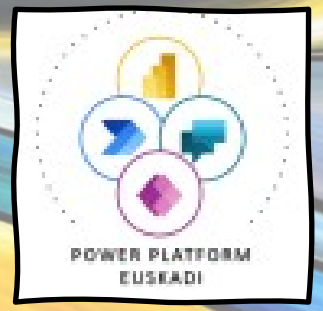
¿Delta Lake y Power BI sin Fabric?



¿QUIÉNES SOMOS?

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Microsoft Certified: Power BI Data Analyst Associate

Microsoft MVP Most Valuable Professional

Nelson López Centeno

/in/nelson-lopez-centeno

Microsoft Certified: Power BI Data Analyst Associate

Microsoft Certified: Azure Enterprise Data Analyst Associate

www.dataXbi.com

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AGENDA

Parquet

- Conector Parquet Power Query
- Comparación con CSV
- Crear un un fichero Parquet con Python

Delta Lake

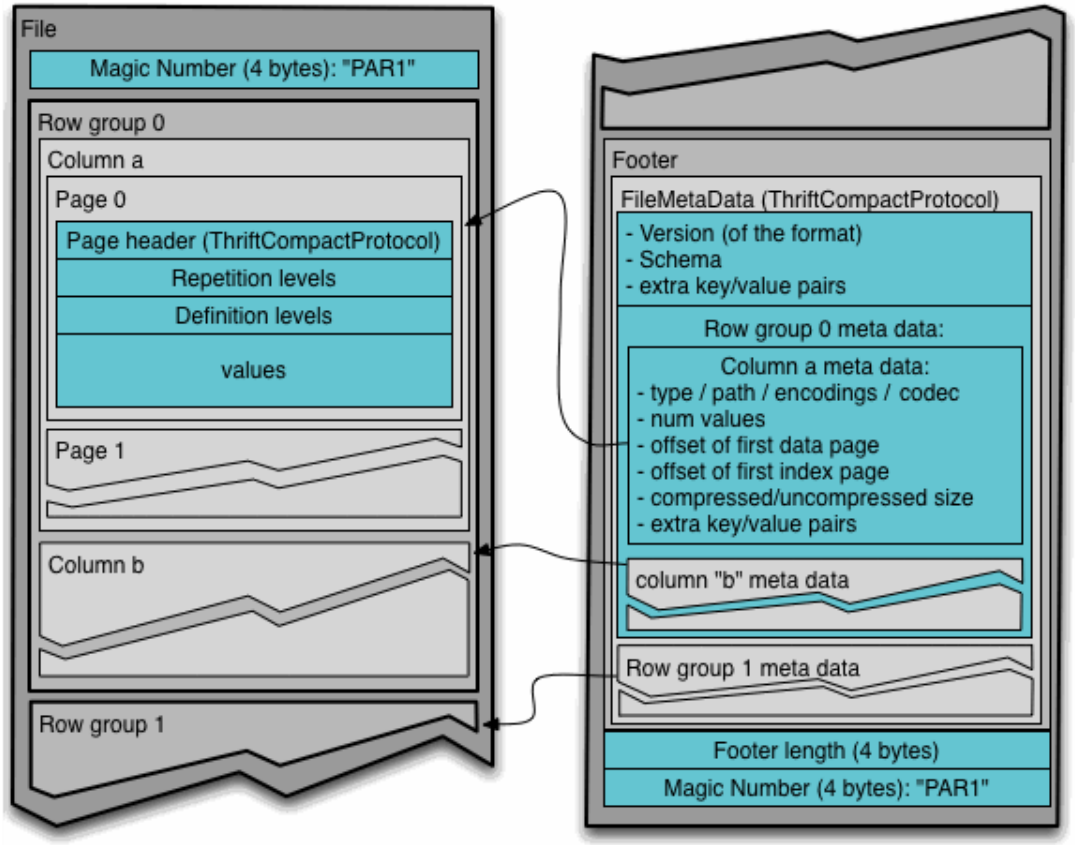
- Ejemplos con Python
- Conector Delta Lake Power Query
- Actualización incremental

Fabric

- Dónde encaja el Delta Lake
- Lakehouse
- Warehouse

PARQUET

https://parquet.apache.org



Almacenamiento columnar

Reducción del espacio de almacenamiento

- Codificación
- Compresión

Metadatos

Soporte para estructuras anidadas

DEMO - PARQUET

- Conector Parquet Power Query
- Comparación con CSV
- Crear un un fichero Parquet con Python

DELTA LAKE

https://delta.io

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A C I D

PARQUET

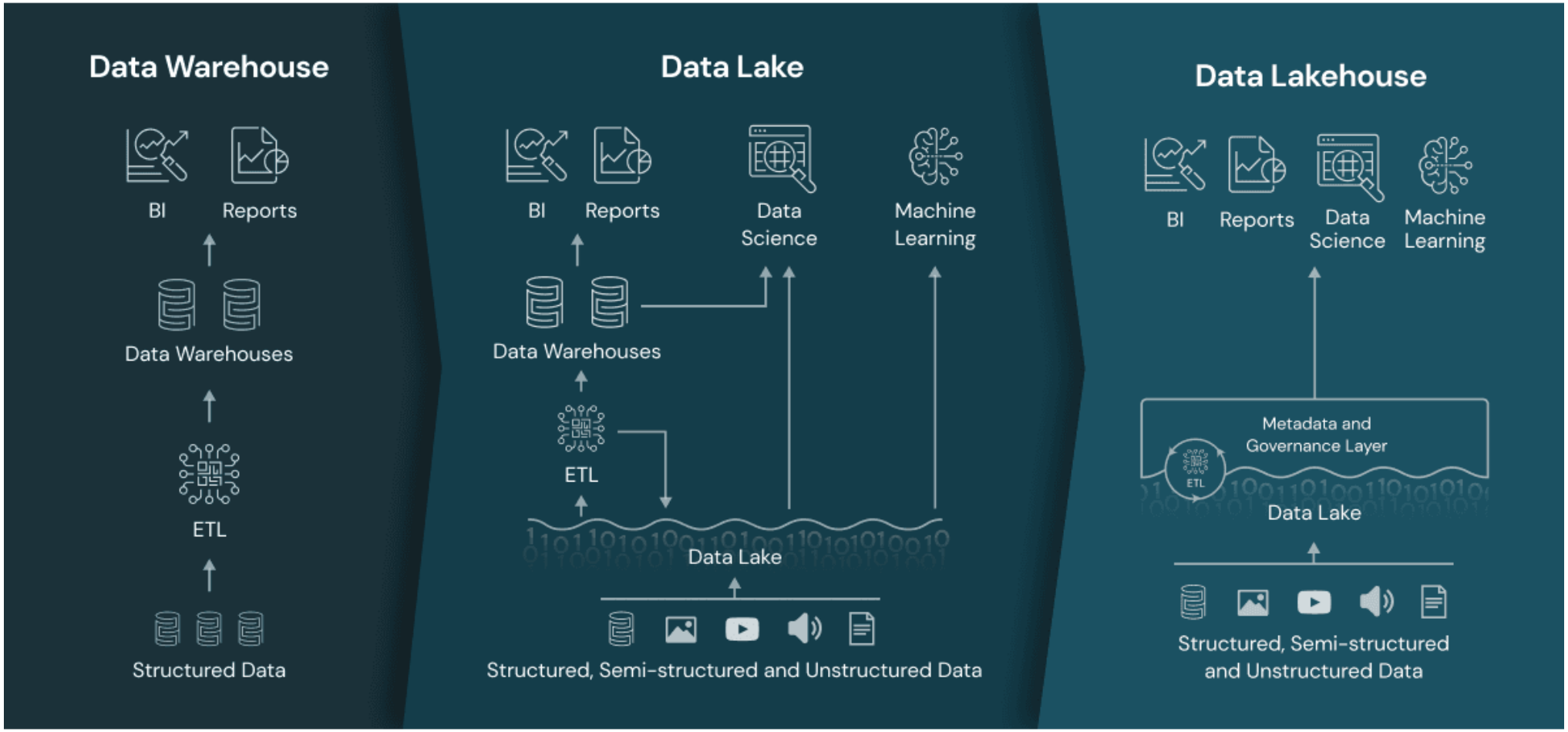
TRANSACCIONES

JSON

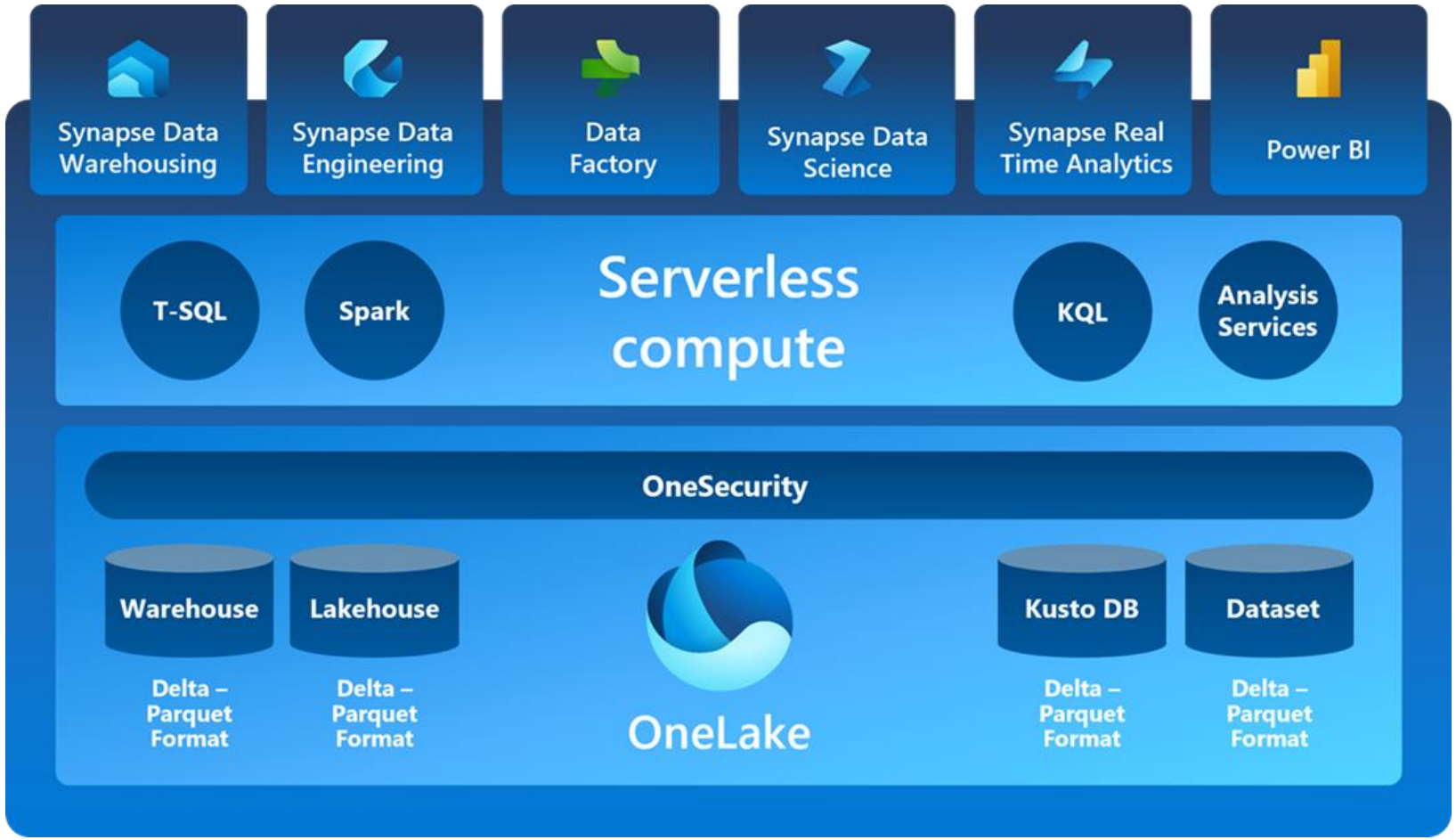
DEMO - DELTA LAKE

- Ejemplos con Python
- Conector Delta Lake Power Query
- Actualización incremental

LAKEHOUSE


Data Warehouse
BI
Reports
Data Warehouses
ETL
Structured Data
Data Lake
BI
Reports
Data Science
Machine Learning
Data Warehouses
ETL
Data Lake
Structured, Semi-structured and Unstructured Data
Data Lakehouse
BI
Reports
Data Science
Machine Learning
Metadata and Governance Layer
ETL
Data Lake
Structured, Semi-structured and Unstructured Data

FABRIC


Synapse Data Warehousing
Synapse Data Engineering
Data Factory
Synapse Data Science
Synapse Real Time Analytics
Power BI
T-SQL
Spark
Serverless compute
KQL
Analysis Services
OneSecurity
Warehouse
Lakehouse
Kusto DB
Dataset
Delta – Parquet Format
Delta – Parquet Format
OneLake
Delta – Parquet Format
Delta – Parquet Format

RECURSOS

Delta Lake

- https://docs.delta.io
- https://www.databricks.com/resources/ebook/delta-lake-running-oreilly
- https://github.com/delta-io/delta-rs

Blogs Chris Webb

- https://blog.fabric.microsoft.com/en-gb/blog/read-data-from-delta-lake-tables-with-the-deltalake-table-m-function
- https://blog.crossjoin.co.uk/2023/12/10/getting-different-versions-of-data-with-value-versions-in-power-query/
- https://blog.crossjoin.co.uk/2023/12/17/incremental-refresh-on-delta-tables-in-power-bi/