# Overcoming the fear

Exploring Microsoft Fabric from a Power BI Angle

# 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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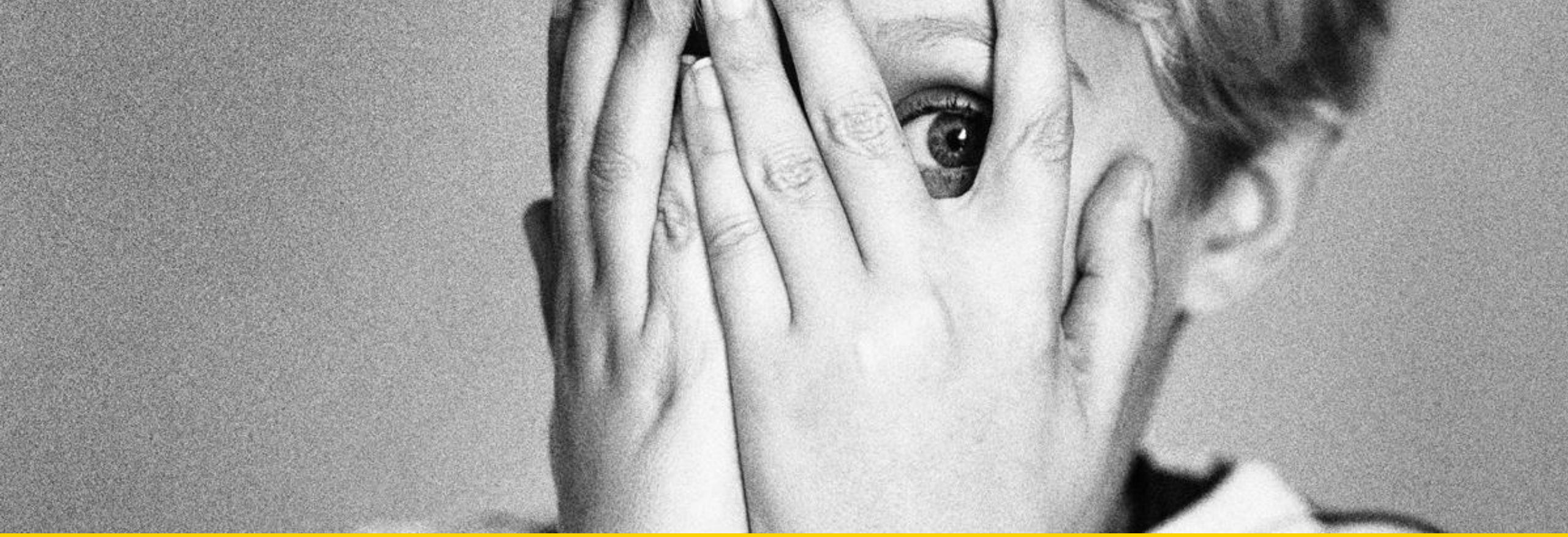
# What we cover today

- The fear of Fabric
- Closer look at Fabric
- End-to-end example
- Next steps
- Learning potential



# The Fear of Microsoft Fabric

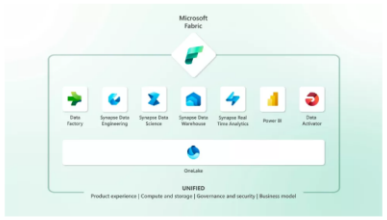
# Fabric – the new kid on the block

techradar pro IT INSIGHTS FOR BUSINESS

Microsoft Fabric looks to offer the next generation of AI analytics for your business

By Craig Hale published 19 days ago

AI analytics, made easier by AI



Microsoft today launched Microsoft Fabric, a new end-to-end data and analytics platform (not to be confused with Azure Service Fabric). The new platform centers around Microsoft's OneLake data lake, but can also pull in data from Amazon S3 and (soon) Google Cloud Platform, and includes everything from integration tools, a Spark-based data engineering platform, a real-time analytics platform and, thanks to the newly improved Power BI, an easy-to-use visualization and AI-based analytics tool. There is also a new no-code developer experience that allows users to monitor their

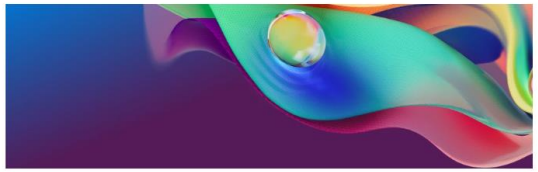
Azure

Blog / Analytics

Introducing Microsoft Fabric: Data analytics for the era of AI

By Arun Ulagaratchagan Corporate Vice President, Azure Data

Posted on May 23, 2023
10 min read



Today's world is awash with data—ever-streaming from the devices we use, the applications we build, and the interactions we have. Organizations across every industry have harnessed this data to digitally transform and gain competitive advantages. And now, as we enter a new era defined by AI, this data is becoming even more important.

Generative AI and language model services, such as Azure OpenAI Service, are enabling customers to use and create everyday AI experiences that are

Explore

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Explore Azure learning

icrosoft unveils Fabric analytics program, neLake data lake to span cloud providers

ric is both a nod to customers trying to tighten their belts also to the multi-cloud database tools such as wflake and Databricks that threaten Microsoft's established database franchise.

Written by Tiernan Ray, Contributing Writer on May 23, 2023

/ must read

5 ways to explore the use of generative AI at work

Read now

Microsoft CEO Satya Nadella on stage at Microsoft Build 2023

Screenshot by Sabrina Ortiz/ZDNET

/ related

I bought 4 brand-name tech gadgets on Temu for work. Here's how it went

SaaS suite that combines Microsoft's data and

Published: 23 May 2023

ower BI will be getting an infusion of generative AI.

f new AI features for its Azure suite of data management oft Fabric, a SaaS platform now in preview that brings Azure Synapse Analytics.

021; it is an AI capability designed to assist users as they go was built for joint Microsoft and GitHub users. Since then, Copilot and Microsoft Security Copilot, among other tools.

Copilot, which since its initial launch has been enriched with

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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

# 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 |
|---|---|---|---|---|---|
| Data Factory | Synapse | Synapse | Synapse | Synapse | Power BI |

**Unified data foundation**
OneLake

**Persistent data governance and security**
Purview

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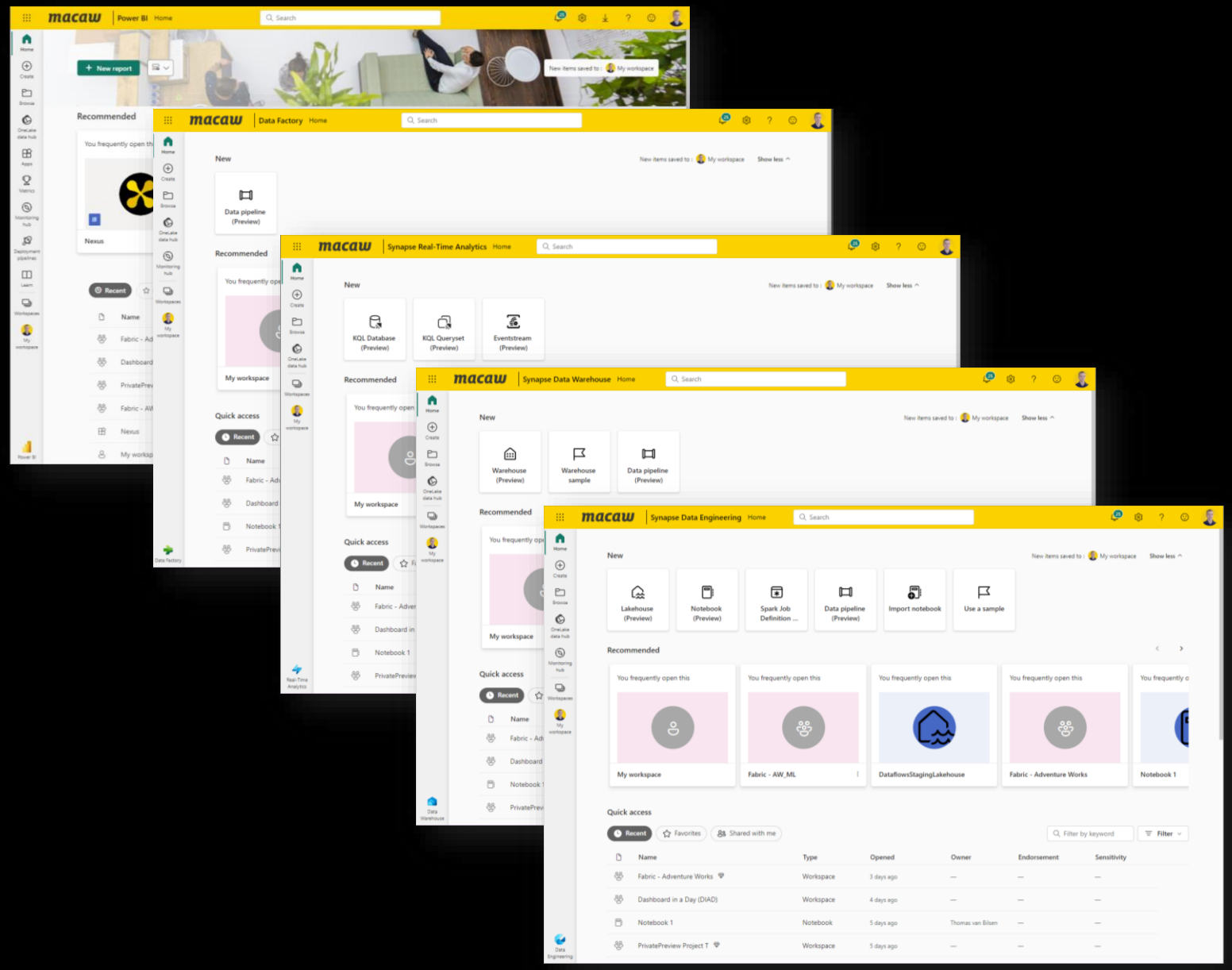
# One platform
# One interface

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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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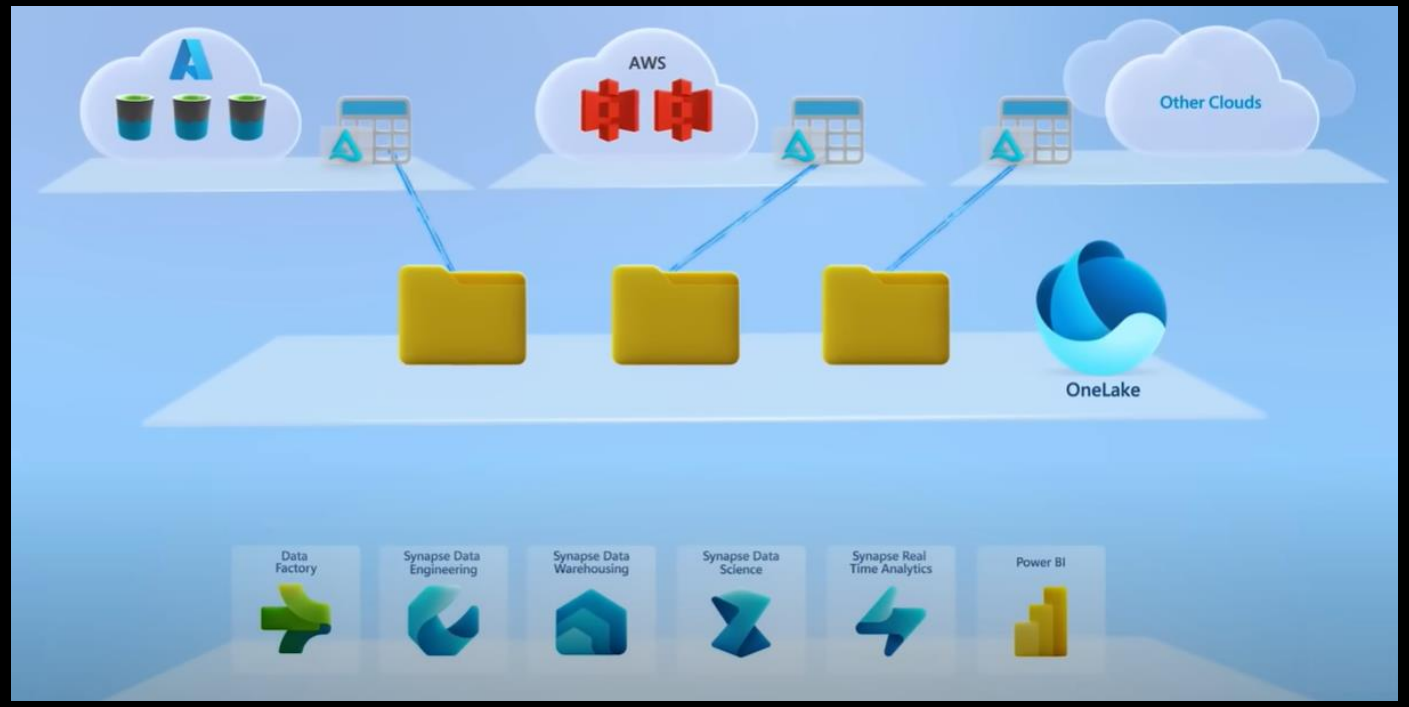
# Shortcuts to other clouds

Bring in data across domains, clouds (Azure, AWS, GCP,.. ) and accounts by creating a single virtualized data lake for your entire enterprise using Shortcuts in OneLake.

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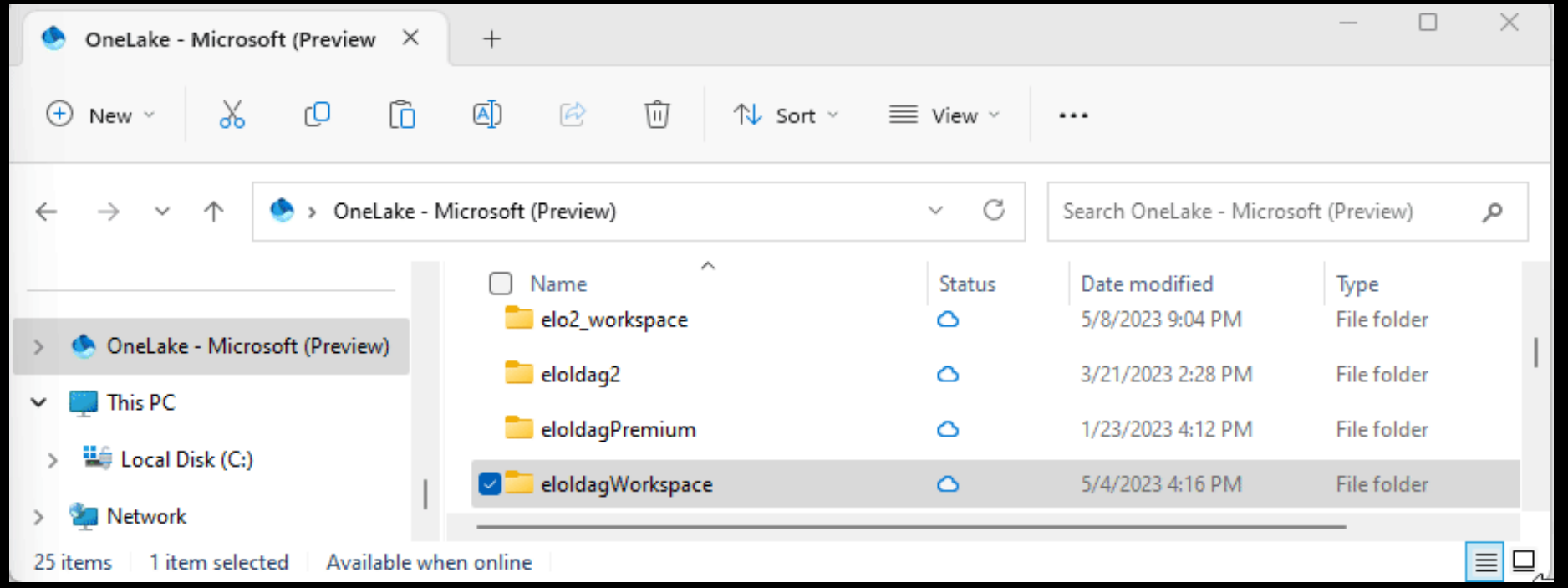
# Onedrive for data

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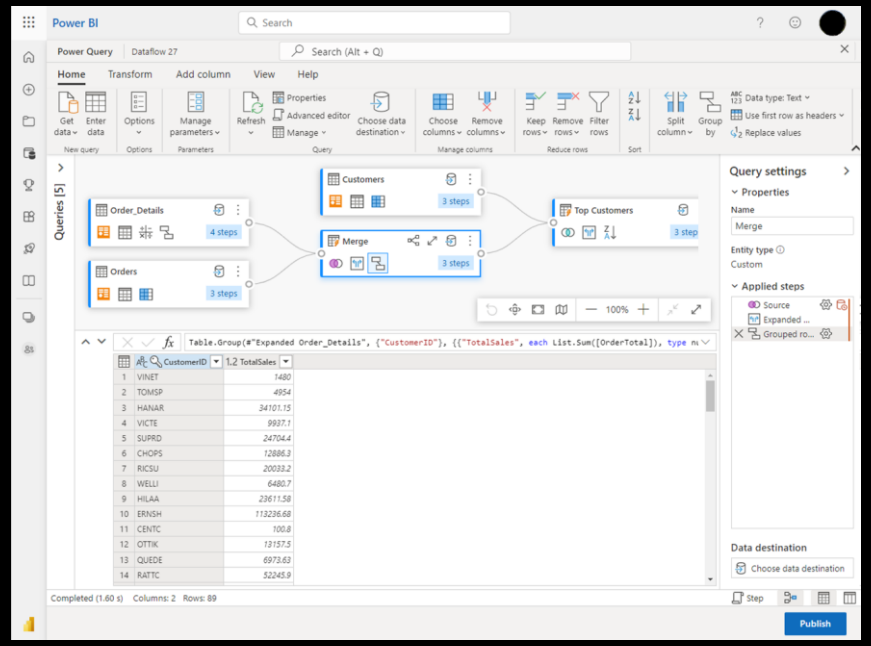
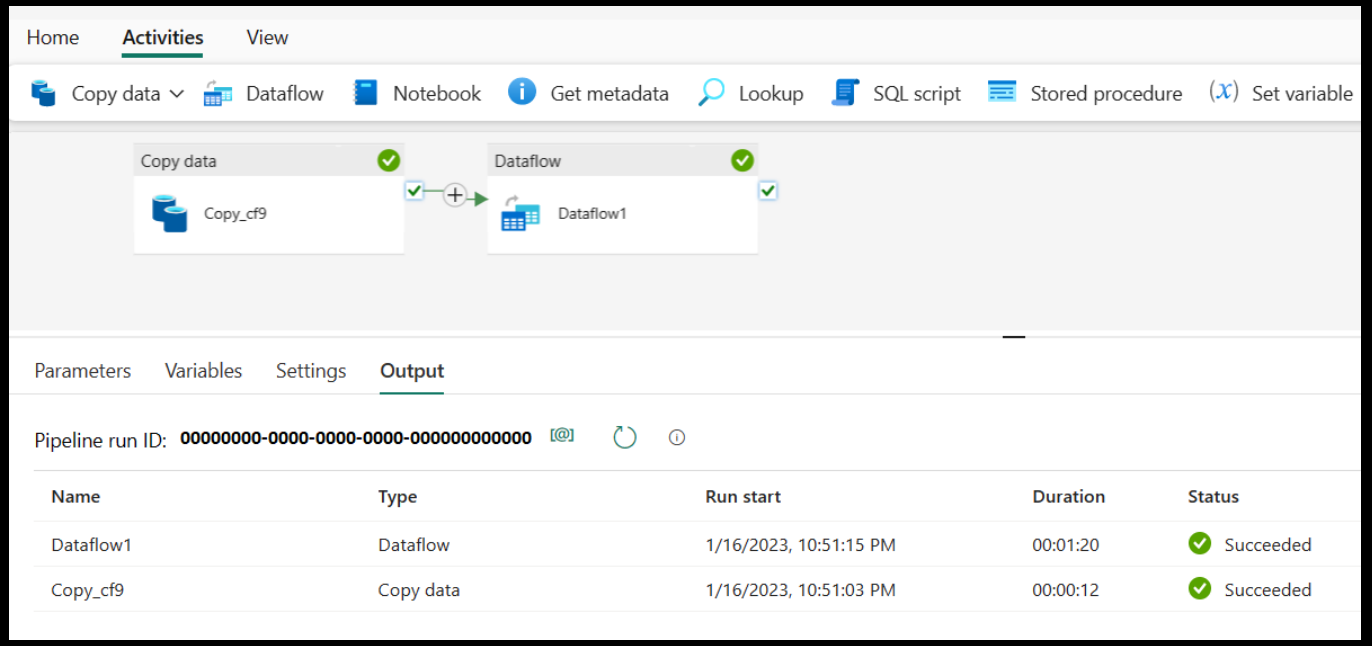
# Data Integration

Data Factory empowers you with a modern data integration experience to ingest, prepare and transform data from a rich set of data sources.

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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!

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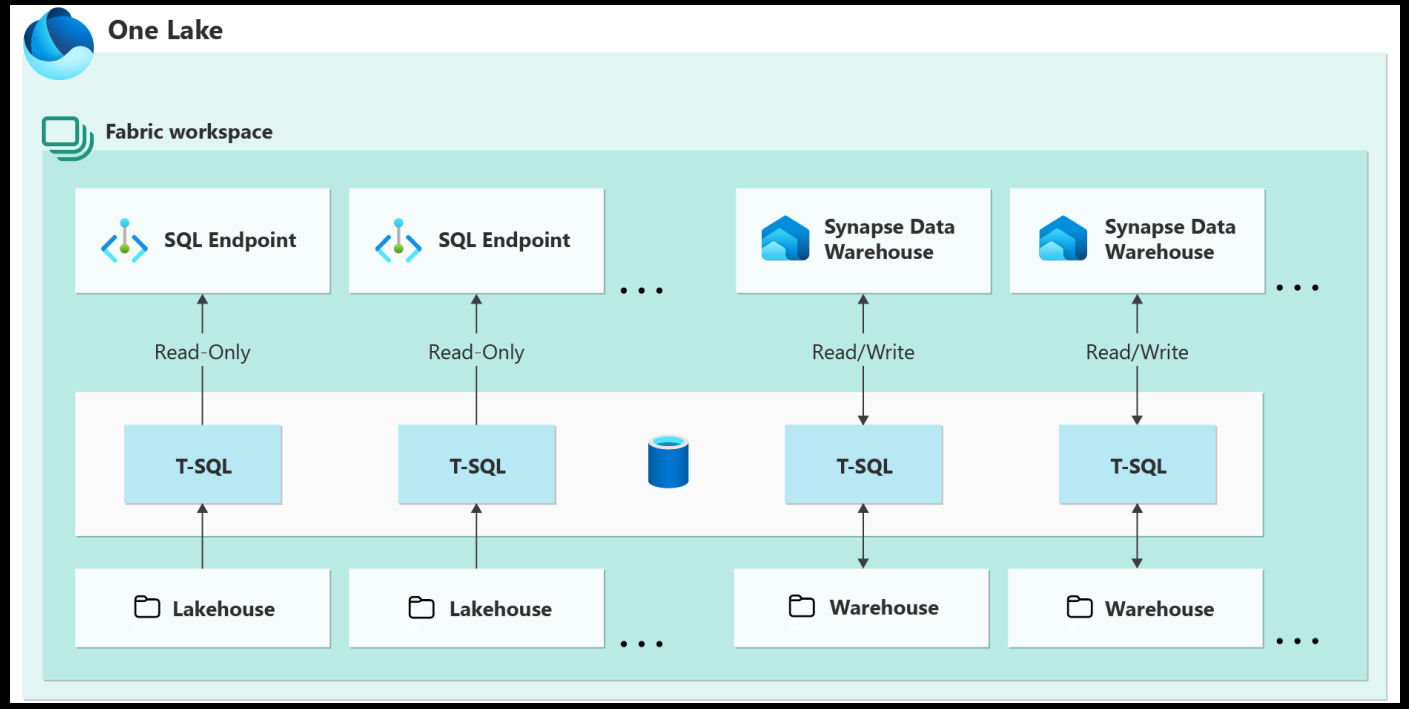
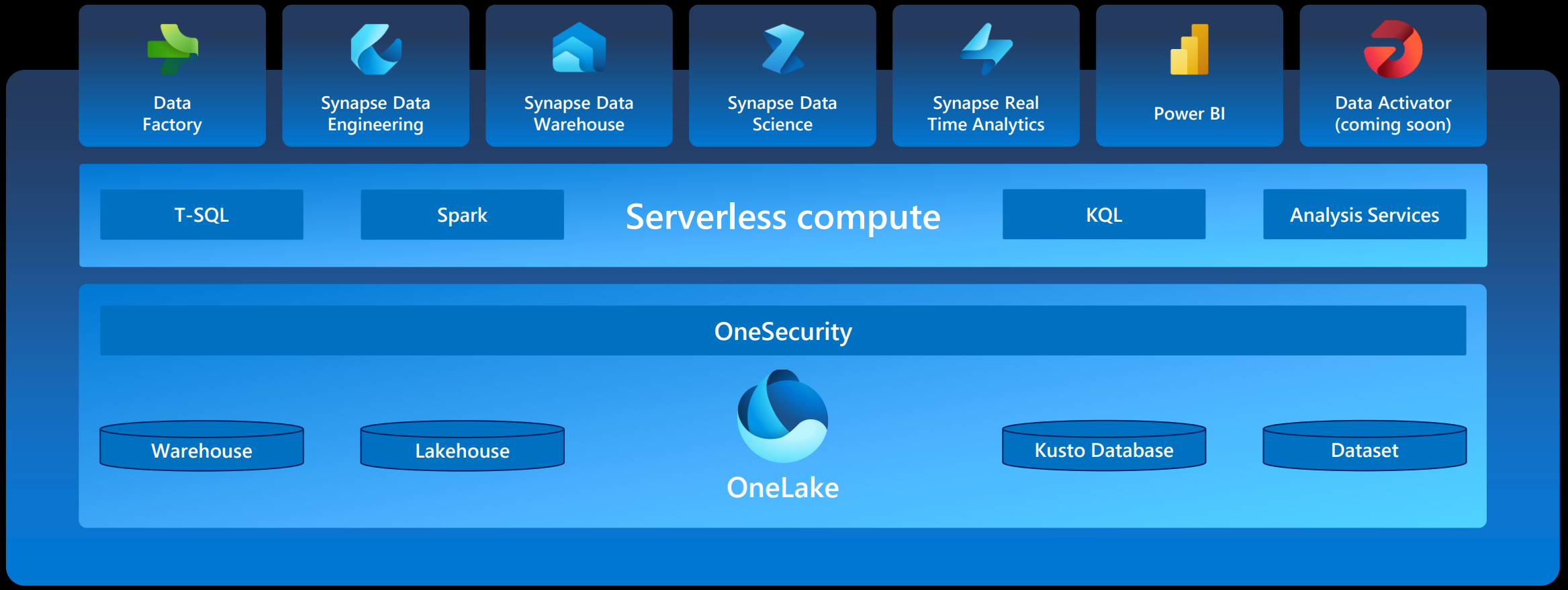
# Data Warehousing

Capability to structure data in table format to build an enterprise grade distribution method to enable T-SQL interaction on top of delta files in OneLake in a recognizable interface!



# One unified platform

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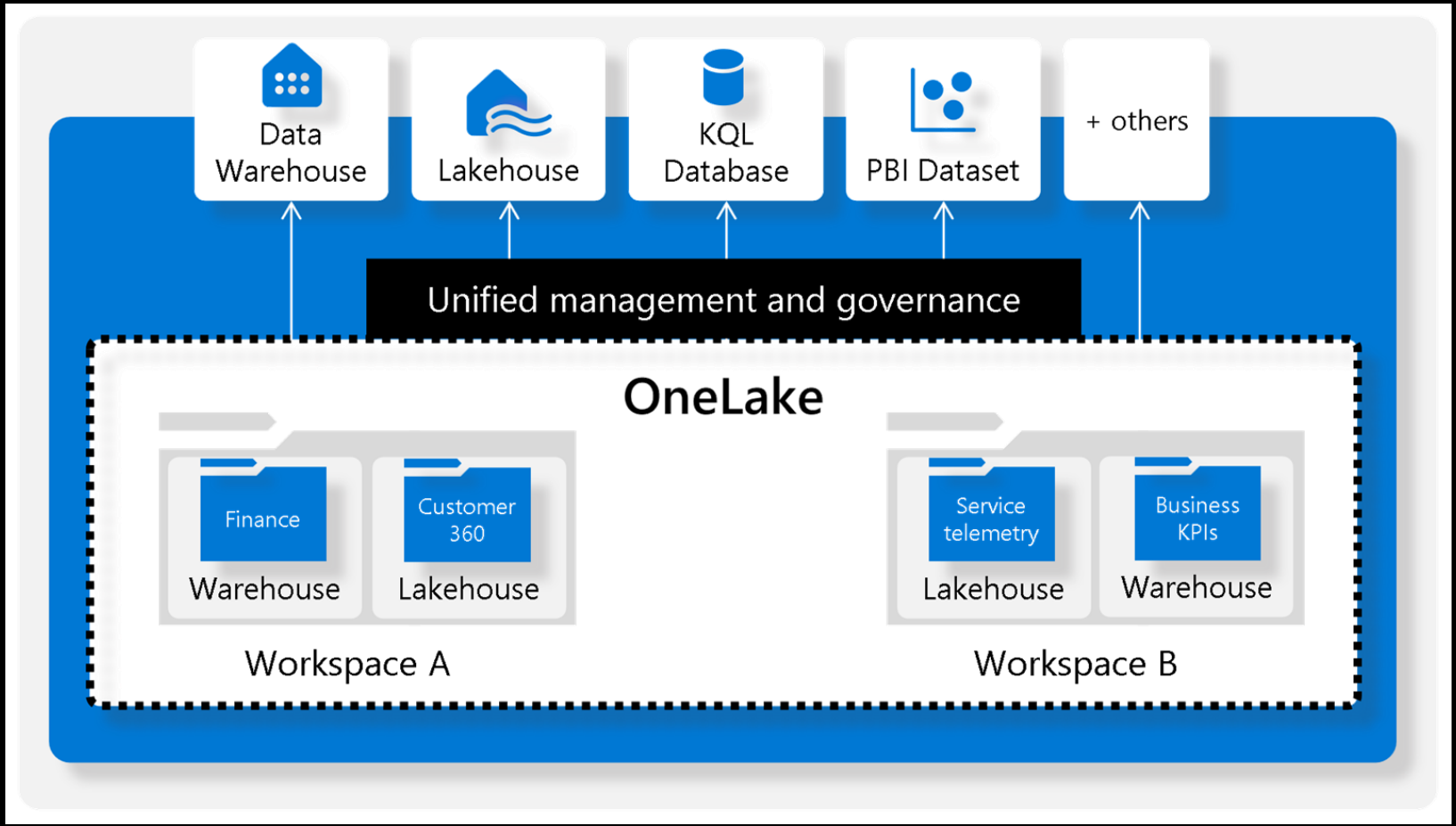
# Managed through workspace experience

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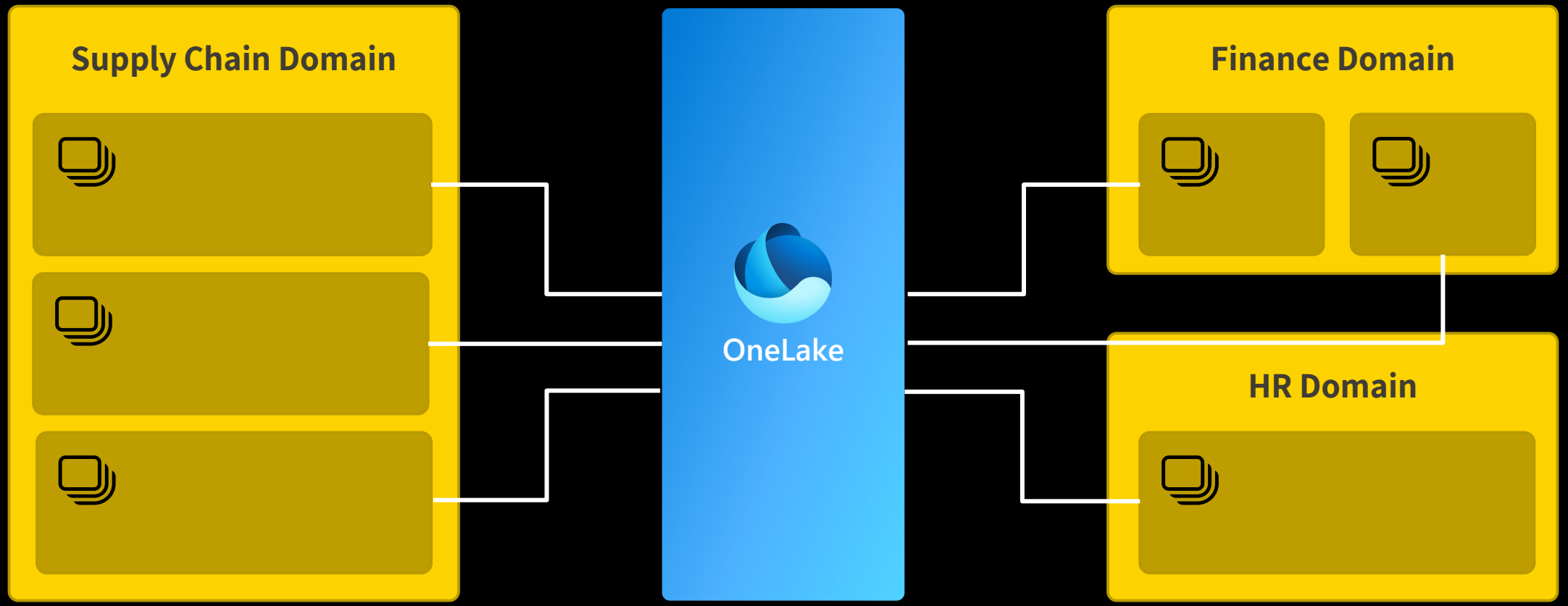
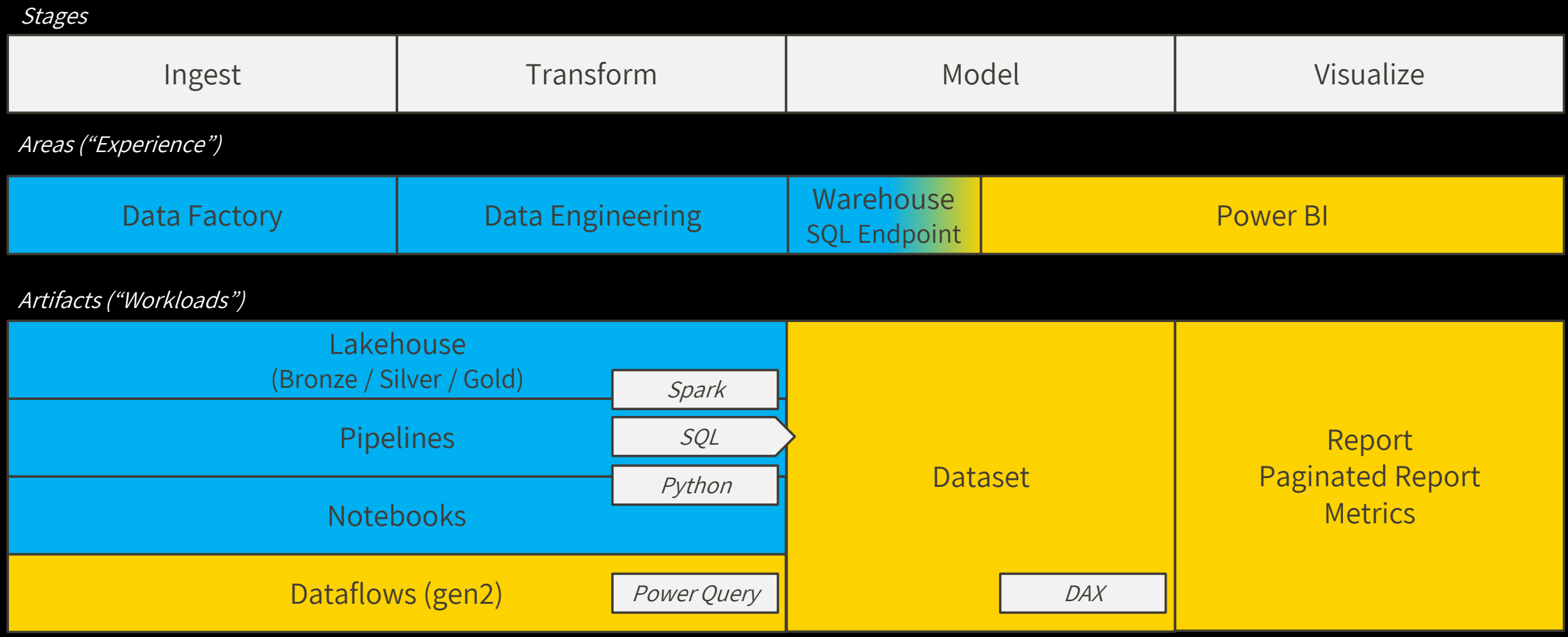
# Supporting data mesh through domains

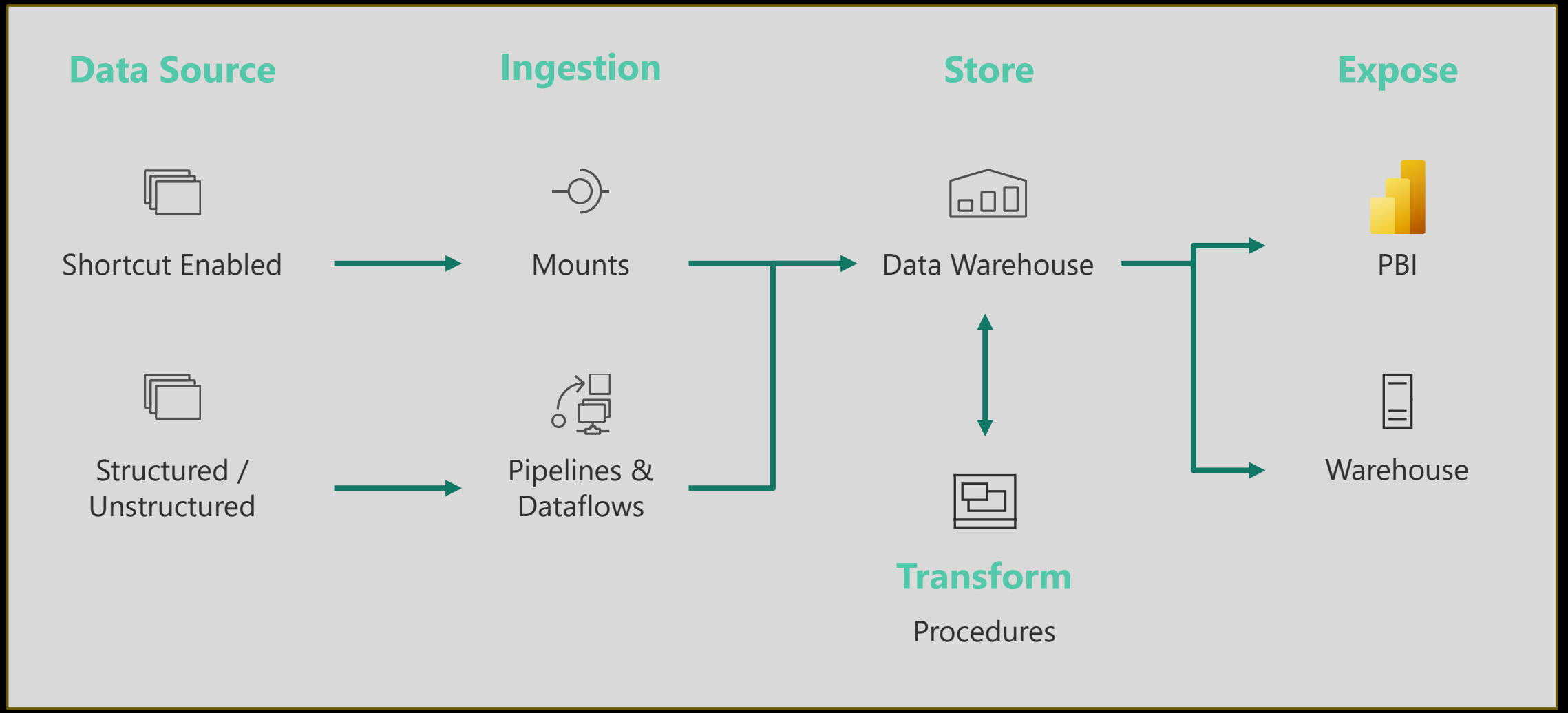


# Let’s run some end-to-end examples

# End to end flow

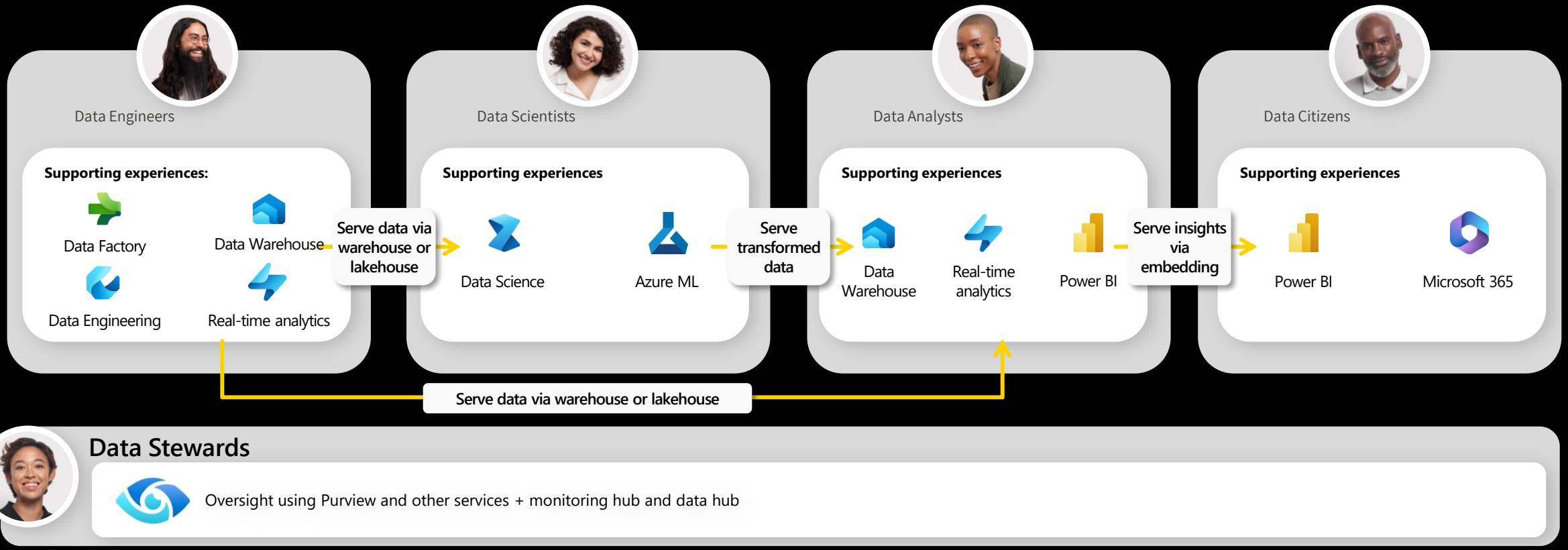


# Solution Architecture to get you started



# Demo time!

# Personas and their usage of Fabric

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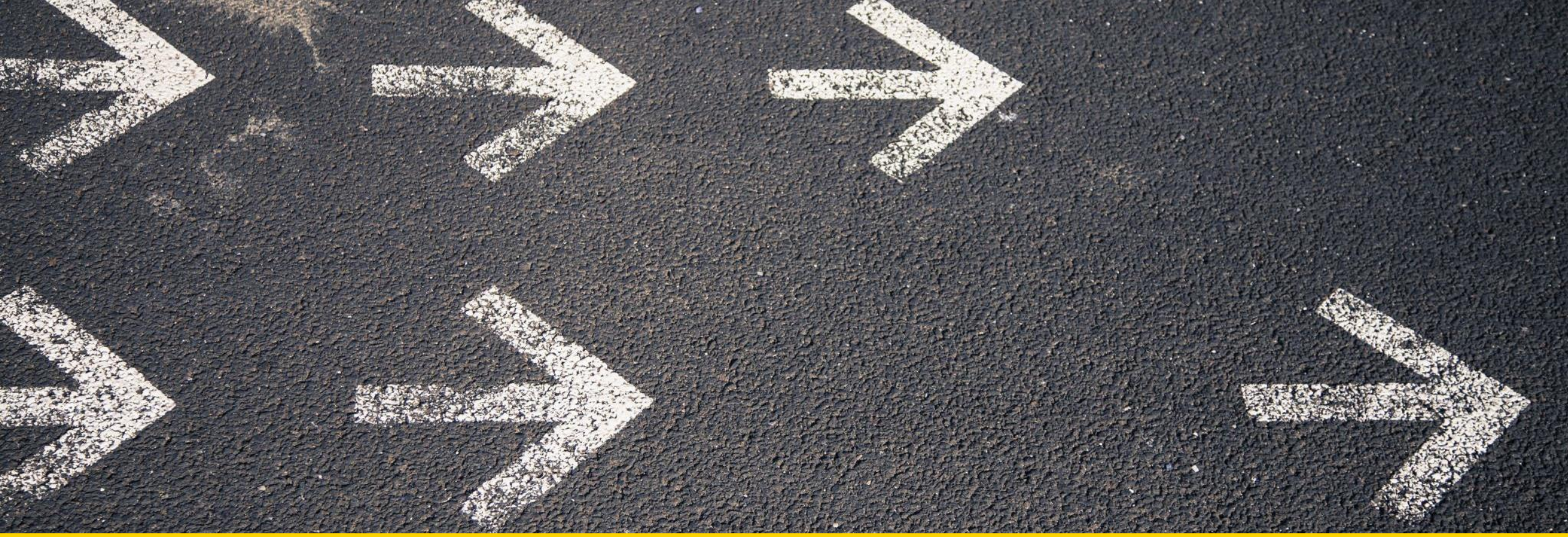
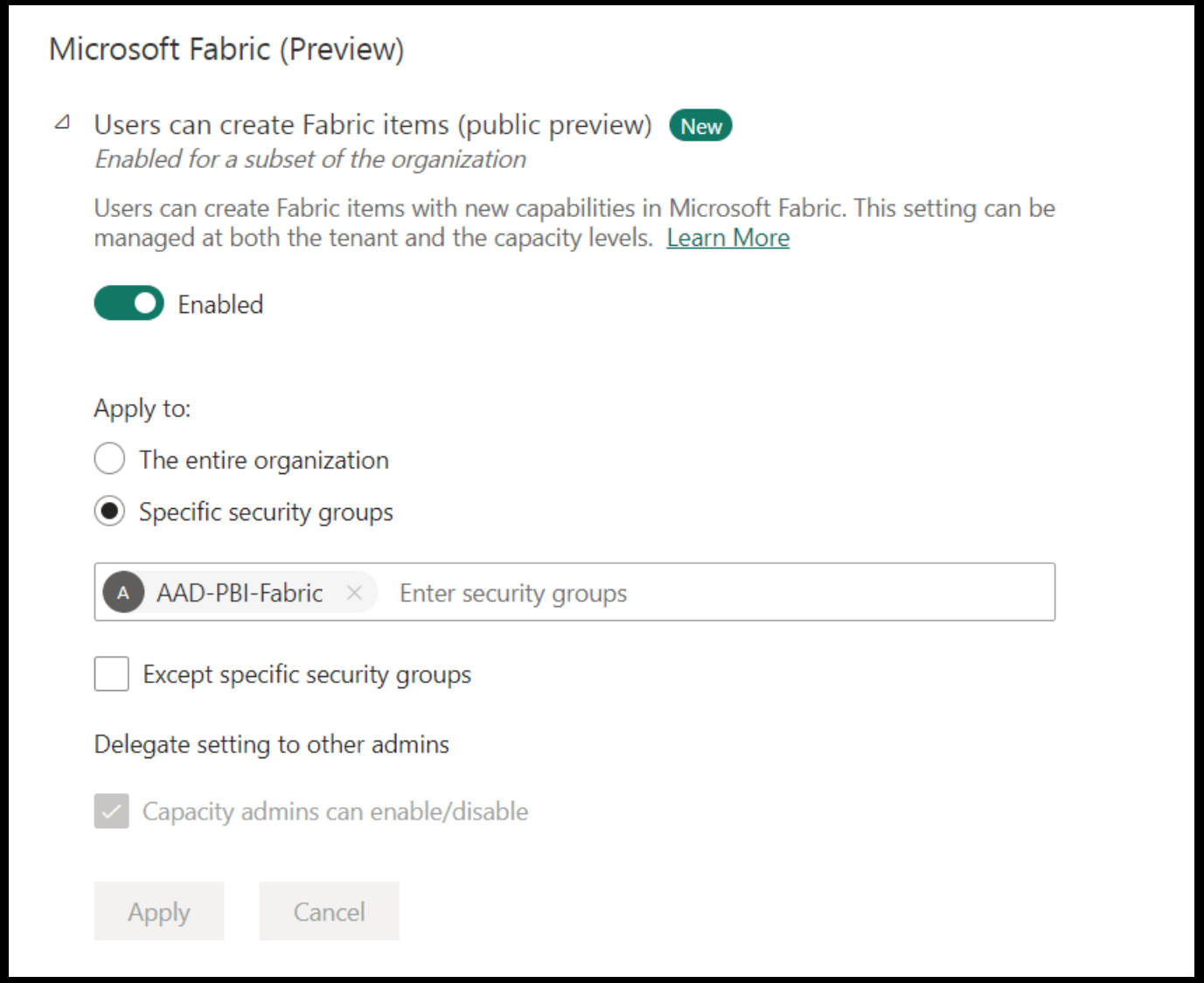


# Next steps

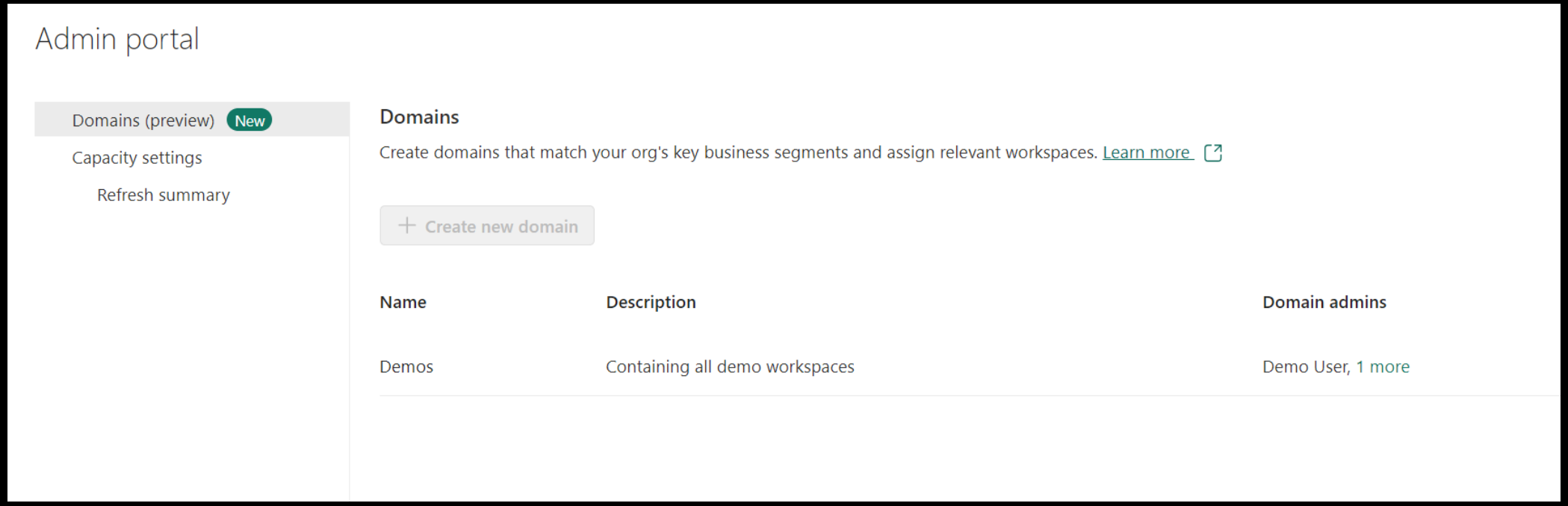
# As a ~~Power BI Service~~ Fabric Administrator



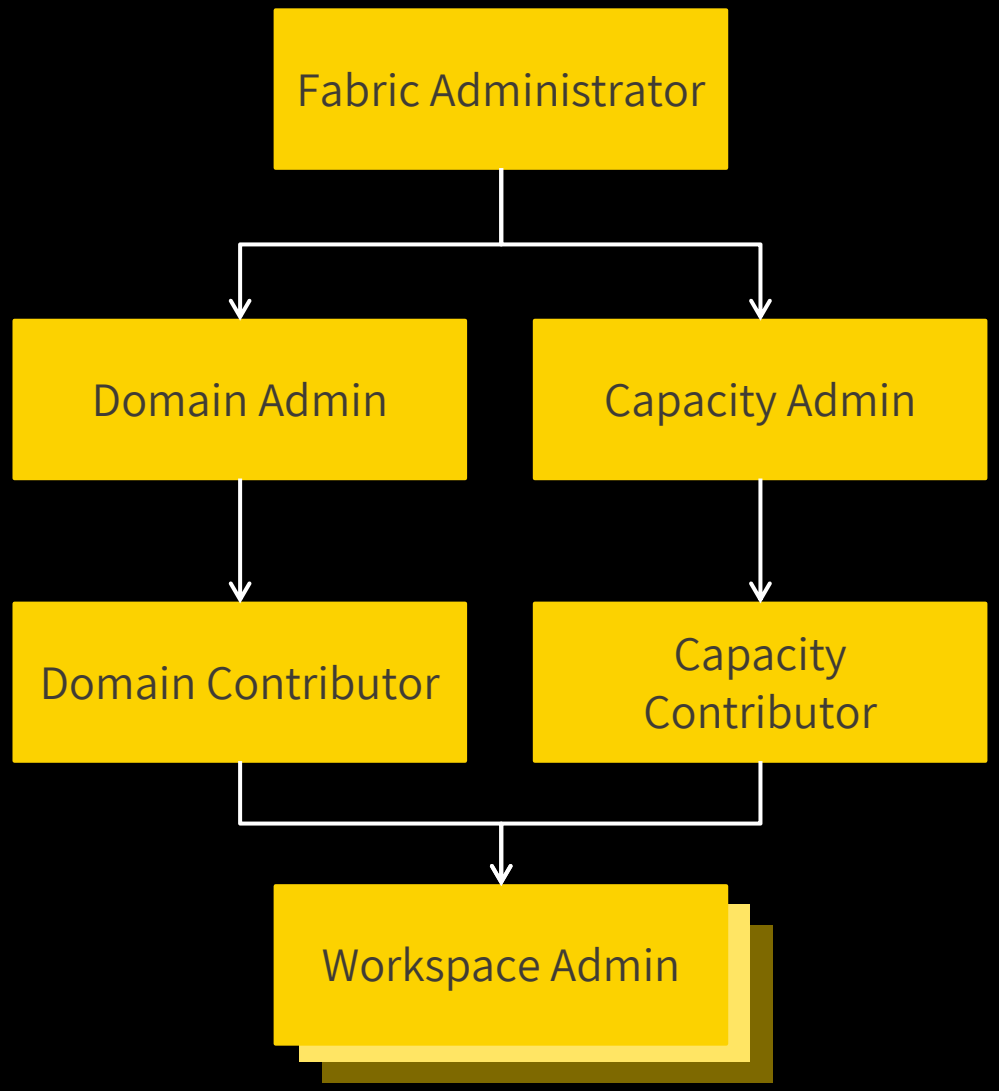

You're in control of the tenant settings, make sure you put together a security group that can start testing Fabric!

# As a ~~Power BI Service~~ Fabric Administrator

Start taking advantage of Domains, this 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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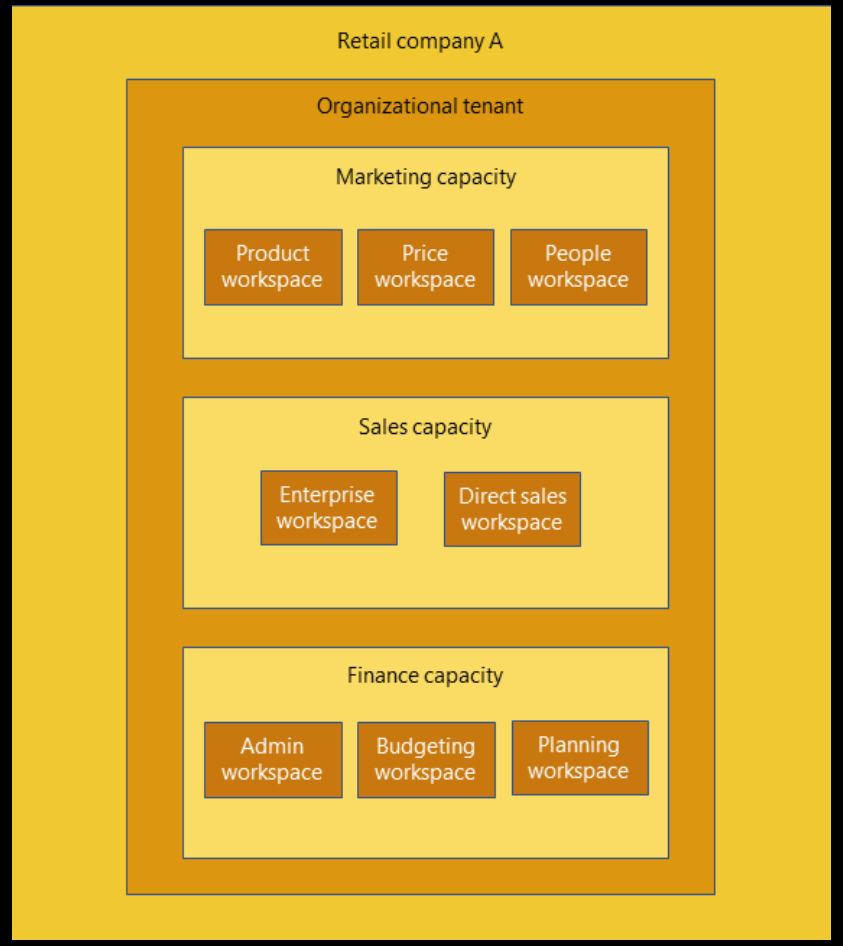
# Fabric capacities

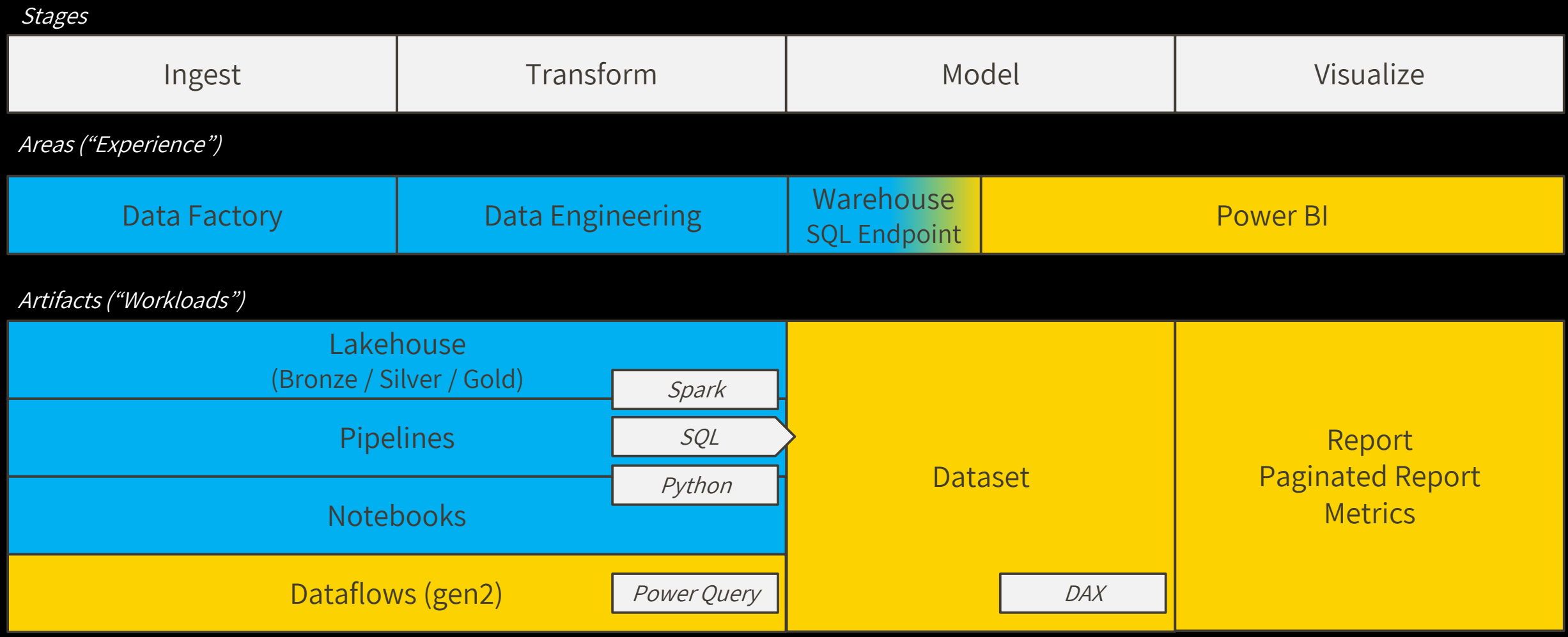



| SKU* | Capacity Units (CU) | Power BI SKU | Power BI v-cores |
|---|---|---|---|
| F2 | 2 | - | 0.25 |
| F4 | 4 | - | 0.5 |
| F8 | 8 | EM/A1 | 1 |
| F16 | 16 | EM2/A2 | 2 |
| F32 | 32 | EM3/A3 | 4 |
| **F64** | **64** | **P1/A4** | **8** |
| F128 | 128 | P2/A5 | 16 |
| F256 | 256 | P3/A6 | 32 |
| F512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

# End to end flow



# 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/

# Thanks for attending!

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