



Microsoft Fabric Guidebooks



Power BI

“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

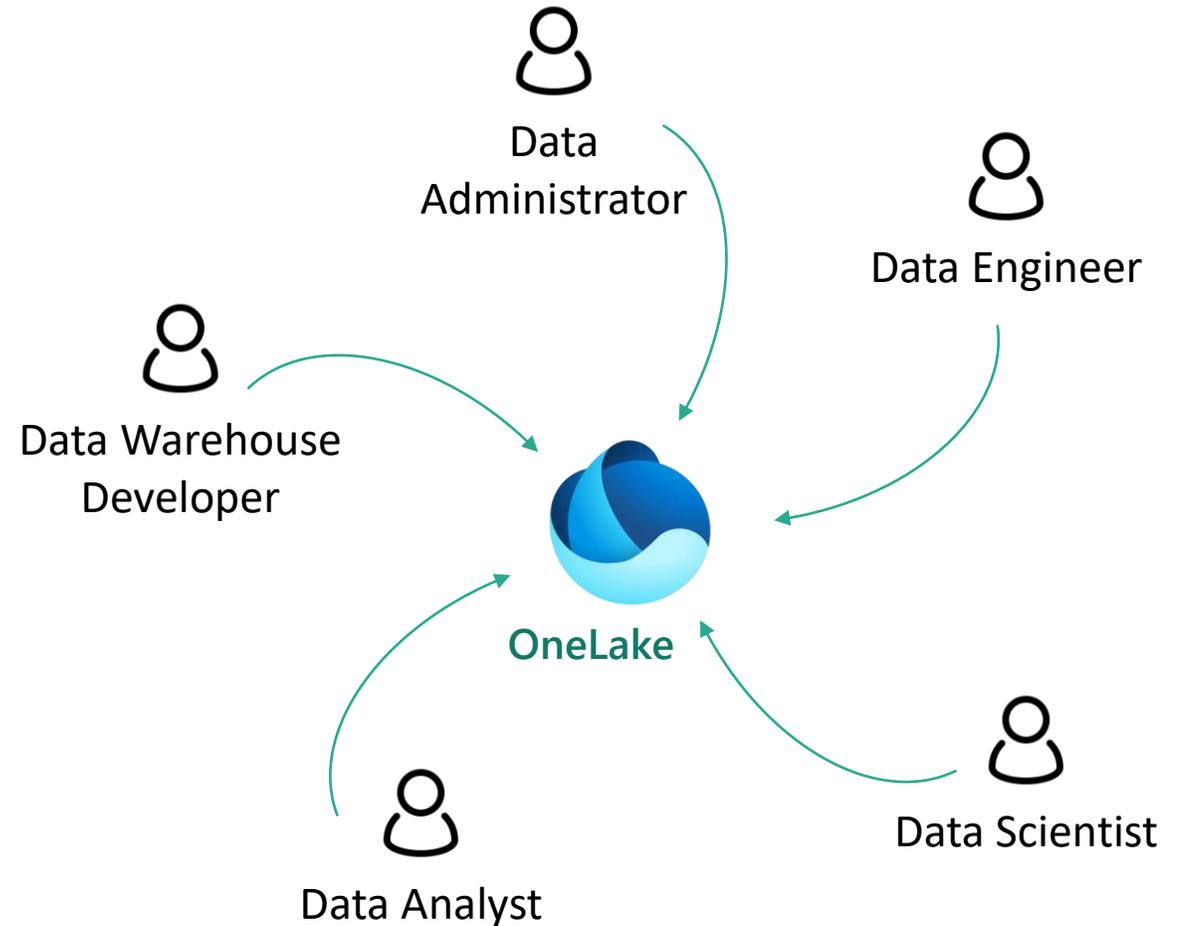


ONELAKE

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.



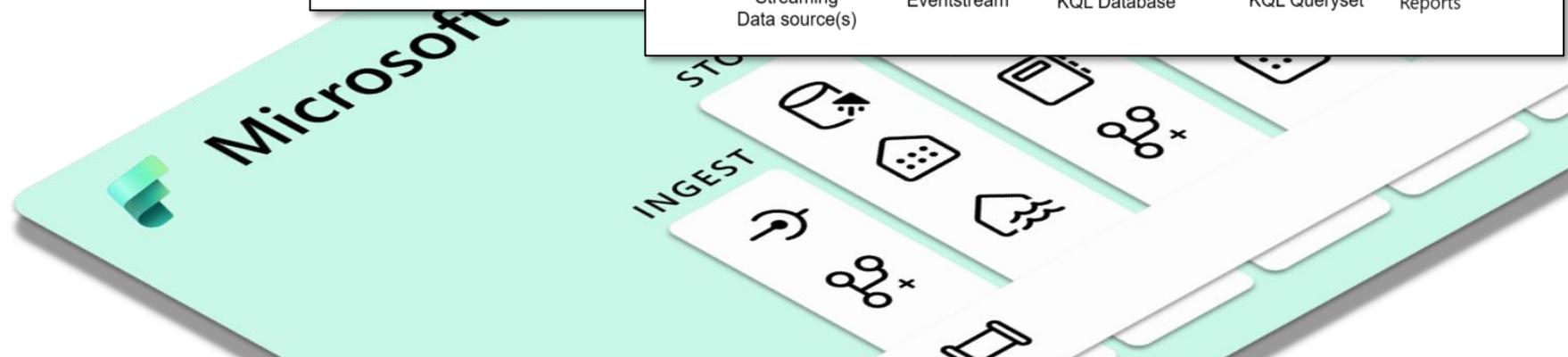
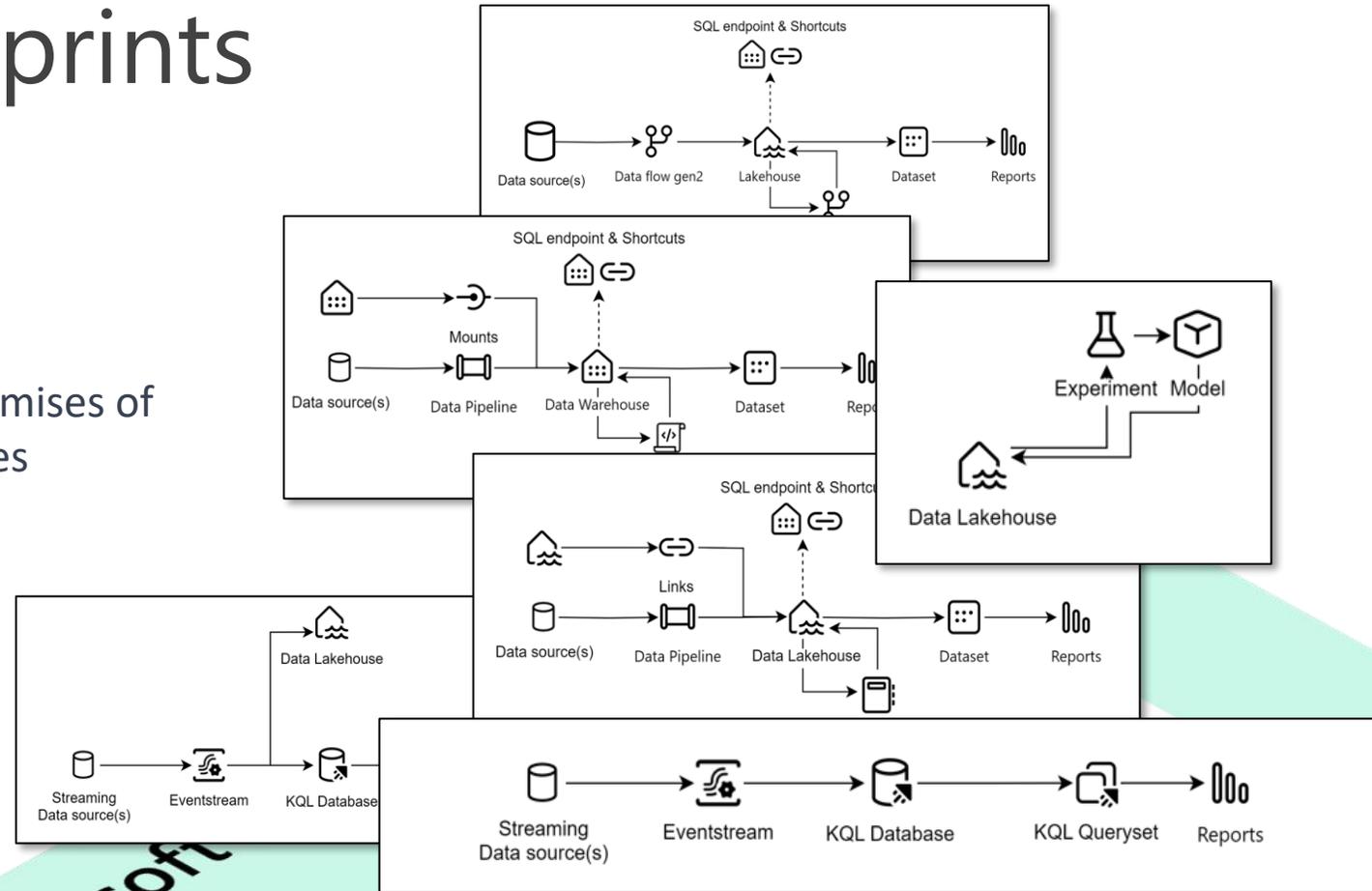


Architecture blueprints

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



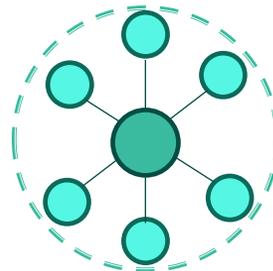
WORKSPACE

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

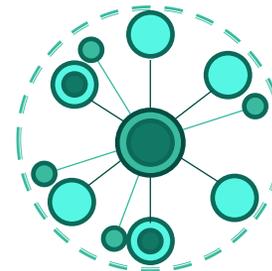
However, it's essential that as organizations, we don't overlook the foundational aspects such as our internal structure, objectives, and strategic planning.

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

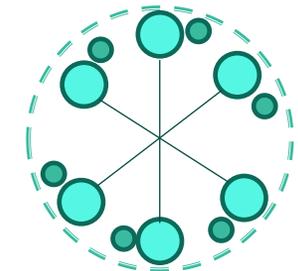
ENTERPRISE



HYBRID



SELF-SERVICE





Microsoft Fabric



Data Factory



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OneLake



Power BI

Power BI, our reliable tool for data modeling and visualization, will continue as we're accustomed to.

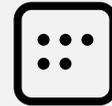
Any reports, datasets, or dataflows you currently use will still function within the Microsoft Fabric environment.

Power BI will simply be enhanced by Microsoft Fabric's additional capabilities.

TOOLS



REPORT



DATASET



DASHBOARD



SCORECARD

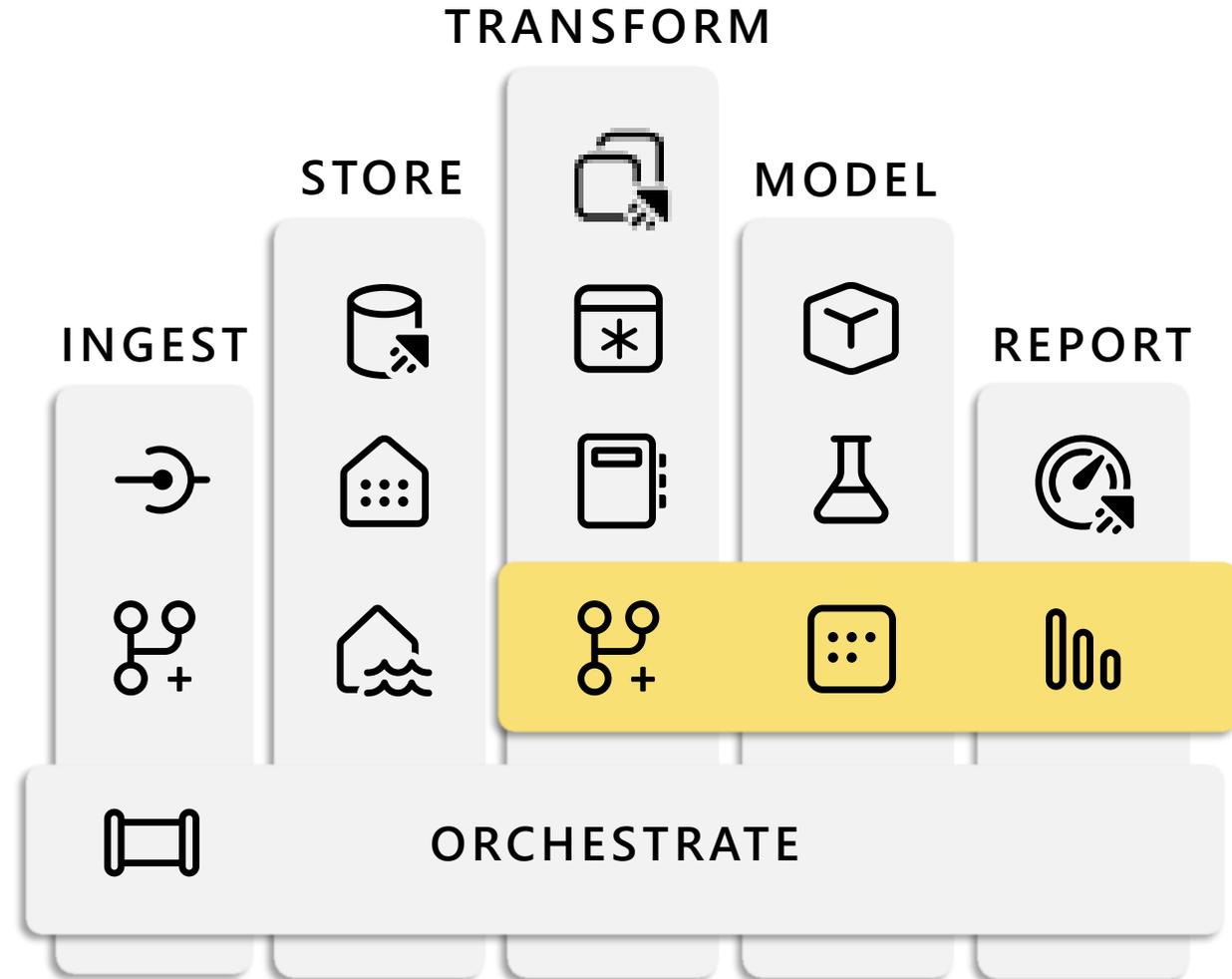


End-to-end analytics in Power BI

ALL

From the perspective of Power BI, Microsoft Fabric bridges the gap towards unified end-to-end analytics in Power BI.

Although many tools are incorporated into the new experience, having access to all capabilities directly from the Power BI service is a gamechanger.





Semantic link for Python & Spark



DATASET



NOTEBOOKS

Access dataset directly in code with Semantic Link.

Semantic Link bridges data science and BI, empowering users to access the semantic data model via Python and Spark, boosting understanding and problem-solving abilities.

The same source of truth is now accessible to analysts and business users who shape the semantic model, enhancing collaboration, preventing redundant effort, and building confidence.

Additionally, Semantic Link aids in data validation and quality detection.



DirectLake



DATASET



LAKEHOUSE

Instant rendering with real-time data updates – that is the promise of DirectLake, the most ambitious data processing engine ever.

With DirectLake users should be able to access live data – directly from their reports – without limiting their DAX, nor having to worry about performance degradation.

It is truly the best of all worlds combining the power of VertiPaq, DirectQuery and the Delta Parquet format.

“Import-mode performance with the DirectQuery timeliness.

It almost sounds to good to be true.

Let’s test it!”

Claus T. Madsen
Architect, Fellowmind





Copilot in Power BI



REPORT



COPILOT

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.

Contoso Daily Sales | Data updated 1/12/23

Revenue won

Revenue Won: \$10,811,851

AVG Days to Close by Month

Product Category	Revenue Won	In Pipeline	Forecast %
Warranties	\$4,183,051	\$4,170,582	119%
1 Year Warranty	\$4,183,051	\$4,170,582	119%
Accessories	\$10,600,337	\$9,029,533	123%
Black cover 7"	\$2,605,810	\$499,297	104%
E-reader pen	\$5,291,817	\$5,570,020	121%
Black cover 6"	\$2,703,330	\$2,960,216	142%
Devices	\$12,887,802	\$14,661,611	125%
E-reader Diamond 7" 16 GB	\$3,011,952	\$2,899,977	118%
E-reader Diamond 7" 8 GB	\$2,166,108	\$2,593,603	119%
E-reader Platinum 8" 64 GB	\$5,805,369	\$5,423,986	125%
E-reader Standard 6" 8 GB	\$484,931	\$2,269,302	138%
E-reader Platinum 8" 32 GB	\$1,419,542	\$1,474,743	145%
Total	\$27,671,190	\$27,861,726	126%

Let's get started

The dataset Regional Sales contains information related to customers, products, stores, issues, promotions, and sales.

Select a suggested report topic or type your own idea.

Analyze the impact of promotions on sales

What are the OKRs this quarter?

Ask a question or request, or type '/' for suggestions

All generated content can have mistakes. Make sure it's accurate and appropriate before using it. [Read privacy terms](#)

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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[🔗 https://www.linkedin.com/in/brianbonk](https://www.linkedin.com/in/brianbonk)