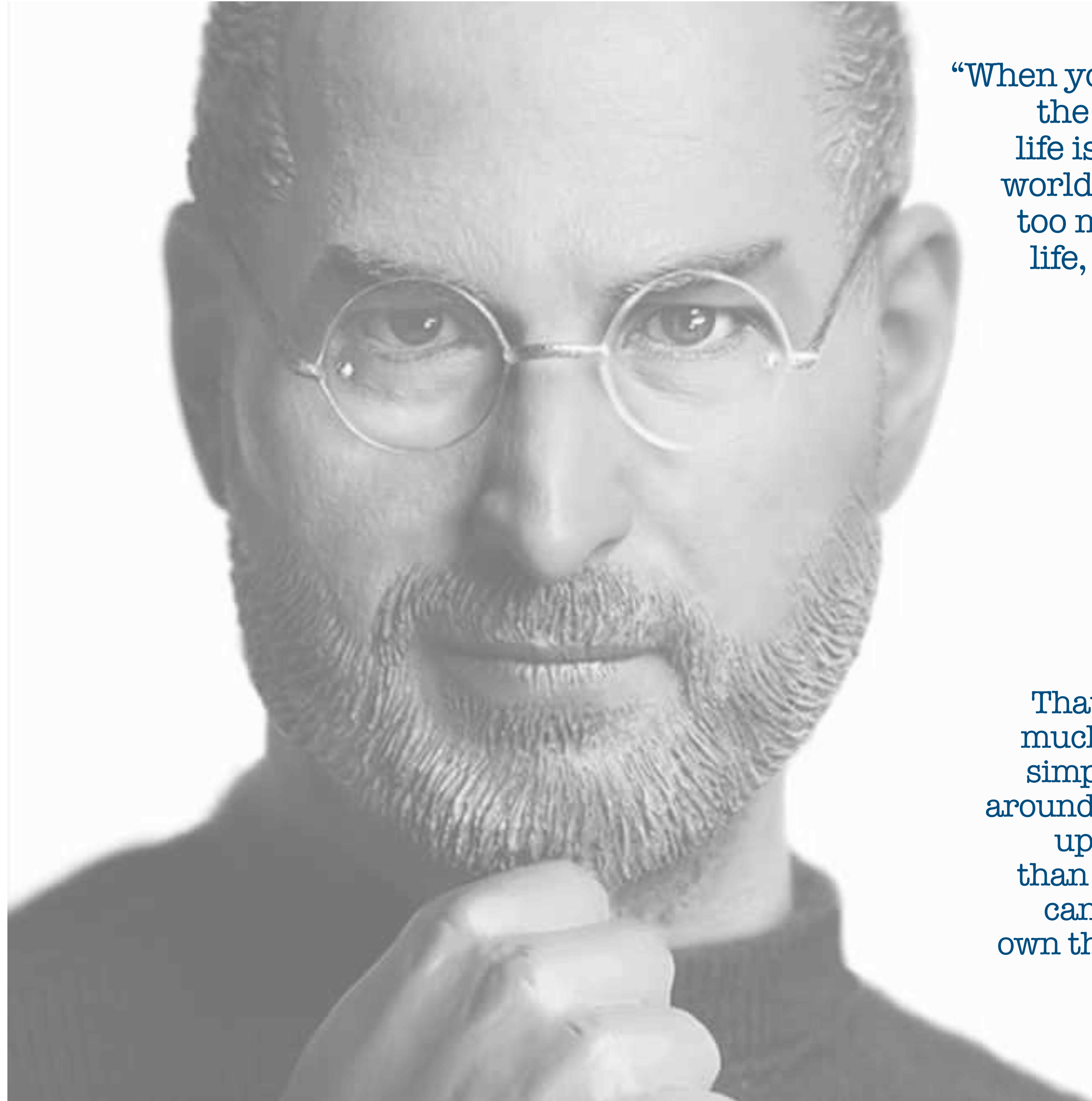


How I beat “The Lady Luck?”

Why software developers need side project(s)?

Stoisavljević Aleksandar @ JavaCro Autumn 2022
Rovinj/Croatia





“When you grow up you tend to get told the world is the way it is and your life is just to live your life inside the world. Try not to bash into the walls too much. Try to have a nice family life, have fun, save a little money...

That’s a very limited life. Life can be much broader once you discover one simple fact, and that is — everything around you that you call life, was made up by people who were no smarter than you. And you can change it, you can influence it, you can build your own things that other people can use.”





Aleksandar Stoisavljević

it consultant @NovaCode



Accomplished individual with a strong background in Java (15+ yrs in IT business). Goal oriented, analytical and sharp individual with a lot of energy. Strong will to spread inspiration among his co-workers. Coming from city of Novi Sad, one of the biggest IT centres in Serbia, Aleksandar has been working in various environments. Professional career started as desktop developer (Delphi IDE) and joined one international company in 2007. with its headquarters in Amsterdam, The Netherlands. Primary focus were various kinds of server-side systems and web applications. As from 2015. actively learning and helping clients to prepare and adopt for the Cloud. In 2017. Joined NovaCode d.o.o. where he works nowadays as Software Architect. In the "off-working hours" father of two. Like to play table tennis.

 astoisavljevic

 @staleksit



Do not worry!

This **IS NOT** going to be another
“life coaching” sessions like:
“In pursuit of happiness”

The goal is to tickle your **imagination**,
drive you away from **comfort zone** and
initiate idea - of having **side project**.



How does work "9-to-5" looks like? *

Fixing Bugs

Maintain legacy
code base

Meetings
(dailys, refinements,
retrospectives, ...)

Work with old
libraries

Documentation

Code standard rules

* - for at least most of us

What's the solution ?



"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



What is the
solution?

1. Continue
as is

Live your life inside given boundaries.

Live life to the fullest. Make every moment counts. Take things slower. Take care of yourself. 40 years of working service is very long period of time. This is not a sprint race. It is more like marathon.

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



What is the
solution?

1. Continue
as is

2. Fall-back
In love

Re-light that spark in you

Fall back in love with your main venture. Again! Back to the roots. Try to find reasons why you started career as programmer.

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



What is the
solution?

1. Continue
as is

2. Fall-back
In love

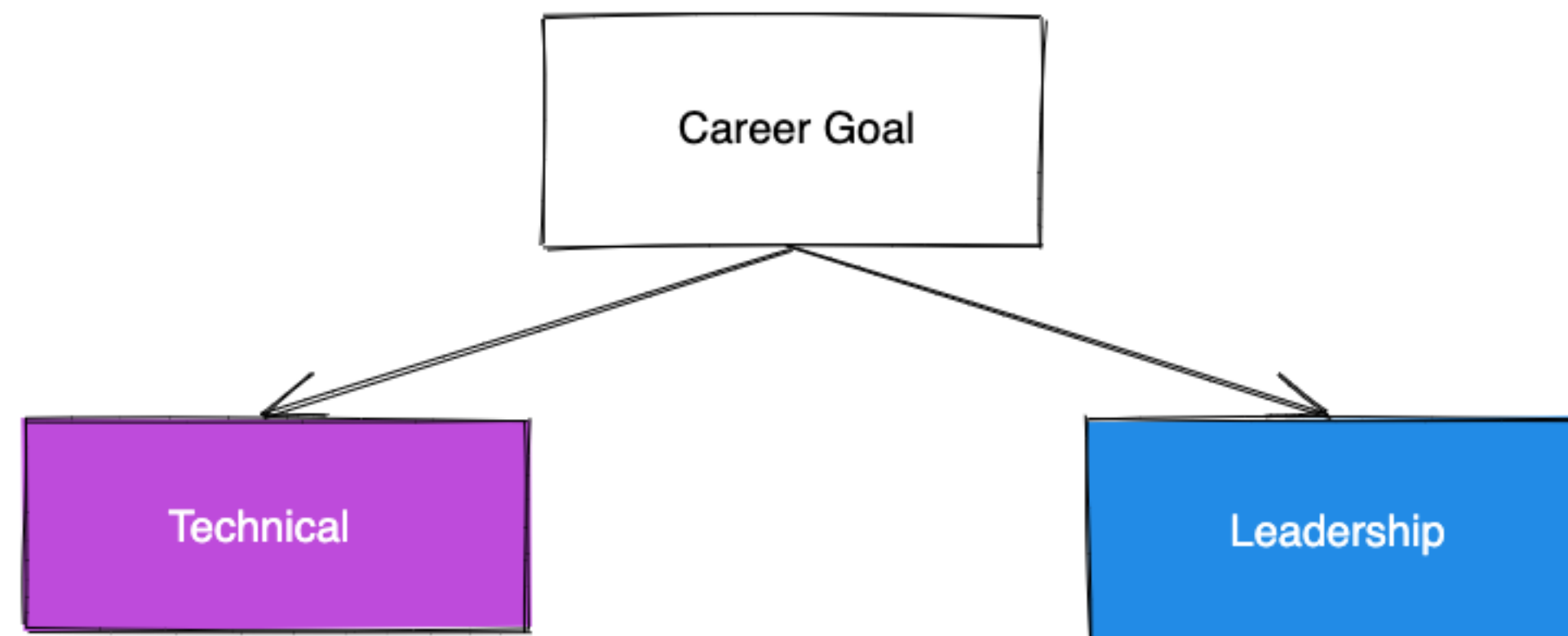
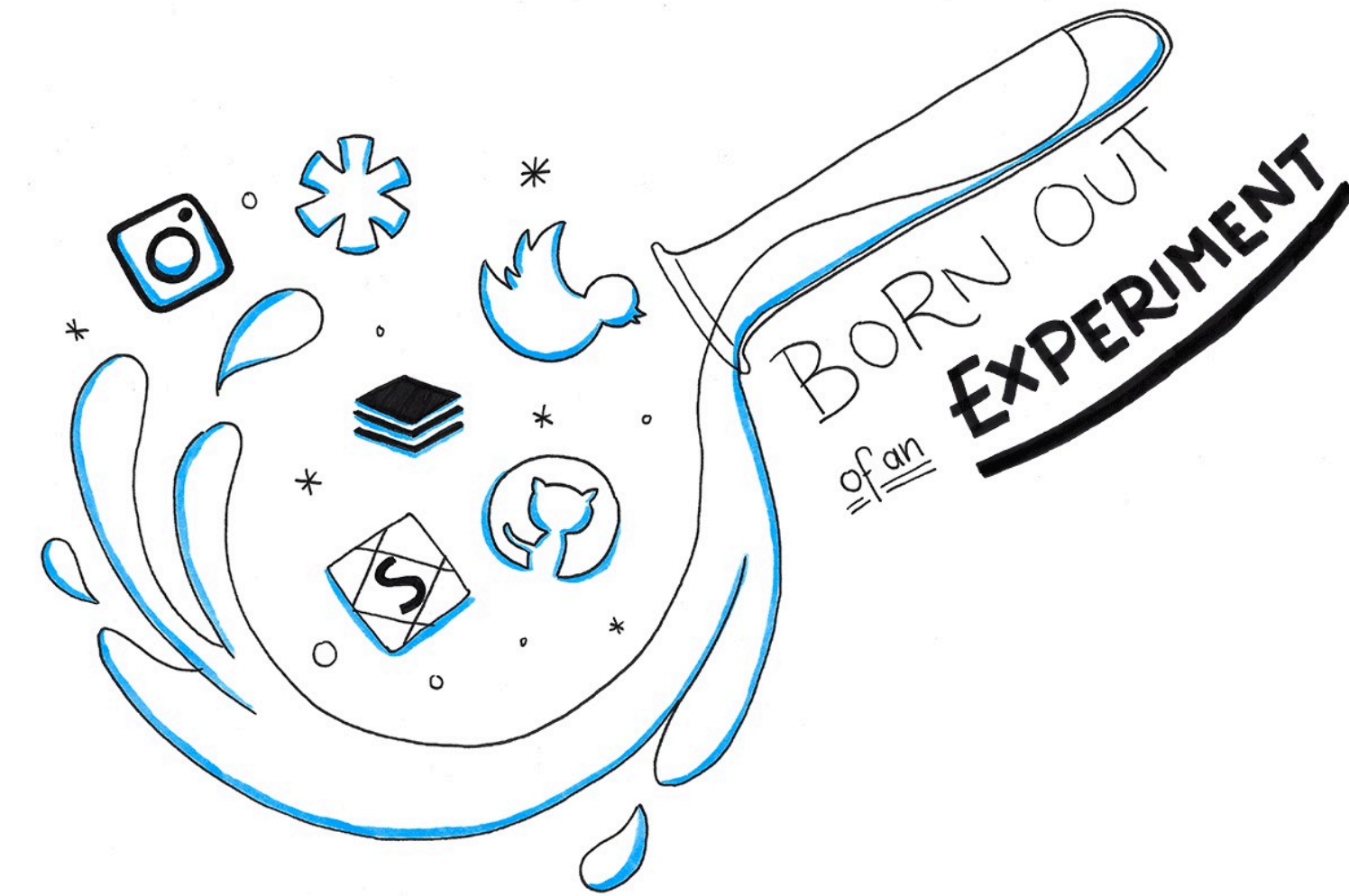
OR ...

Starting a project is easier than
you can think of!

Side project

What is a side project?

Side project is venture, activity of any kind that **SEPARATE** you from your **MAIN** line of work, from your **"9-to-5" job**, but same time helps you to **ACHIEVE** your **career end goal**.



“Eurovision Buzzer”

 Twitter data source analytics tool ©2019

It all starts with local contest, “Pesma za Evroviziju”, in the beginning of March.



Me and my friends, gathers with families and while watching show, are picking our favourites and trying to predict a winner.

“How I beat The Lady Luck?” - Stoisavljević Aleksandar @ 2022





Is there a way to find & analyse relevant data source in order to predict the winner?

Since “Eurovision” is TV show (*more than it is pure music show!*), how many people are “engaged”? How to get that fact?

There are ~ **750 Million** people in Europe.

Google

europa population

All

Images

News

Maps

Videos

More

Settings

Tools


About 1,030,000,000 results (0.79 seconds)


Europe / Population


741.4 million

2016

People also search for

 **United States**
327.2 million

 **Asia**
4.463 billion


 **Africa**
1.216 billion

Demographics of Europe - Wikipedia

https://en.wikipedia.org/wiki/Demographics_of_Europe

Jump to **Total population** - The population of Europe in 2015 was estimated to be 741 million according to the United Nations, which was slightly less than 11% of the world population. The precise figure depends on the exact definition of the geographic extent of Europe. The population of the European Union (EU) was 509 million as of 2015.

Population by country · Religion · Ethnic groups · Genetic origins



Europe

Continent

Europe is a continent located entirely in the Northern Hemisphere and mostly in the Eastern Hemisphere. It is bordered by the Arctic Ocean to the north, the Atlantic Ocean to the west, Asia to the east, and the Mediterranean Sea to the south. It comprises the westernmost part of Eurasia. [Wikipedia](#)

Area: 10.18 million km²

Largest city: Istanbul

Population: 741.4 million (2016)

Did you know: Europe is the third-most-populous continent (738,849,000) in the world. [wikipedia.org](#)

Countries and regions

“How I beat The Lady Luck?” - Stoisavljević Aleksandar @ 2022





EUROvision

SONG CONTEST

TEL AVIV 2019

Eurovision 2019 Song Contest

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022

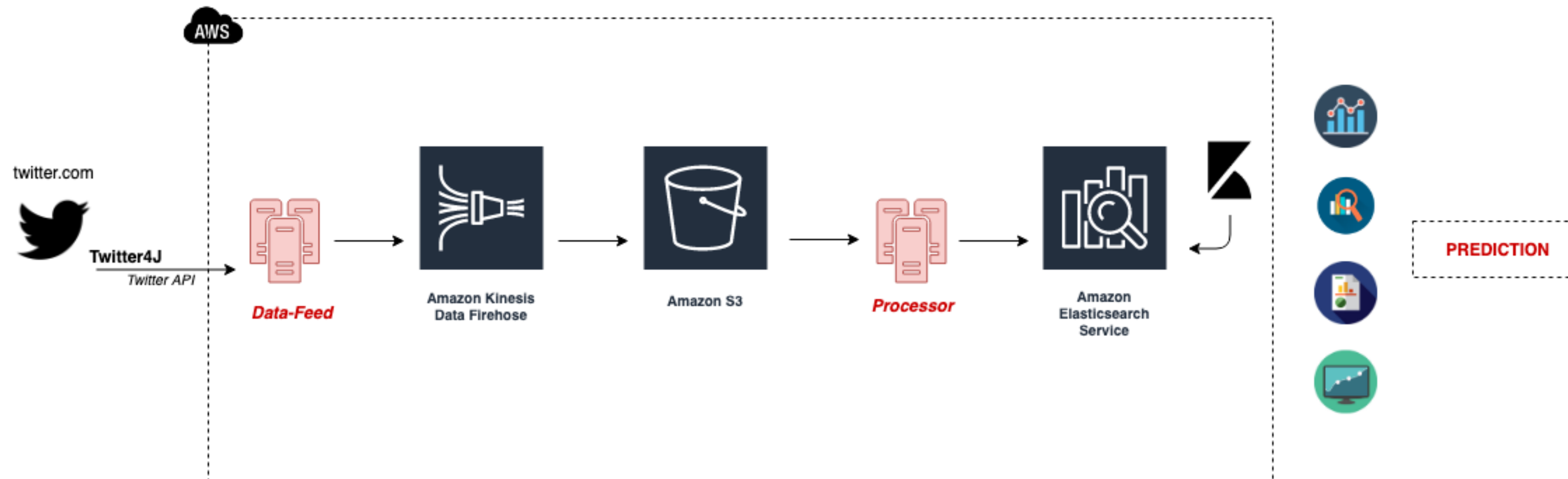
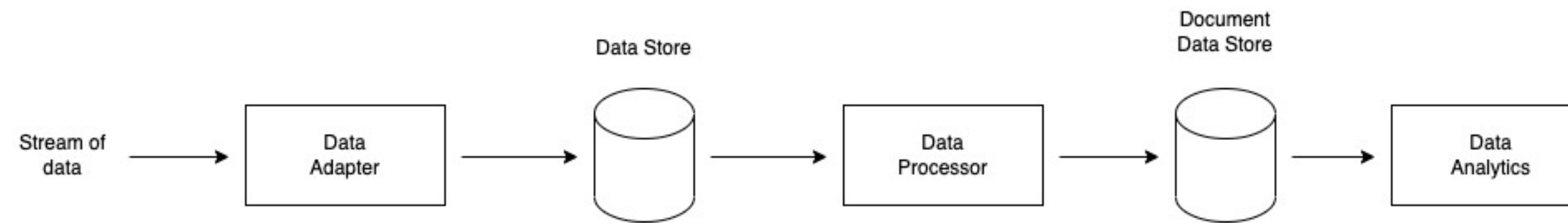




"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



"Eurovision Buzzer" - Contextual diagram



Day #1 - Tuesday

Data Feed

C4 Model

by Simon Brown - c4model.com

I Context



II Component

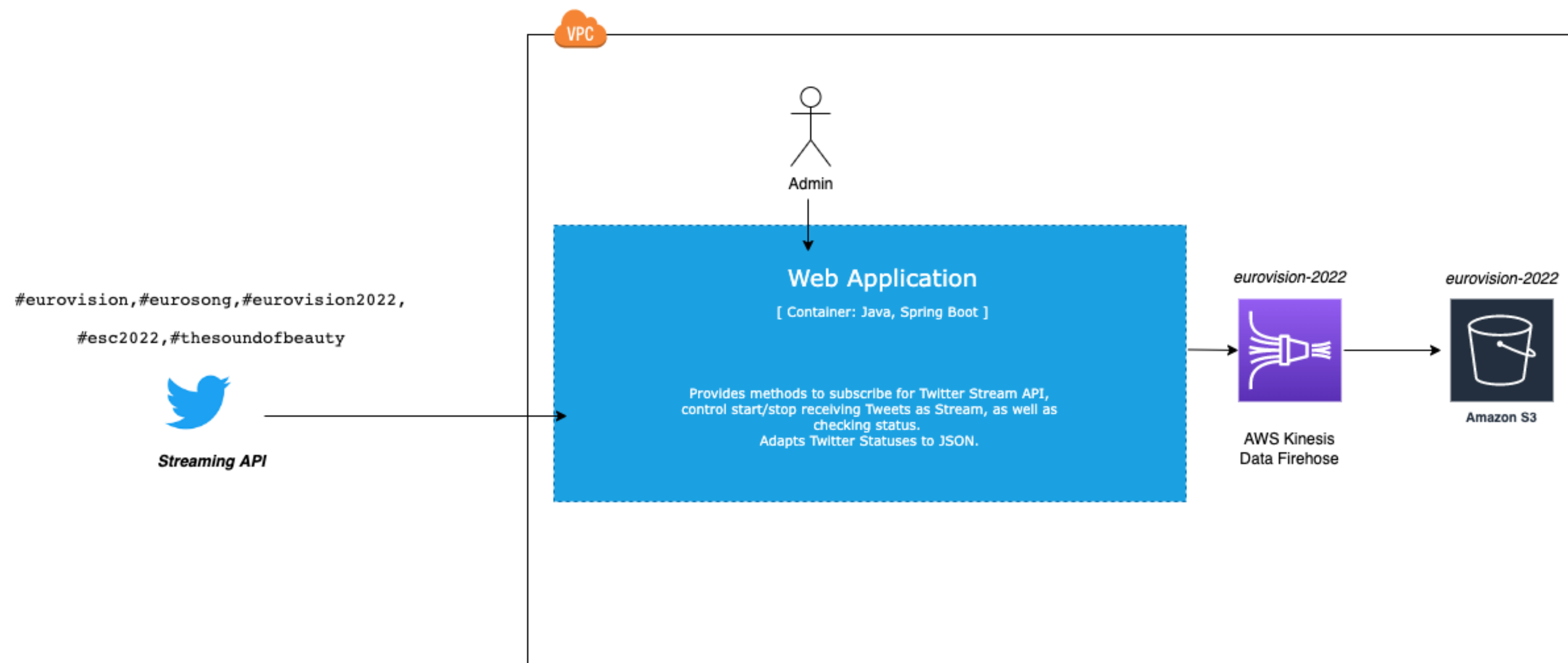


III Container

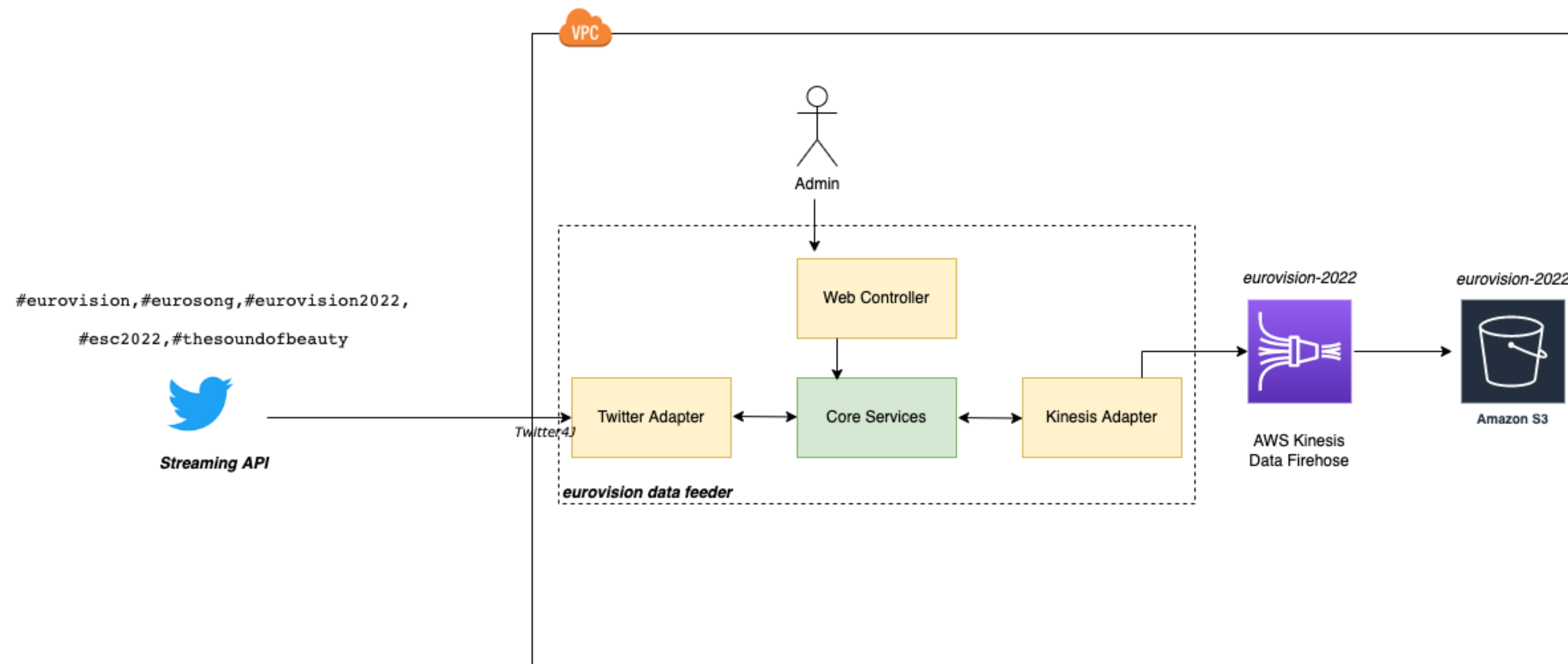


IV Class

"Data Feeder" - Context diagram



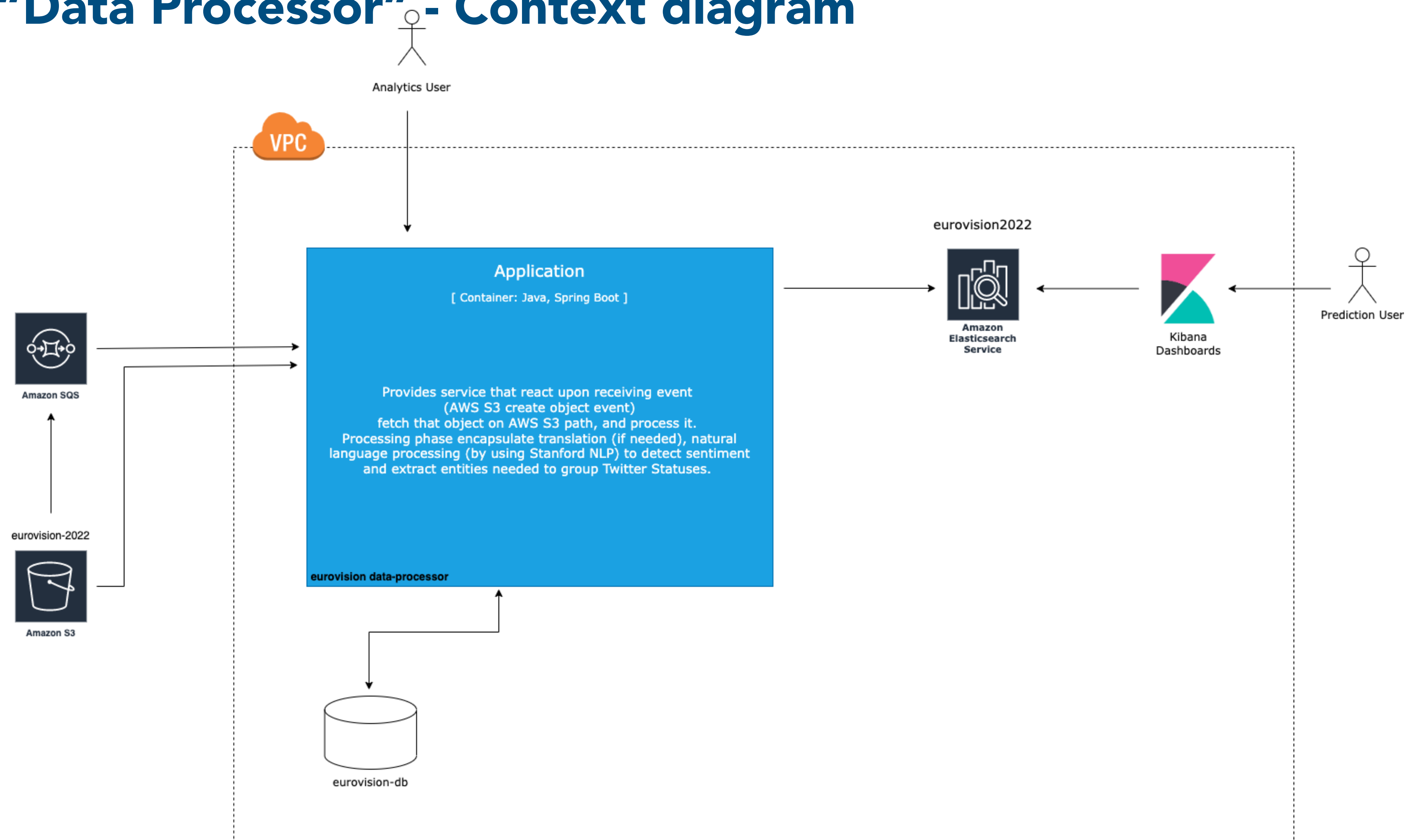
"Data Feeder" - Component diagram



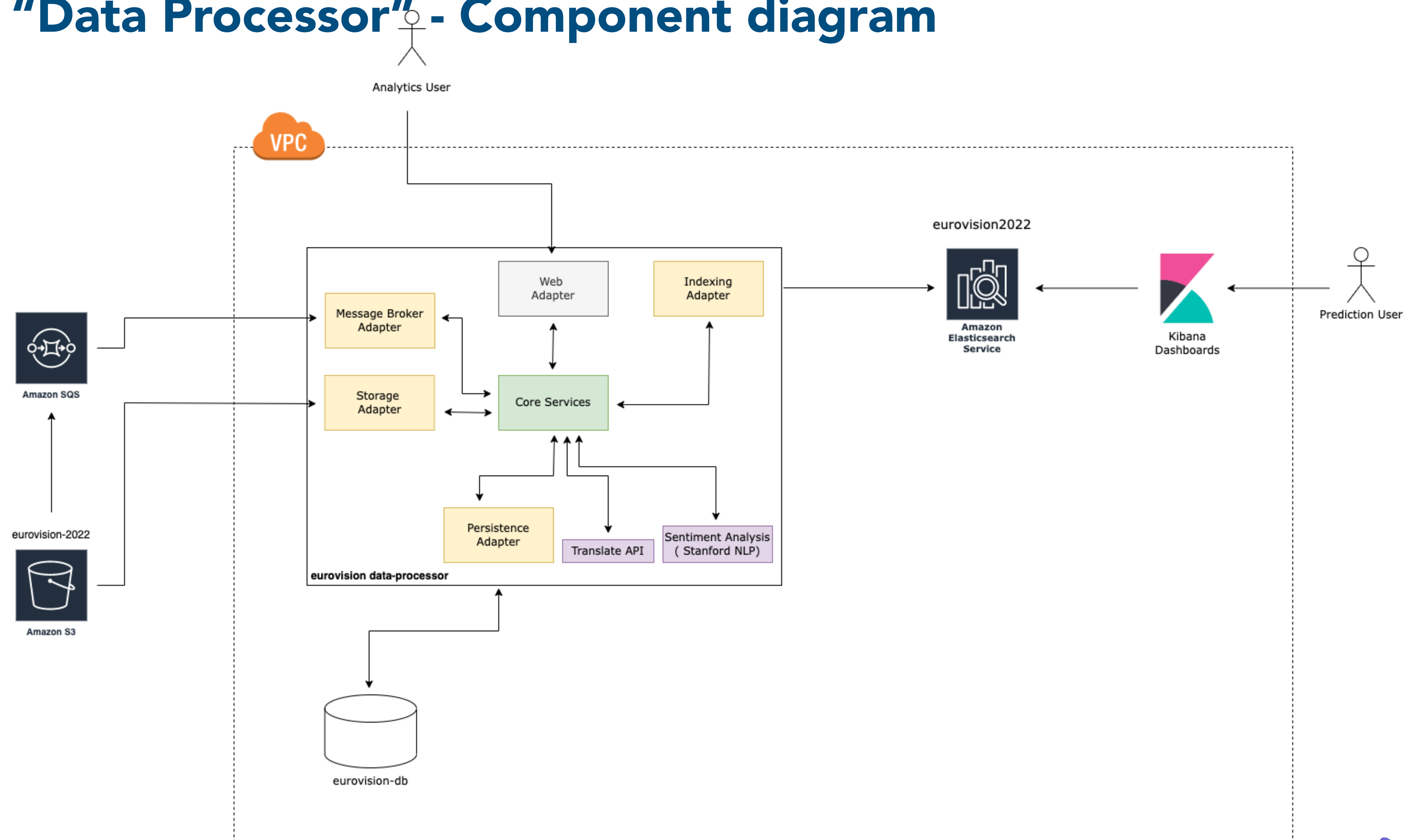
Day #2 - Wednesday

Data Processing

"Data Processor" - Context diagram



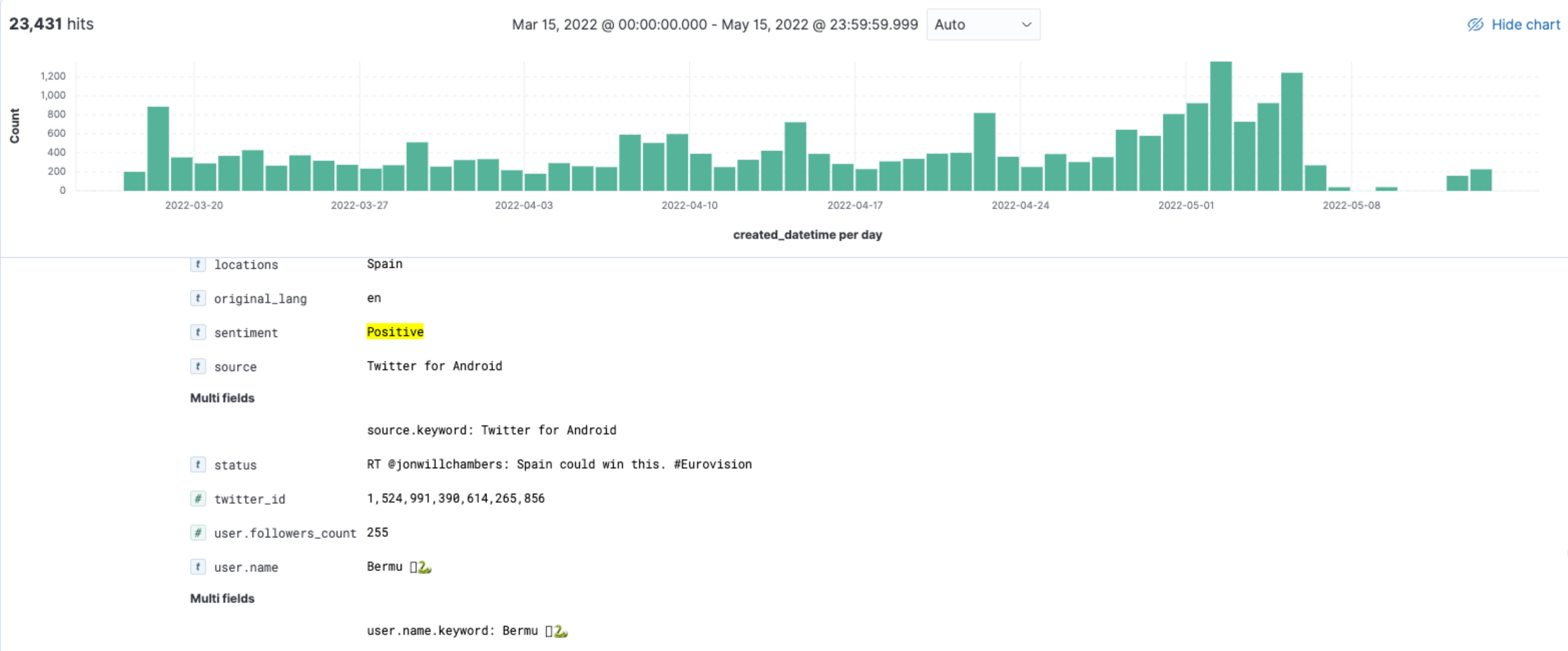
"Data Processor" - Component diagram



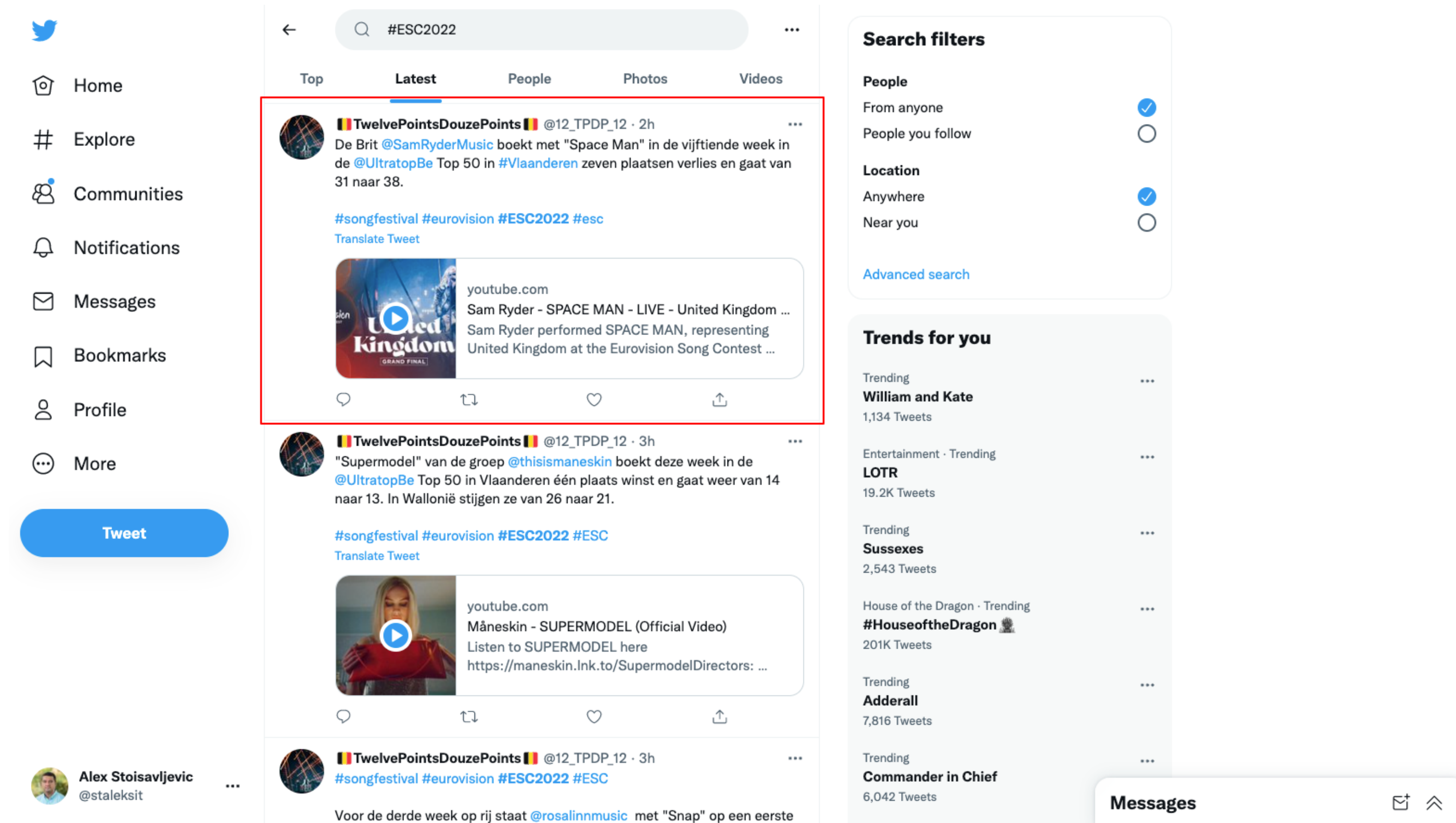
Day #3 - Thursday

Data Analytics

"Data Analytics" - document



"Data Analytics" - AWS Translate



The screenshot displays a Twitter search results page for the hashtag #ESC2022. The interface includes a left sidebar with navigation options (Home, Explore, Communities, Notifications, Messages, Bookmarks, Profile, More) and a 'Tweet' button. The main content area shows a list of tweets. The top tweet, highlighted with a red box, is from the user @12_TPDP_12 (TwelvePointsDouzePoints) and is 2 hours old. The tweet text is in Dutch: 'De Brit @SamRyderMusic boekt met "Space Man" in de vijftiende week in de @UltratopBe Top 50 in #Vlaanderen zeven plaatsen verlies en gaat van 31 naar 38.' It includes the hashtags #songfestival, #eurovision, #ESC2022, and #esc, and a 'Translate Tweet' link. Below the text is a video player showing a performance of 'SPACE MAN' by Sam Ryder, representing the United Kingdom at the Eurovision Song Contest. The video player has a play button and a title 'Sam Ryder - SPACE MAN - LIVE - United Kingdom ...'. The video player also shows a link to the video on YouTube. The right sidebar contains 'Search filters' (People, Location, Advanced search) and 'Trends for you' (Trending, William and Kate, LOTR, Sussexes, House of the Dragon, Adderall, Commander in Chief). At the bottom right, there is a 'Messages' button.

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



"Data Analytics" - AWS Translate

The screenshot displays the AWS Translate console interface. At the top, the AWS navigation bar includes the logo, a 'Services' menu, a search bar with the placeholder 'Search for services, features, blogs, docs, and more', and a '[Option+S]' shortcut. On the right side of the navigation bar are icons for a document, a bell, a help icon, and a region dropdown set to 'N. Virginia'. Below the navigation bar, the left sidebar shows the 'Amazon Translate' service with a close button. The sidebar menu includes 'Metrics', 'Real-time translation', 'Batch translation', and a 'Customization' section with sub-items 'Custom terminology' and 'Parallel data'. The main content area is titled 'Real-time translation' with an 'Info' link. It features a 'Translation' section with two dropdown menus for 'Source language' (set to 'Dutch (nl)') and 'Target language' (set to 'English (en)'). A swap button is located between these menus. Below the source language dropdown is a text input field containing the Dutch text: 'De Brit @SamRyderMusic boekt met "Space Man" in de vijftiende week in de @UltratopBe Top 50 in #Vlaanderen zeven plaatsen verlies en gaat van 31 naar 38.' Below the input field, it shows '157 characters, 157 of 5000 bytes used.' and an 'Info' link. To the right of the input field is the translated English text: 'The Brit @SamRyderMusic books with "Space Man" in the fifteenth week in the @UltratopBe Top 50 in #Vlaanderen loses seven places and goes from 31 to 38.' Below the translation is a feedback prompt: 'Is this translation what you expected? Please leave us [feedback](#)'. Below the 'Translation' section is an 'Additional settings' section with a right-pointing arrow. At the bottom of the main content area is an 'Application integration' section with a right-pointing arrow. The footer of the console includes a 'Feedback' link, a message 'Looking for language selection? Find it in the new [Unified Settings](#)', and copyright information '© 2022, Amazon Web Services, Inc. or its affiliates.' along with links for 'Privacy', 'Terms', and 'Cookie preferences'.

"Data Analytics" - AWS Comprehend (or Stanford NLP)

Twitter search results for #eurovision #eurosong. The highlighted tweet by Anders Lundgren (@TotallyAnders) discusses Serbia's handwashing habits during the Eurovision Song Contest.

Search filters:

- People: From anyone (checked), People you follow (unchecked)
- Location: Anywhere (checked), Near you (unchecked)

Trends for you:

- Trending: William and Kate (1,147 Tweets)
- House of the Dragon · Trending: #HouseoftheDragon (204K Tweets)
- Trending: Sussexes (2,576 Tweets)
- Politics · Trending: Putin (189K Tweets)
- Trending: Commander in Chief (6,112 Tweets)
- Trending: #MeghanMarkle (2,599 Tweets)

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



"Data Analytics" - entities extraction

Services

Search for services, features, blogs, docs, and more

[Option+S]

Resource Groups & Tag Editor

Console Home

Amazon Comprehend

Real-time analysis

Analysis jobs

Customization

Custom classification

Custom entity recognition

Endpoints

Analyzed text

Serbia (#SRB) is showing you how to wash your hands, just in case you forgot. I mean, corona and washing hands ...

Not #Eurovision top 10 worthy for me.

#songfestival #ESC22 #ESC2022 #esf #esf22 #esf2022 #eurosong #eurovision2022 #1metS10

Results

Search

< 1 2 > ⚙

Entity	Type	Confidence
Serbia	Organization	0.94
#SRB	Organization	0.91
#Eurovision	Event	0.95
top 10	Quantity	0.94
#songfestival	Event	0.94
#ESC22	Event	0.93
#ESC2022	Event	0.96
#esf	Event	0.89
#esf22	Event	0.93
#esf2022	Event	0.97

Application integration

Feedback

Looking for language selection? Find it in the new Unified Settings

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Privacy

Terms

Cookie preferences



"Data Analytics" - sentiment

The screenshot displays the AWS Amazon Comprehend console interface. The top navigation bar includes the AWS logo, a search bar, and the region 'N. Virginia'. The left sidebar shows the 'Amazon Comprehend' menu with options like 'Real-time analysis', 'Analysis jobs', and 'Customization'. The main content area shows a text input field with the tweet: 'Not #Eurovision top 10 worthy for me. #songfestival #ESC22 #ESC2022 #esf #esf22 #esf2022 #eurosong #eurovision2022 #1metS10'. Below the input field, the 'Insights' section is active, showing tabs for 'Entities', 'Key phrases', 'Language', 'PII', 'Sentiment', and 'Syntax'. The 'Sentiment' tab is selected, displaying the analyzed text and the results. The results show four sentiment categories: Neutral (0.45 confidence), Positive (0.05 confidence), Negative (0.48 confidence), and Mixed (0.00 confidence). The 'Negative' result is highlighted with a red box. The footer contains a feedback link, a note about language selection, and copyright information for Amazon Web Services, Inc. or its affiliates.

aws Services Search for services, features, blogs, docs, and more [Option+S] N. Virginia

Resource Groups & Tag Editor Console Home

Amazon Comprehend X

Real-time analysis
Analysis jobs

Customization

Custom classification
Custom entity recognition
Endpoints

Not #Eurovision top 10 worthy for me.
#songfestival #ESC22 #ESC2022 #esf #esf22 #esf2022 #eurosong #eurovision2022 #1metS10

240 of 100000 characters used.

Clear text Analyze

Insights Info

Entities Key phrases Language PII Sentiment Syntax

Analyzed text

Serbia (#SRB) is showing you how to wash your hands, just in case you forgot. I mean, corona and washing hands ...

Not #Eurovision top 10 worthy for me.

#songfestival #ESC22 #ESC2022 #esf #esf22 #esf2022 #eurosong #eurovision2022 #1metS10

Results

Sentiment

Neutral 0.45 confidence	Positive 0.05 confidence	Negative 0.48 confidence	Mixed 0.00 confidence
----------------------------	-----------------------------	-----------------------------	--------------------------

Application integration

Feedback Looking for language selection? Find it in the new Unified Settings

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"Data Analytics"



14	yellow	open	account_policy	n5HqQD5tSSyRJcP3Imt0xA	1	1	15	0	11.9kb	11.9kb
15	yellow	open	eurovision2022	d95DATvkRWixhWNUbqP6A	4	1	6099849	48148	2.2gb	2.2gb
16	green	open	.tasks	V1NjyRVdRY-KqwJWxQoHTw	1	0	121	4	86.2kb	86.2kb

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



Day #4 - Friday

Connecting the Dots

Connecting the Dots



AWS CLOUDFORMATION



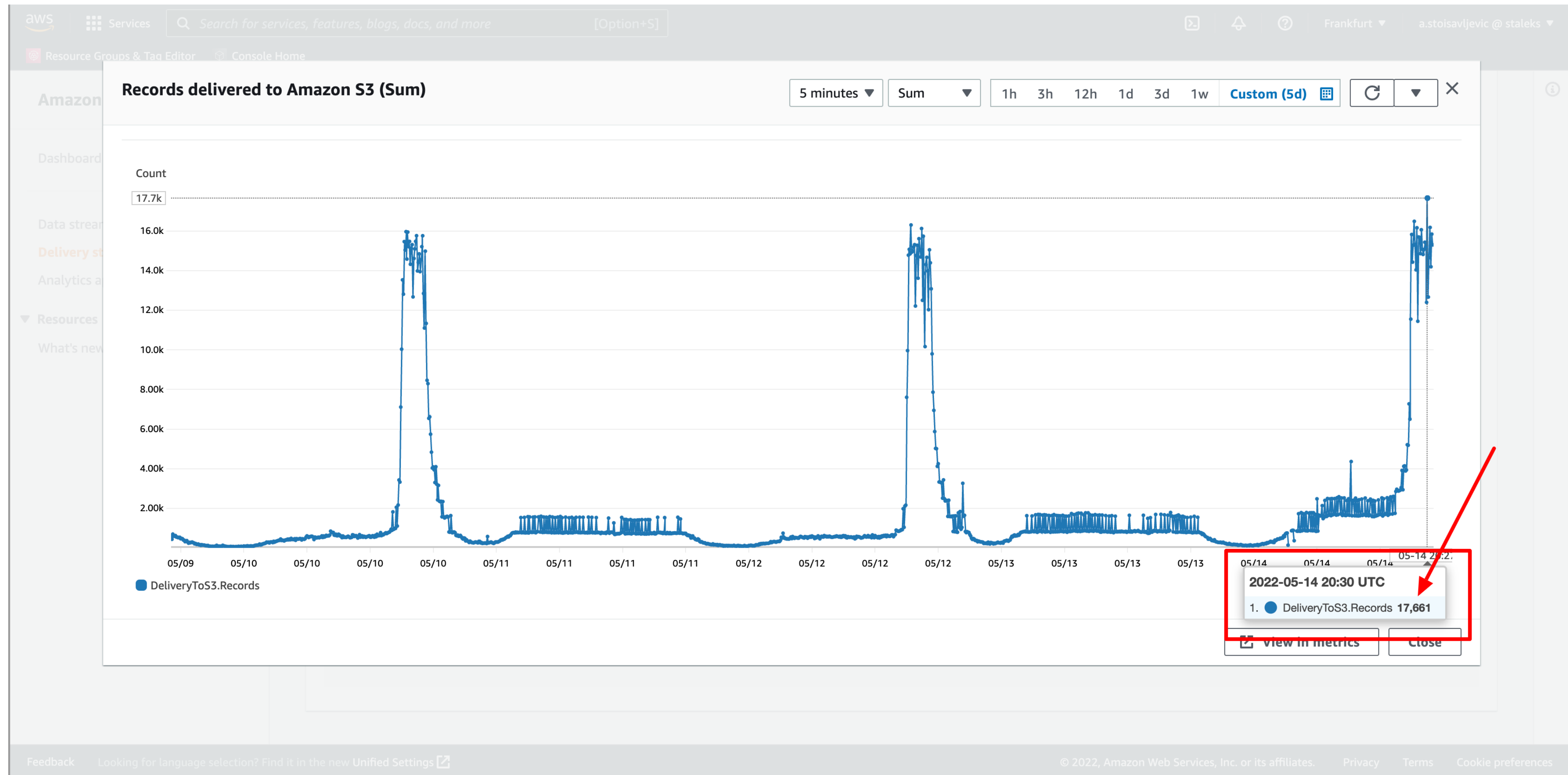
Day #5 - Saturday

“Pop corn time”



"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



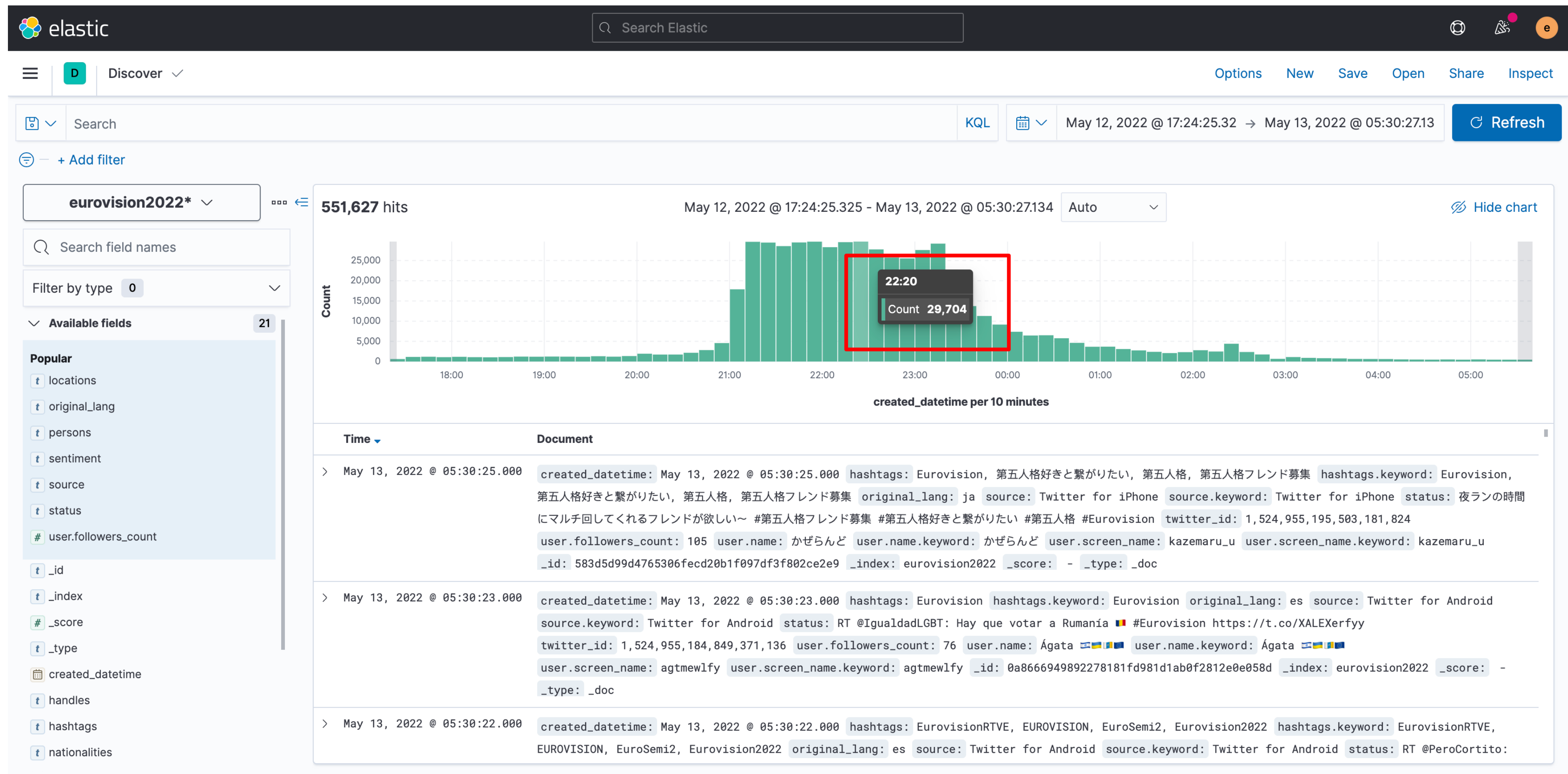


17K+ AWS Kinesis to S3 records delivered at FINAL (peak)*

* 5 min agg.

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



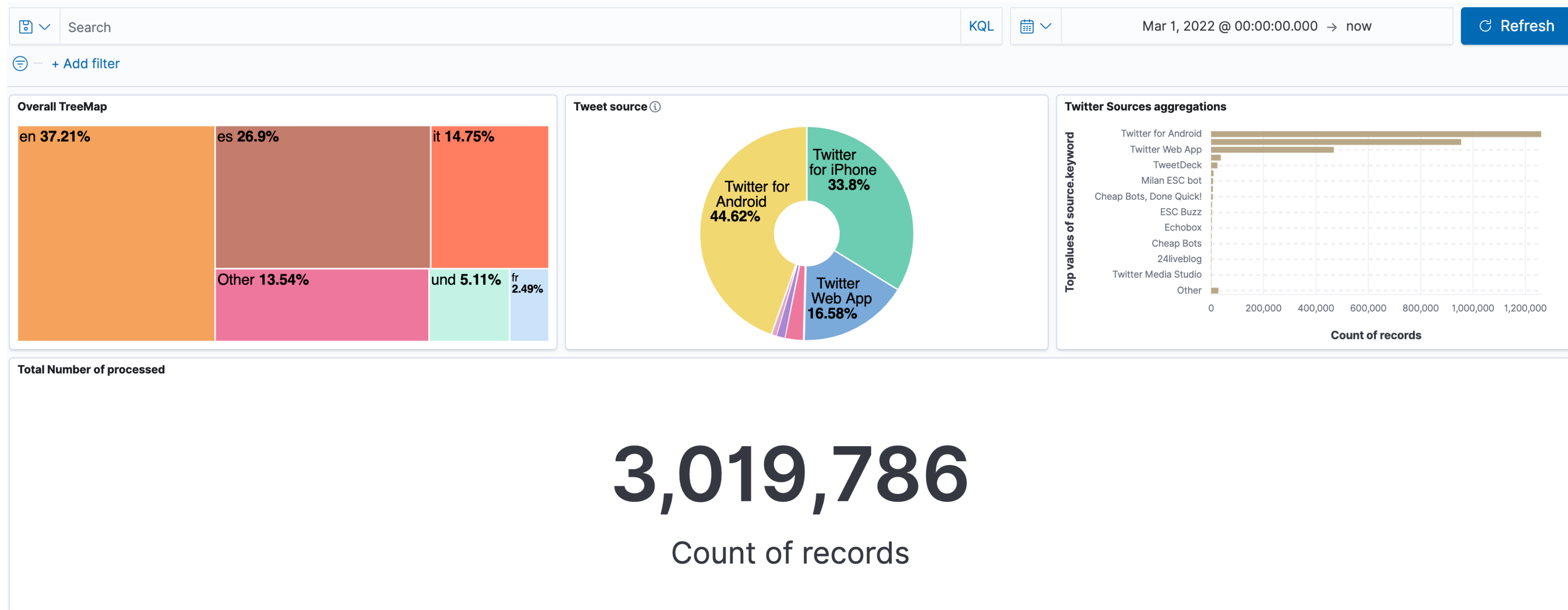


~30K “Eurovision Buzzer” documents indexed at FINAL (peak)*

* 10 min agg.

“How I beat The Lady Luck?” - Stoisavljević Aleksandar @ 2022





Interesting facts:

- language: 37% English, 27% Spanish, 15% Italian and less than 3% French speaking
- source: 44,6% Android, 33,8% iOS, 16,6% Web, etc. And there are bots :)

1st Semi-Final night

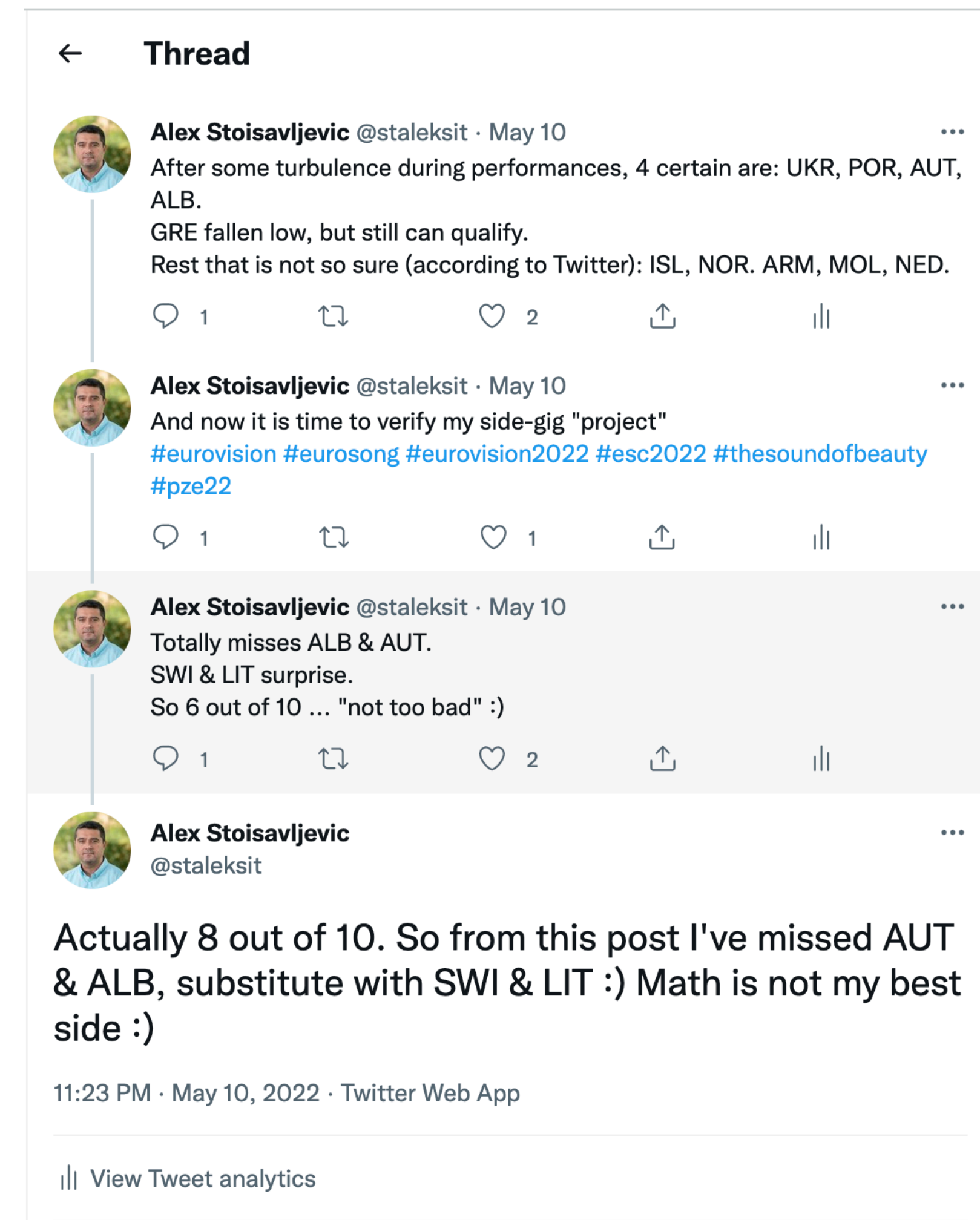
Prediction:

Ukraina, Portugal, Austria, Albania,
Greece, Island, Norway, Armenia,
Moldova and Netherlands

Actual:

Ukraina, Portugal, Austria, **Switzerland**,
Albania, **Lithuania**, Greece, Island,
Norway, Armenia, Moldova and
Netherlands

8 out of 10 !!!

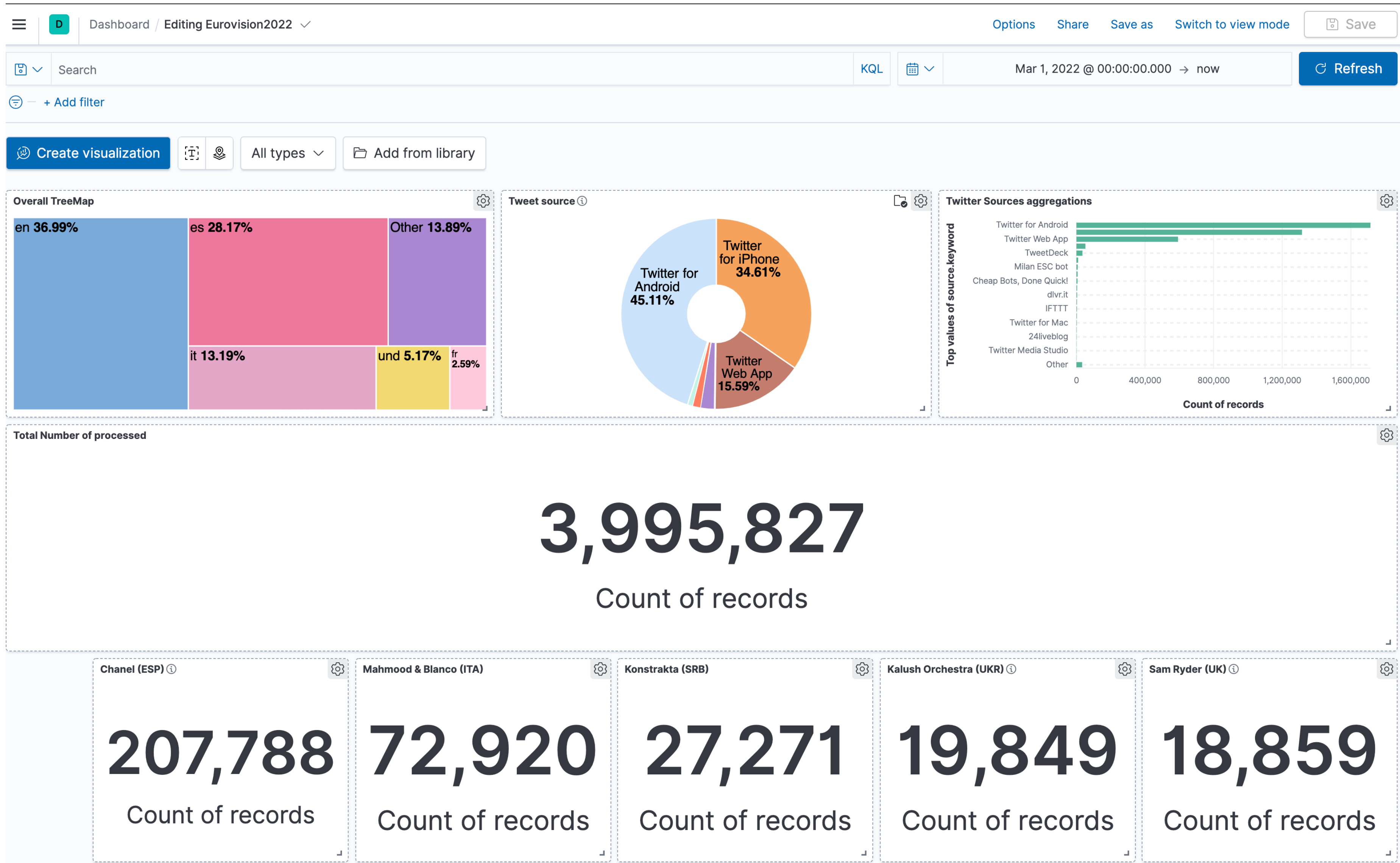




NOT TOO BAD !!!

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022





"Eurovision Buzzer" - Disclaimer

1. This presentation is an informative and is designed for entertainment purposes only.
2. Primary objective is to keep attendees informed about certain aspects of the IT industry.
3. I do not have business with any gambling organisation, nor do I endorse any form of real money gambling.
4. Prior to participating in any form of gambling, I recommend you to check the laws in your jurisdiction related to such activities, and to absolutely avoid gambling if you are underage.

[1/1] Singl Tip Kvota
6364 16-05 Netherlands - 2019 Eurovision
21:00 Pobednik 1 2,50

Kvota: 2,50
Uplata: 2000,00 RSD

Maks. isplata: 5000,00 RSD
Br. kombinacija: 1
Kod za isplatu: 132041

15-05 20:06:49 Safarikova
milos

POGODI NAJVECU KVOTU
I OSVOJI
1.000.000 RSD

Side project
WHY?

Side project
WHY?

Reasons

"My main job is not amusing for me as it was at the beginning!"

"I would like to develop/improve XYZ skill but it is not my job description."

"I get positive feedback about my idea from my peers/colleagues, but my boss, my employer doesn't provide me any support on this."

"I'm developer but I think I can find myself in a PRODUCT DESIGN/OWNER role, but we don't have such position open."

THAT'S WHY!

Side project WHY?

Reasons

Benefits

Working on side project **YOU** will show (and practice):

CREATIVITY - start with empty paper. All that you come to it's about you.

KNOWLEDGE - you will spend time to come to some solutions. Sometimes more than needed. But hey!, You will get deeper knowledge.

TESTING - there is no dedicated QA (get acquainted with testing pyramid)

TASK OWNERSHIP - you are all alone on YOUR side project (task break down, design, coding, testing, infrastructure)

Side project
WHY?

Reasons

Benefits

Self-
improvement

public static final String CERTAINTY = "change";

THAT'S WHY!

Side project WHAT & HOW?

Side project
WHAT & HOW?

Attention!

Side project IS NOT about GLOBAL SUCESS.

Side project IS NOT a hobby.

Side project IS NOT internship.

Side project IS NOT coding for equity.

Side project *IS most useful, constructive learning, self-development tool.*

Side project IS about **YOUR
CAREER SUCCESS.**

Side project
WHAT & HOW?

Attention!

Guidelines

SMALL - It can't "eat" a lot of your time

YOU - It reflects your **PASSION**.

YOUR CONDITIONS - it has to be under **YOUR** conditions.
Otherwise you are working for someone else.

WORKING - what ever you make, make it working. Or else this
is just code graveyard.

SHOWABLE - do brag yourself, to your partner/family/
colleagues/peers

That is a **drive** for the future!

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



Use familiar technology

Something close that you are familiar with (looks slicker, moves quicker and gives you the credibility). Do not underestimate domain knowledge.

Write down what project is about

From time to time perform SELF & SIDE PROJECT relationship check.

Make a plan

Try to stick to it. Use some tooling like e.g. Trello, GitHub Projects, ...

Side project
WHAT & HOW?

Attention!

Guidelines

Make it
happen

*Side project is not “entrepreneurship”
fail fast model.
You should make side project as a
SLOW SUCCESS!*

Side project
WHEN?

Side project
WHEN?

Discipline

Side project is all about YOU and it should reflect YOUR PASSION.

You have to identify and make yourself disciplined to squeeze these little moments and make things happen

In order to succeed, do a proper SELF-TIME management. Feel free to experiment.

Do not overlap your side project time with main job. Be aware and **DO NOT CHEAT! NEVER!**

Have 20% company time (steering, PDP, ...)? You are lucky one!

Side project
WHEN?

Discipline

When to
stop?

Check! No **PASSION?**
Stop doing it!

Conclusion & key takeaways

Thank You



astoisavljevic



@staleksit

"How I beat The Lady Luck?" - Stoisavljević Aleksandar @ 2022



Questions & Answers

Thank You



astoisavljevic



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How I beat “The Lady Luck”?

Why software developers need side project(s)?



9. - 11. Oktobar 2022, Rovinj, Hrvatska



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