#### Azure Data Share

Power BI and Azure **Synapse Analytics** 

The dream team

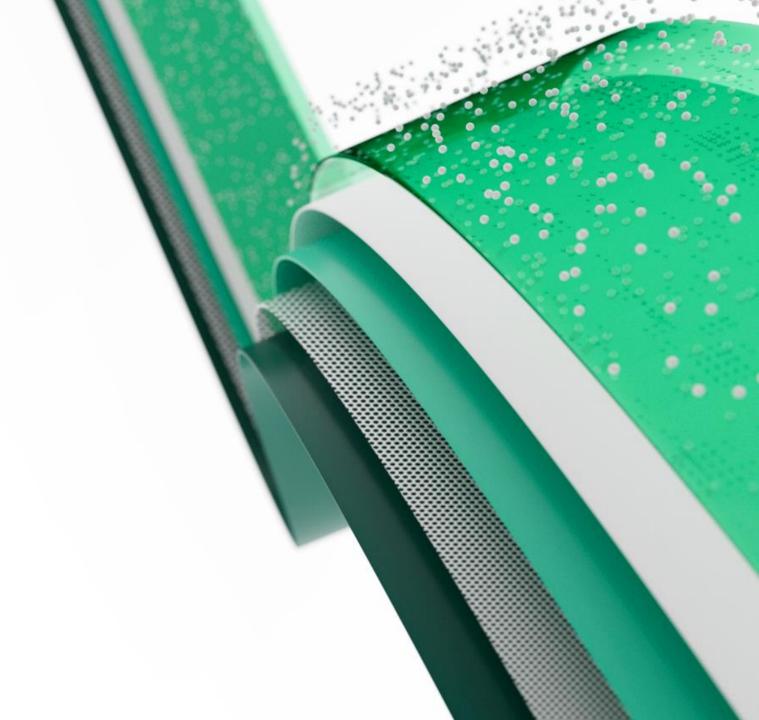


Power BI



## **Fabric Fantastic**

The Best of Power BI and Synapse



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#### GOLD





**∷** bonsai.tech

#### **BRONZE**



















#### Speaker bio(s)

#### Who are we?

- Microsoft MVP, Data Platform
- FTRSA Power BI
- MCT
- Sergeant, Royal Danish Air Force
- Rides motorcycles, Coffee geek

- Microsoft MVP, Data Platform
- MSc in Product Development and Innovation
- Certified Associate in Project Management (CAPM)®
- **Sergeant**, Royal Danish Air Force
- Parent, Foodie, Casual Gamer, Tech-aficionado





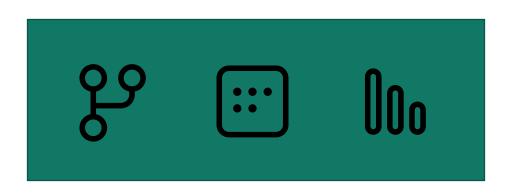


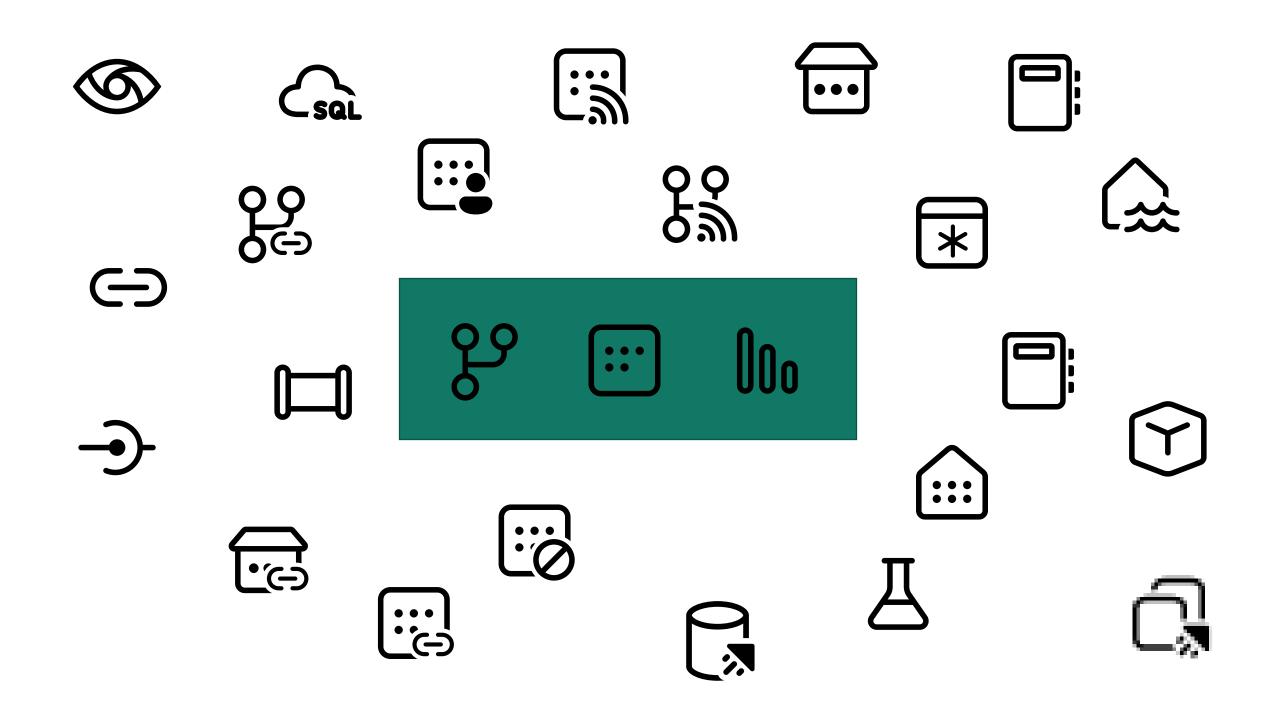
Mathias Halkjær Principal Architect









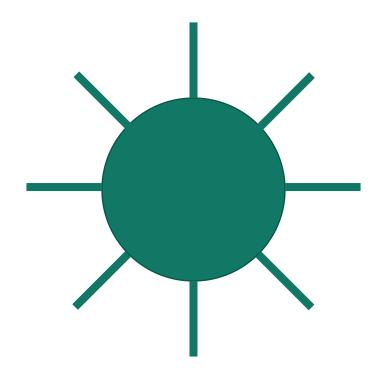






## Data driven organisations

There is no single and best version of a data warehouse

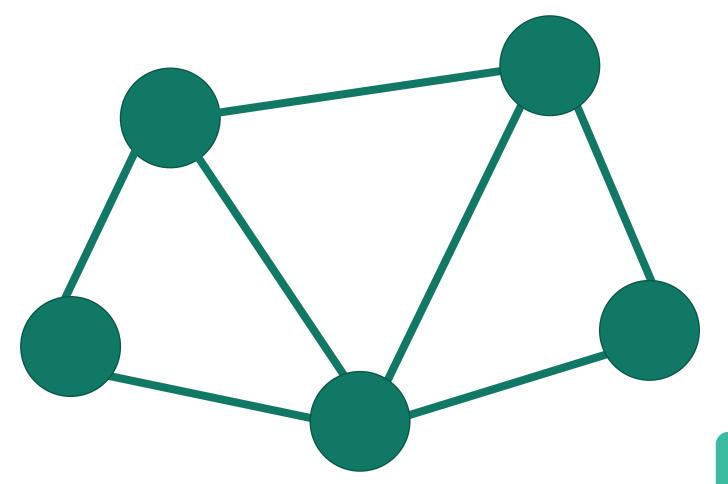


One centralized data & analytics team services all management and operational needs.



## Data driven organisations

There is no single and best version of a data warehouse

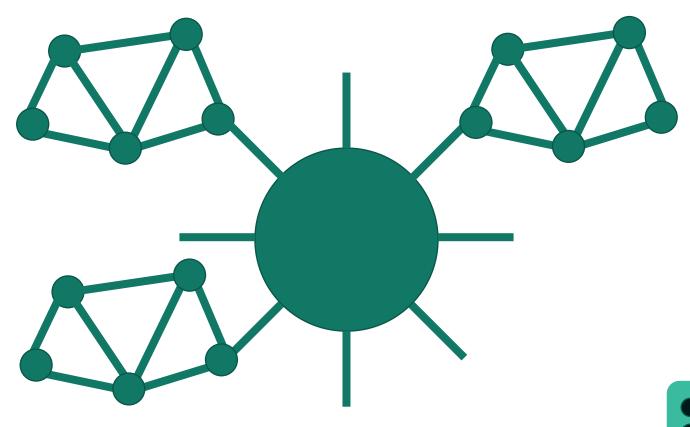


Decentralized activities within each unit, with uneven quality and ad-hoc governance



#### Data driven organisations

There is no single and best version of a data warehouse



Hybrid of centralized and distributed collaboration; Centers of excellence promotes best practice





#### Collaboration



#### **OneLake**

With OneLake at its core, Microsoft Fabric unifies data disciplines and enhance collaboration across all data professionals.

OneLake both ties together all the tools, experiences and technologies – and by doing so the people working in it.

Never has it been as easy to share ones important and impactful work instantly with the right colleagues.



#### Collaboration

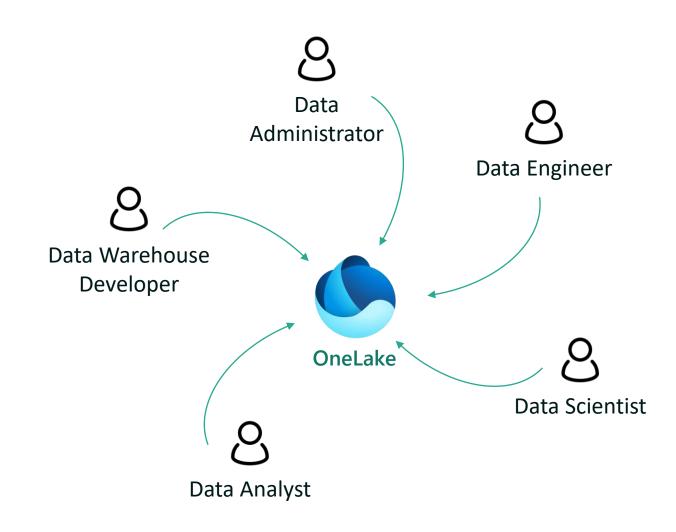


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#### **Data Factory**

Ingestion and orchestration

# PDataflows gen 2

Power Query (M) engine from Power BI to prepare, clean and transform your data

#### □ Data Pipelines

Ingest data, orchestrate your dataflows and execute Jupiter Notebooks



#### **Data Engineering**

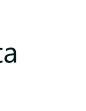
Write notebooks, Store data in lakehouse and define spark jobs



The traditional data lake to store huge amounts of data in various formats



Apache Spark Jupiter Notebooks to explore data and build Machine Learning Models





Define execution of Notebooks

#### **Data Science**

Machine Learning



#### **Experiments**

Use multiple models to track and validate thesis' and govern your models for accuracy



#### Model

Build Machine Learning models





#### **Notebooks**

Apache Spark Jupiter Notebooks to explore data and build Machine Learning Models

#### **Data Warehouse**

The "SQL" server for delivering data to the business



The "SQL" server to provide capabilities like tables, views, stored procedures, functions and security to the business users and applications



#### Real-time Analytics

Get near-real-time insights from IoT devices and other streaming sources



#### **KQL** Database

Extremely fast storage and querying of structured and unstructured data



#### KQL Queryset

KQL queries in the data to provide new insights in near-real-time delivery





Capture data from various streams, transform it and store it several places – all at once

#### **Power BI**

Reporting and analytics based on OneLake and the new Direct Lake storage mode

## **100** Direct Lake

Instant rendering with Direct Lake, the most ambitious data processing engine ever.

## **100** Power BI

Reports and visualisations (as we are used to)



Chat GPT engine to help us build reports and visualisations (not available yet)



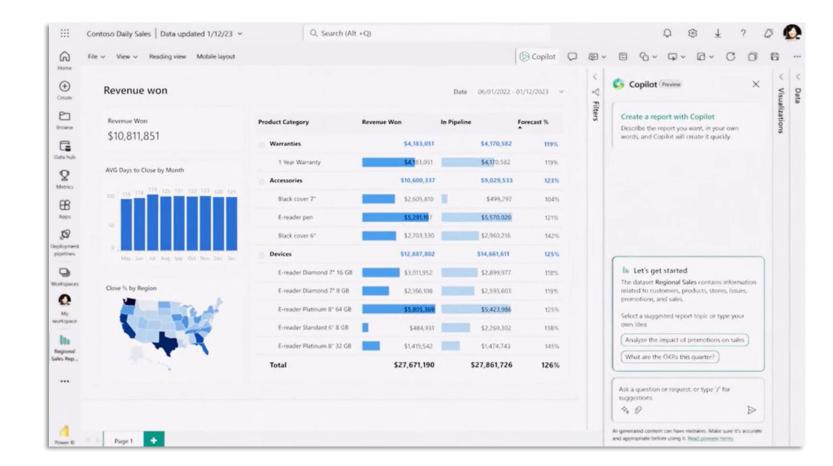
## **Copilot in Power BI**

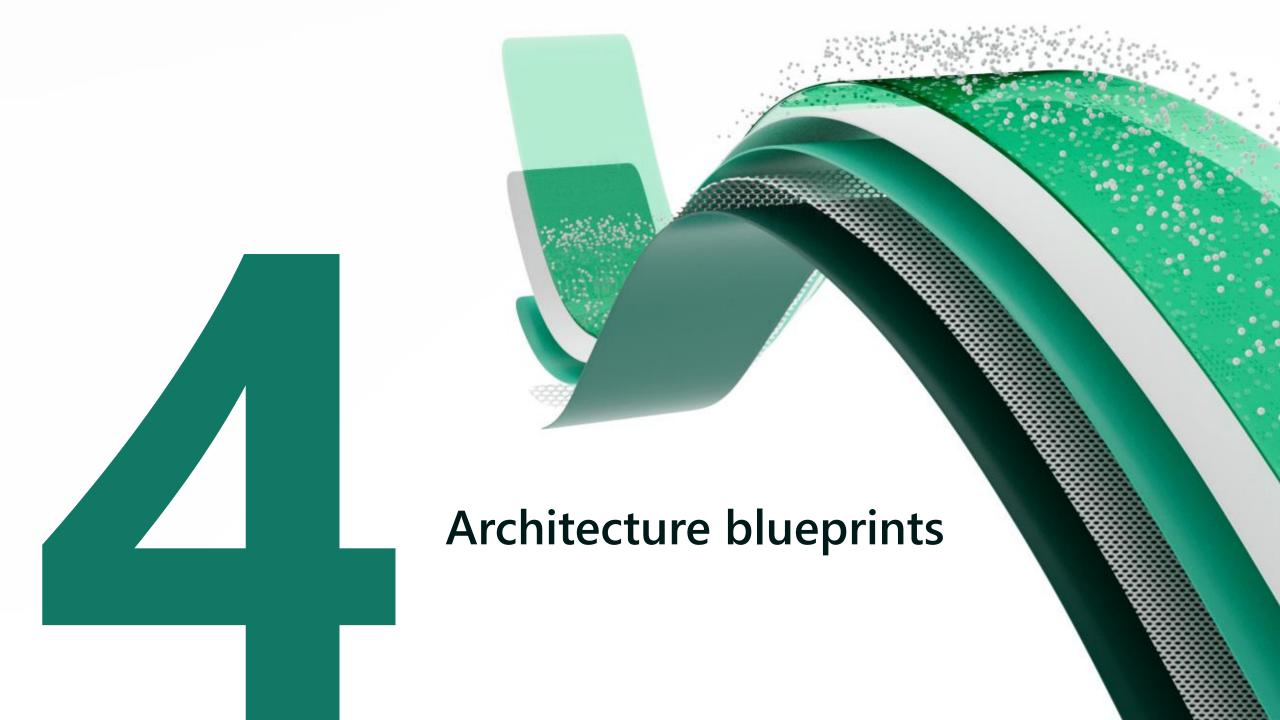




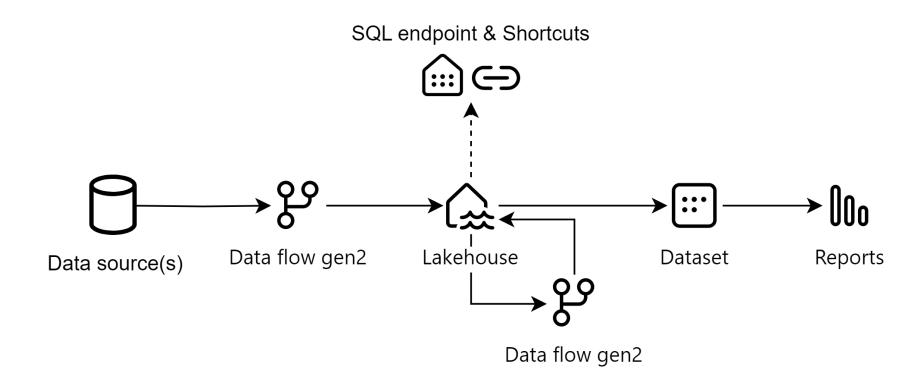
Create a report, from a simple text prompt with Copilot for Power BI – and much more!

Using Copilot, you can simply describe the visuals and insights you're looking for, and Copilot will do the rest – Enabling you to get more done and create more value from their data.

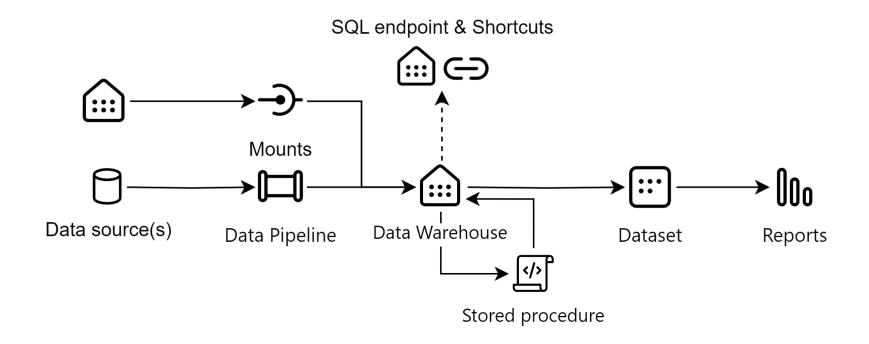




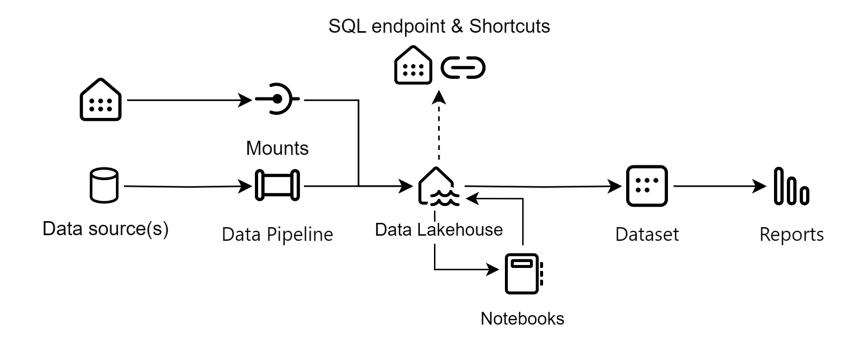
Simple Solution



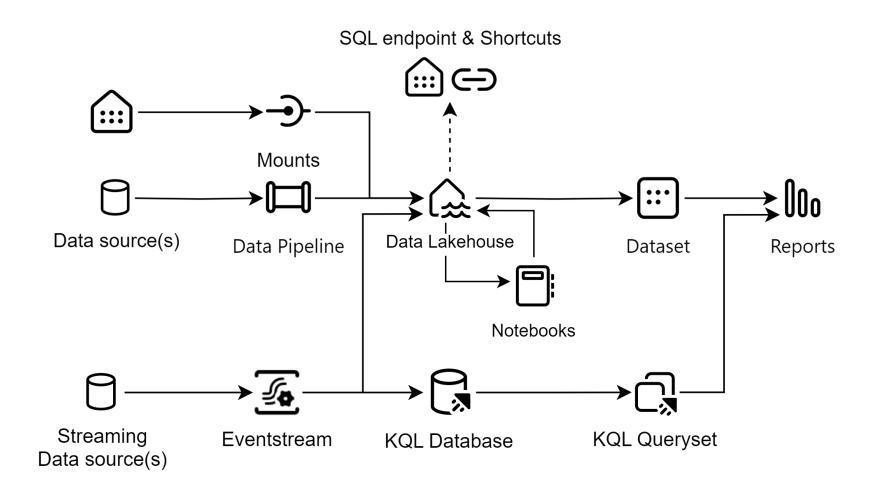
SQL-based Enterprise Data Warehouse



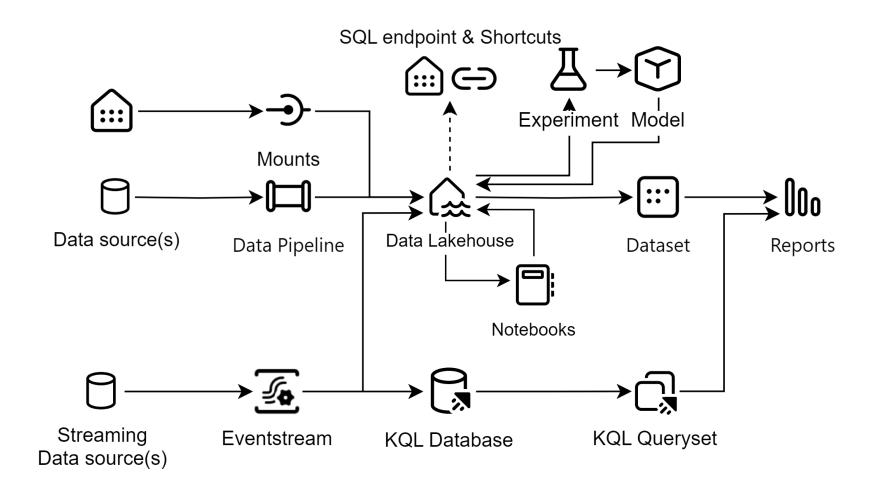
Data Lakehouse



Data Lakehouse + Real-time Analytics



Data Lakehouse + Real-time Analytics + Machine Learning Workflow







## **Pricing and Consumption**

Capacity planning

Storage: \$23 / TB / month



SKU	Capacity unit (CU)	Pay-as-you-go (hourly)	Pay-as-you-go (monthly)
F 2	2	\$0.36	\$262.80
F 4	4	\$0.72	\$525.60
F 8	8	\$1.44	\$1,051.20
F 16	16	\$2.88	\$2,102.40
F 32	32	\$5.76	\$4,204.80
F 64	64	\$11.52	\$8,409.60
F 128	128	\$23.04	\$16,819.20
F 256	256	\$46.08	\$33,638.40
F 512	512	\$92.16	\$67,276.80
F 1024	1024	\$184.32	\$134,553.60
F 2048	2048	\$368.64	\$269,107.20