



Microsoft Fabric Guidebooks



Data Warehouse

“Microsoft Fabric is a new paradigm in how we work with data – it goes beyond BI as we know it.”

“It is probably the biggest innovation in data analytics since Power BI”

Mathias Halkjær
Principal Architect





Microsoft Fabric



Data Factory



Synapse Data
Engineering



Synapse Data
Warehouse



Synapse Data
Science



Synapse Real-Time
Analytics



Power BI



Data Activator
(coming soon)



OneLake

Collaboration

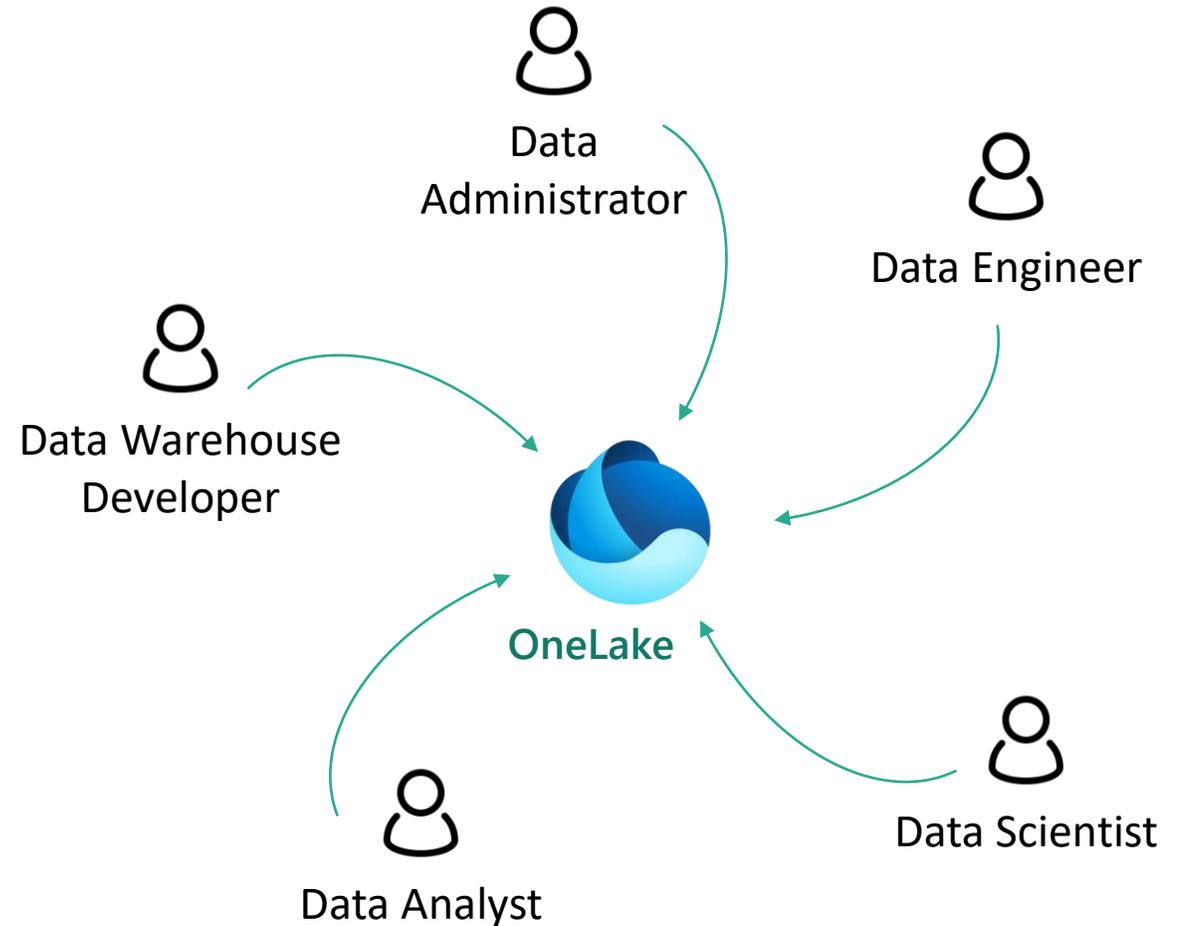


ONELAKE

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.



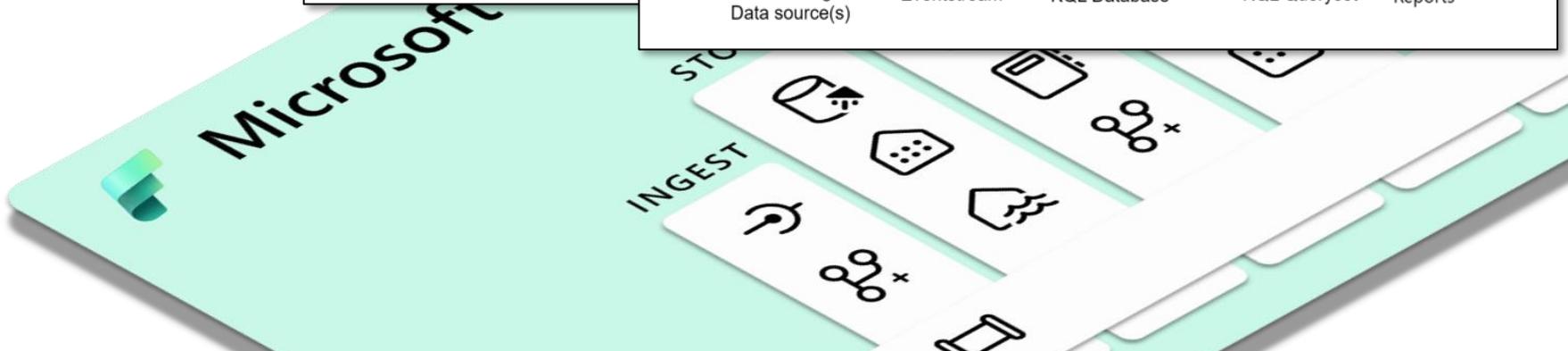
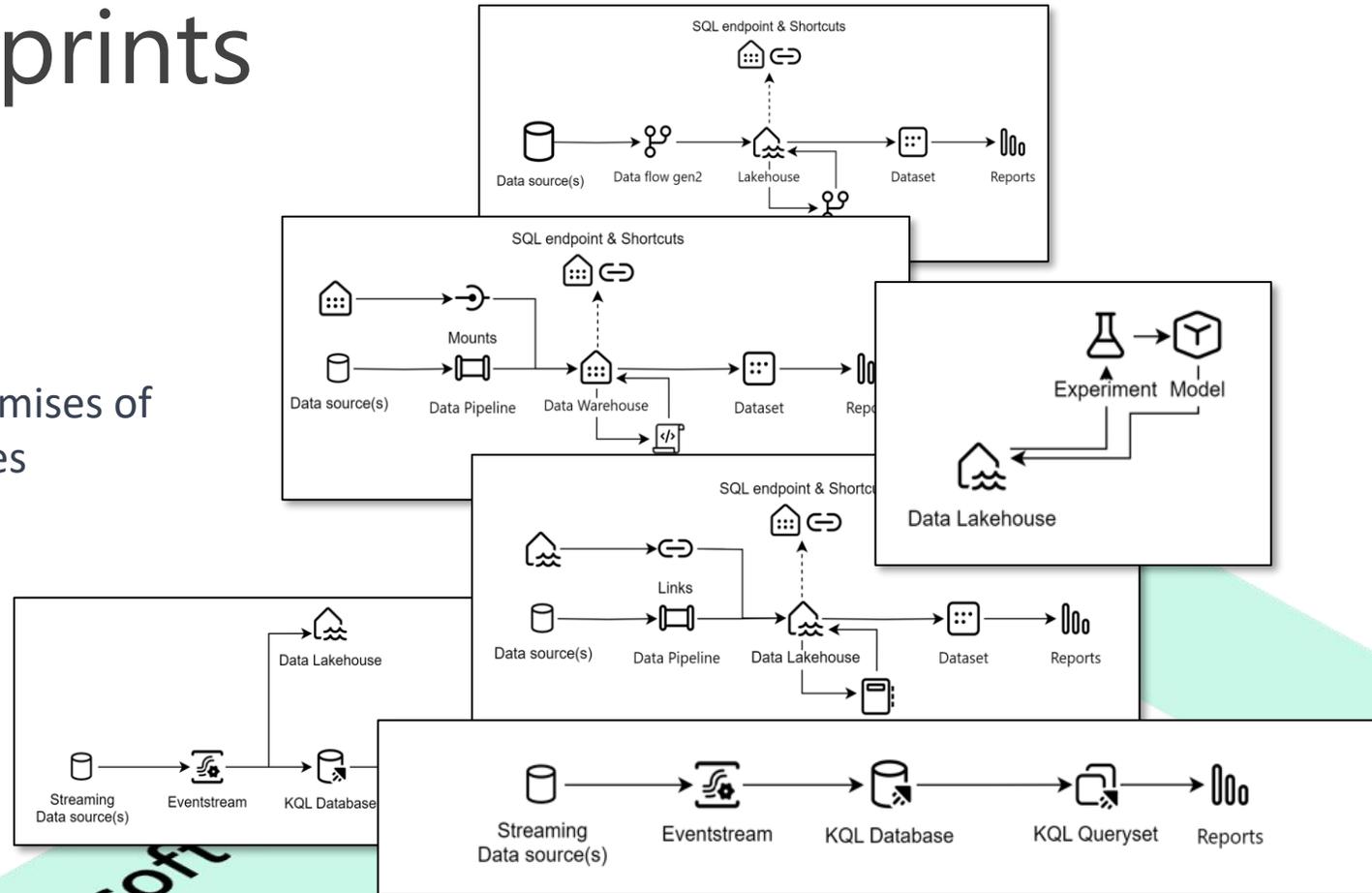


Architecture blueprints

ALL

“One Architecture” is one of the inaugural promises of Microsoft Fabric, that in many ways streamlines architectural complexities.

It does, however, present a variety of options and patterns, enabling users to customize their experience and maximize its potential according to their needs.



Capacity & pricing



CAPACITY



DOMAIN



WORKSPACE

Microsoft Fabric offers a variety of purchasable capabilities divided into SKUs, each providing unique computing power quantified by Capacity Units (CU).

Fabric features two SKU types:

- **Azure** – Billed per second with no commitment.
- **Microsoft 365** – Billed monthly or yearly, with a monthly commitment

| SKU* | Capacity Units (CU) | Power BI SKU | Power BI v-cores |
|-------|---------------------|--------------|------------------|
| F2 | 2 | - | 0.25 |
| F4 | 4 | - | 0.5 |
| F8 | 8 | EM/A1 | 1 |
| F16 | 16 | EM2/A2 | 2 |
| F32 | 32 | EM3/A3 | 4 |
| F64 | 64 | P1/A4 | 8 |
| F128 | 128 | P2/A5 | 16 |
| F256 | 256 | P3/A6 | 32 |
| F512 | 512 | P4/A7 | 64 |
| F1024 | 1024 | P5/A8 | 128 |
| F2048 | 2048 | - | 256 |

Organization



CAPACITY



DOMAIN



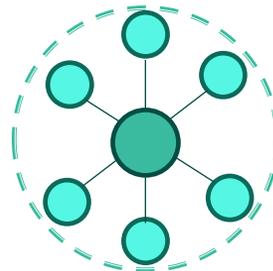
WORKSPACE

Warehouses, Lakehouses, Data Marts, Pipelines and Notebooks. Microsoft Fabric launched with more new gadgets and technologies than we could have ever dreamed of.

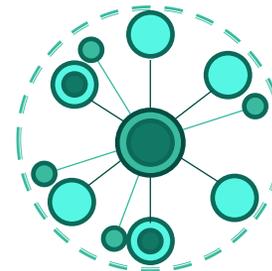
However, it's essential that as organizations, we don't overlook the foundational aspects such as our internal structure, objectives, and strategic planning.

One common organizational decision to consider when deploying a data platform like Fabric, is to choose between a centralized, decentralized, or hybrid implementation approach.

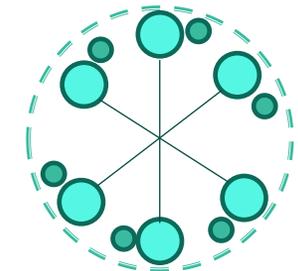
ENTERPRISE



HYBRID



SELF-SERVICE





Microsoft Fabric



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OneLake

Synapse Data Warehouse

The Data Warehouse in Microsoft Fabric utilizes all the data value in one single entry point for usage.

With standard SQL language support and the ability to execute stored procedures and functions this service gives you all the power from your hard learned SQL skills in one unified experience.

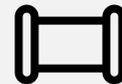
Moreover, the security and access control is also maintained using the well-known SQL scripting language.

All in all, a single SQL service that unifies all the data entities in one user experience.

TOOLS



WAREHOUSE



DATA PIPELINE

T-SQL language support



WAREHOUSE

The Warehouse in Microsoft Fabric fully leverages the T-SQL language and all its features and great functionality.

With the ability to write, store and execute stored procedures, functions and views, the Warehouse service in Microsoft Fabric is a strong engine to suit every business user at any level.

The only thing we cannot do yet, is to utilize the DML/DDL methods in the Microsoft Fabric Warehouse. Data Manipulation Language and Data Definition Language is not yet supported in the service.

“The new Warehouse service in Microsoft Fabric gives you all the power from your hard learned SQL skills”

Brian Bøn
Principal Architect



Security out-of-the-box



WAREHOUSE

As with every data platform, security plays a significant role in the maintenance and for the end user.

With the Warehouse service in Microsoft Fabric the standard SQL security approach can be used and implemented.

Enabling the data engineer to configure security using:

- Row level security
- Object level security
- Security based on security groups in AAD

Information schema



WAREHOUSE



DATA PIPELINE

The Warehouse service gives the data engineer possibility to work with and get insights from the INFORMATION_SCHEMA schema in the database.

The meta-data from this schema contains of all elements in the database, from tables and views through columns and schemas to constraints and security information.

This gives possibilities to:

- Work with meta-data driven frameworks
- Build dynamic load patterns using Data Factory
- Explore and report on metadata to the business

Get started today

Try Microsoft Fabric

[🔗 Try Fabric \(microsoft.com\)](https://microsoft.com/fabric)

Watch Fellowmind's monthly Power BI Update

[🔗 Power BI Update \(fellowmindcompany.com\)](https://fellowmindcompany.com/power-bi-update)

Connect with our Microsoft Data Platform MVPs

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