

INTELLIGENCE IN ACTION: AI-DRIVEN NETWORKS

Checkpoint 1

Projeto em Informática 2024/2025

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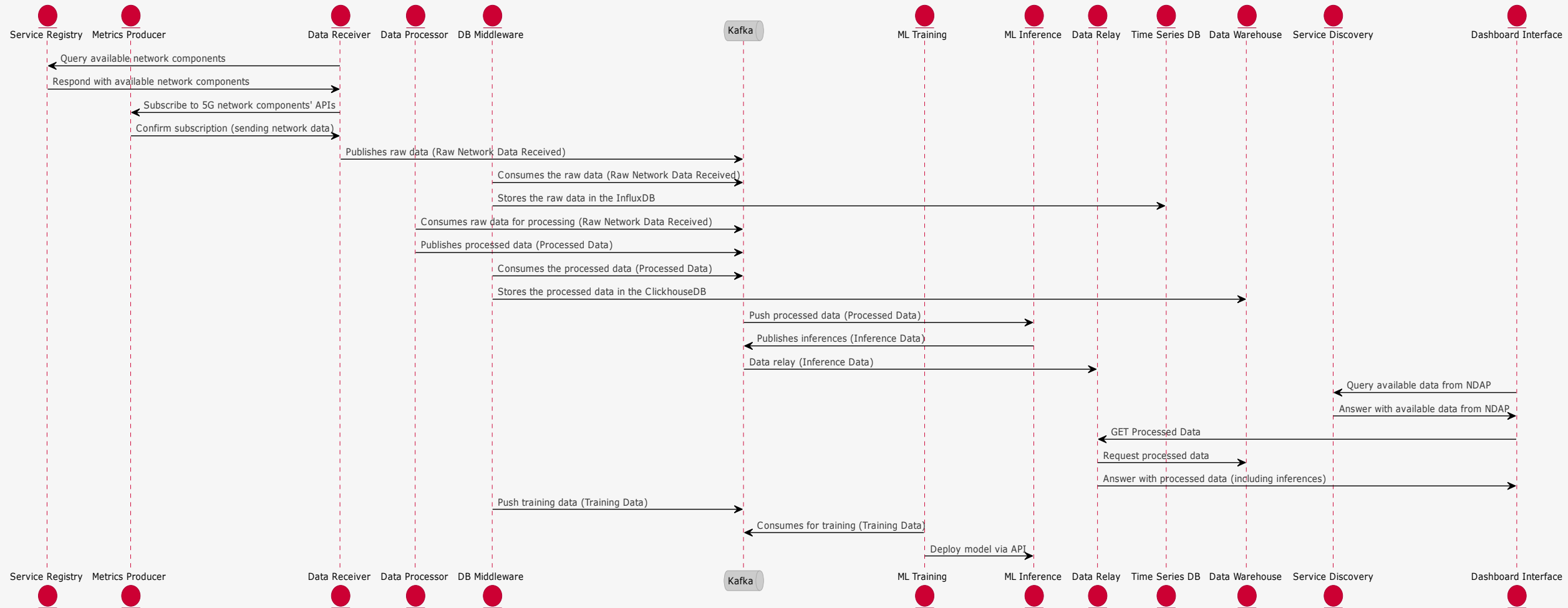
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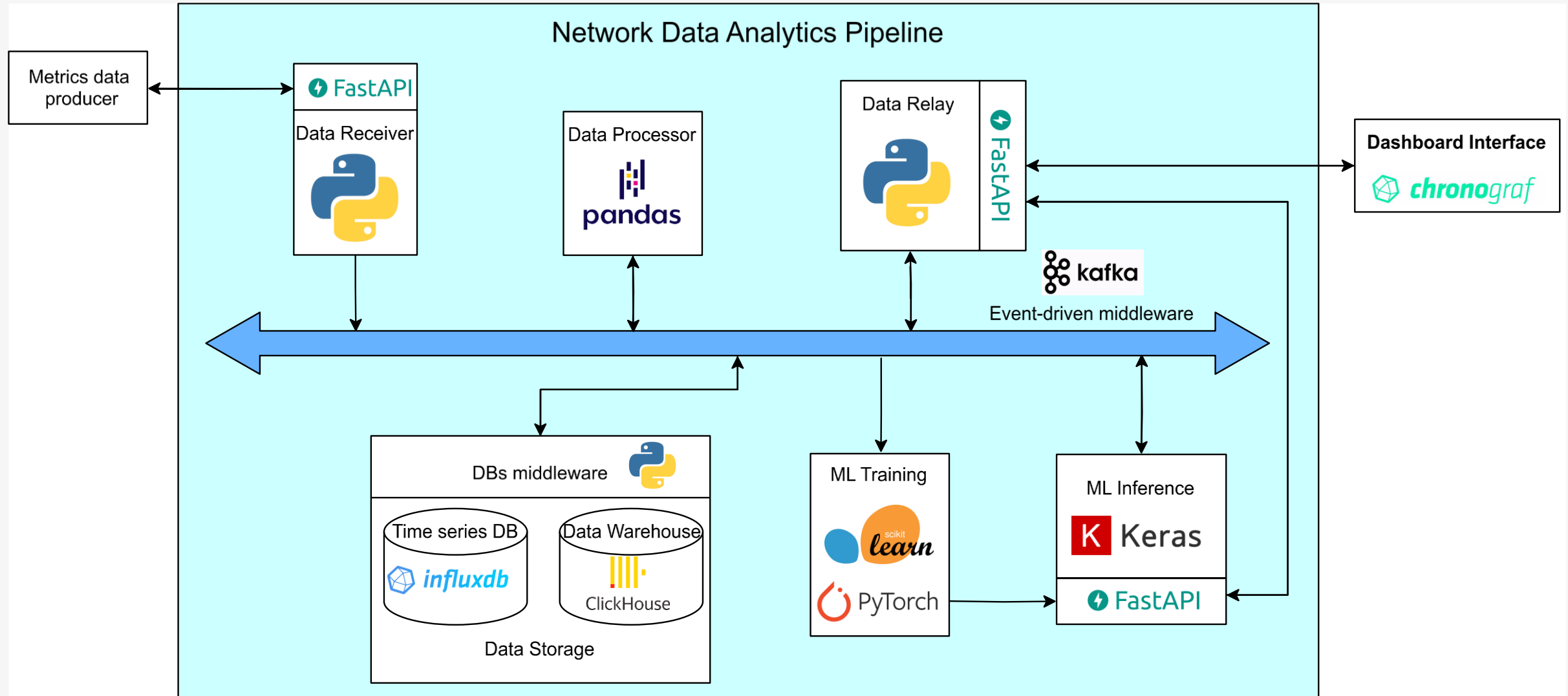


1. SYSTEM PROGRESS

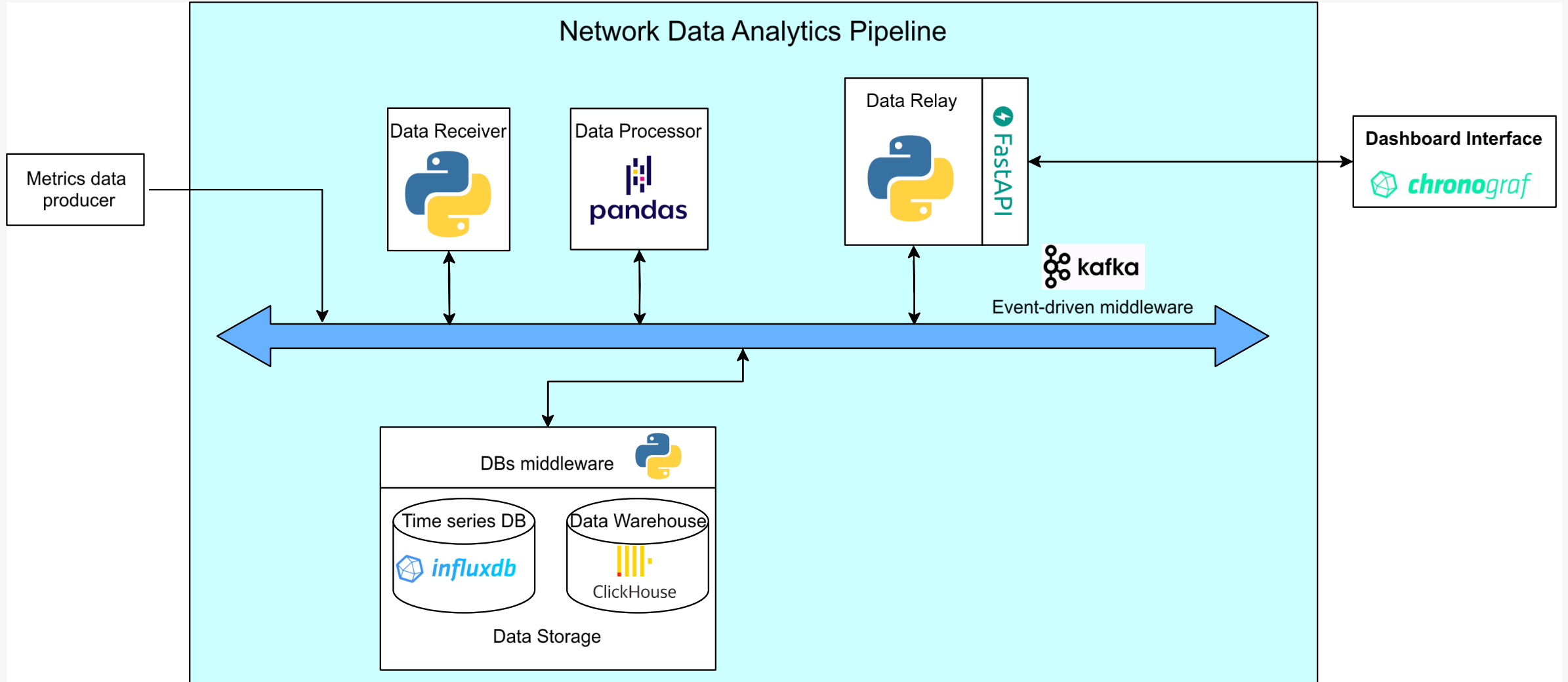
Data Flow Diagram



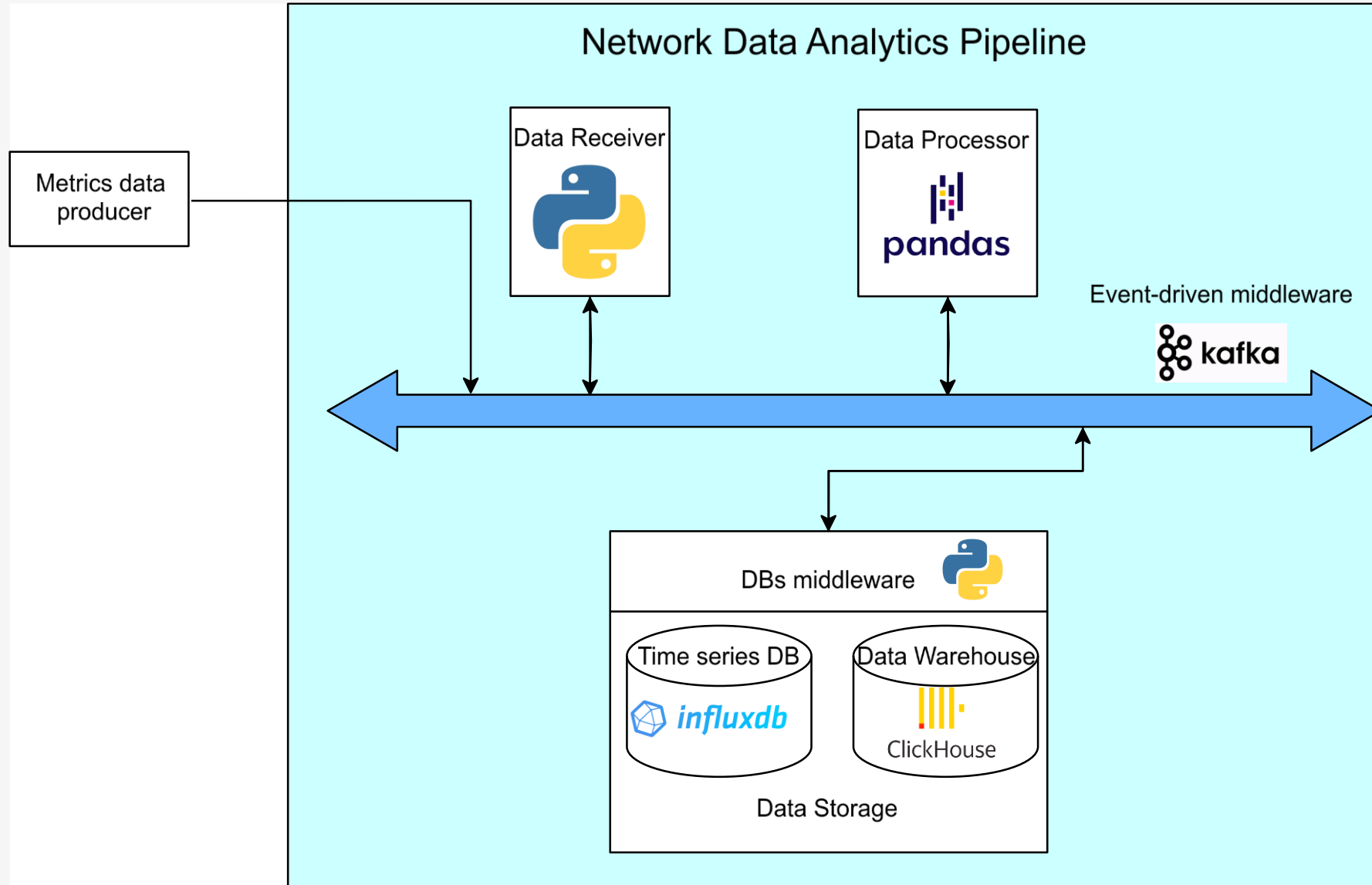
What has been done?



Minimum Viable Product



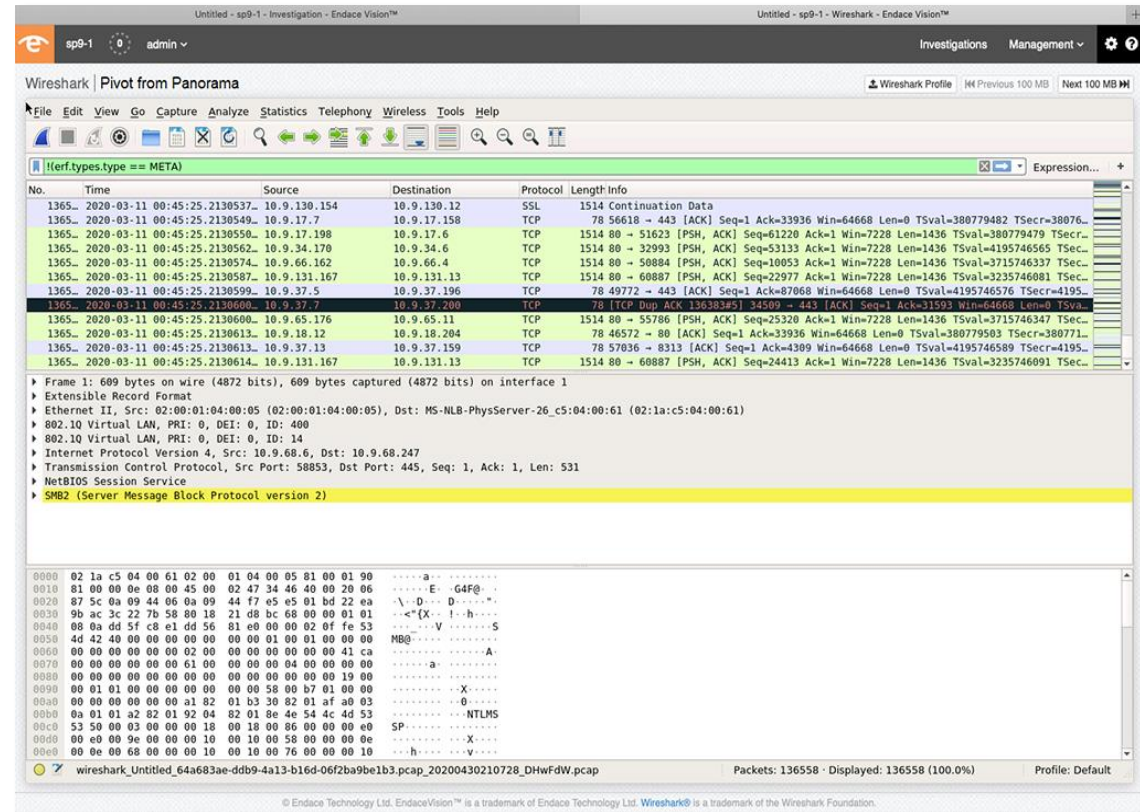
What we have been working on



2. PROBLEMS

PROBLEMS

- We were using **csv** (pre-processed data) files instead of the **pcap files** (raw data) as our source.
- Processing the raw data is challenging, dealing with many fields, outliers and different data types is proving to be a very arcane task.
- Displaying the data in the dashboard interface **might** be more challenging than anticipated.



3. STRATEGIES

STRATEGIES

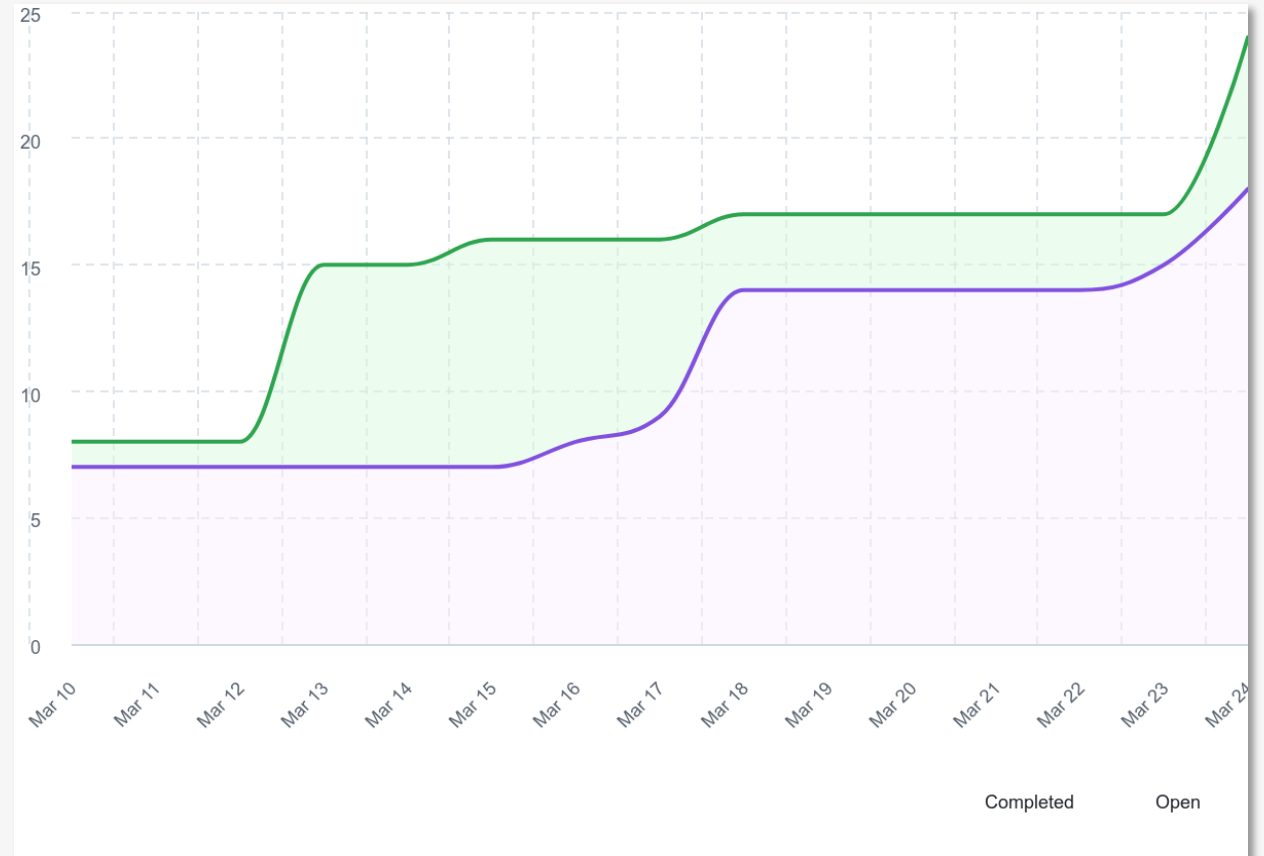
- **Refactoring** data producer to consume the new source information files.
- Examine **research papers** that utilized the same source dataset to gain a deeper understanding of the data processing methodology.
- Finalize the pipeline without integrating the APIs at this stage.



4. WORK DONE

Work done

- Setup Data Producer
- Setup Data Receiver
- Setup Databases Middleware
- Implement Communication Between Components via Kafka
- Setup both Databases



5. PLAN


Plan

Title	...	Priority	...	Size	...	Estimate	...
⦿ [FEATURE] Refactoring do Data Producer (Pcaps) #32		P0	▼		▼		3
⦿ [FEATURE] Refactoring do DBs Middleware #34		P0	▼		▼		3
⦿ [FEATURE] Refactoring do Data Receiver (Pcaps) #33		P0	▼		▼		1
⦿ [FEATURE] Dados Processados no DBs Middleware. #35		P1	▼		▼		3
⦿ [FEATURE] Data Relay #36		P2	▼		▼		3

⦿ PI_AI-Driven_Networks #17 ...

[FEATURE] Setup do Data Processor

P15🔍 Iteration 5



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THANK
YOU