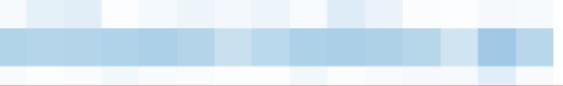
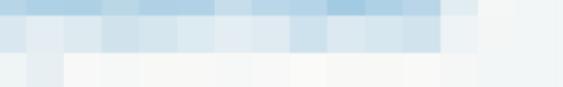
KAFKA_ZOOKEEPER_CONNECT: ZOOKEEPER:2181

KAFKA_ADVERTISED_LISTENERS: PLAINTEXT://KAFKA:29092,PLAINTEXT_HOST://LOCALHOST:9092

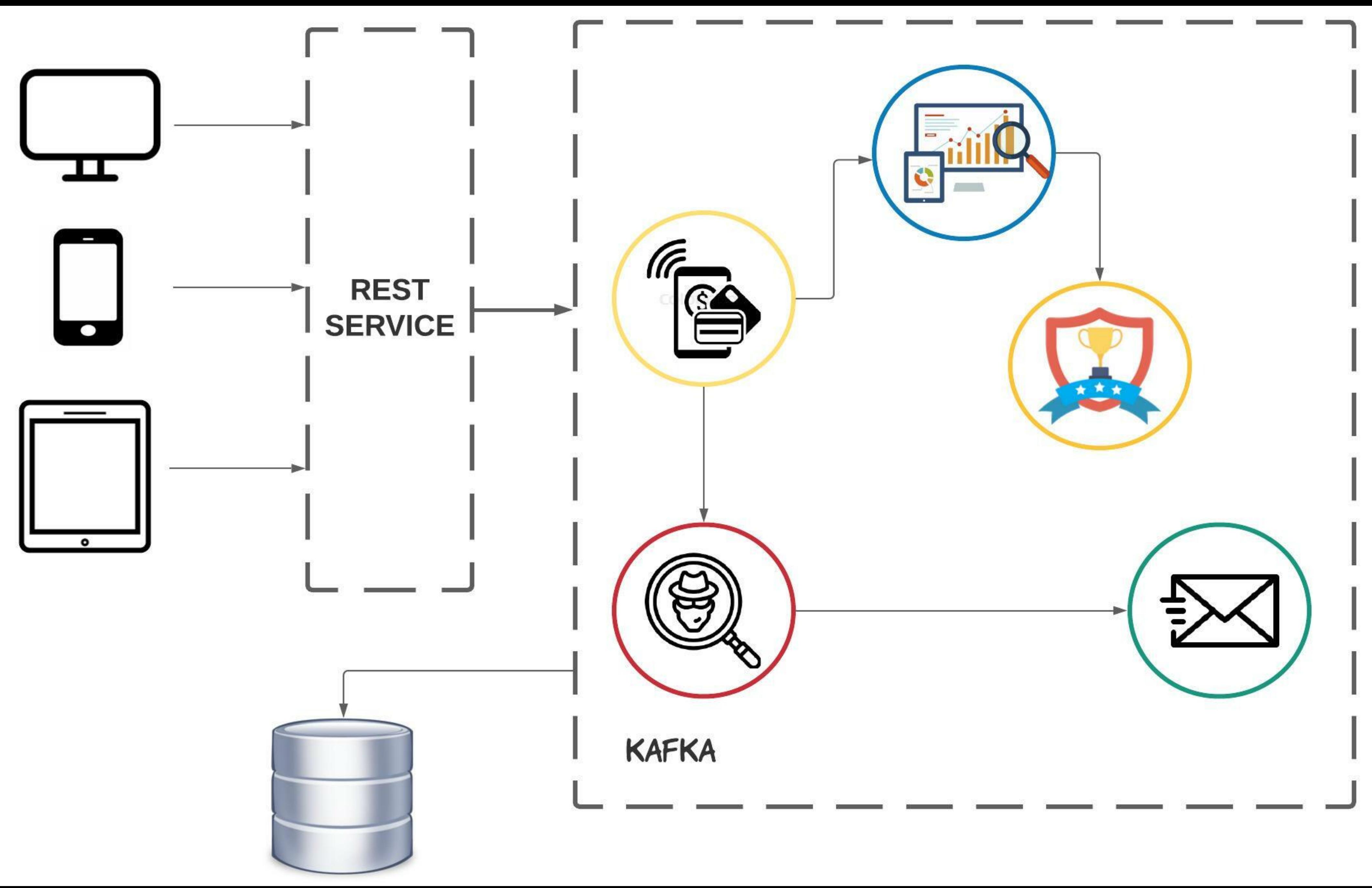
KAFKA_LISTENER_SECURITY_PROTOCOL_MAP: PLAINTEXT:PLAINTEXT,PLAINTEXT_HOST:PLAINTEXT

KAFKA_INTER_BROKER_LISTENER_NAME: PLAINTEXT

KAFKA_OFFSETS_TOPIC_REPLICATION_FACTOR: 1

Examples	API reference	GitHub
C/C++ Client	C/C++	
Go Client	Go	
Java Client	Java	 apache-kafka-java
.NET Client	.NET	 
Python Client	Python	 

IMPLEMENTATIONS





A dark, atmospheric image of Samara Morgan from the movie "The Ring". She has long, dark hair and is looking intensely at the viewer. Her face is partially obscured by shadows, and her eyes glow with a pale blue light. The background is dark and moody.

LIVE CODING

[HTTPS://WEB.MICROSOFTSTREAM.COM/VIDEO/7A86F504-58D5-4457-9186-0FC65498302E](https://web.microsoftstream.com/video/7A86F504-58D5-4457-9186-0FC65498302E)



MONITORING



```
asyncapi: 2.1.0
info:
  title: Account Service
  version: 1.0.0
  description: This service is in charge of processing user
signups :rocket:
channels:
  user/signup:
    subscribe:
      message:
        $ref: '#/components/messages/UserSignedUp'
components:
  messages:
    UserSignedUp:
      payload:
        type: object
      properties:
        displayName:
          type: string
          description: Name of the user
        email:
          type: string
          format: email
          description: Email of the user
```

DOCUMENTATION

KEY GIVEAWAY

KAFKA = ASYNC

STREAMS API

SPRING ACTUATOR

THANK YOU

FOR YOUR TIME

Github: <https://github.com/KoTurk/>
Twitter: @KoTurk77