Overcoming the fear

Exploring Microsoft Fabric from a Power BI Angle

Thank you to our Fabric February Friends!

twoday

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amesto
NextBridge

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sci-an

Microsoft

After this session

Understanding of Fabric	Build end-to-end solution	Identify learning potential
Better understand the Microsoft Fabric ecosystem and its capabilities	Be able to build an end-to-end solution in Fabric solely based on Power BI knowledge	Identify the learning potential and possibilities the launch of Fabric offers you to gain new knowledge

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Data-Marc.com

DutchFabricUsergroup.com

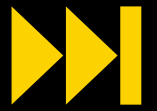
FAVORITE STUFF:

What we cover today

The fear of Fabric

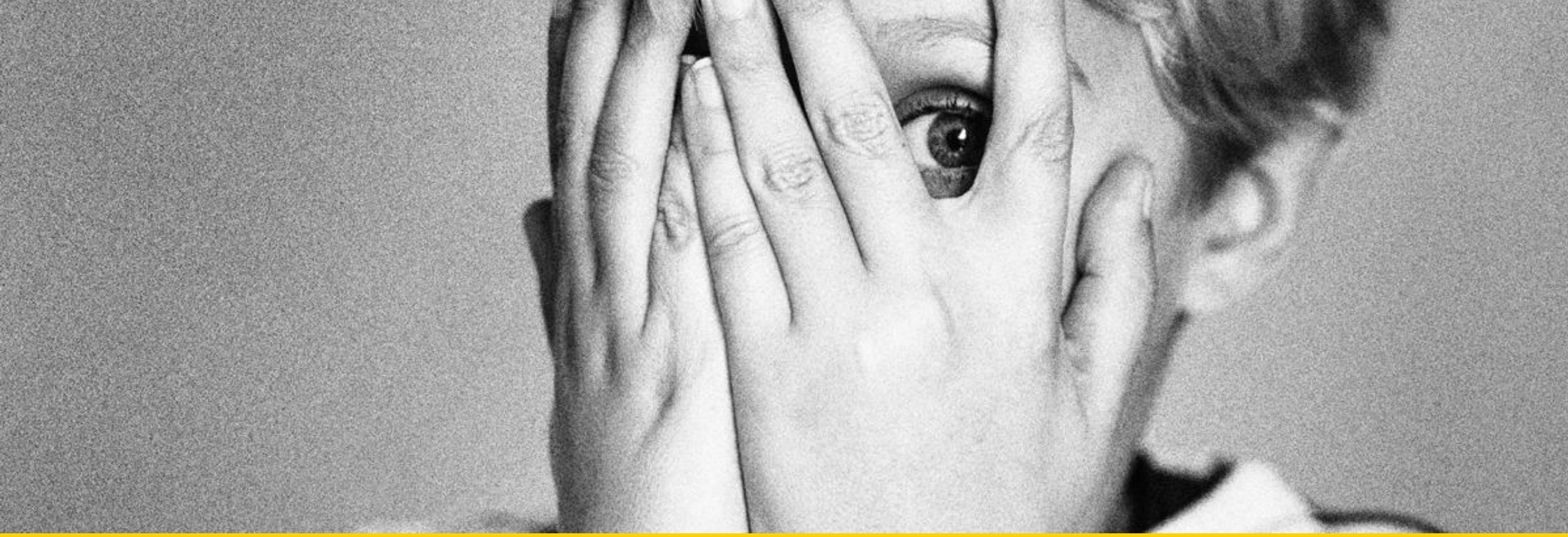
Closer look at Fabric

End-to-end example



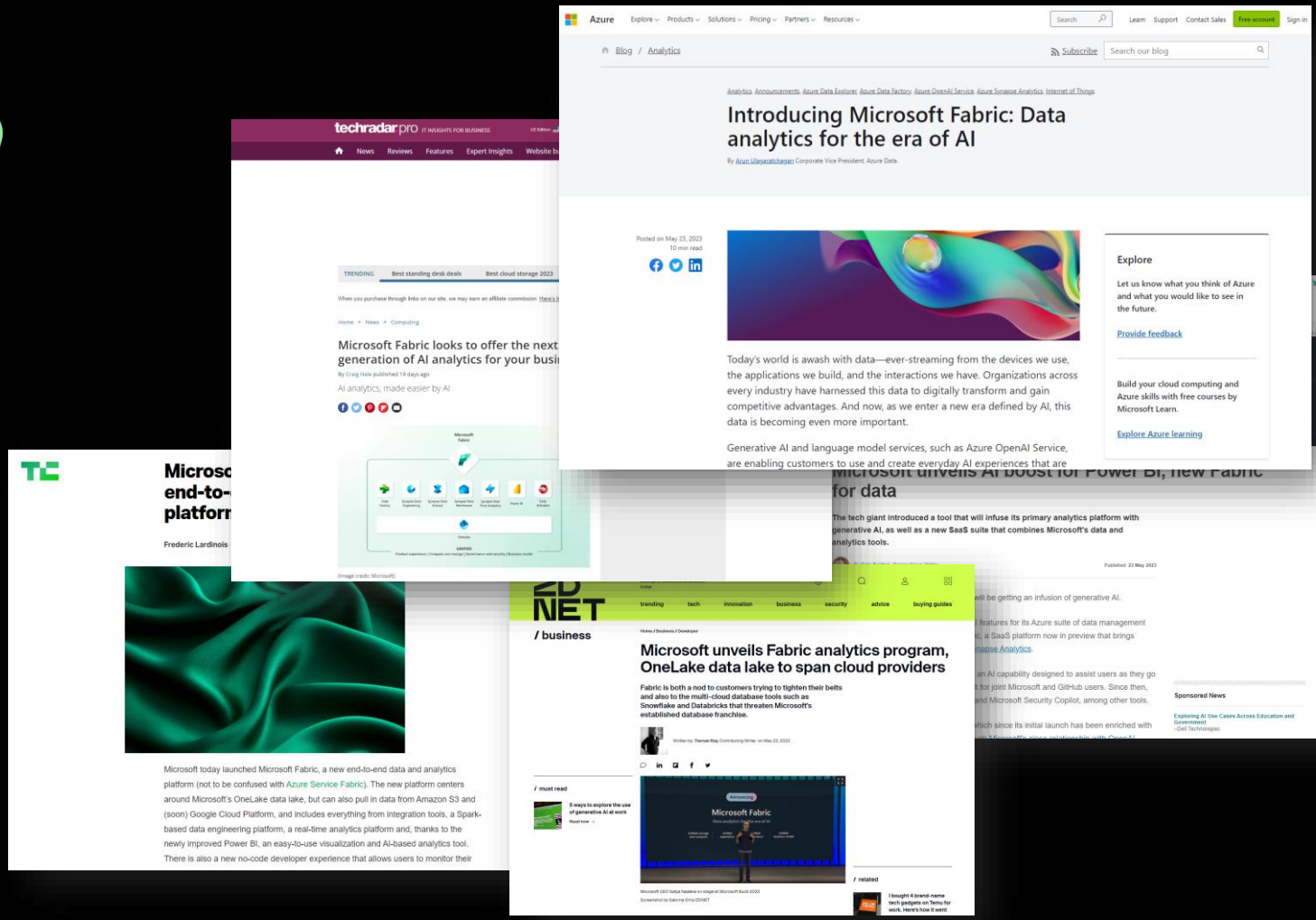
Next steps

Learning potential



The Fear of Microsoft Fabric

Fabric – the new kid on the block



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Unified Data Analytics platform

Data Integration

Data Factory

Data Engineering

Synapse

Data Warehouse

Synapse

Data Science

Synapse

Real Time Analytics

Synapse

Business Intelligence

Power BI

Observability

Data Activator

Unified Serverless Compute
T-SQL | Spark | KQL | Analysis Services

Unified data foundation
OneLake | OneSecurity

UNIFIED

SaaS product experience | Security and governance | Compute and storage | Business model

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Overwhelming!

All these new things, new capabilities and workloads in the Power BI Service (look-a-like) interface!

What now? Should I start learning all this new stuff?

New terms that come along

KQL

Lakehouses

Notebooks

Warehouses

Spark

Kusto

What is all of this stuff?
And should I know this?

Closer look at Fabric

Fabric Capabilities

Data Movement	Data Lakes	Data Engineering	Data Integration
Data Science	Real-Time Analytics	Business Intelligence	Automated Actions

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One unified platform

Data Integration	Data Engineering	Data Warehouse	Data Science	Real Time Analytics	Business Intelligence	Observability
Data Factory	Synapse	Synapse	Synapse	Synapse	Power BI	Data Activator

Unified Serverless Compute
T-SQL | Spark | KQL | Analysis Services

Unified data foundation
OneLake | OneSecurity

UNIFIED

SaaS product experience | Security and governance | Compute and storage | Business model

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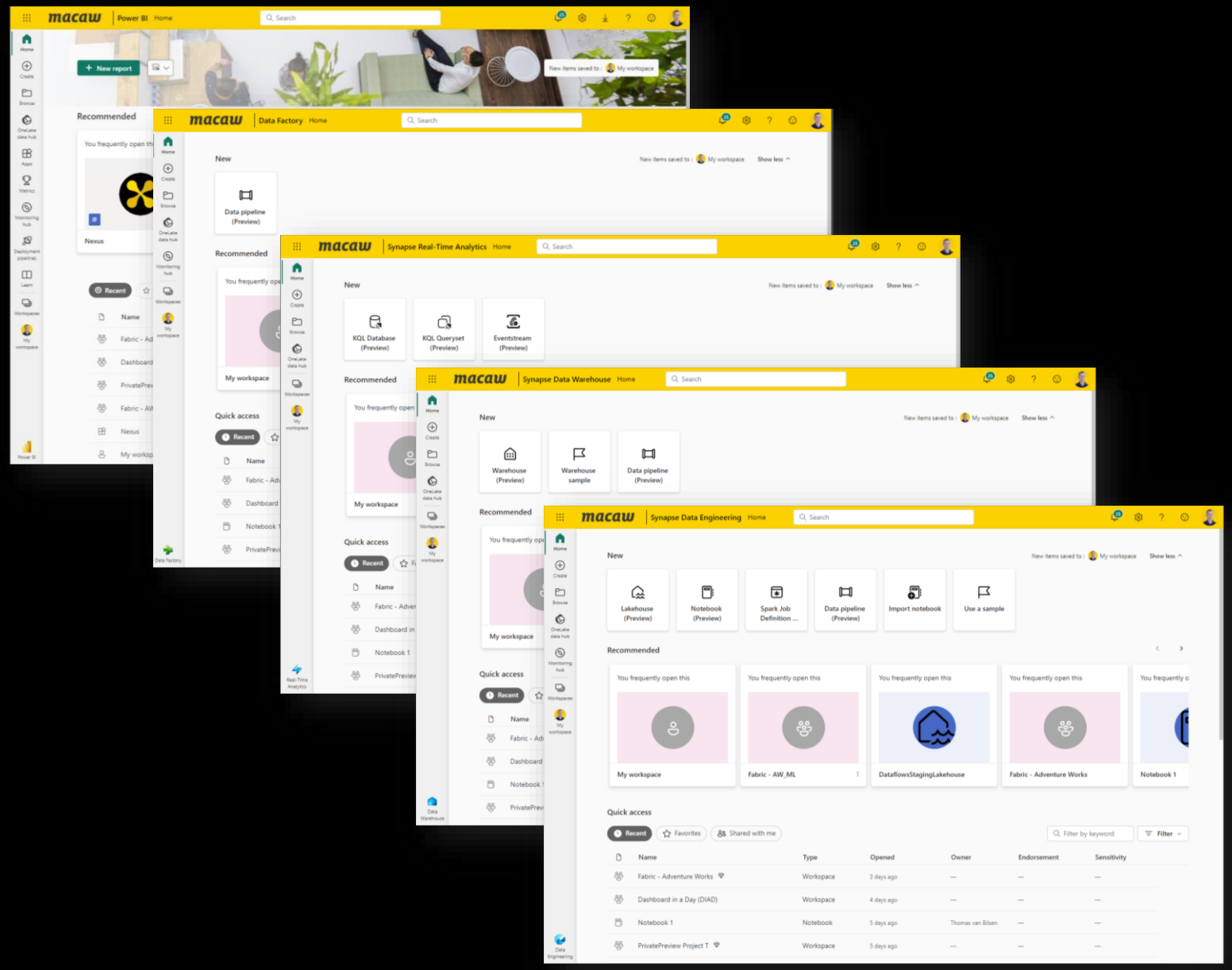
One platform
One interface



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OneLake

One data lake for the entire organization at scale

One copy of data for use across multiple analytical engines

One security model living natively with the data in the lake (coming soon)

A **centralized** OneLake data hub for data discovery and management

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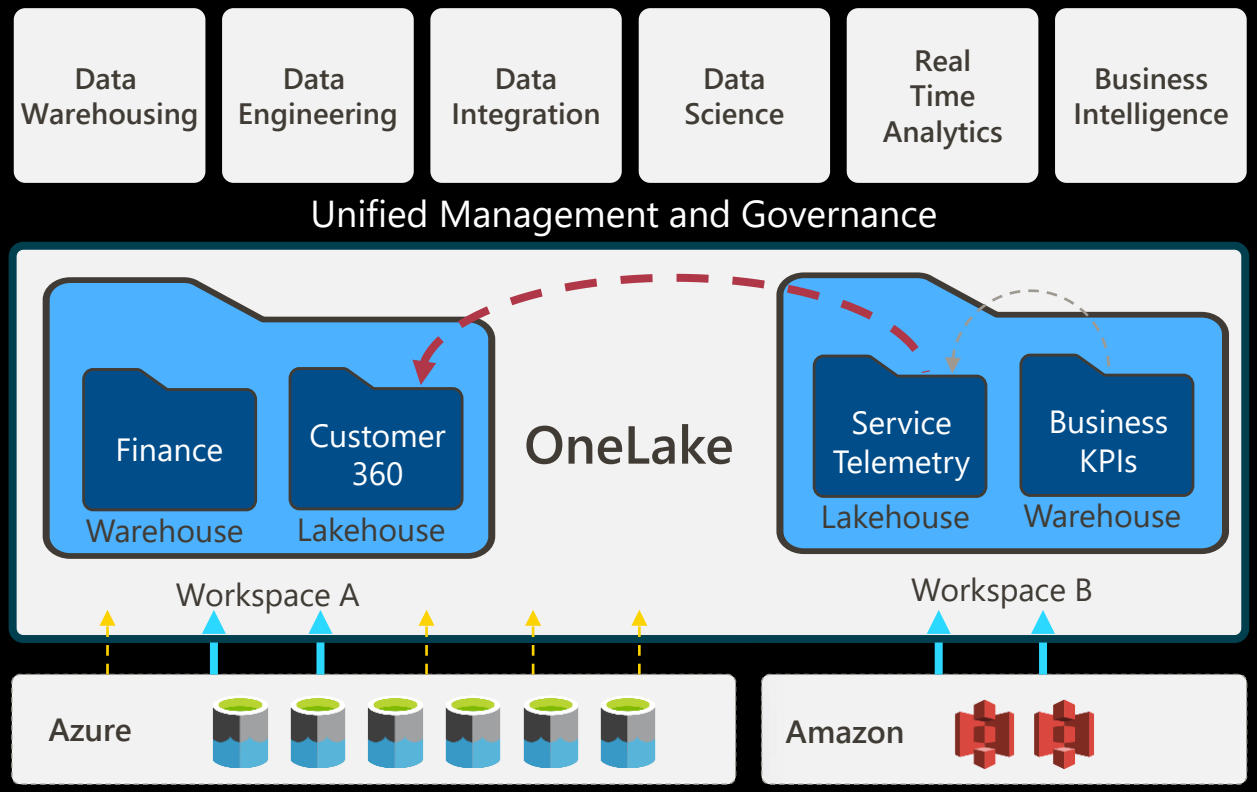
Shortcuts to other clouds

Bring data from other storage accounts or even other clouds easily to Fabric without physical data movement.

Fabric services can use this data directly if it is in the right format.



Onedrive for data

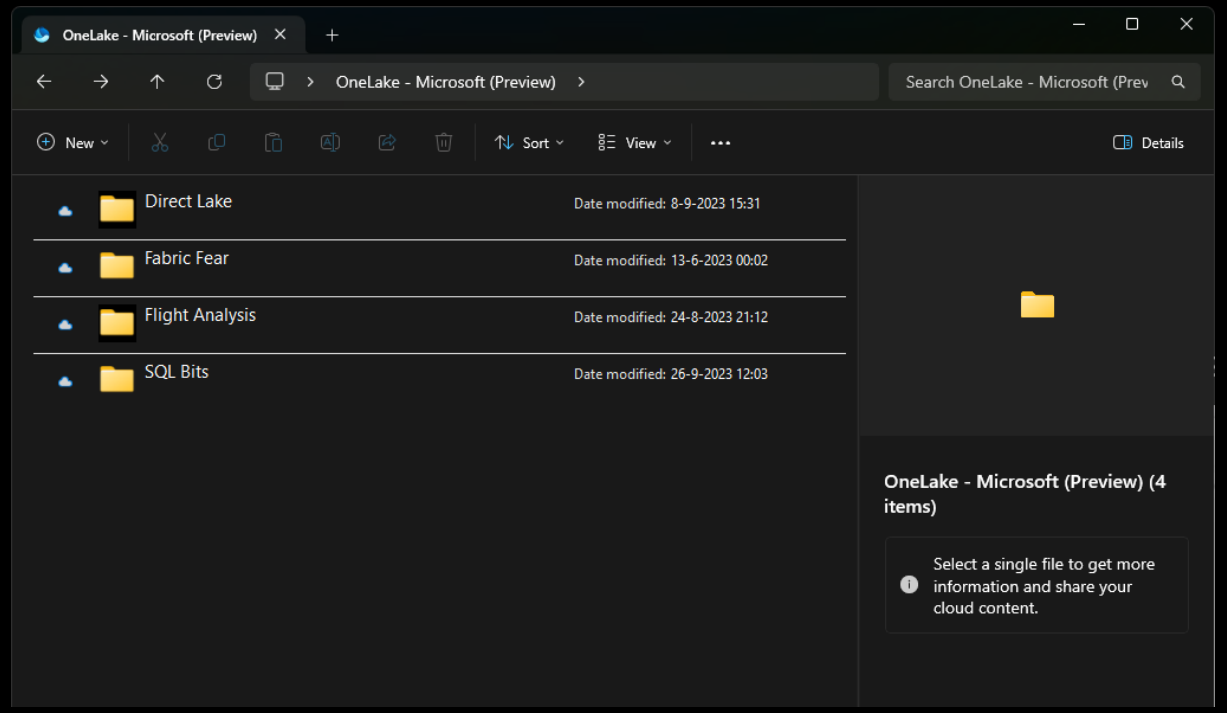
OneDrive
for documents

OneLake
for data

OneLake explorer

OneLake is accessible via **Windows Explorer**

(also, data that is stored in other cloud provider through shortcuts)

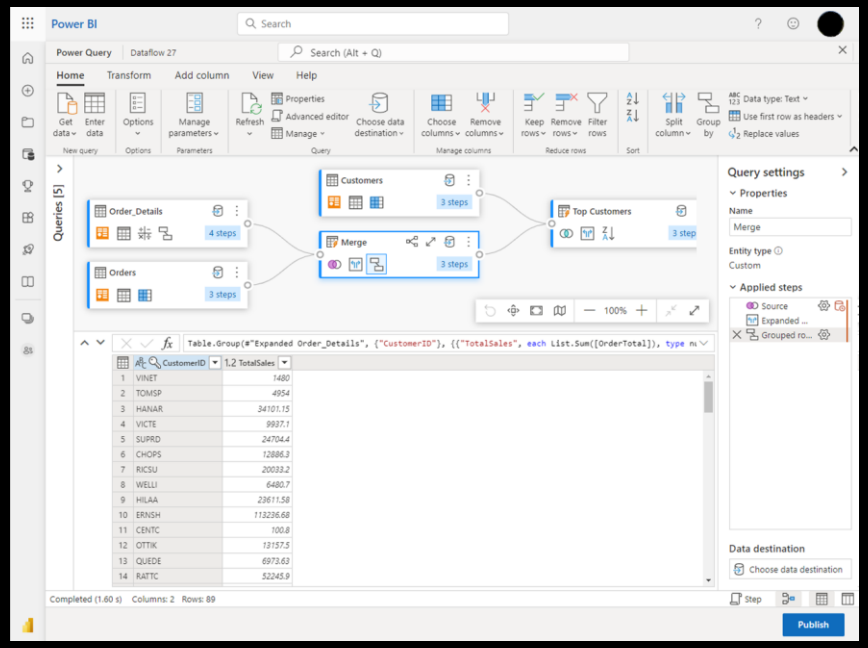


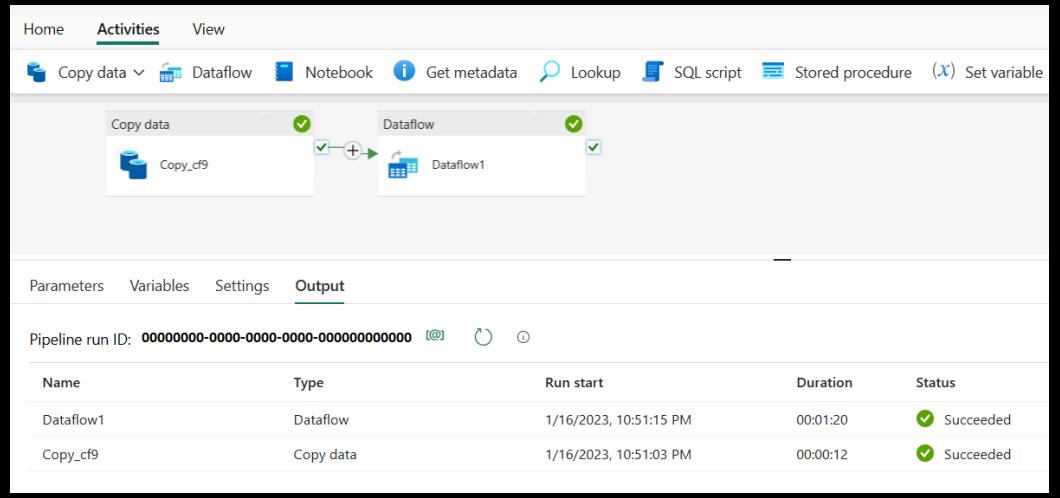
Data Integration

Different options, easy to use.

Variety from

- Dataflow gen2
- Pipelines (ADF)
- Notebooks





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Data Engineering

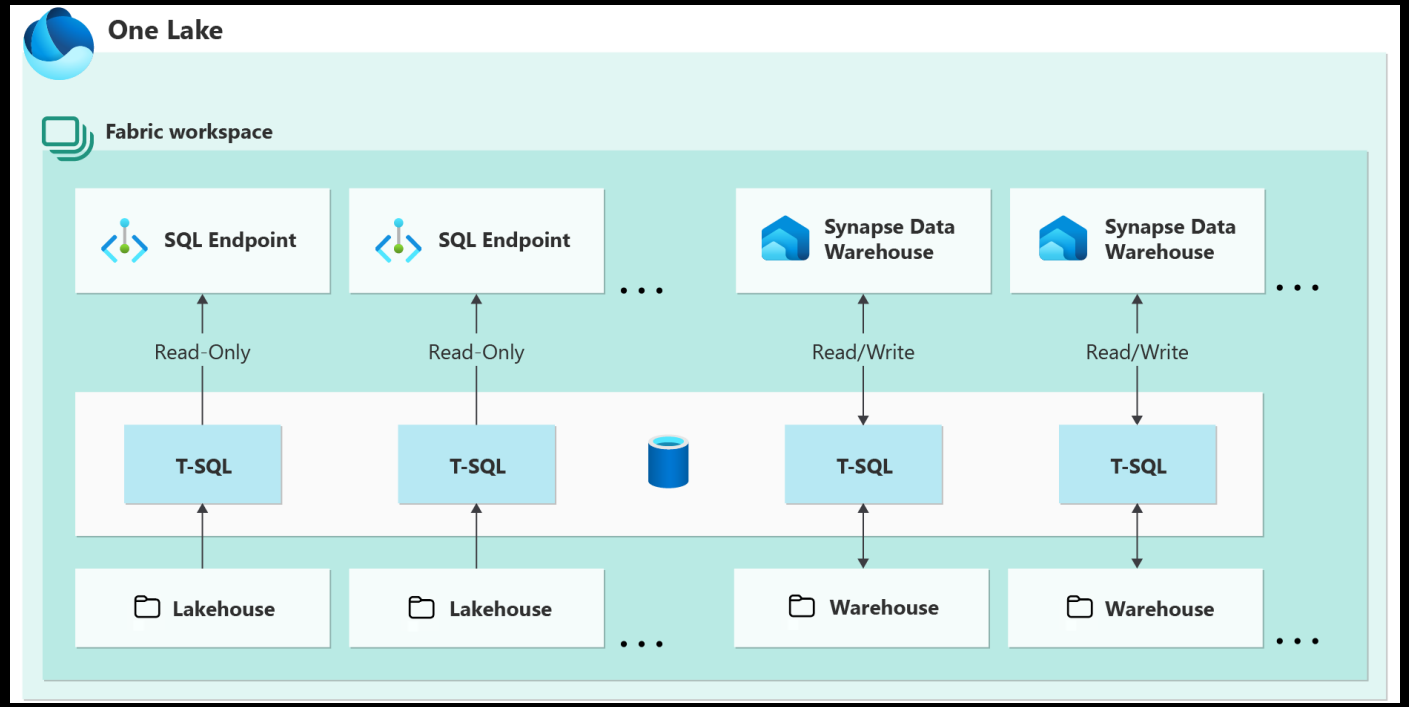
Ability to create lakehouses, run spark jobs and notebooks to collect, store, process and analyze large volumes of data!

SQL-Endpoint & Data Warehousing

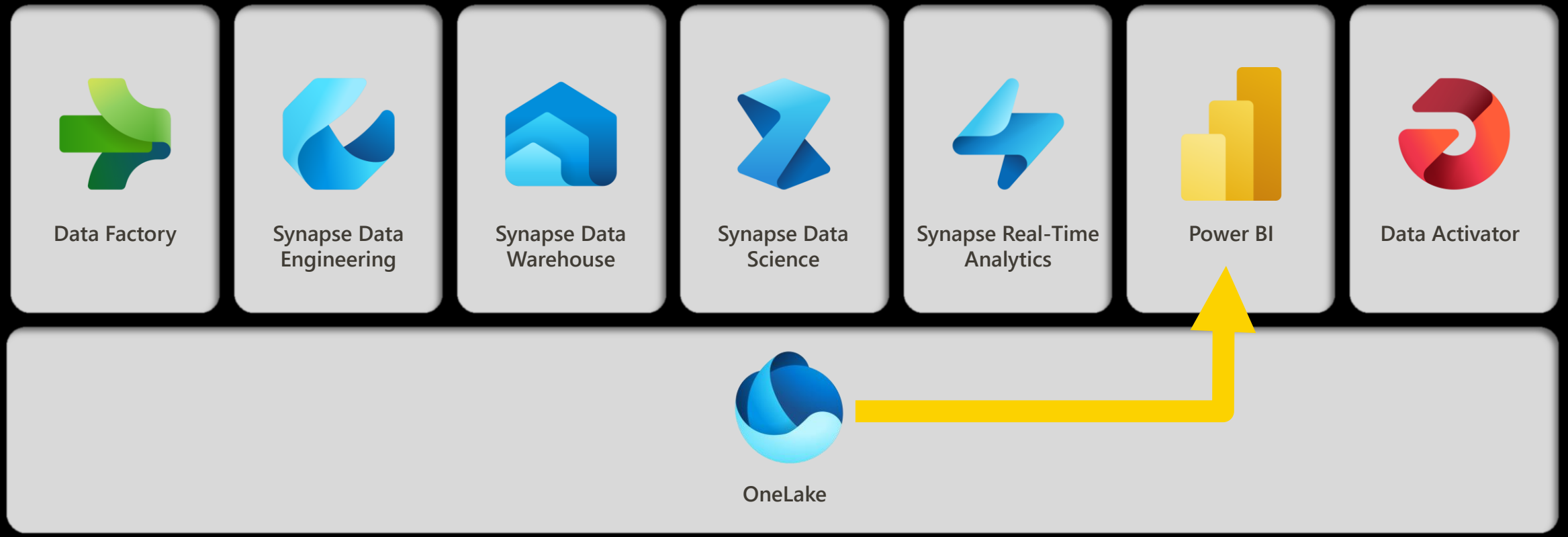
Power BI Datamarts?

Work with data in a table format to build an enterprise grade distribution method to enable T-SQL interaction on top of delta files in OneLake.

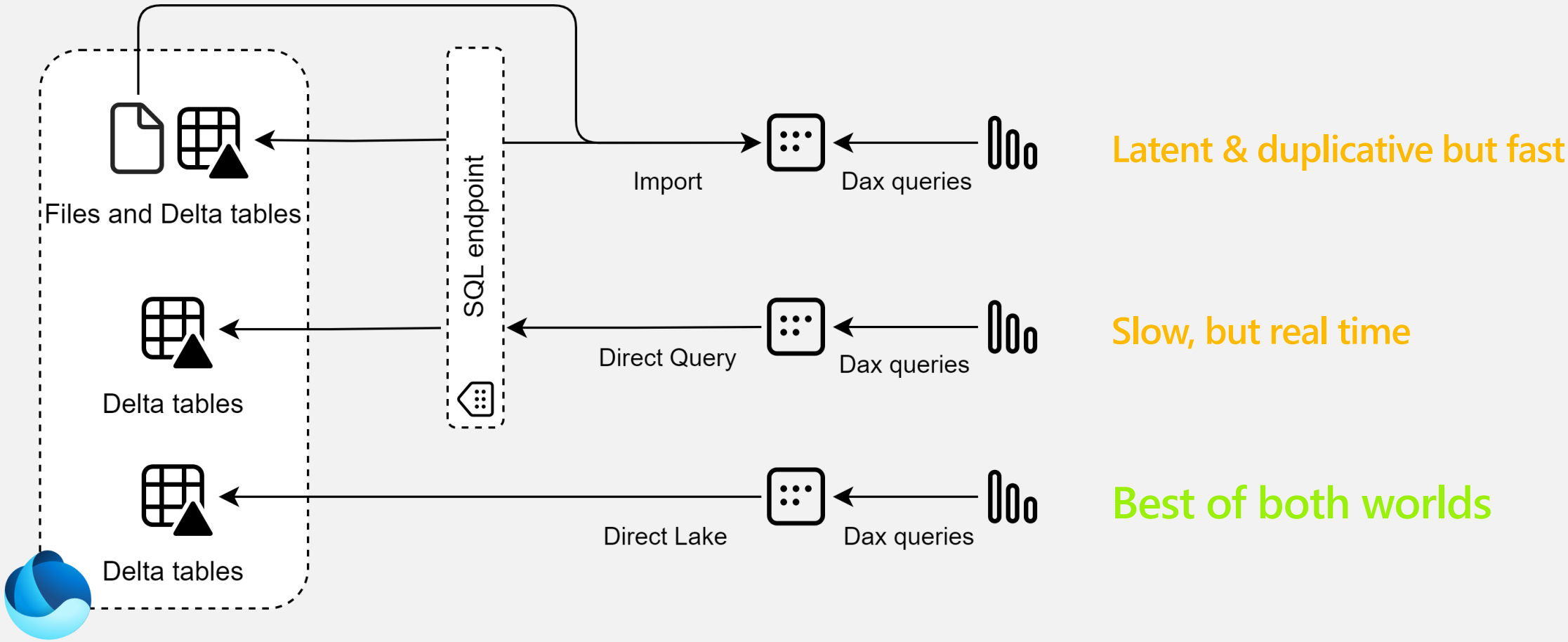
- Stored procedures
- Views



Power BI & Direct Lake mode

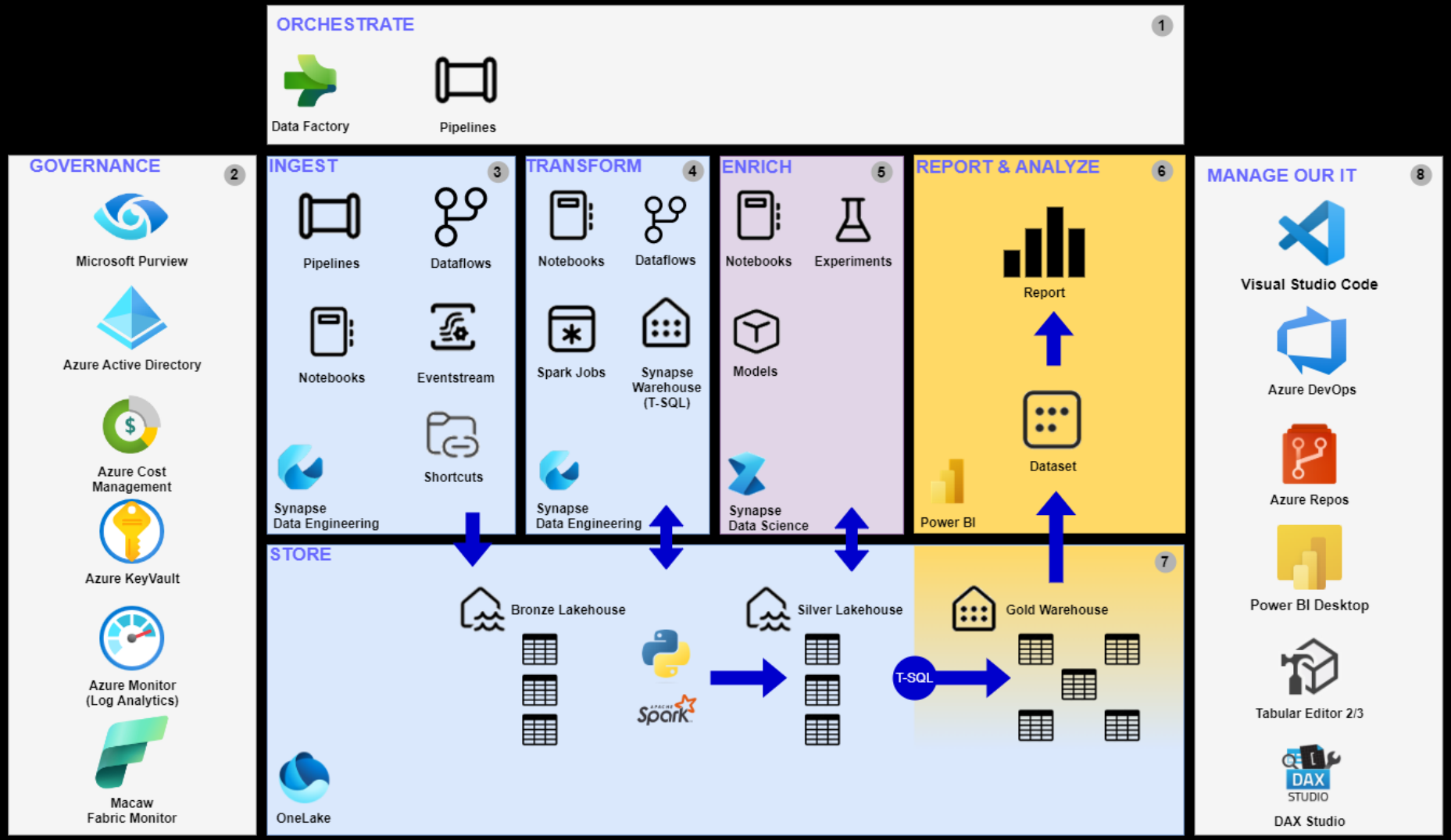


Direct Lake

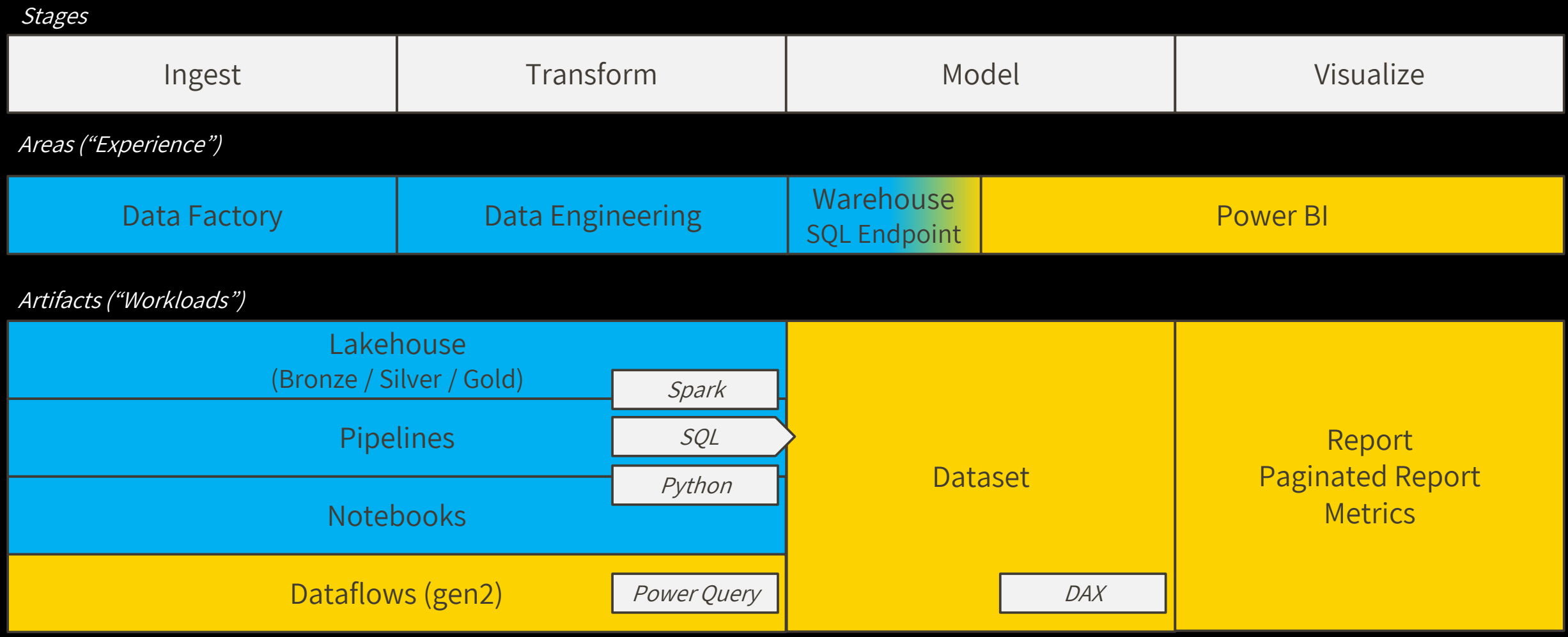

Files and Delta tables
Delta tables
Delta tables
SQL endpoint
Import
Dax queries
Direct Query
Dax queries
Direct Lake
Dax queries
Latent & duplicative but fast
Slow, but real time
Best of both worlds

Let’s run some end-to-end examples

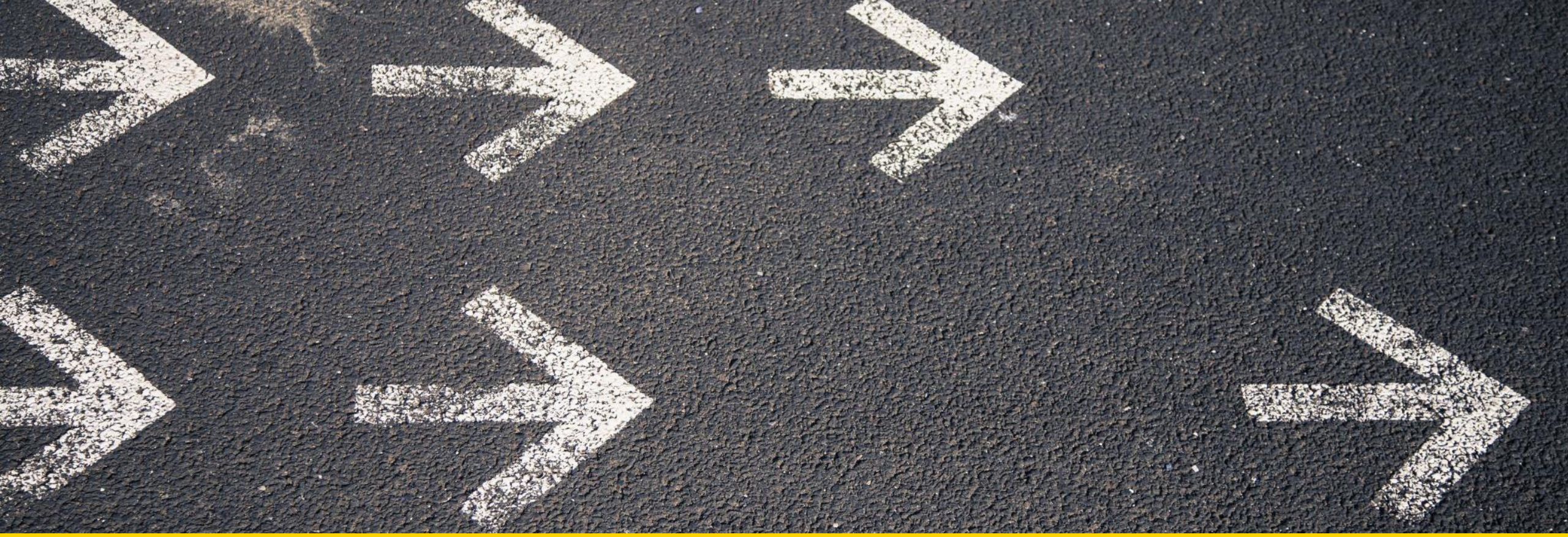
What fits in where?



End to end flow

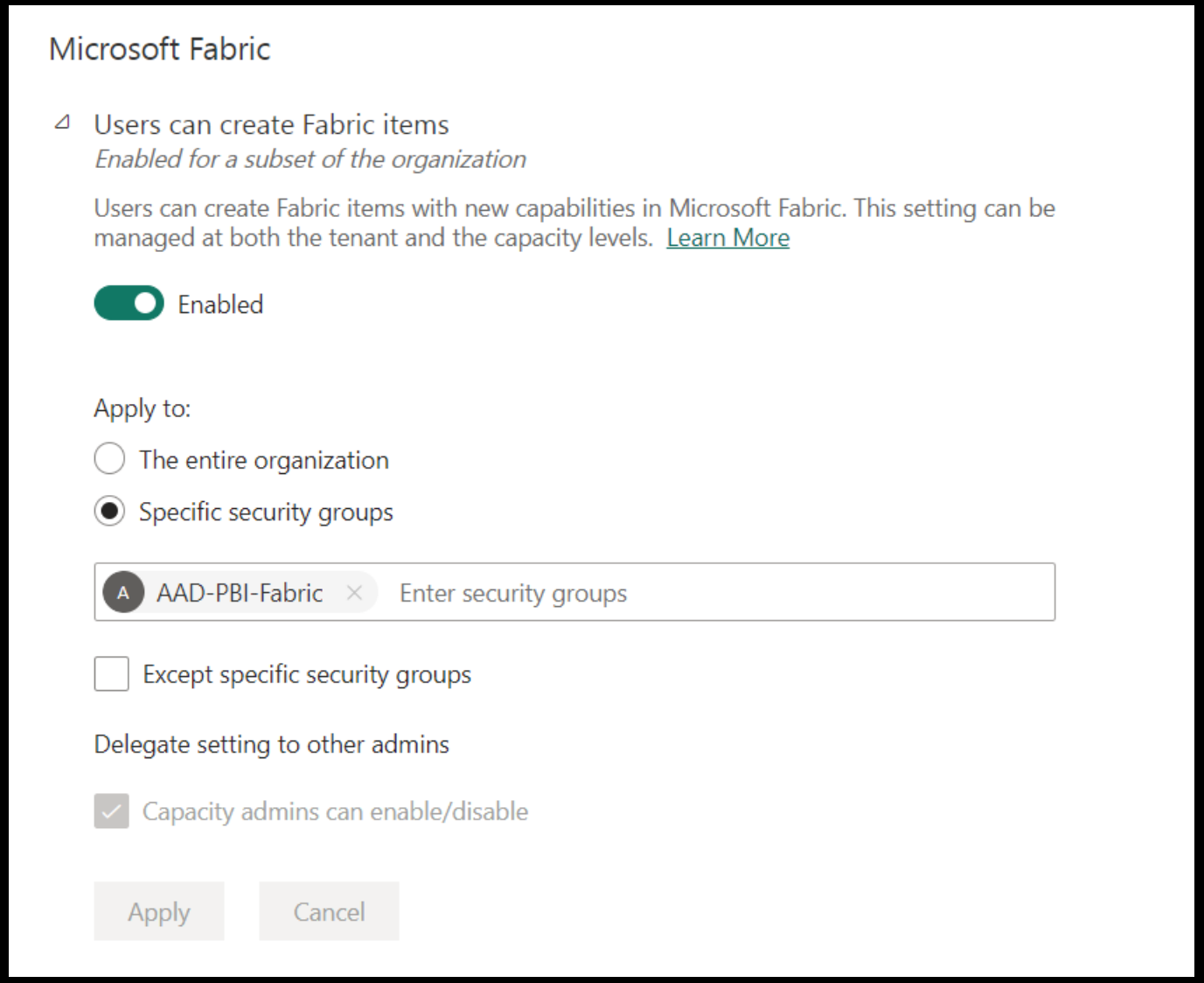


Demo time!



Next steps

As a ~~Power BI Service~~ Fabric Administrator



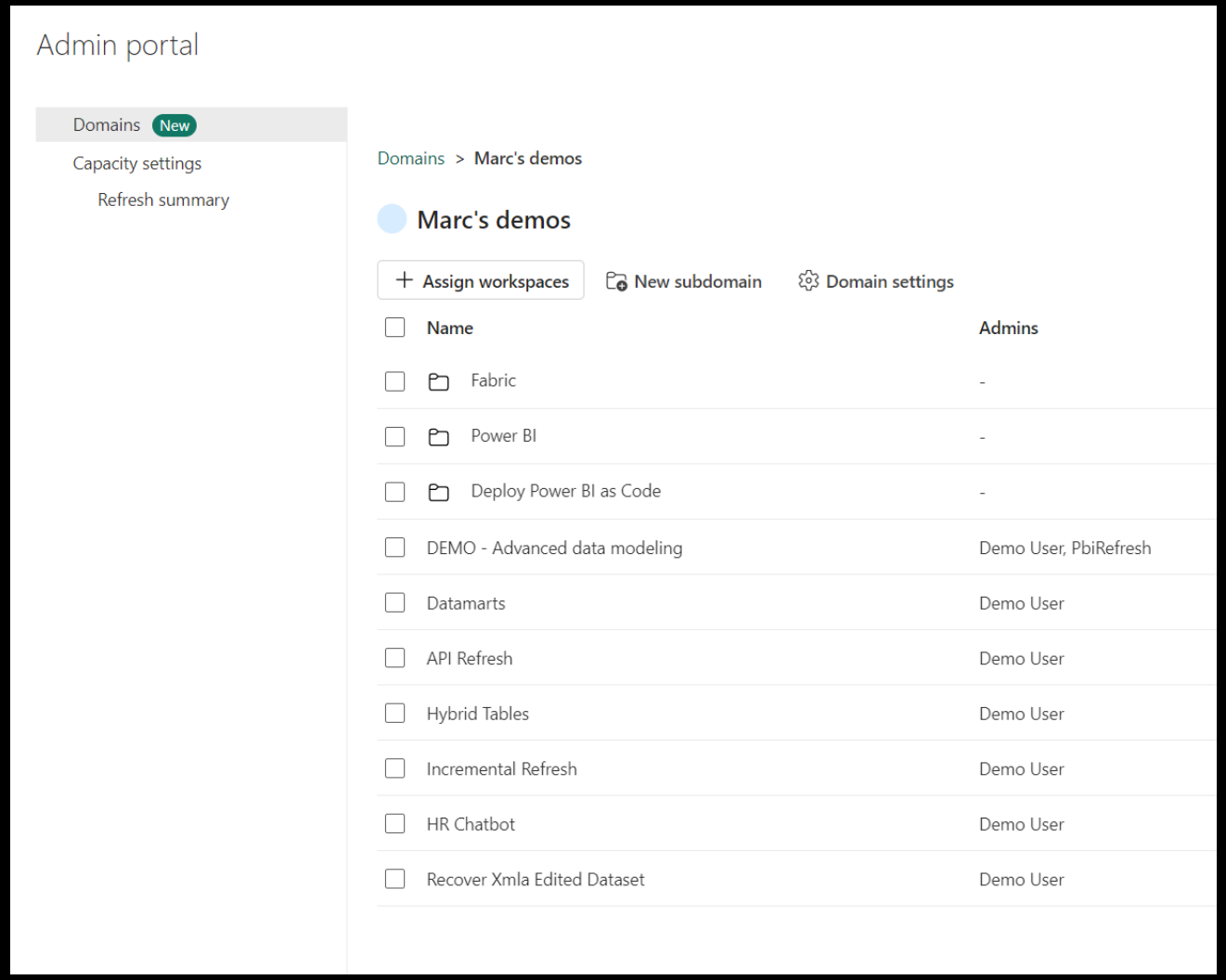
You're in control of the tenant settings, make sure you put together a security group that can start testing Fabric!

As a ~~Power BI Service~~ Fabric Administrator

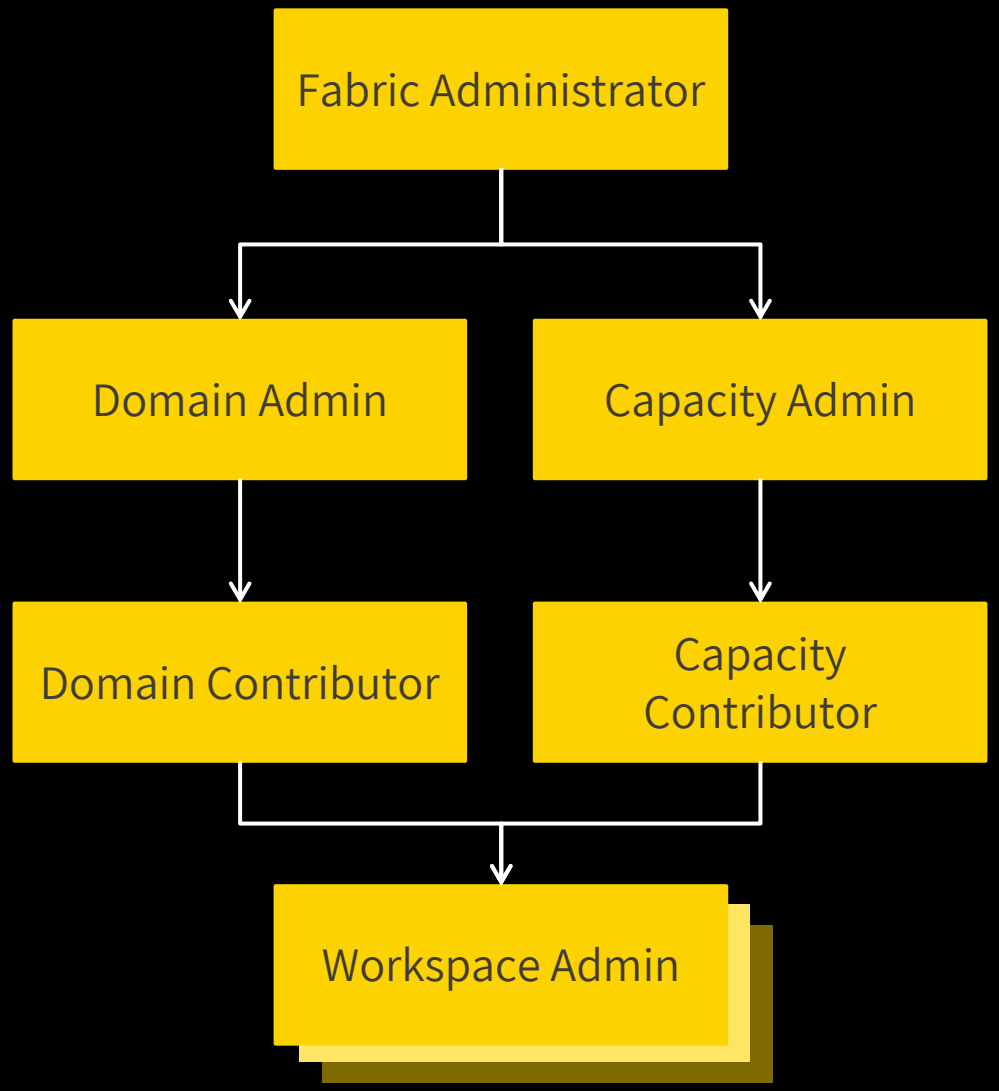
Identify (business) ownership for workspaces by categorizing them in Domains.

- Ownership
- Delegation

Domains also works without Fabric enabled.



More granular levels of controls



Defines tenant settings and global policies. May delegate certain settings to lower levels.

Defines specific delegated settings for domains / capacities. Assigns workspaces to domains and/or capacities.

Can assign a workspace to a domain or capacity.

Defines workspace permissions and settings on individual artifacts.

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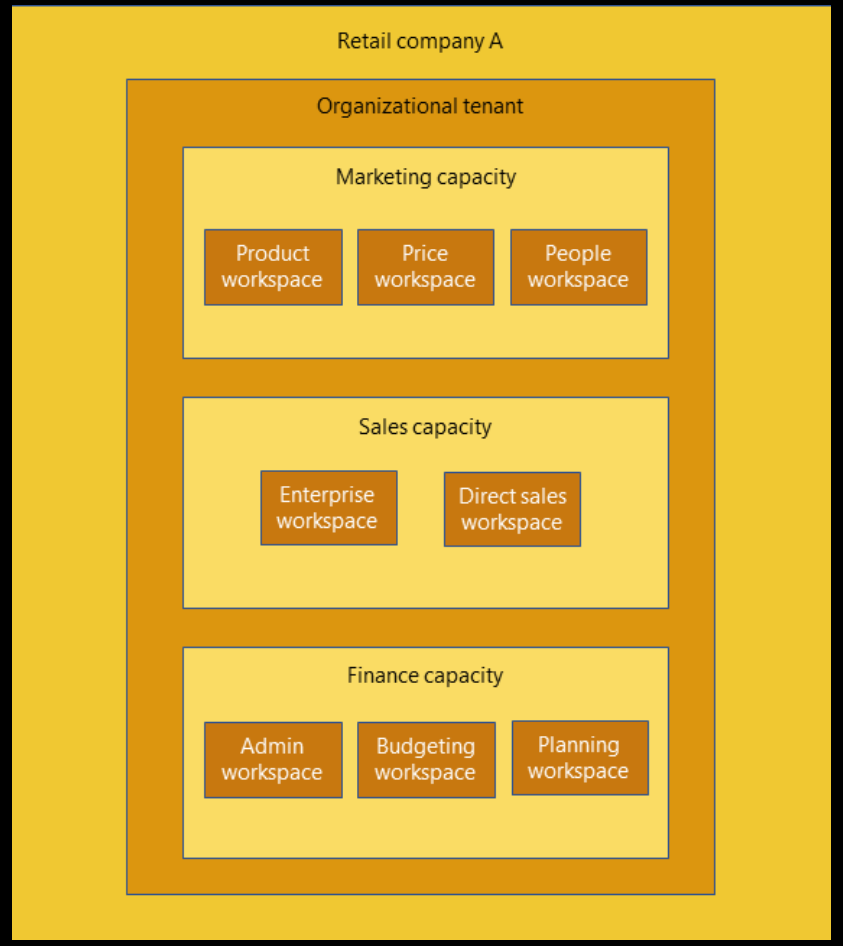
Fabric capacities



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

*SKUs that are smaller than F64 require a Pro license to consume Power BI content.

Learning potential

Fabric Guided Learning

9600 XP

Get started with Microsoft Fabric

10 hr 1 min • Learning Path • 11 Modules

Beginner | Data Analyst | Data Engineer | Data Scientist | Microsoft Fabric

Explore the capabilities of Microsoft Fabric.

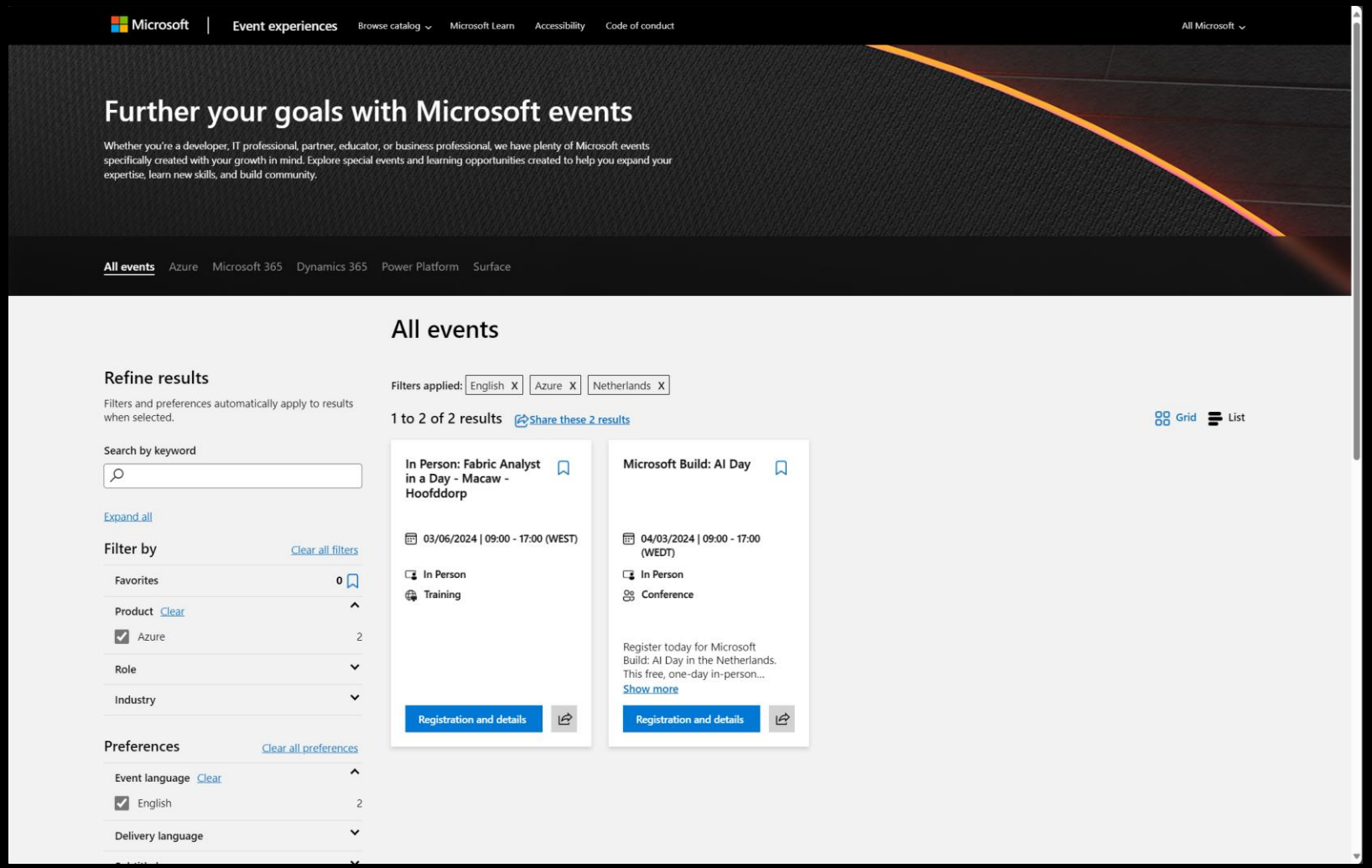
Prerequisites

You should be familiar with basic data concepts and terminology.

Start > ⊕ Add

Fabric Guided Learning (DP-600)

Fabric in a Day



Wrap up

Fabric brings many new **capabilities**

Many of these capabilities are **new for Power BI folks**

Not necessarily, you need to embrace all of this

With Fabric, you build end-to-end solutions with your **existing skill set**

It does open **new learning opportunities** in a familiar interface

Resources

Read this story in a blog
https://data-marc.com/2023/05/24/overcoming-the-fear-exploring-microsoft-fabric-from-a-power-bi-angle/

Fabric get started documentation
https://learn.microsoft.com/en-us/fabric/get-started/

Explore Fabric end-to-end tutorials
https://learn.microsoft.com/en-us/fabric/get-started/end-to-end-tutorials

Join the online Fabric community
https://community.fabric.microsoft.com/

Find your nearest Fabric in a Day
https://events.microsoft.com/

Thanks for attending!

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