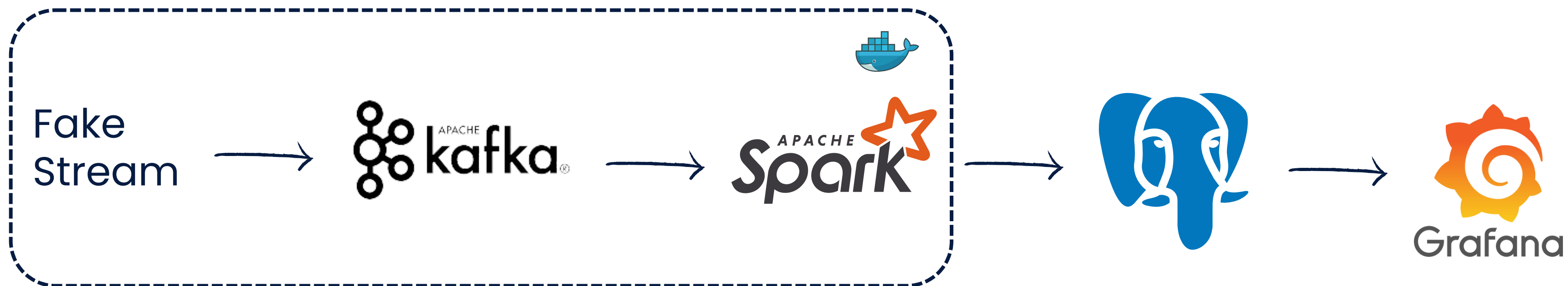# Social Media Analysis

Streaming processing using fake stream
data, Kafka, Spark, Postgresql, and Grafana

Farah Shadra

Stack

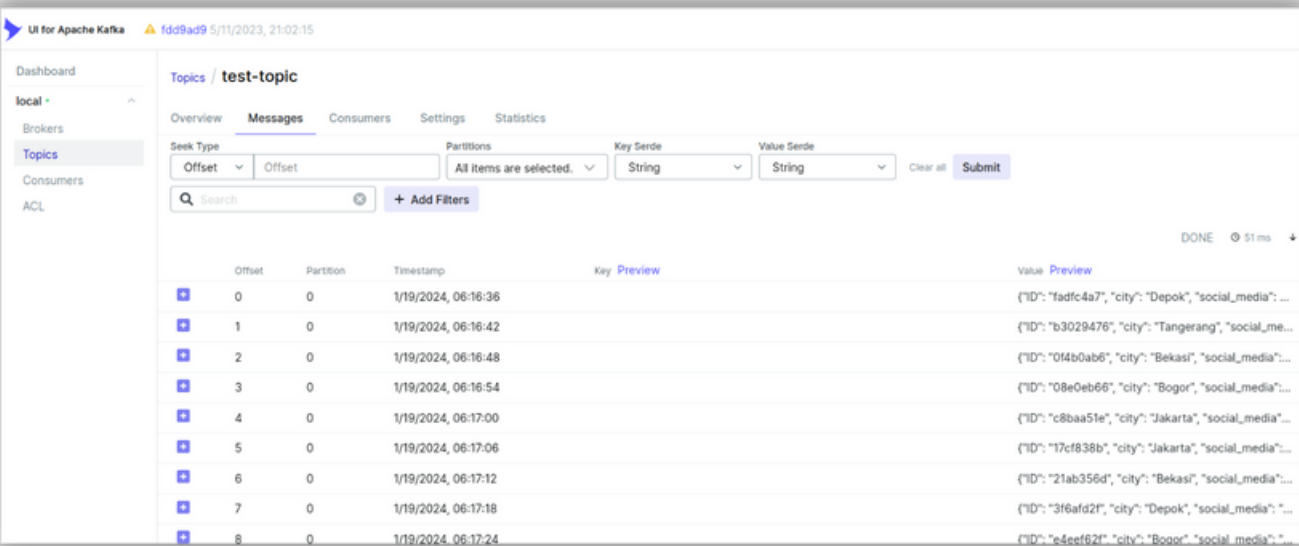| Ingestion | Processing | Storage | Dataviz |

Ingestion

Fake Stream

ID	Kota	Sosial_Media	Usage_count	Sales	Ts
1dd12	Jakarta	X	800	45	1705323357
1dd13	Tangerang	Instagram	200	123	1705323357
1dd13	Bogor	Facebook	300	5	1705323357

Event Produce

To Kafka Topic

Processing

Listen from Kafka Topic, cleaning, transformation, load to DB, etc

ID	Kota	Sosial_Media	Usage_count	Sales	Ts
1dd 12	Jakarta	X	800	45	12-01-2024
1dd 13	Tangerang	Instagram	200	123	12-01-2024
1dd 13	Bogor	Facebook	300	5	12-01-2024

Storage

Neon Serverless Postgresql Postgres instance
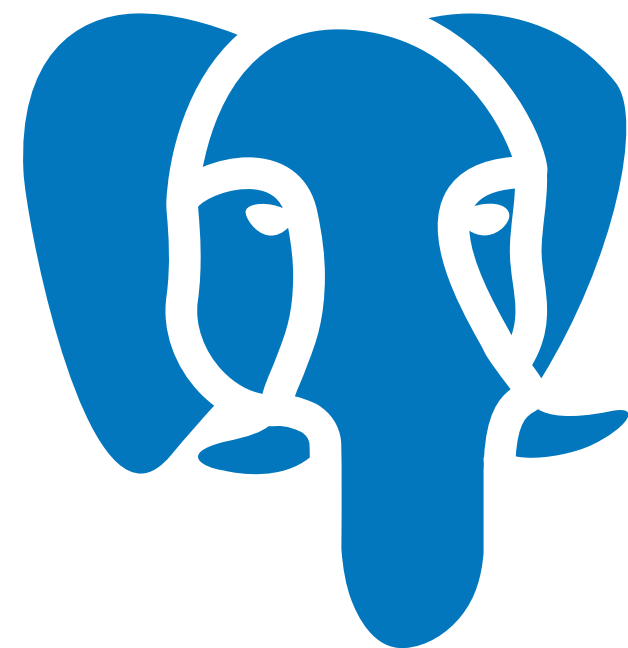
socmed_user_sales

| #	ID	Kota	Sosial_Media	Usage_Count	Sales	Ts
501	17b42ad2-46a6-4e59-9128-be00d2e689b9	Jakarta	Facebook	141	118	2024-01-19 07:16:38
502	8bb813c5-3f24-4807-932f-4f48f2ff2d4a	Bogor	TikTok	337	63	2024-01-13 16:34:05
503	c887fa5a-f7a2-4444-bf21-5db1f070be89	Bekasi	Facebook	246	147	2024-01-15 00:35:07
504	d447d7a1-85c7-4e7c-b9b0-cd587777077e	Depok	TikTok	532	122	2024-01-19 04:33:50
505	888911c9-2cb9-46ac-a79b-020c15b980b1	Bogor	Instagram	812	67	2024-01-16 12:33:32
506	fa74a295-5311-4998-8253-fb451920fd29	Jakarta	Telegram	82	73	2024-01-12 21:24:20
507	b0574607-0371-48e0-9387-2d0beb39560c	Tangerang	Telegram	74	96	2024-01-19 07:47:32
508	bf07674c-e187-44de-a636-12590975679e	Jakarta	Telegram	126	138	2024-01-17 23:12:07
509	09dc7325-f900-4019-9a77-f0cc4b92cbce	Tangerang	Facebook	287	80	2024-01-13 00:21:13
510	adb9b8c4-86d7-4d43-9156-4d04a5594a35	Tangerang	Telegram	58	141	2024-01-13 03:19:10
511	cdad381f-9bc3-4fe1-ad2e-bc8c6dbe44ee	Jakarta	Telegram	63	82	2024-01-18 14:37:53
512	9371782f-ac6d-437f-9f21-7dd873357299	Depok	Telegram	148	85	2024-01-15 00:51:17
513	f78626fe-fcf6-418f-b18e-6e6f2cf7b49d	Tangerang	Facebook	297	133	2024-01-18 05:28:52
514	9b897622-c6a2-4027-a8b9-a0258c795cc4	Jakarta	Instagram	671	85	2024-01-19 07:02:46
515	c48641a6-17f7-4130-b073-a0bd213cc627	Bekasi	Facebook	125	146	2024-01-18 05:11:18
516	eceee5c6-a0a8-4162-b905-489fbf9eee38	Tangerang	X	359	137	2024-01-16 05:40:33
517	518a117b-3300-49cc-9772-47abb4a93004	Depok	Instagram	781	145	2024-01-13 19:36:09

NEON

Dataviz

Lightweight, real-time, open source…
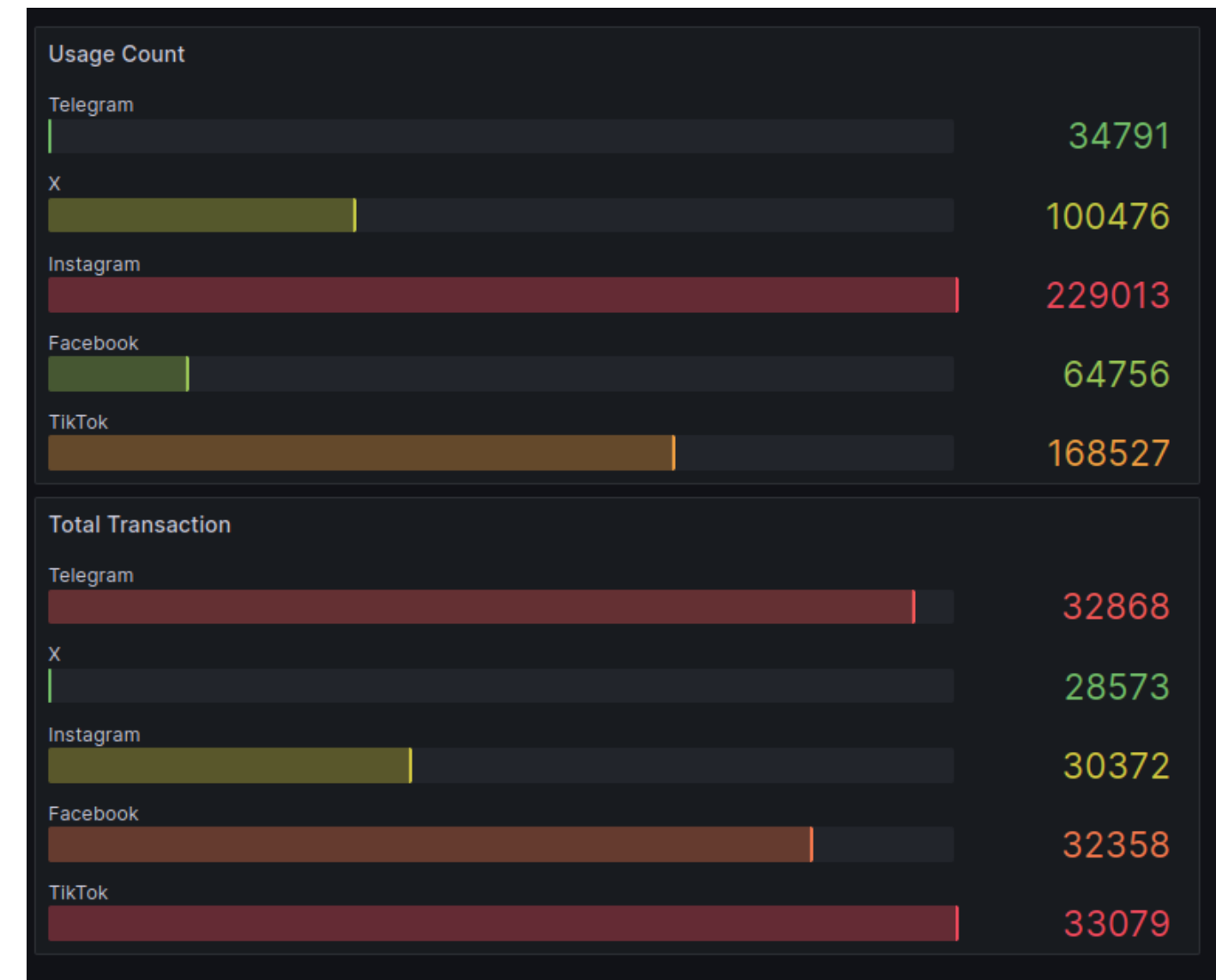
Refresh every 5 seconds to display dynamic data.

Thanks!

Any feedback?

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