World's fastest medallion load



in https://linkedin.com/in/brianbonk https://dcode.bi https://github.com/brianbonk







FastTrack Recognized Solution Architect Power BI 2022 >> Certified Trainer Data Platform

2018 >>



Microsoft Fabric



Handle streams



Real-Time Hub

Store data



OneLake

Unlimited Scale (query, ingestion Any data source Any data format and storage) KQL database Real-time Structured transformation og Streaming analytics in Key capabilities Semi-structured Near-Real-Time complicated data Free-text strcutures High performance Everything is indexed Low latency Timeseries database and partitioned High freshness



- 1. Over 1M/1 HR IIoT events, 30k tags, from 40 factories are streamed in real time with sub-second latency
- 2. Contextualization data (OPC asset metadata, shift details, weather, component cost, etc.) mirrored into Fabric OneLake

Analyze & transform

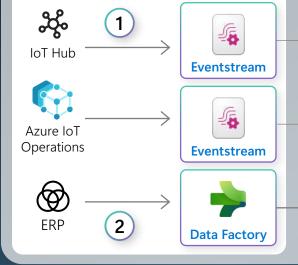
- 3. IIoT events are enriched in-motion with the Contextualization data and asset hierarchy from OneLake, providing clean and meaningful views
- 4. Enriched data is aggregated on the fly for long-term view

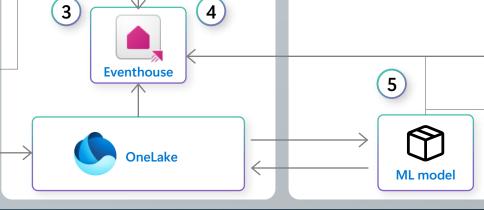
Train

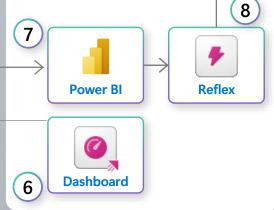
5. Build, train, and score ML models in real time, persisting the scored data in OneLake

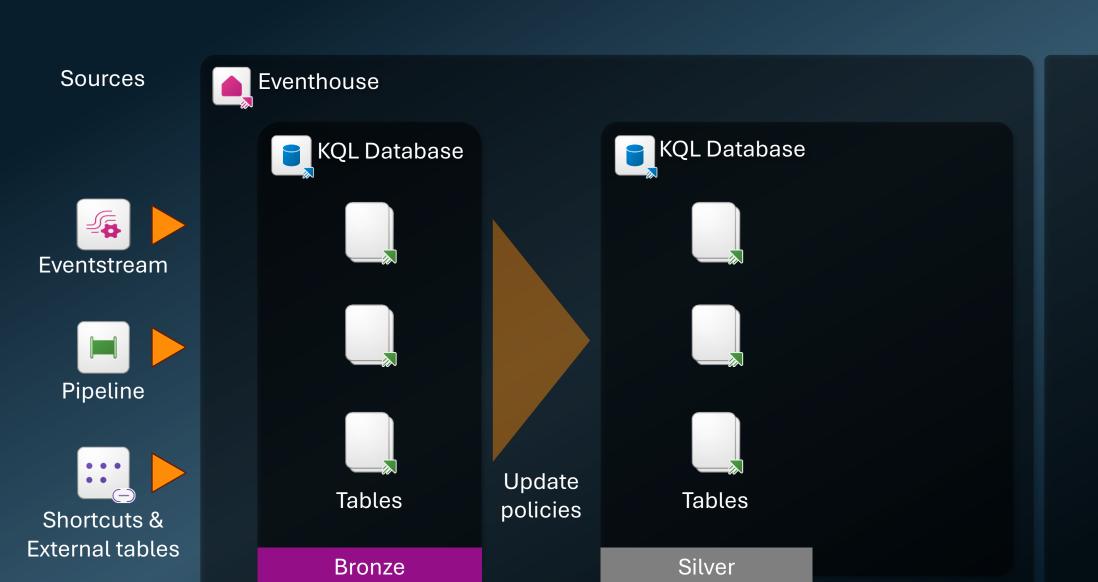
Visualize and activate

- 6. Real time dashboard of all factories with ability to easily shift from low granularity to high granularity view
- 7. Enhance organizational BI reports with high granularity enriched data
- 8. Notify users and activate automation in response to live indications from the factory floor



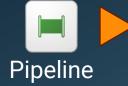




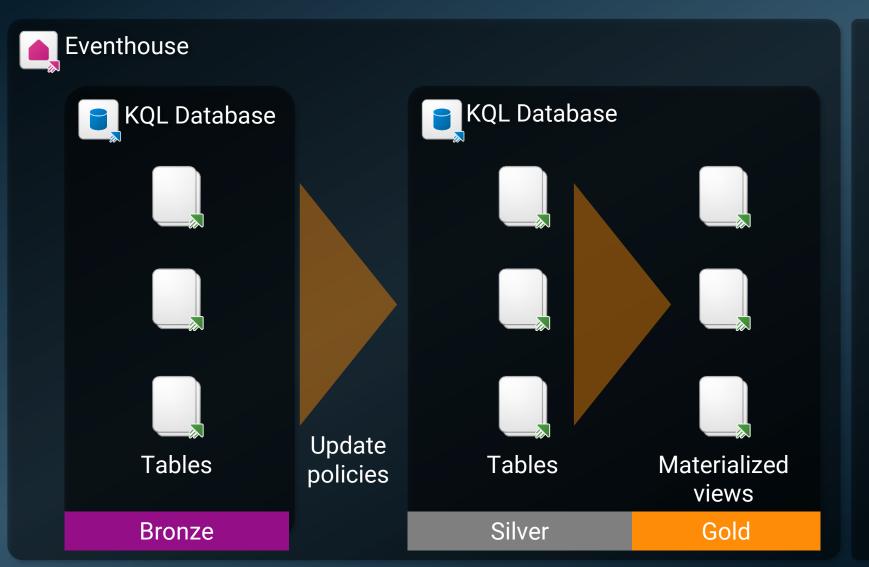






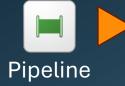




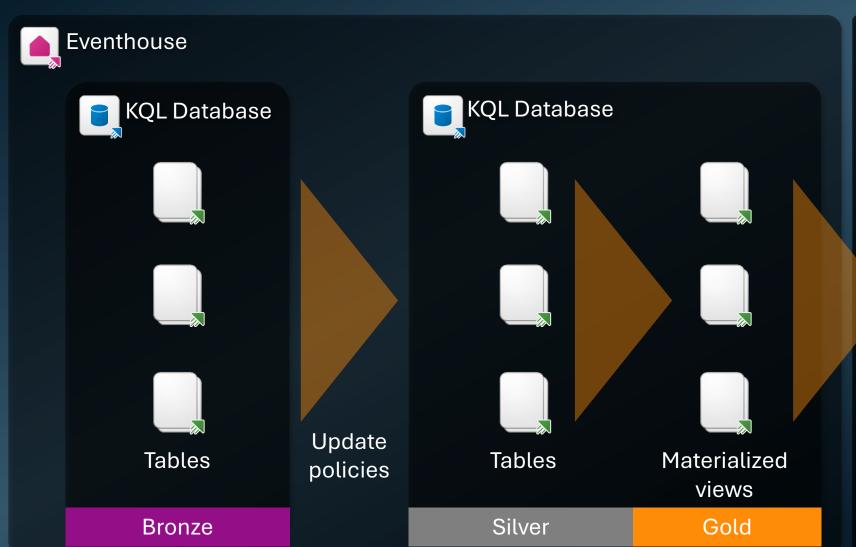












Real-Time Dashboard





Sub 1 second

Thank you

Connect with me at:

in https://linkedin.com/in/brianbonk

https://dcode.bi

https://github.com/brianbonk

