



Welcome to FabCon Update

A wide-angle photograph of the Atlanta city skyline at dusk or night. The sky is a deep blue/purple, and the city lights from numerous skyscrapers and buildings are visible, creating a vibrant urban landscape.

Microsoft Fabric
COMMUNITY CONFERENCE

3rd Annual Fabric Community Conference in the US



Atlanta, GA

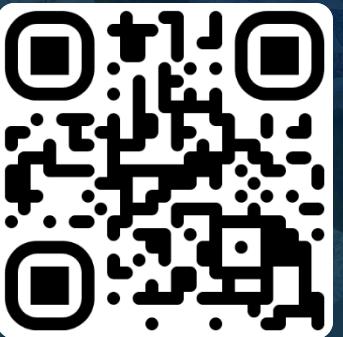
16 – 20 March 2026

aka.ms/FabCon



Microsoft Fabric
COMMUNITY CONFERENCE

3rd Annual Fabric Community Conference in Europe



Barcelona, Spain

28 September – 1 October 2026

aka.ms/FabCon-EU



Since general availability
23 months ago



25,000+

Fabric customers

Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Analytics



Databases



Real-Time
Intelligence



Power BI

Fabric Platform



AI



OneLake



Governance

Major announcements at FabCon Vienna

Platform area

Real-Time Intelligence and Analytics

Announcements

- The preview of **graph in Fabric** which reveals connections with intuitive visual exploration
- The preview of **maps in Fabric** which brings geospatial context to your agents and operations
- The preview of **RTI Eventhouse Endpoint and Anomaly Detector**
- The general availability of **Fabric notebooks with Python**
- The preview of **AI functions in Data Wrangler**
- The general availability of the **migration experience**
- 36% performance improvement in for **Fabric Data Warehouse**
- The preview of **incremental refresh and support for Native Execution Engine in materialized lake views**

OneLake

- The preview of **Mirroring for Oracle and Google Big Query**
- The preview of the **new Secure tab in the OneLake catalog**
- The general availability of the **OneLake catalog Govern tab**
- The preview of **OneLake diagnostics**
- The general availability of **shortcuts to Azure Blob Storage** and the preview of new **OneLake shortcut transformations** (JSON and Parquet)
- The preview of a new **Copilot experience for the OneLake catalog**
- The preview of a new **OneLake Table API**

Security and admin

- The general availability of **Azure Private Links in Fabric for workspaces, customer managed keys, and outbound access protection for Spark**
- The preview of **workspace IP filtering**
- The preview of **outbound access protection to FDF and FDW**
- The preview of **mirroring to support on-premises data sources and data sources behind firewalls**
- The general availability of **surge protection for background jobs** and preview of **surge protection for workspaces**
- The general availability of **Purview security integrations**
- The preview of **item recovery**

Developer experiences

- The preview of the **Fabric Extensibility Toolkit**—an evolution of the Fabric WDK
- The preview of **Fabric MCP**
- With the general availability of **Git integration and deployment pipelines** across the Fabric platform
- The preview of **CI/CD support to Fabric data agents**
- The general availability of **User Data Functions in Fabric**
- The general availability of the **Fabric VS Code extension**
- The release of the **open-source version of the command line interface in Fabric**
- The release of **horizontal tabs for open items, support for multiple active workspaces, and a new object explorer**

Databases and Power BI

- The general availability of **enhancements to Copilot in Power BI** incl descriptions for measures and DAX query generation
- The general availability of **editing semantic models in the Power BI service** and PowerQuery support for import semantic models, Direct Lake and import composite semantic models, and the ability to create paginated reports
- The preview of enhancements to SQL database in Fabric: **Copilot & Query Editor improvements, REST API-based mirroring control, flexible backup retention, and Git integration**
- The preview of mirrored database support in Fabric data agent

CI/CD Support for All Fabric Items

Git Integration

100%

Support

Deployment Pipelines

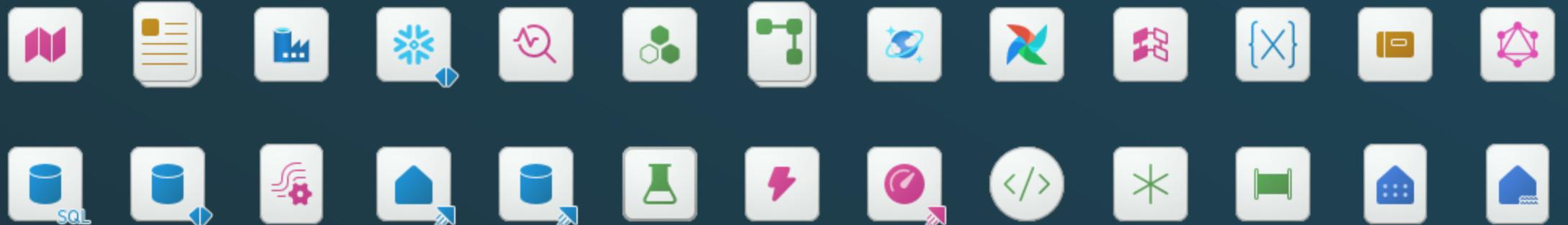
100%

Support

Public Format

100%

Support



Unify data in OneLake with zero ETL

Shortcut & mirroring sources

Generally available



Azure
SQL DB



Azure Data
Lake store



Microsoft
OneLake



Google Cloud
Storage



Microsoft
Dataverse

Snowflake

Snowflake



Amazon S3



S3 Compatible
(cloud/On-prem)



Databricks
Catalog



Azure
SQL MI



Azure Blob
storage

Public preview



Azure
Cosmos DB



Azure
PostgreSQL



Oracle
DB



SQL
Server



Google
BigQuery



SQL
Server 2025

Shortcut transformations

Unpacked

AI



CSV to Delta



PII detection



Translate



Text summary



Non-AI



Parquet to Delta

New



Conversation



Sentiment



Name
recognition



Key phrase
extraction



JSON to Delta

New

Google Cloud Select a project Search (/) for resources, docs, products, and more Search

Explorer + Add data LINEITEM

Search BigQuery resources

Show starred only

- mirrorbugash
- contosoproject-469422
- mirrore2etest
- retailgbq
 - Repositories
 - Queries
 - Notebooks
 - Data canvases
 - Data preparations
 - Pipelines
 - External connections
- tpch
 - CUSTOMER_1M
 - LINEITEM
 - LINEITEM_5M
 - LINEITEM_60M
 - NATION

LINEITEM

Query Open in Share Copy Snapshot Delete Export Refresh

Schema Details Preview Table Explorer Preview Insights Lineage Data Profile Data Quality

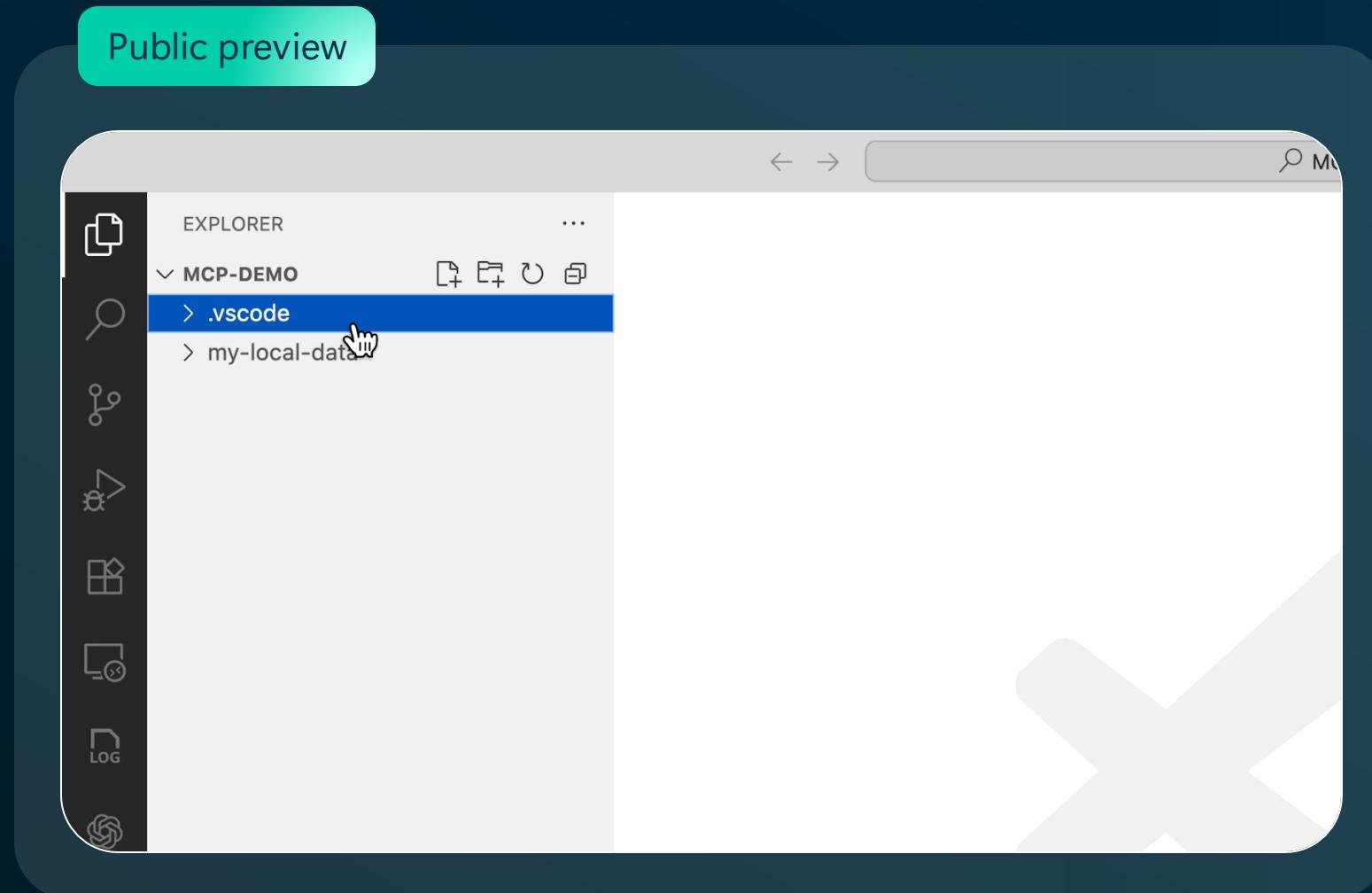
Filter Enter property name or value

Field name	Type	Mode	Key	Collation	Default Value	Policy Tags	Data Policies	Description
L_ORDERKEY	BIGNUMERIC	NULLABLE	PK	-	-	-	-	-
L_PARTKEY	BIGNUMERIC	NULLABLE	-	-	-	-	-	-
L_SUPPKEY	BIGNUMERIC	NULLABLE	-	-	-	-	-	-
L_LINEBIGNUMERIC	BIGNUMERIC	NULLABLE	-	-	-	-	-	-
L_QUANTITY	NUMERIC	NULLABLE	-	-	-	-	-	-
L_EXTENDEDPRICE	NUMERIC	NULLABLE	-	-	-	-	-	-
L_DISCOUNT	NUMERIC	NULLABLE	-	-	-	-	-	-
L_TAX	NUMERIC	NULLABLE	-	-	-	-	-	-
L_RETURNFLAG	STRING	NULLABLE	-	-	-	-	-	-
L_LINESTATUS	STRING	NULLABLE	-	-	-	-	-	-
L_SHIPDATE	DATE	NULLABLE	-	-	-	-	-	-
NATION	COMMITDATE	DATE	NULLABLE	-	-	-	-	-
	RECEIPTDATE	DATE	NULLABLE	-	-	-	-	-
	L_SHIPINSTRUCT	STRING	NULLABLE	-	-	-	-	-
	L_SHIPMODE	STRING	NULLABLE	-	-	-	-	-
	L_COMMENT	STRING	NULLABLE	-	-	-	-	-

Edit schema View row access policies

Repository Preview Job history Refresh

Fabric MCP for Developers



Simplify code generation and item authoring with Fabric APIs

Generate deployment scripts to orchestrate workflows

Built into Microsoft MCP platform for VS Code/GitHub compatibility

Open source for the community:
aka.ms/FabricMCP

Real-Time Anomaly Detector

Public preview

The screenshot shows the Microsoft DXT Real-Time hub interface. The top navigation bar includes 'Microsoft DXT' and 'Fabric'. A 'Trial: 8 days left' message is visible. The main header reads 'Discover, analyze, and act on data-in-motion'. On the left, a sidebar lists 'Home', 'Workspaces', 'Copilot', 'OneLake catalog', 'Monitor', 'Real-Time' (selected), 'Workloads', 'ad_Fabcon_demo', and 'My workspace'. The 'Real-Time' section contains links for 'Subscribe to OneLake events', 'Act on Job events', and 'Visualize data'. Below this is a 'Recent streaming data' section with a table:

Data	Source item	Item owner	Workspace	Endorsed
BaggageDelay	Fabcon_Demo	Italo Lima	ad_Fabcon_demo	—

Detect operational anomalies instantly with no-code tooling

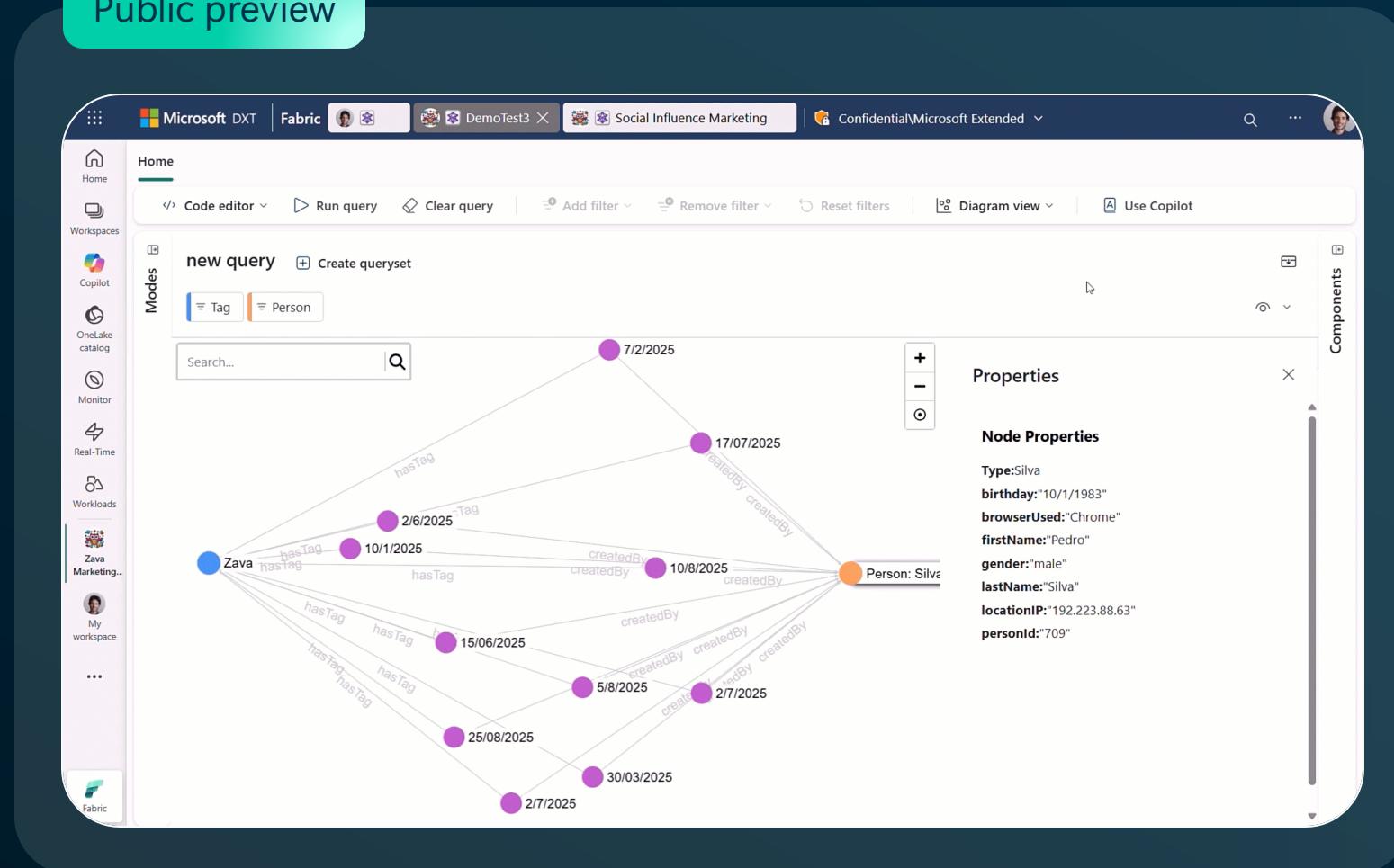
Rely on automated ML models to scan real-time streams 24/7

Empower business users to act on easily overlooked signals

Integrated with Fabric RTI, from Eventhouse to Activator

Graphs in Fabric

Public preview



Build graph models over OneLake with no-code simplicity

LinkedIn-style graph engine powers operational insights

Uncover multi-hop relationships to connect entities and events

Query your way—with code or a visual editor, Copilot included

Dataflow Gen2 races ahead

Run duration (seconds)

- Dataflow Gen1
- Dataflow Gen2 (no perf enhancements)
- Dataflow Gen2 with Modern Query Evaluator
- Dataflow Gen2 with Modern Query Evaluator and parallelized execution

4,762

2,944

1,601

480

16,695

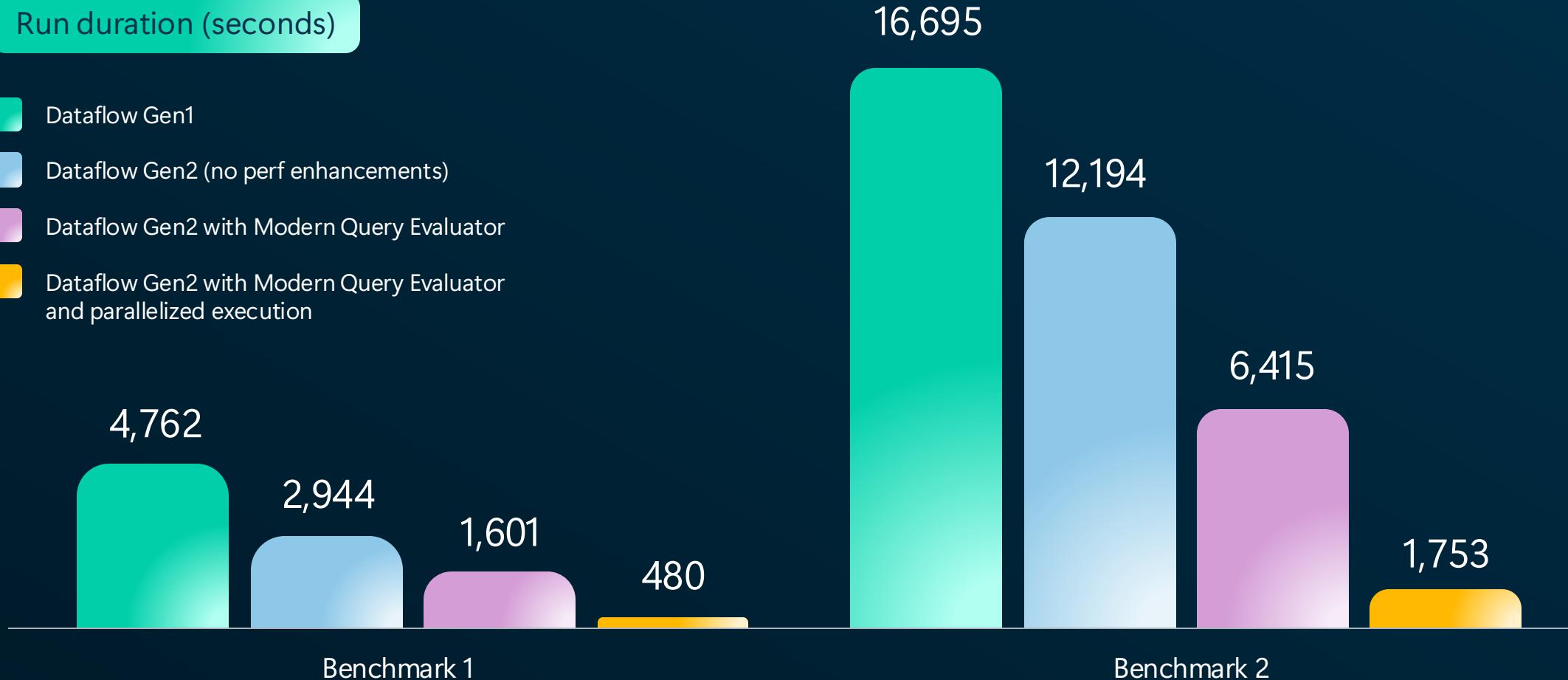
12,194

6,415

1,753

Benchmark 1

Benchmark 2



OneLake.Table Endpoint

Coming soon

The screenshot shows a software interface for managing data warehouses and executing queries. On the left, a sidebar lists workspaces, including 'CustomerVoice' (selected) and others like 'Monitor', 'Real-Time', 'Workloads', 'ZavaERP', and various 'CustomerVoice' instances. The main area has tabs for 'Home' and 'Help'. Below these are sections for 'Warehouses' (Tables, Channels, EmailRecords, Products, Promotions, Supplier, Views, Functions, Stored Procedures, queryinsights, sys, Security), 'Queries' (My queries, Sentiment analysis 1, Sentiment analysis 2, Shared queries), and a 'Copilot' section. A central pane displays a query editor with the following SQL code:

```
1 SELECT c.CustomerID,
2     c.CustomerName,
3     ROUND(AVG(s.PositiveConfidenceScore), 3) AS AvgPositiveConfidenceScore
4 FROM [CustomerVoice].[mirroredGBQ].[CUSTOMER_1M] c
5 JOIN [CustomerVoice].[mirroredOracle].[EmailRecords] cr
6 ON c.CustomerID = cr.CustomerID
7 JOIN [CustomerVoice].[dbo].[sentiment] s
8 ON s_filepath__ LIKE CONCAT('%', cr.EmailID, '.txt')
9 GROUP BY c.CustomerID, c.CustomerName
10 ORDER BY AvgPositiveConfidenceScore DESC;
```

Below the query editor is a results table titled 'Results' with columns: CustomerID, CustomerName, and AvgPositiveConfidenceScore. The data is as follows:

	CustomerID	CustomerName	AvgPositiveConfidenceScore
1	1156	Jennifer Walker	0.655
2	237	James Young	0.625
3	360	Joshua Walker	0.593
4	988	Jennifer Mitchell	0.483
5	787	Mary Carter	0.314
6	431	James Rodriguez	0.202
7	1288	Dorothy Torres	0.176
8	1721	Elizabeth Taylor	0.169
9	935	Brian Moore	0.124

At the bottom, status messages indicate 'Succeeded (2 sec 998 ms)' and 'Copilot completions: Off'.

Open-source table APIs
directly atop your OneLake estate

Automatically available with
no extra catalogs required

Compatible with both Iceberg-
and Delta-compliant clients

Access all OneLake tables
through any interface

Maps in Fabric

Public preview

The screenshot shows the Microsoft Fabric interface with a "Retail_Operations" workspace selected. The left sidebar includes links to Home, Workspaces, Copilot, OneLake catalog, Monitor, Real-Time, Workloads, and the current Retail Operations workspace. The main content area displays a map with a heatmap overlay representing footfall or delivery activity. A legend titled "Data layers" lists the following items:

- Locations
- Distribution Lines
- Revenue by District
- Online Orders
- Delivery Drivers
- Delivery Routes
- Footfall

At the bottom of the map, there is a Microsoft Azure logo and a copyright notice: "©2025 OSM ©2025 TomTom ©2025 Vexcel Feedback".

Visualize location data simply and seamlessly in Fabric

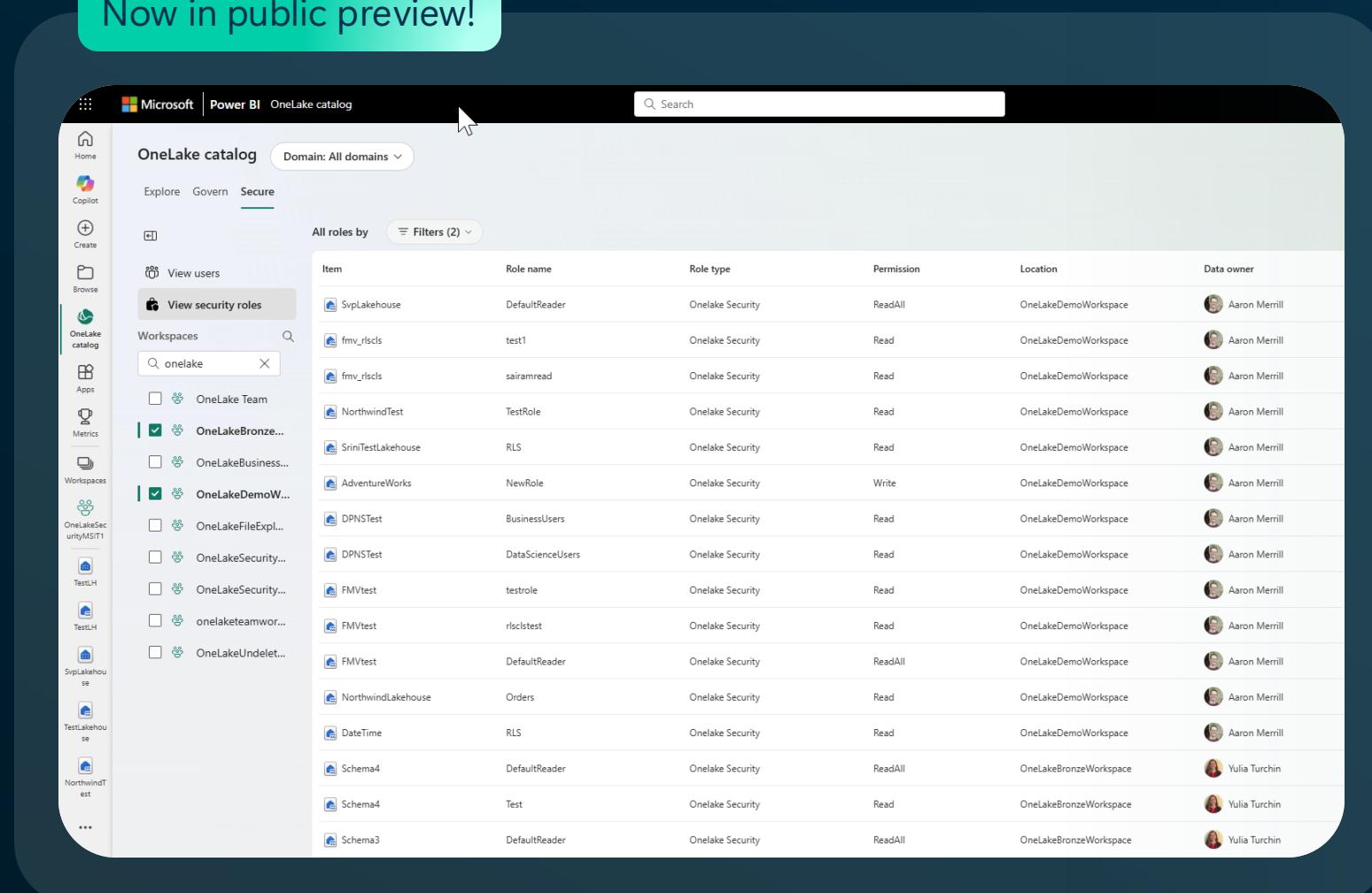
Transform real-time streams into live, multi-layer maps

Build geospatial apps without code or complexity

Uncover insights with Lakehouse or Eventhouse as your source

OneLake security

Now in public preview!



The screenshot shows the Microsoft Power BI OneLake catalog interface. On the left is a navigation sidebar with various options like Home, Copilot, Create, Browse, OneLake catalog, Apps, Metrics, Workspaces, and OneLakeSecurityMST1. The main area has tabs for Explore, Govern, and Secure. The Secure tab is selected, showing a table of security roles. The table columns are Item, Role name, Role type, Permission, Location, and Data owner. The table lists numerous roles such as DefaultReader, test1, sairamread, TestRole, RLS, NewRole, BusinessUsers, DataScienceUsers, etc., across different workspaces like OneLakeDemoWorkspace, OneLakeBronzeWorkspace, and OneLakeBronzeWorkspace. A search bar at the top right says "Search".

Item	Role name	Role type	Permission	Location	Data owner
SvpLakehouse	DefaultReader	Onelake Security	ReadAll	OneLakeDemoWorkspace	Aaron Merrill
fmv_rlscls	test1	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
fmv_rlscls	sairamread	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
NorthwindTest	TestRole	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
SriniTTestLakehouse	RLS	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
AdventureWorks	NewRole	Onelake Security	Write	OneLakeDemoWorkspace	Aaron Merrill
DPNSTest	BusinessUsers	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
DPNSTest	DataScienceUsers	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
FMVtest	testrole	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
FMVtest	rlscls1test	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
FMVtest	DefaultReader	Onelake Security	ReadAll	OneLakeDemoWorkspace	Aaron Merrill
NorthwindLakehouse	Orders	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
DateTime	RLS	Onelake Security	Read	OneLakeDemoWorkspace	Aaron Merrill
Schema4	DefaultReader	Onelake Security	ReadAll	OneLakeBronzeWorkspace	Yulia Turchin
Schema4	Test	Onelake Security	Read	OneLakeBronzeWorkspace	Yulia Turchin
Schema3	DefaultReader	Onelake Security	ReadAll	OneLakeBronzeWorkspace	Yulia Turchin

Define security on specific folders, rows (RLS), and columns (CLS) to share data without exposing sensitive data

Uniformly enforce access across all Fabric engines so users only access the data they need

New Manage all your OneLake security roles and permissions from the Secure tab in the OneLake catalog

Tenant and workspace-level security in Fabric

Tenant-level security



Microsoft Entra



Azure Private Links



Secure by default

Workspace-level security

Outbound trusted
workspace access

Generally available

Azure
private links

GA in Sept

Outbound access
protection

GA in Sept

Customer managed
keys in OneLake

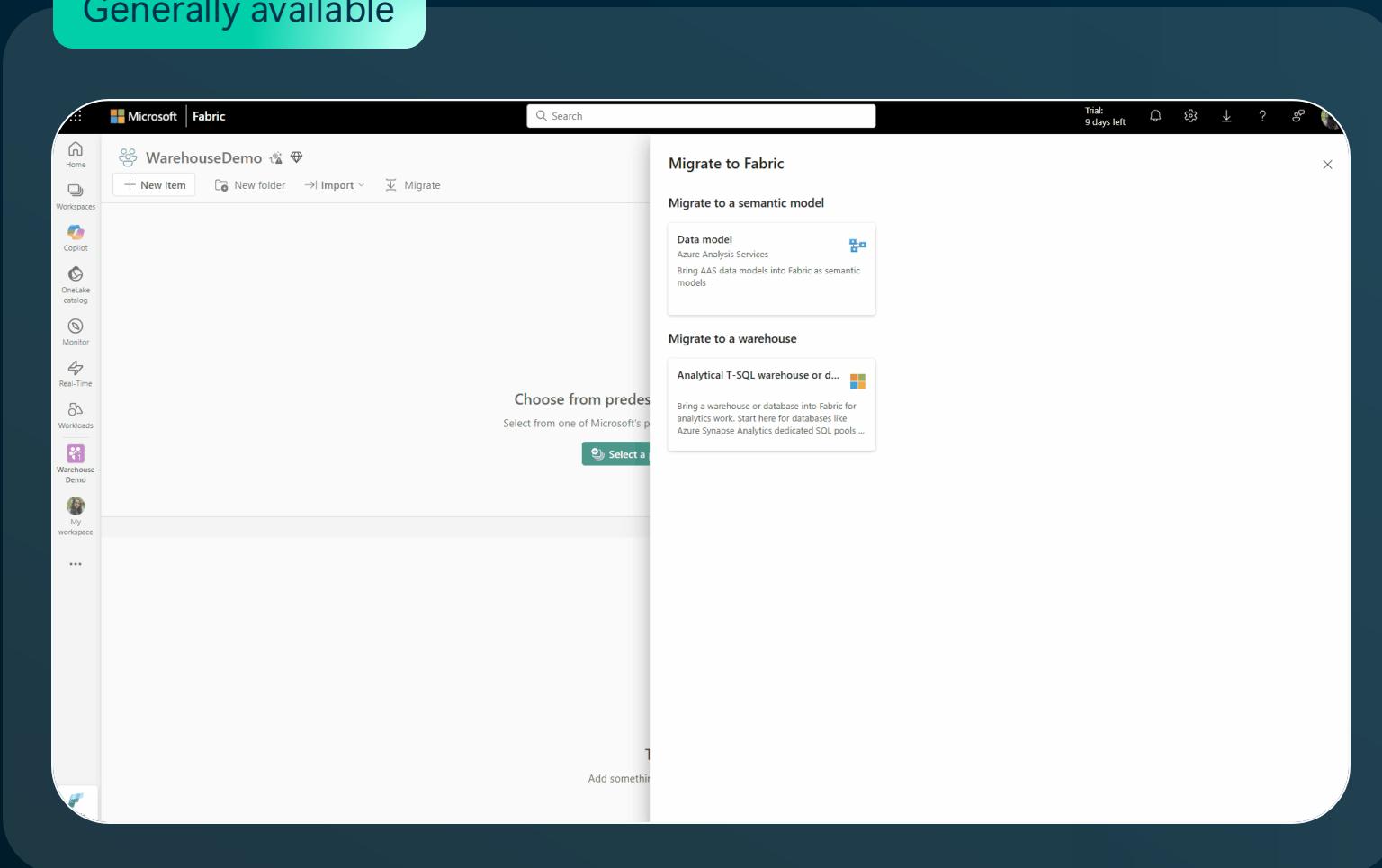
Now in preview

Workspace
IP filtering

Preview in Oct

Warehouse Migration Assistant

Generally available



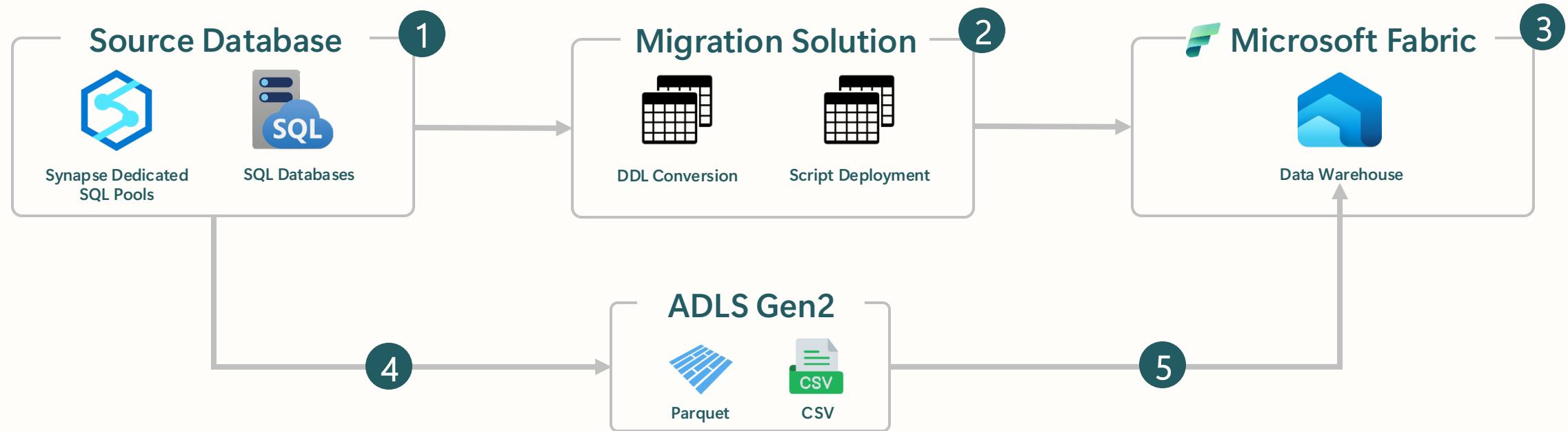
Self-service Migration Assistant
is now generally available

Empower every organization
to **migrate with ease**

AI-powered guidance to rank
and prioritize migration tasks

Seamless data integration lets
you **cut over with confidence**

Migrating to Fabric Data Warehouse



- 1 Identify a source and create a DACPAC file
- 2 Migrate the data warehouse using the DACPAC file
- 3 Review the successfully migrated objects in the Fabric data warehouse

- 4 Copy the source data to ADLS Gen2 into Parquet or CSV format
- 5 Load the data to the Fabric data warehouse using the COPY INTO T-SQL command

Power BI

https://dxt.powerbi.com/groups/3062d3c6-77ec-4d5e-a7b6-6996a4745714/list?experience=power-bi

Microsoft DXT | Power BI Migration demo

Search

Trial:
7 days left

Create deployment pipeline | Create app | Manage access | Workspace settings

New item | New folder | Import | Migrate | Filter by keyword | Filter | Sort

Migration demo

Home | Copilot | Create | Browse | OneLake | Apps | Metrics | Monitor | Learn | Real-Time | Workloads | Workspaces | Migration demo | copyjob1 | Power BI

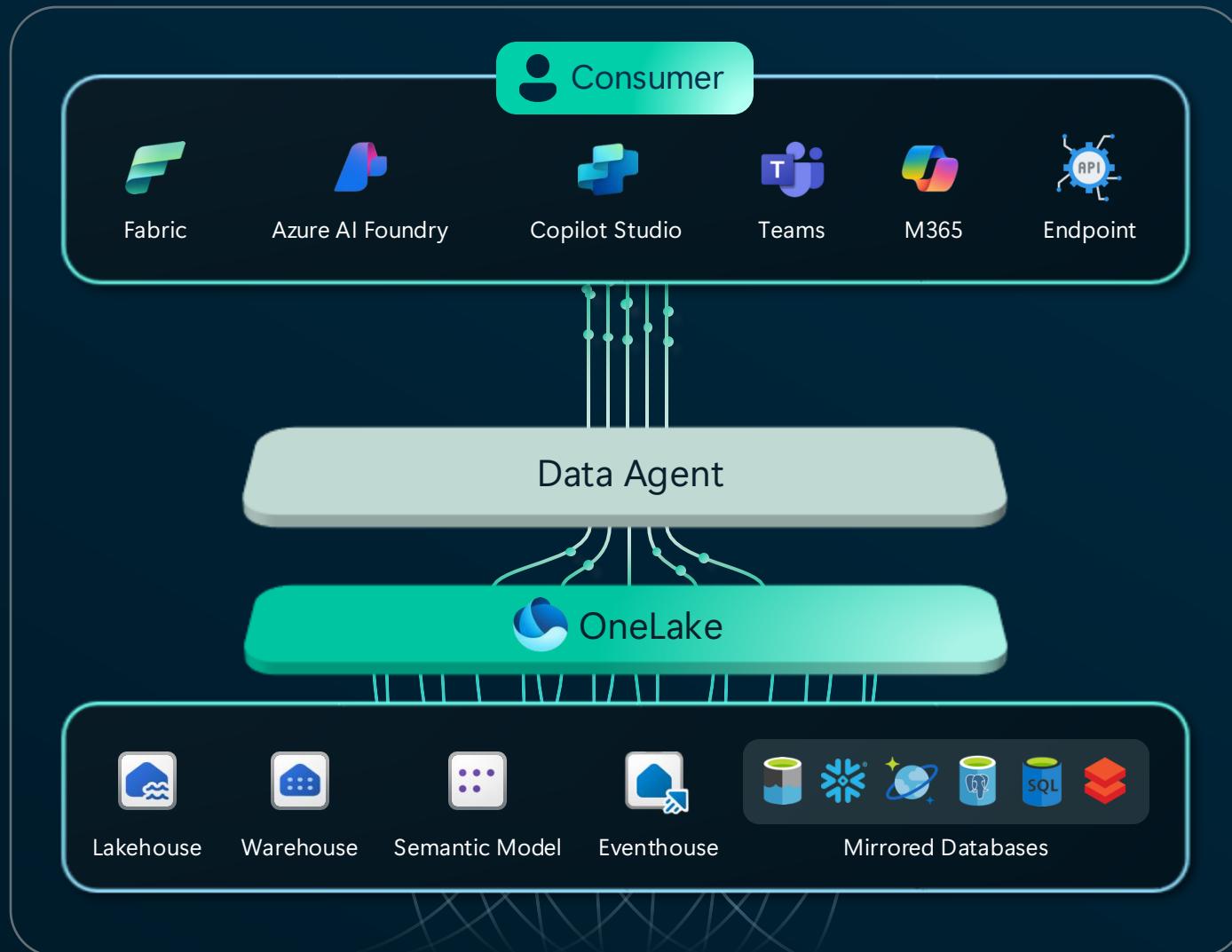
Choose from predefined task flows or add a task to build one (preview)

Select from one of Microsoft's predefined task flows or add a task to start building one yourself.

Select a predefined task flow | Add a task

Name	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Included in app
AdevntureWorks	Semantic model (d...)	—	Migration demo	3/24/2025, 3:14:28 PM	N/A	—	Confidential\Micro...	①
AdventureWorks	Semantic model (d...)	—	Migration demo	3/24/2025, 2:50:55 PM	N/A	—	Confidential\Micro...	①
copyjob1	Copy job	—	Ancy Philip	—	—	—	Confidential\Micro...	①

Fabric data agents



A virtual analyst that allows users to interact with enterprise data in OneLake

New Seamlessly reason over data in OneLake, including mirrored databases to create a powerful data expert tailored to your data domain

New Support for data agents in Git and deployment pipelines, enabling agent ops for more streamlined AI development

New Invoke data agents externally with detailed responses including SQL query execution steps



Contoso Customer Sales NG ⚡

Workspace for Contoso Sales

[+ New item](#) [New folder](#) [Import](#)[Create deployment pipeline](#)[Create app](#)[Manage access](#)[Workspace settings](#)[Filter by keyword](#)[Filter](#)[More](#)[+ Add \(preview\)](#) High-volume data ...
Get data
No items Bronze data
Store data
No items Initial process
Prepare data
No items Silver data
Store data
No items Further transform
Prepare data
No items Golden data
Store data
No items Low-volume data i...
Get data
No items Data visualize
Visualize data
No items ML serving
Analyze and train data
No items

	Name	Type	Task	Owner	Refreshed	Next refresh	Endorseme	Sensitivity	Included in app
	Customer_Sales	Semantic mo...	—	Contoso Cust...	3/16/2025, 9:57...	N/A	—	Confidential\...	
	Customer_Sales	SQL analytics...	—	Nellie Gustaf...	—	—	—	Confidential\...	
	Data Preprocessing	Notebook	—	Nellie Gustaf...	—	—	—	Confidential\...	
	PackageDeliveries	Eventhouse	—	Nellie Gustaf...	—	—	—	Confidential\...	
	PackageDeliveries	KQL Database	—	Nellie Gustaf...	—	—	—	Confidential\...	
	PackageDeliveries_queryset	KQL Queryset	—	Nellie Gustaf...	—	—	—	Confidential\...	

The background of the image is a wide-angle photograph of a city skyline at sunset. The sky is filled with large, billowing clouds colored in shades of orange, yellow, and blue. In the foreground, a dark blue gradient covers the bottom third of the image. Overlaid on this gradient are the words "Q&A" and "Thank you" in a large, white, sans-serif font.

Q&A
Thank you