

From Zero to Hero with Data Factory in Microsoft Fabric

Wifi Network: MGMResorts-WiFi



**Let's get some
prep work out of
the way**

Workshop content

Slide content

Designed to provide overviews and highlight key concepts



Demo videos

Pre-recorded insights into how these concepts and features function within Fabric Data Factory that are out of the scope for a hands-on lab in this workshop



Lab experience: Hands-on demos

Experience Microsoft Fabric **for free** with our demo environment and guided tutorials on Fabric Data Factory's key concepts and features

Everyone learns differently



Visual

- Reads diagrams
- Takes detailed notes
- Studies notes on slides
- Great sense of direction

+



Auditory

- Participates vocally
- Enjoys story-telling
- Engages in open discussions
- Understands changes in tone

+



Kinesthetic

- Likes to explore
- Learns by doing
- Gets joy from building
- Enjoys the “clicks” and “keys”

Today's workshop material + How to access lab instructions

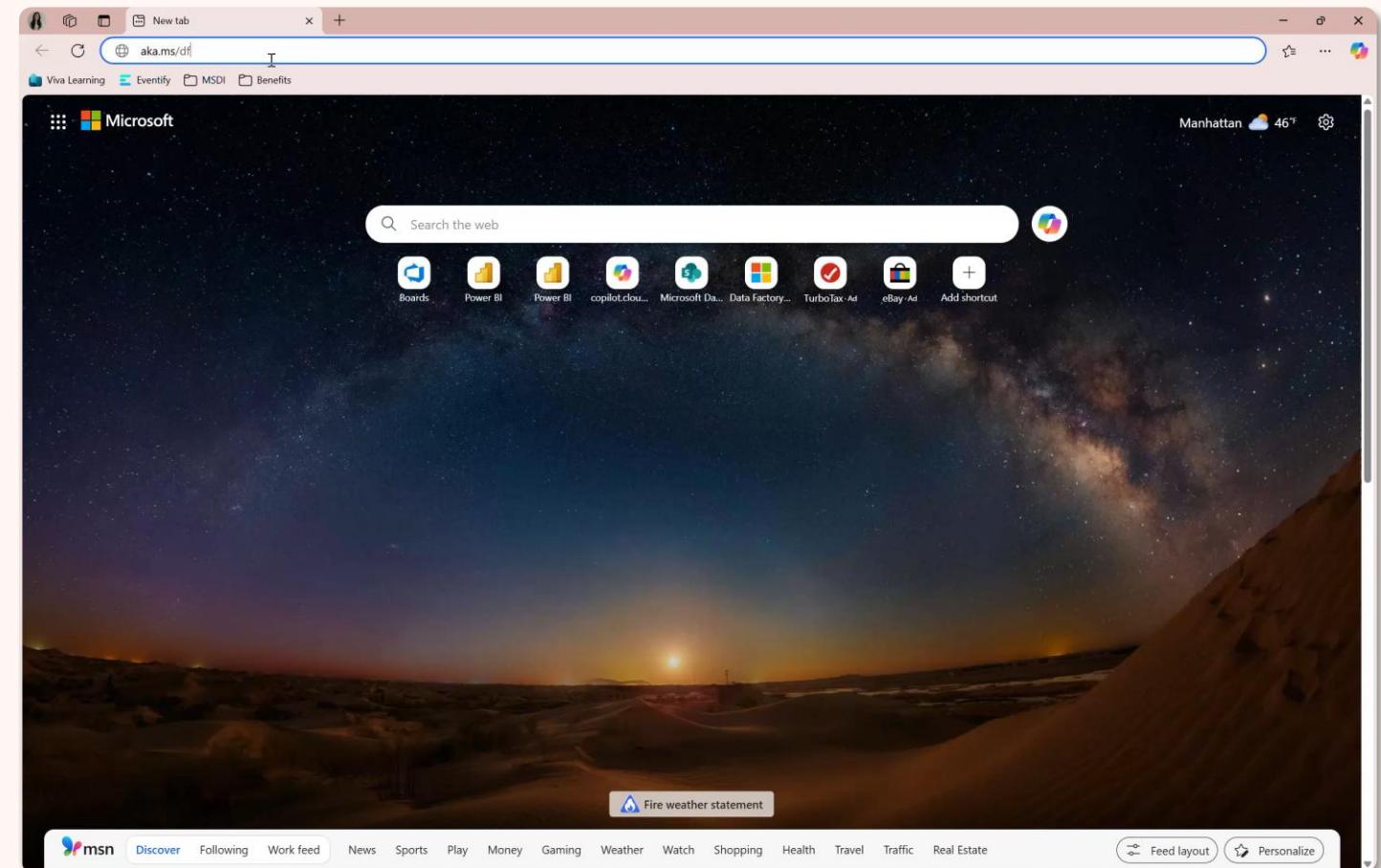
All materials are available at:

<https://aka.ms/dfiad>

Start the lab with:

Getting started

WiFi: MGMResorts-WiFi



Logging in with your free Fabric Demo User Profile

Open a new incognito browser:

Ctrl + Shift + N

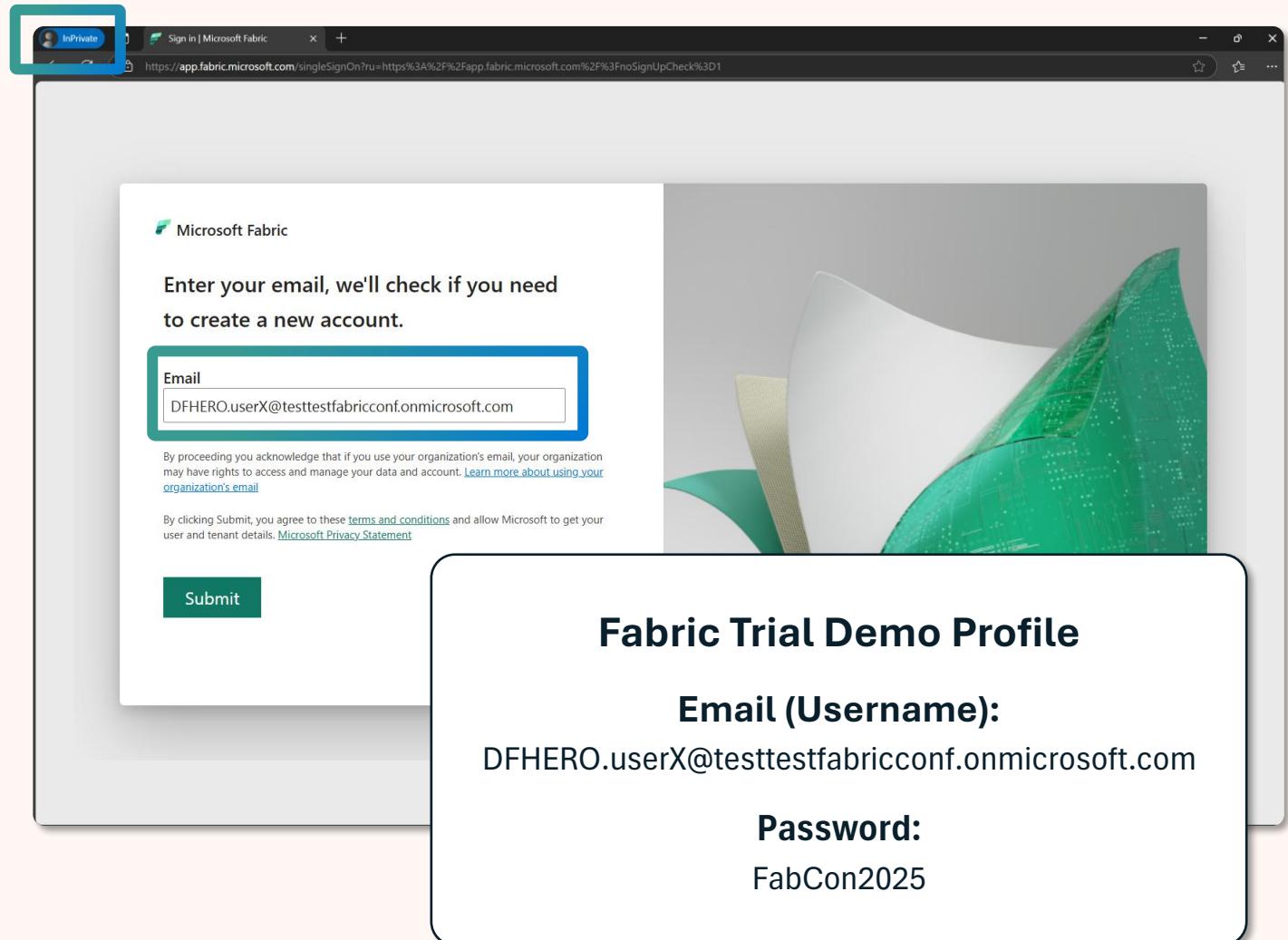
Login with demo user profile on:

https://fabric.microsoft.com

*Do not use multi-factor authentication

Username: on your paper handout

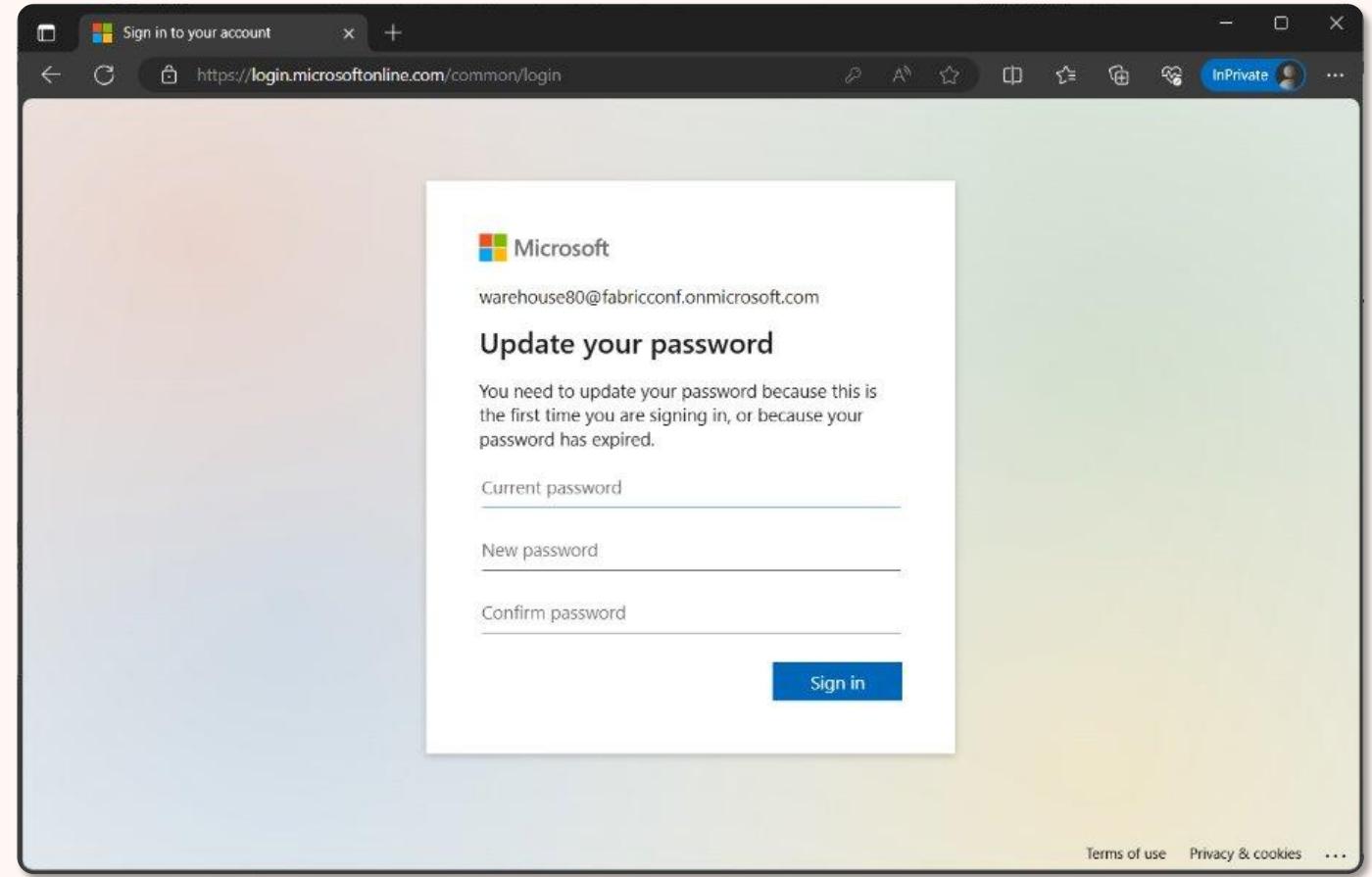
Password: FabCon2025



Logging in with your free Fabric Demo User Profile

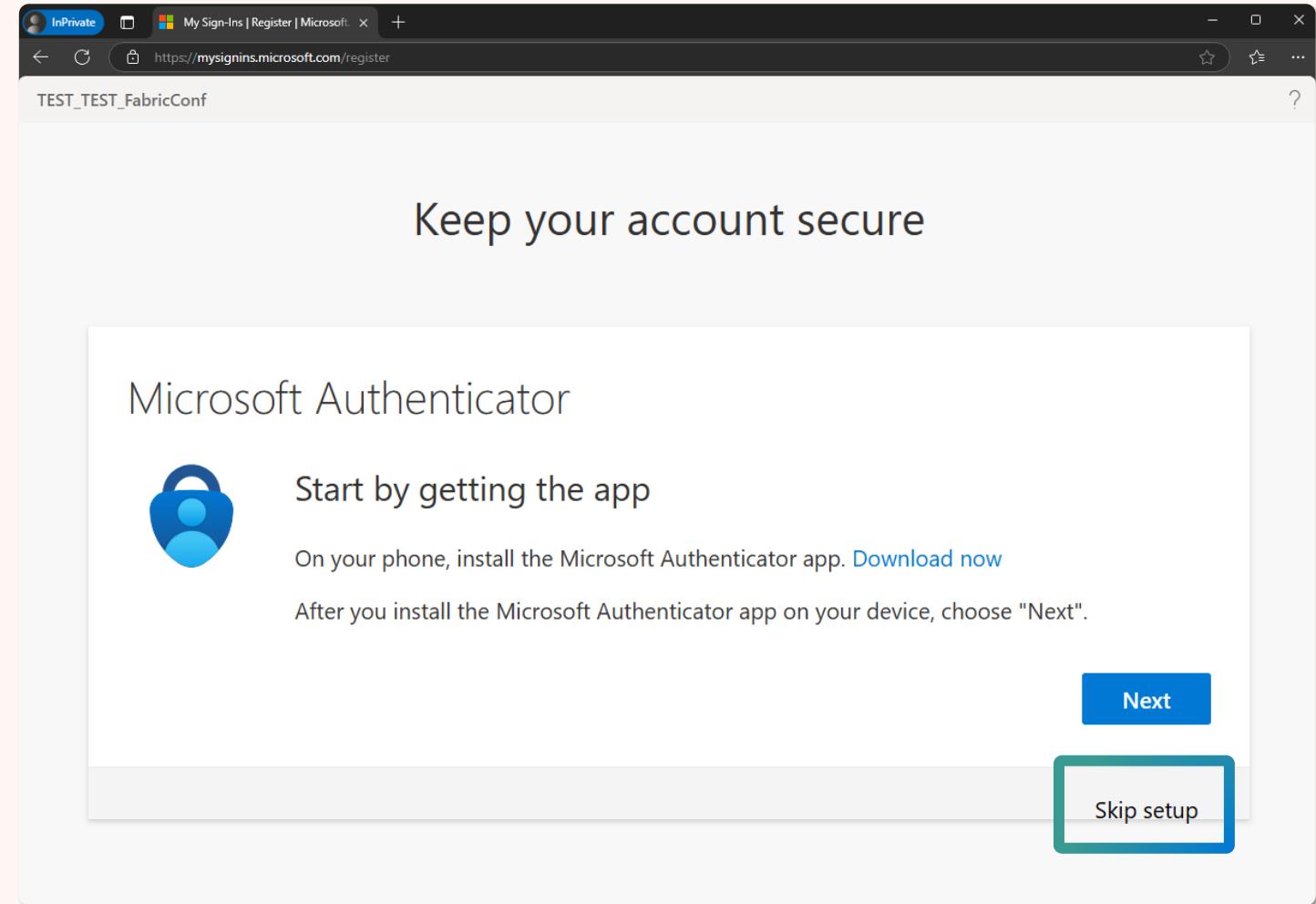
The first time you login,
you will be prompted to
change the password

*make sure you remember this
new password



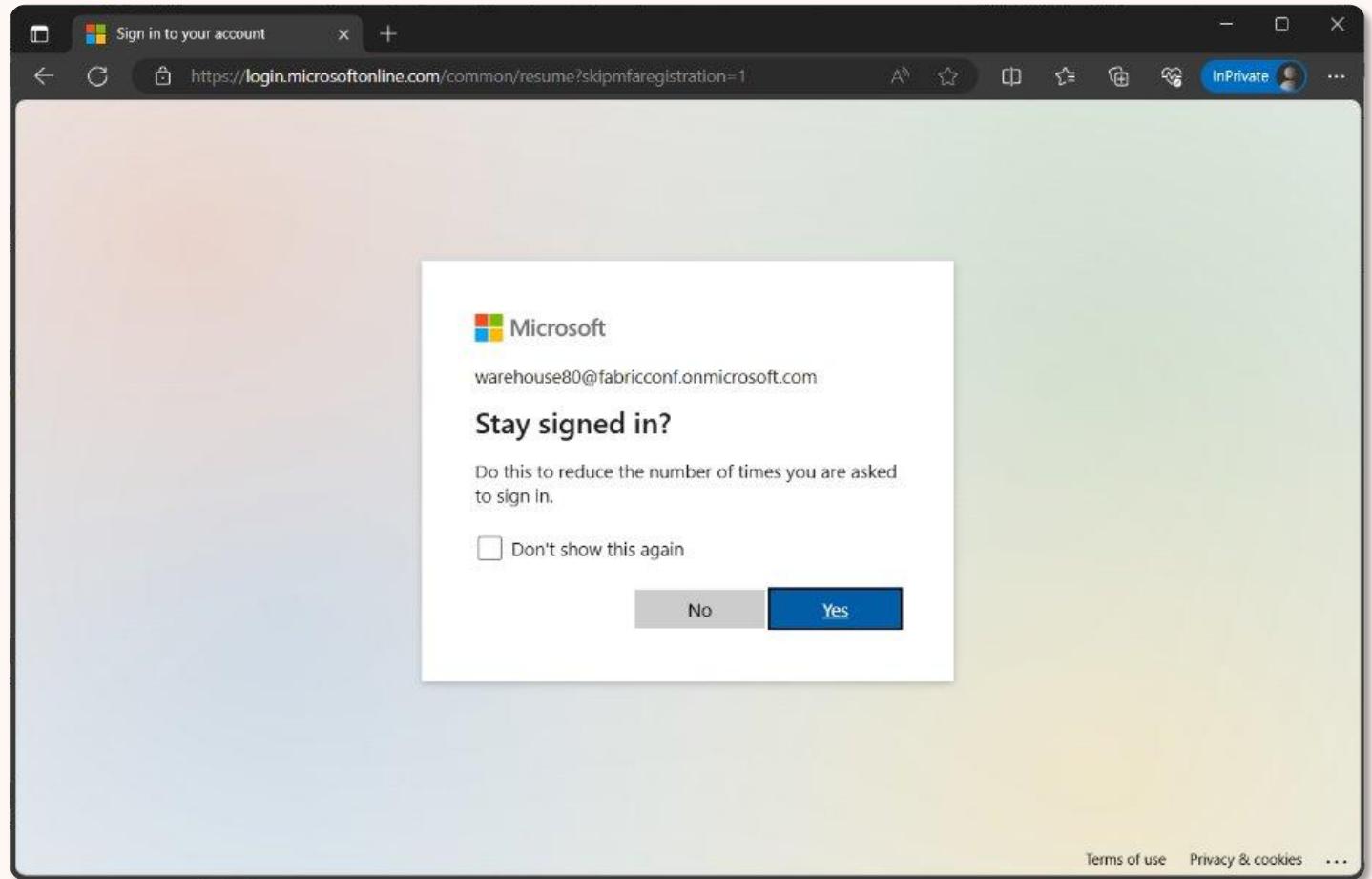
Logging in with your free Fabric Demo User Profile

Do *not* use multi-factor authentication by making sure to click “**Skip setup**”



Logging in with your free Fabric Demo User Profile

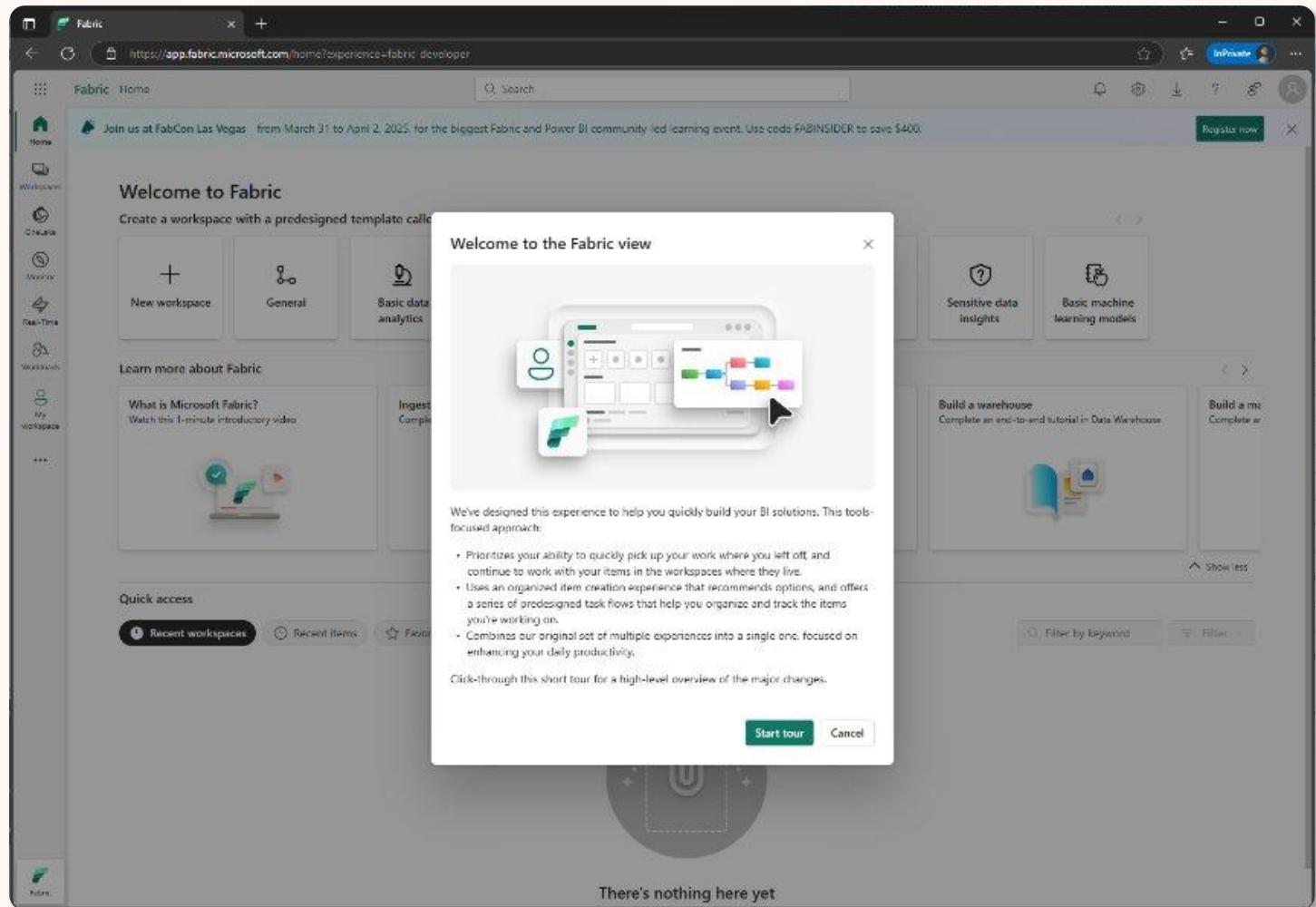
You can select **either option** you prefer for staying signed options



Logging in with your free Fabric Demo User Profile

You are now ready to work with Fabric!

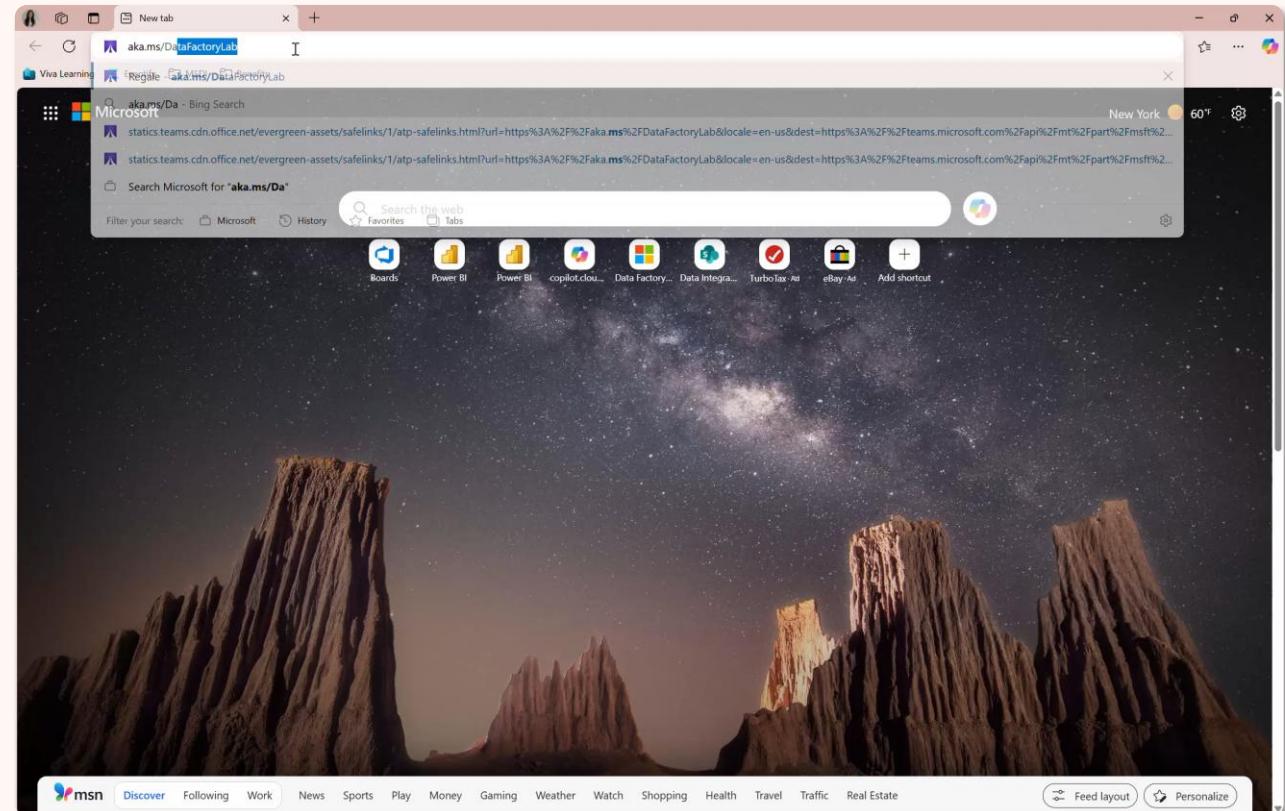
*make sure to hold onto your handout with your Fabric email (username)



Troubleshooting with the lab

Something not working on Fabric?

Raise your hand, and we'll have one **our proctors help to troubleshoot** your issues!



Click-by-click lab experience:

<https://aka.ms/DataFactoryLab>

Make sure the following links are bookmarked

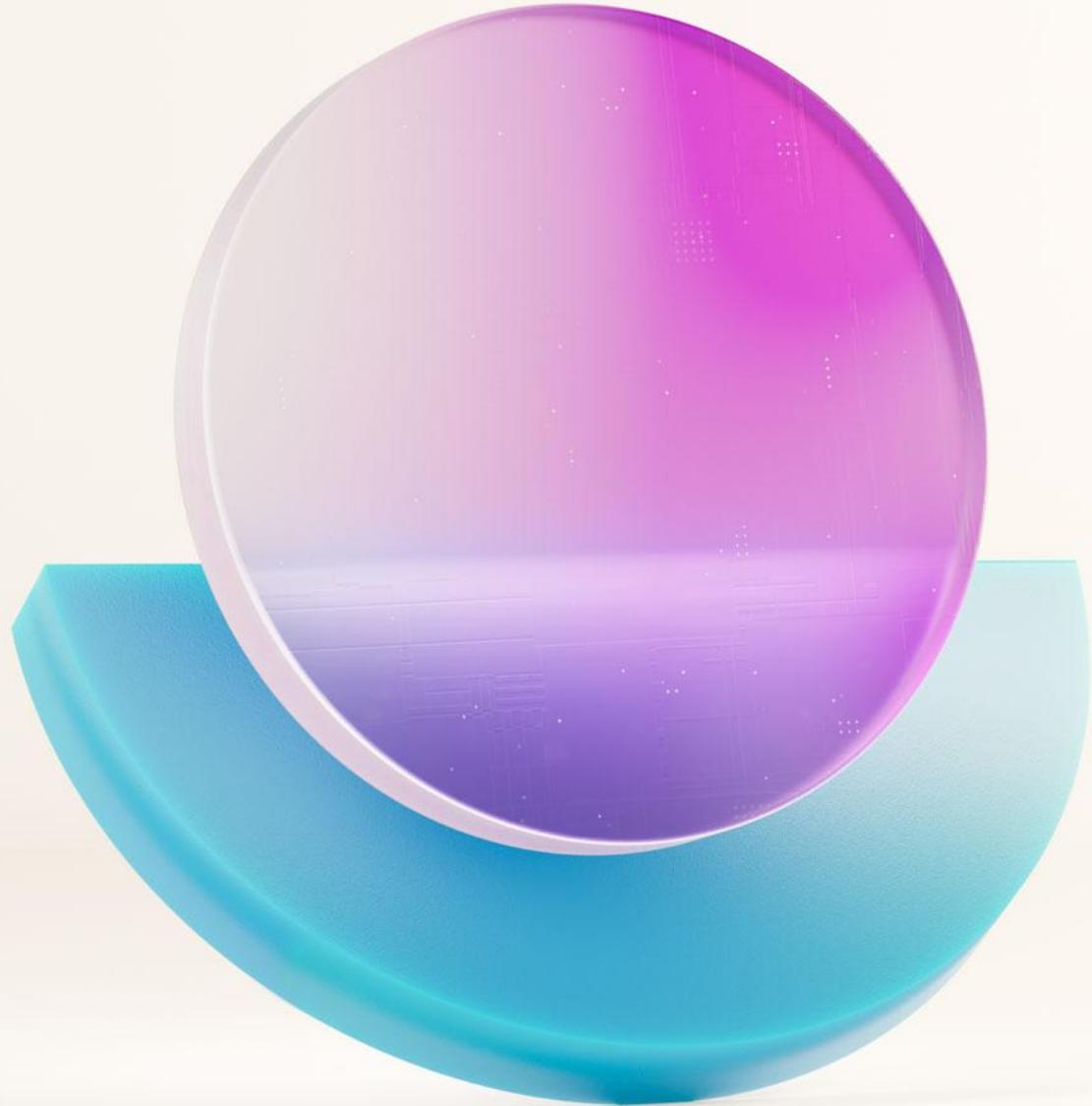
Lab instructions:

<https://aka.ms/dfiad>

Click-by-click lab:

<https://aka.ms/DataFactoryLab>

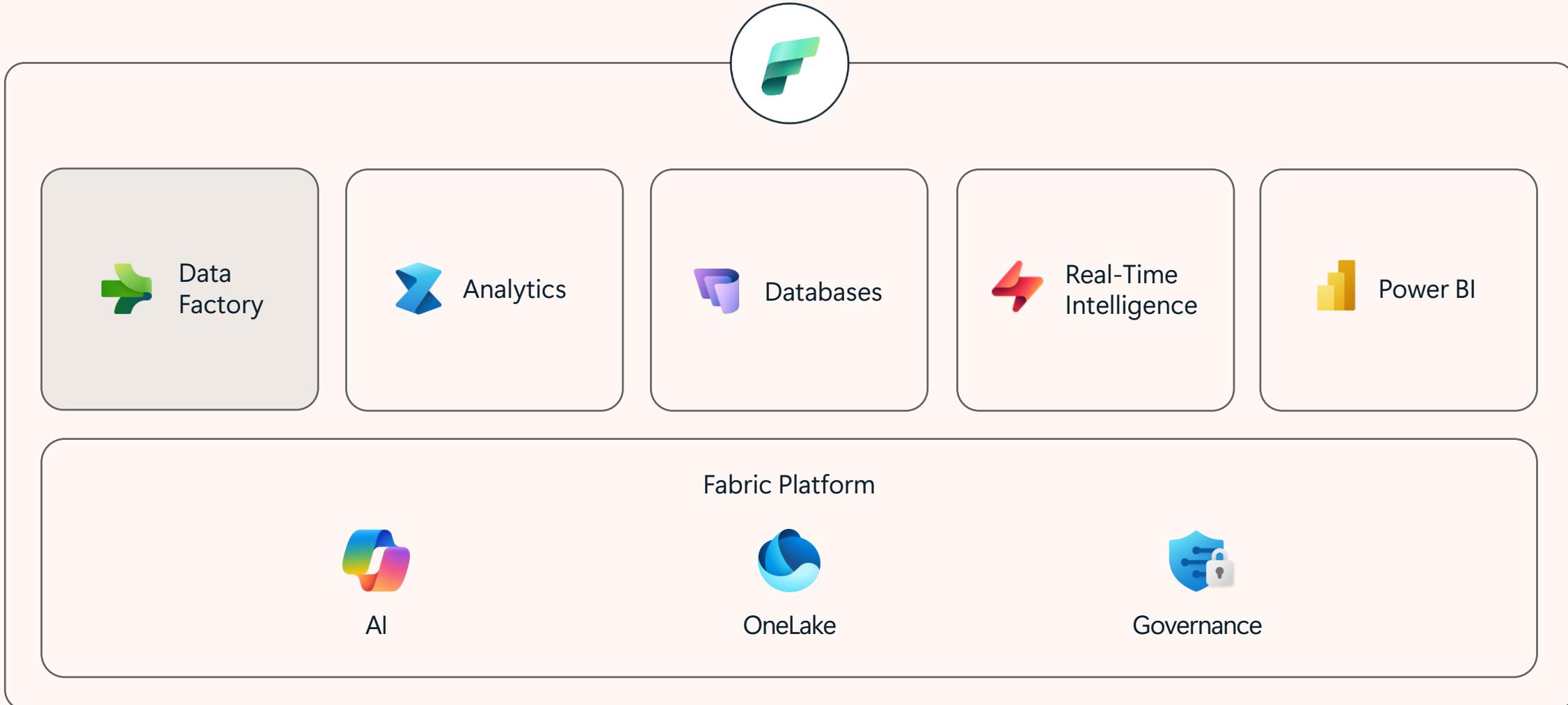
Microsoft Fabric
Community Conference



An Introduction to Microsoft Fabric

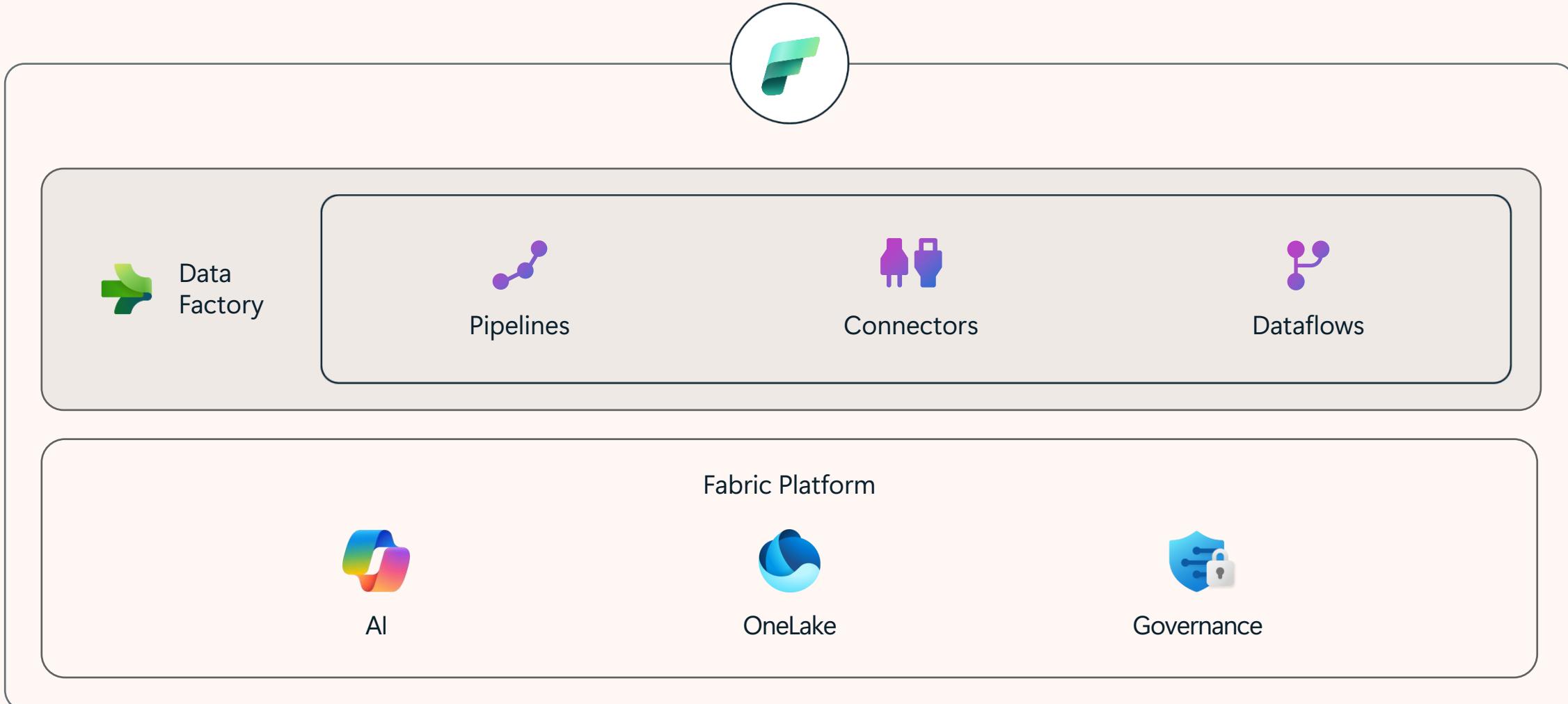
Microsoft Fabric

The unified data platform for AI transformation



Microsoft Fabric

The unified data platform for AI transformation





Microsoft Fabric

The unified data platform for AI transformation



Microsoft
Azure

Enterprise data
integration in Azure

- Azure Data Factory
- Synapse Link
- Purview Integrated



Self-service data prep
with Power Query

- Excel
- Power BI
- Office 365
- Dynamics
- Power Platform



Microsoft
Fabric

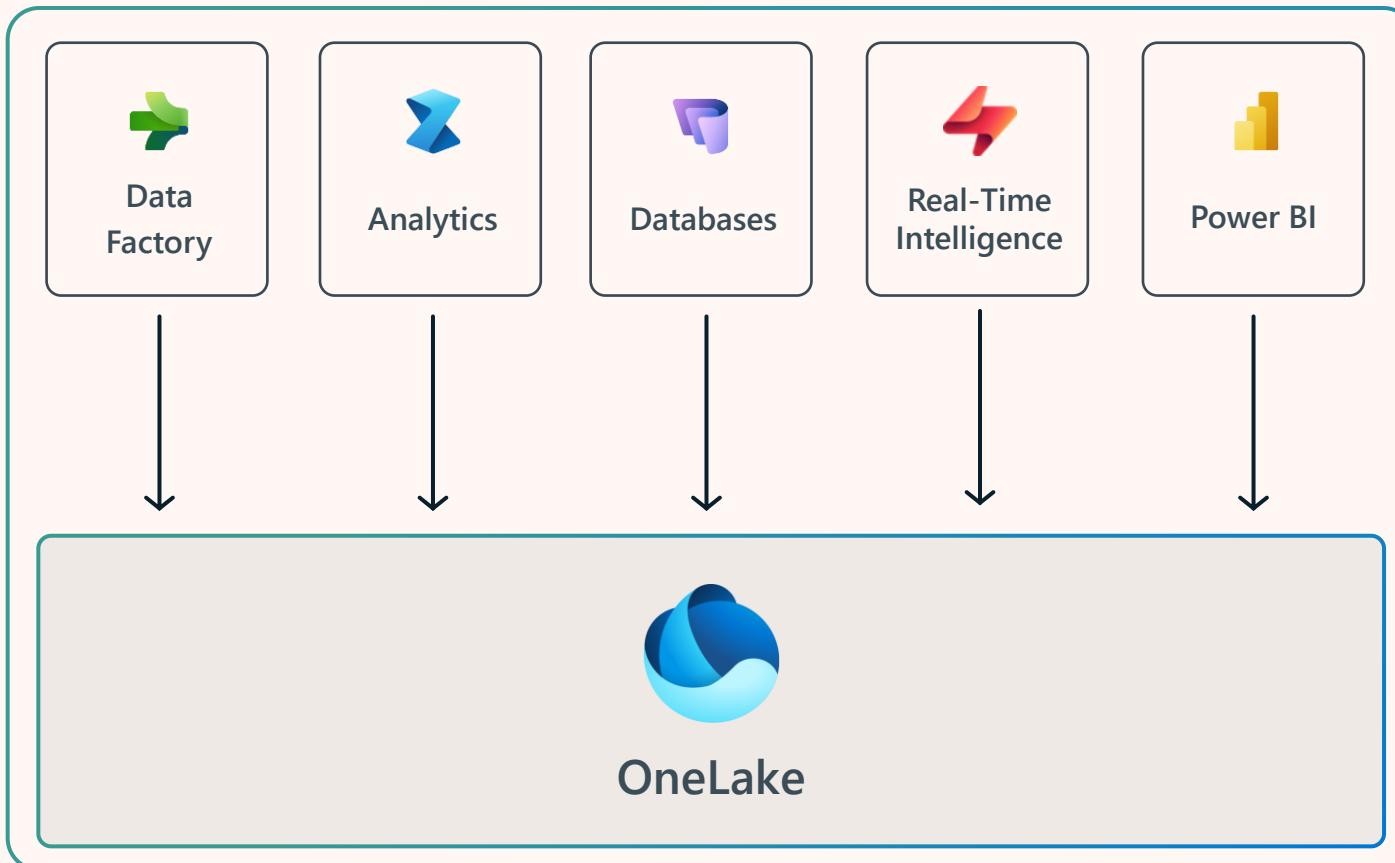
Data Factory in
Microsoft Fabric

- Integrated SaaS platform
- No-code & code tools
- Copilot & AI-powered
- Open Source



OneLake for All Data

The OneDrive for Data



A **single SaaS lake** for the whole organization

Provisioned **automatically** with the tenant

All workloads automatically store their data in the OneLake workspace folders

All the data is organized in an intuitive **hierarchical namespace**

The data in OneLake is automatically indexed for **discovery, MIP labels, lineage, PII scans, sharing, governance and compliance**

Microsoft Fabric
Community Conference



An Introduction to Fabric Data Factory



Data Factory in Microsoft Fabric

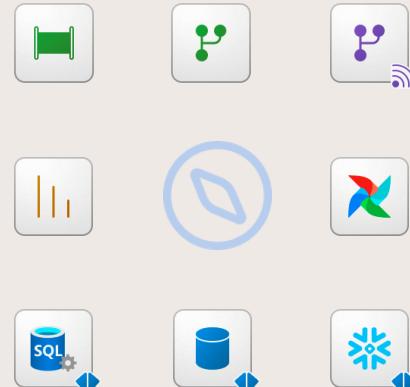


Best-in-class
Connectivity

Orchestration

Transformation

Data Movement



Deployment &
Observability



OneLake

AI-powered Intelligence



Data Factory in Microsoft Fabric

Items in Microsoft Fabric



Data pipeline

Ingest data at scale and schedule data workflows.



Copy Job

Copy data easily with settings for full, incremental, or event-based.



Dataflow Gen2

Prep, clean, and transform data.



Apache Airflow Job

Simplify creation and management of Apache Airflow environments.



Mirrored Database

Easily replicate data from an existing source into OneLake.



Azure Data Factory

Mount ADF into Fabric to monitor all pipelines in one platform.



Data pipelines

Ingest and orchestrate activities at scale

No code Data pipelines

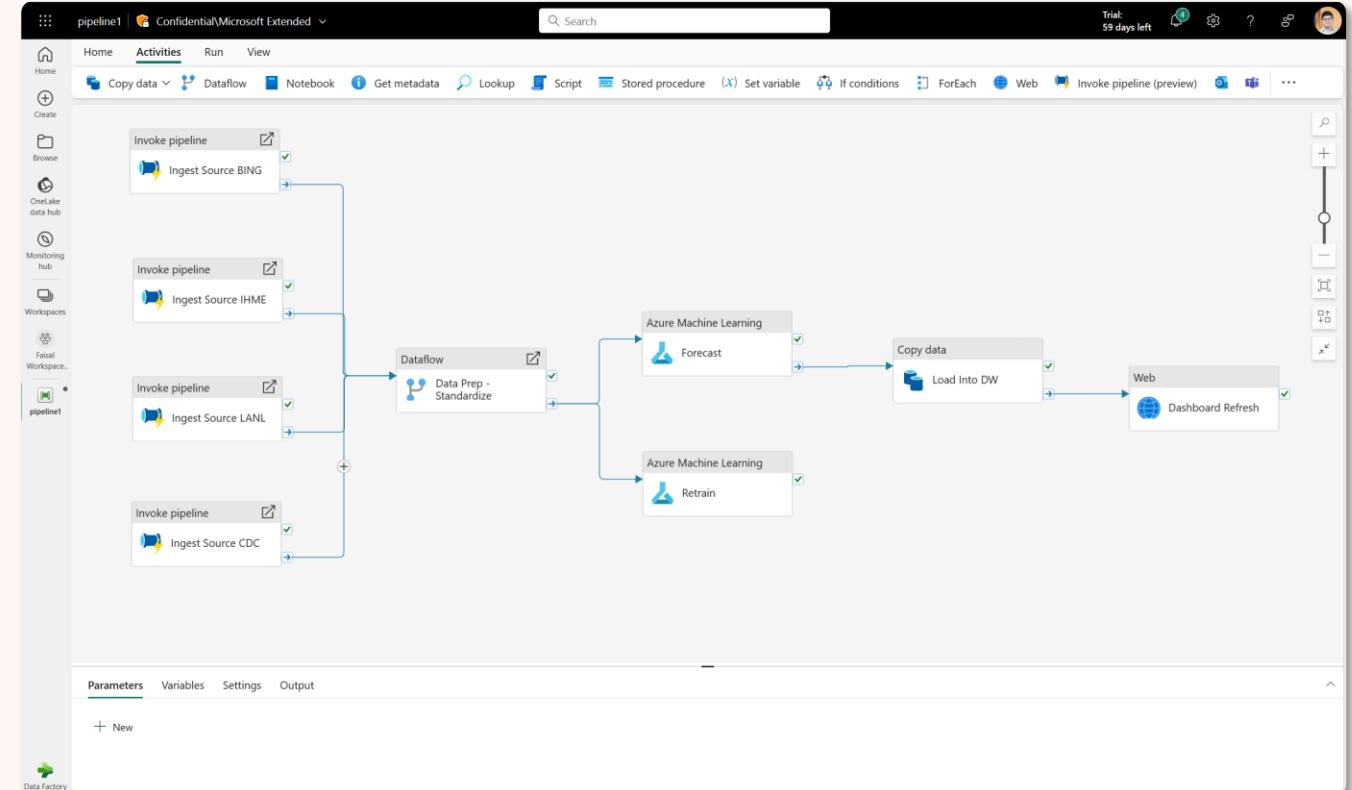
Intuitive, **cloud-based** user experience

Orchestrate data movement, transformation,
cleansing, control flow

Triggered and **scheduled** execution models

User Data Functions for specialized
functions

AI Powered with **Copilots**





Data pipelines

Ingest and orchestrate activities at scale

Familiar authoring canvas experience

myPipeline | Confidential\Microsoft Extended

Search

Trial: 59 days left

Activities

Home Run View

Copy data Dataflow Notebook Get metadata Lookup Script Stored procedure Set variable If condition +

Start building your data pipeline

Add pipeline activity

Copy data

Choose a task to start



OneLake



Data pipelines

Ingest and orchestrate activities at scale

Empower every person to integrate data

The screenshot shows the Microsoft Data Pipelines interface. The top navigation bar includes Home, Activities, Run, View, Validate, Run, Schedule, Copy data, Dataflow, Notebook, Lookup, and Invoke pipeline. On the left sidebar, there are icons for Home, Create, Browse, Data hub, Apps, Metrics, Monitoring hub, Deployment pipelines, Learn, Workspaces, Data Integration, and Pipeline Demo. The main area displays two selected activities: 'Copy data' (Copy Products) and 'Office 365 Outlook (Preview)' (Send Completion Email). A red arrow points from the interface towards the OneLake logo.



OneLake



Data pipelines

Ingest and orchestrate activities at scale

AI-powered Intelligence

Pipeline generation

Getting from **text to action**

Enabling you to be productive during development of data pipelines

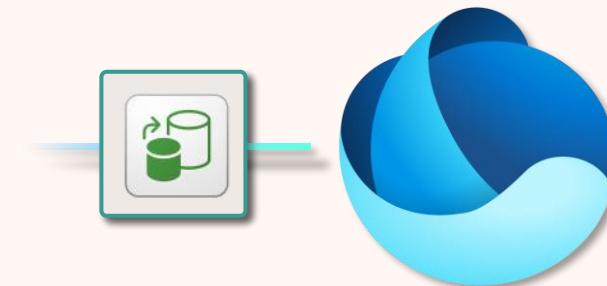
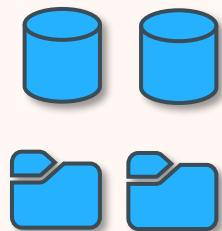
The screenshot shows the Microsoft Fabric Data Pipelines interface. At the top, there's a teal bar with the text "AI-powered Intelligence". Below it, the main title "Pipeline generation" is displayed. To the left, there's a sidebar with various workspace and catalog icons. The main area has a heading "Build a data pipeline to organize and move your data". It features two main sections: "Start with a blank canvas" (light blue background) and "Start with guidance" (orange background). Under "Start with a blank canvas", there's a card for "Pipeline activity" which says "Automate data orchestrations using rich no-code activities." Under "Start with guidance", there are three cards: "Copy data assistant" (described as "Follow guided steps to copy data into Microsoft Fabric, as well as other data stores."), "Practice with sample data" (described as "Quickly build a data pipeline with a predefined template to load data into Lakehouse."), and "Templates" (described as "Generate a new data pipeline quickly using a predefined data scenario"). At the bottom right of the main area, there's a link "Need help? Watch a demo". The top right of the slide shows a "Trial 9 days left" message and a user profile icon.



Copy job

Integrate data from built-in connectors

Generally Available



Copy Job item

Streamline copying data into and across OneLake

Setup automatic
incremental refresh

Built-in support for **copying data between workspaces**



Copy job

Integrate data from built-in connectors

Generally Available

Supports both batch and near real-time incremental copy* (CDC)

(*Incremental copy is still in Public Preview)

The screenshot shows the Azure Data Factory portal interface. In the top navigation bar, there is a green icon representing a copy job. Below the navigation bar, a blue button labeled "Generally Available" is prominently displayed. The main content area is titled "New" and contains several options: "Dataflow Gen2 (Preview)", "Data pipeline", "Copy job" (which is highlighted), "Apache Airflow project", and "Data Factory mount". To the right of these options, there is a message: "New items saved to: Contoso workspace" and "Show less". Below this, there is a section titled "Recommended" with cards for "Not sure where to start?", "Introduction to data integration", and "Getting started with dataflow" and "Getting started with data pipelines". At the bottom, there is a "Quick access" table listing recent items:

Name	Type	Opened	Owner	Endorsement	Sensitivity	Workspace
Cool data mart	Datamart	7m ago	Tim Deboar	—	General ⓘ	Contoso workspace
Data flow for triggers	Data flow	7m ago	Tim Deboar	—	—	Contoso workspace
User data	Datamart	7m ago	Tim Deboar	Certified	—	Contoso workspace
Copy data pipeline	Pipeline	7m ago	Tim Deboar	—	—	Contoso workspace



OneLake



Dataflows Gen2

Ingest and transform data at scale

Dataflows Gen2: Power Query with enterprise scale

Based on **Power Query**, used by millions

File, relational, multi-dimensional, SaaS data experiences

Scalable transformations via Fabric compute

AI Powered with Copilots

The screenshot shows the Microsoft Power Query Editor interface. At the top, there's a ribbon with tabs like Home, Transform, Add column, and View. Below the ribbon, there's a toolbar with various icons for data operations such as Get data, Enter data, Options, Manage parameters, Refresh, Advanced editor, Properties, Choose columns, Remove columns, Keep rows, Remove rows, Reduce rows, Sort, Split column, Group by, ABC Data type: Text, Use first row as headers, Replace values, Merge queries, Append queries, Combine files, and Combine. The main area is titled "Power Query - Edit queries". It displays a data flow with several steps:

- A "Get data" step for "Orders" (CData) followed by a "Navigation" step and a "Choose columns" step.
- A "Get data" step for "Order_Details" (OData) followed by a "Navigation" step and a "Remove columns" step.
- A "Merge" step where the "Orders" and "Order_Details" data flows are joined.
- A "Merge" step where the result of the previous merge is joined with "Customers Data" (Excel).
- A "Change type" step for the merged data.
- A "Top Customers" step which includes "Merge", "Expand", "Sort", and "Keep top rows" operations.

Below the data flow, there's a preview pane showing a table with five columns: CustomerID, CompanyName, ContactName, ContactTitle, and Total Sales. The preview pane also includes column profiling information for each column, such as the number of distinct values and validation status (Valid, Error, Empty). The table data is as follows:

	CustomerID	CompanyName	ContactName	ContactTitle	Total Sales
1	QUICK	QUICK-Stop	Horst Kloss	Accounting Manager	117483.39
2	SAVEA	Save-a-lot Markets	José Pavarotti	Sales Representative	115673.39
3	ERNSH	Ernst Handel	Roland Mendel	Sales Manager	113236.68
4	HUNGO	Hungry Owl All-Night Grocers	Patricia McKenna	Sales Associate	57317.39
5	RATTIC	Rattlesnake Canyon Grocery	Paula Wilson	Assistant Sales Representative	52245.9
6	HANAR	Hanari Cakes	Mario Pontes	Accounting Manager	34101.15
7	FOLKO	Folk och få HB	Maria Larsson	Owner	32555.55
8	MEREP	Mère Pallarde	Jean Fresnière	Marketing Assistant	32203.9
9	KOENE	Königlich Essen	Philip Cramer	Sales Associate	31745.75
10	QUEEN	Queen Cozinha	Lúcia Carvalho	Marketing Assistant	30226.1

At the bottom of the preview pane, it says "Completed (11.30 s) Columns: 5 Rows: 10 Column profiling based on top 1,000 rows". There are "Step" and "Next" buttons at the bottom right.



Dataflows Gen2

Ingest and transform data at scale

Enterprise-scale data ingestion and transformation

OnlineSalesDataflow | No label

Power Query

Home Transform Add column View Help

Get data - data Data sources Options Parameters Manage Refresh Advanced editor Add data destination Choose columns Remove columns Keep rows Filter rows Split column Group Use first row as headers Append queries Combine files Map to entity CDM Export template

Queries [13]

- Data staging
 - DimCustomer.raw
 - DimGeography.raw
 - DimProductCategory.f...
 - DimProductSubcate...
 - DimProduct.raw
- Data load
 - DimDate
 - DimEmployee
 - DimStore
 - Data transformation
 - DimCustomer
 - DimProduct
 - FactOnlineSales
 - fx fxGetFact
 - fx fxGetFile

Table.ExpandTableColumn("Merge_queries", "GeographyType", "ContinentName", "CityName", "StateProvinceName", "RegionCountryName", "Geometry"), ("GeographyType", "GeographyKey", "FirstName", "MiddleName", "LastName", "BirthDate", "MaritalStatus", "Suffix", "Title", "EmailAddress", "YearlyIncome", "Education")

CustomerKey GeographyKey FirstName MiddleName LastName BirthDate MaritalStatus Suffix Title EmailAddress YearlyIncome Education

CustomerKey	GeographyKey	FirstName	MiddleName	LastName	BirthDate	MaritalStatus	Suffix	Title	EmailAddress	YearlyIncome	Education
1	1	Jan		Yang	4/8/1966	M		Mr.	jan24@adventure-works.com	100000	Bachelors
2	361	Tyrone	Eugene	Miller	8/2/1978	S		Mr.	tyrone15@adventure-works.com	10000	Partial College
3	369	Edward		Lacey	11/2/1978	M		Mr.	edward28@adventure-works.com	20000	High School
4	372	C		Jai	5/27/1965	S		Mrs.	lacey10@adventure-works.com	60000	Bachelors
5	2	Eugene	L	Huang	5/14/1965	S		Mrs.	eugene10@adventure-works.com	70000	Partial College
6	126	Dana	J	Navarro	4/8/1956	S		Mrs.	dana2@adventure-works.com	20000	Bachelors
7	367	Virginia	R	Patel	10/25/1979	M		Sra.	virginia4@adventure-works.com	20000	Bachelors
8	450	Alvin	E	Hu	2/21/1975	M		Mr.	alvin3@adventure-works.com	80000	Bachelors
9	3	Ruben		Torres	8/12/1965	M		Mr.	ruben35@adventure-works.com	60000	Bachelors
10	51	Alan	Zheng		9/7/1951	M		Mr.	alan23@adventure-works.com	30000	High School
11	444	Grace	Griffin		5/22/1976	S		Mrs.	grace@adventure-works.com	60000	Bachelors
12	419	Stanley	H	Malhotra	8/21/1973	S		Mr.	stanley5@adventure-works.com	80000	Bachelors
13	4	Christy	Zhu		2/15/1968	S		Mrs.	christy12@adventure-works.com	70000	Bachelors
14	121	Shaun	Carson		4/11/1949	M		Mr.	shaun16@adventure-works.com	100000	High School
15	5	Elizabeth	Johnson		8/8/1969	S		Mrs.	elizabeth5@adventure-works.co...	80000	Bachelors
16	40	Marc	J	Martin	12/17/1948	M		Mr.	marc3@adventure-works.com	30000	Partial College
17	77	Blake	Anderson		7/13/1957	S		Mr.	blake5@adventure-works.com	80000	High School
18	94	Aimee	A	He	9/10/1967	M		Ms.	aimee13@adventure-works.com	100000	Graduate Degree
19	458	Jaime	C	Gutierrez	5/21/1973	M		Ms.	jaime12@adventure-works.com	90000	Bachelors
20	6	Julio	Ruiz		8/5/1965	S		Mr.	julio10@adventure-works.com	70000	Bachelors
21	11	Jacquelyn	C	Suarez	2/6/1964	S		Ms.	jacquelyn20@adventure-works...	70000	Bachelors
22	12	Curtis	Lu		11/4/1961	M		Mr.	curtis9@adventure-works.com	60000	Bachelors
23	56	Gilbert	Raje		3/19/1952	M		Sr.	gilbert35@adventure-works.com	40000	Partial College
24	93	Cheryl	A	Diaz	5/6/1967	M		Mrs.	chery14@adventure-works.com	90000	Bachelors
25	149	Ross	Vazquez		8/16/1947	M		Mr.	ross32@adventure-works.com	40000	Bachelors
26	7	Janet	G	Alvarez	12/6/1965	S		Ms.	janet9@adventure-works.com	70000	Bachelors

Columns: 24 Rows: 99+ Column profiling based on top 1,000 rows

Power BI



OneLake



Dataflows Gen2

Ingest and transform data at scale

AI-powered Intelligence

Transformation using Dataflows Gen2

Transform your data quickly using **Copilot** in Dataflows Gen2

Intelligently create new queries as per your requirements

The screenshot shows the Microsoft Power Query Editor interface within the Copilot for Data Factory extension. The top navigation bar includes Home, Transform, Add column, View, Help, and various query management tools. The main area displays three data sources: Customers, Orders, and Order_Details, each with its own step count (3, 2, and 2 respectively). Below these, a large table view shows the results of a query step named 'Table.SelectRows("#Navigation 1", each {[Country] = "USA"})'. The table lists 13 rows of customer data from the Northwind database, including columns like CustomerID, CompanyName, ContactName, ContactTitle, Address, City, Region, PostalCode, Country, Phone, and Fax. The bottom status bar indicates 'Completed (17.09 s) Columns: 13 Rows: 13'.



Apache Airflow Job

Data Factory's workflow orchestration manager

Native support for Apache Airflow

Apache Airflow job - Pro code, Python based data orchestration based on **Open-Source Apache Airflow project**

Serverless model with instant provisioning and **automatic scaling**

The screenshot shows the Microsoft Data Factory interface within the Azure portal. The left sidebar includes options like Home, Create, Browse, OneLake data hub, Monitor, Real-Time hub, Workspaces, and ContosoAnalytics. The main content area displays various service tiles. In the top right corner, there is a tile for "Apache Airflow job (Preview)". The page URL is https://msit.fabric.microsoft.com/groups/51382626-c479-4bd5-9a8a-76b1f8cd1d95/create?experience=data-factory. The trial status is shown as "Trial: 20 days left".

Data Factory
Empower your organization to get value from data faster than ever.

- Dataflow Gen2**: Prep, clean, and transform data.
- Data pipeline**: Ingest data at scale and schedule data workflows.
- Azure Data Factory (preview)**: Mount an ADF into Fabric to monitor all your pipelines in one data integration platform.
- Apache Airflow job (Preview)**: Simplifies the creation and management of Apache Airflow environments on which you can operate end-to-end data pipelines at scale.

Data Science
Use machine learning to detect trends, identify outliers, and predict values from your data. [Learn more](#).

- ML model**: Use machine learning models to predict outcomes and detect anomalies in data.
- Experiment**: Create, run, and track development of multiple models for validating hypotheses.
- Notebook**: Explore data and build machine learning solutions with Apache Spark applications.
- Environment**: Set up shared libraries, Spark compute settings, and resources for notebooks and Spark job definitions.

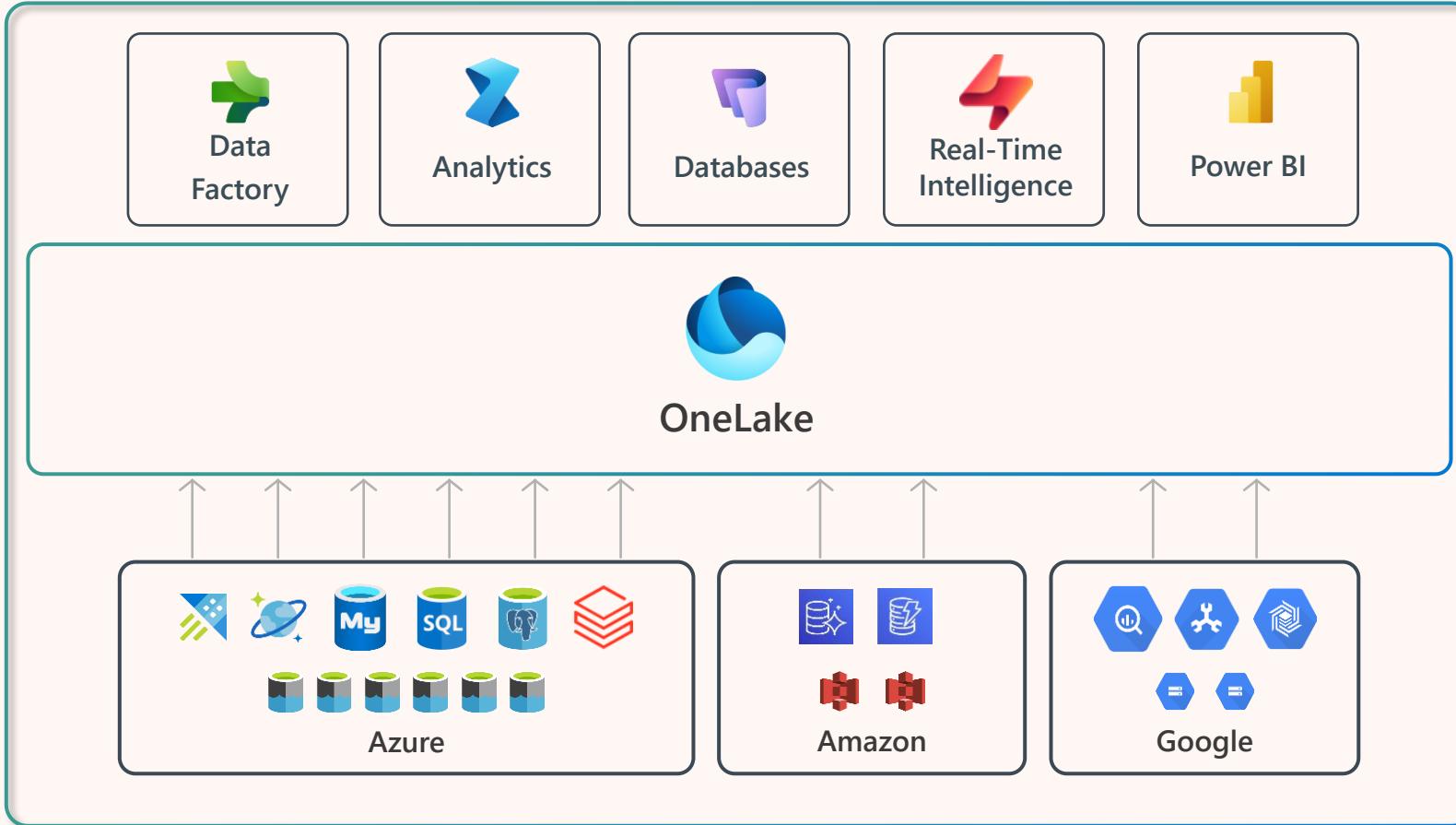
Data Warehouse
Provide strategic insights from multiple sources into your entire business. [Learn more](#).

- Warehouse**: Provide strategic insights from multiple sources into your entire business.
- Sample warehouse**: Start a new warehouse with sample data already loaded.
- Mirrored Azure SQL Database (preview)**: Easily replicate data from an existing source into an analytics-friendly format.
- Mirrored Azure Databricks catalog (previ...**: Explore Unity Catalog Tables.



Mirrored Database

Bring data from various systems together



Frictionless linking of **external databases, with full replicas** created with a couple of clicks

Available for both **multi-cloud and on-premises** databases

Real time updates of the replicas using the CDC feeds of the database

Data is stored in **Delta Parquet** tables, with all Fabric services instantly available



Azure Data Factory

Mount your ADF items to Microsoft Fabric

Upgrade Pathways for ADF & Synapse customers to Fabric



Data Factory in Fabric

Data pipelines in Fabric feature parity with ADF



ADF Connectors in Fabric

Connectors to Lakehouse and Data Warehouse (DW)

1

Available today



Mounting ADF in Fabric

(Public Preview) Azure Data Factory works as-is experience in Fabric

2

Available today



Upgrade to Data Factory in Fabric

Upgrade your mounted ADF pipelines to native Fabric pipelines

3

4



Unifying data in OneLake

Seamlessly connect to more than 170+ data sources



Azure Database for PostgreSQL	Azure Databricks Delta Lake	Amazon RDS for Oracle	Amazon RDS for SQL Server	Amazon Redshift	Phoenix	PostgreSQL	Presto	Magento (Preview)
Azure SQL Database	Azure SQL Database Managed Instance	Apache Impala	Azure SQL Database Managed Instance	DB2	SAP BW	SAP BW	SAP HANA	Oracle Eloqua (Preview)
Azure Table Storage	MongoDB Atlas	Drill	Google AdWords	Google BigQuery	SAP Table	SQL server	Spark	PayPal (Preview)
Azure Cosmos DB (MongoDB API)	Azure Cosmos DB (SQL API)	Greenplum	HBase	Hive	Amazon S3	Amazon S3 Compatible	FTP	SAP Cloud For Customer
Azure Data Lake Storage Gen1	Azure Data Lake Storage Gen1 for Cosmos Structured Stream	IBM	MariaDB	Microsoft Access	File system	Google Cloud Storage (S3 API)	HDFS	Salesforce Marketing Cloud
Azure Data Lake Storage Gen2 for Cosmos Structured Stream	Azure Database for MariaDB	MySQL	Netezza	Oracle	HTTP	Oracle Cloud Storage (S3 API)	SFTP	Shopify (Preview)
teradata.	VERTICA	ODBC	OData	REST	Amazon Marketplace Web Service	Concur (Preview)	Dataverse (Common Data Service for Apps)	Web Table
Jira	Kusto	SharePoint Online List	Dynamics 365	Dynamics AX	Dynamics CRM	cassandra	Couchbase (Preview)	...



Virtual Network & On Premises Data Gateways

Secure connectivity to your Azure and private data services

VNet & On Prem Gateways

VNet Gateways enable network security compliant access to secured resources

On Prem Gateways enable line of sight to on-prem data sources

The screenshot shows a Microsoft Power BI interface with a sidebar containing various workspace and service icons. The main content area is titled 'Data (preview)' and displays a table of virtual network data gateways. The table includes columns for Name, Azure subscription, Resource group, Virtual network, Subnet, Users, Status, and a 'Download diagnostics (preview)' button. One row is visible, showing 'contosooutdoors-dataGateway' with details: 222f1459-6ebd-4896-82ab-652d5f6883cf, shireen-rg, vnettestsb, delegatedToVnetDat..., Shireen, and a status of 'OK'.

Name	Azure subscription	Resource group	Virtual network	Subnet	Users	Status	Download diagnostics (preview)
contosooutdoors-dataGateway	222f1459-6ebd-4896-82ab-652d5f6883cf	shireen-rg	vnettestsb	delegatedToVnetDat...	Shireen	OK	Download diagnostics (preview)



CI/CD & Monitoring Hub in Microsoft Fabric

Rich monitoring capabilities and DataOps

Connect to Git with **Azure DevOps** or **GitHub** (cloud) repositories effortlessly

Utilize a code-free UI and API-based deployment for streamlined processes.

Diff and merge Fabric items with ease

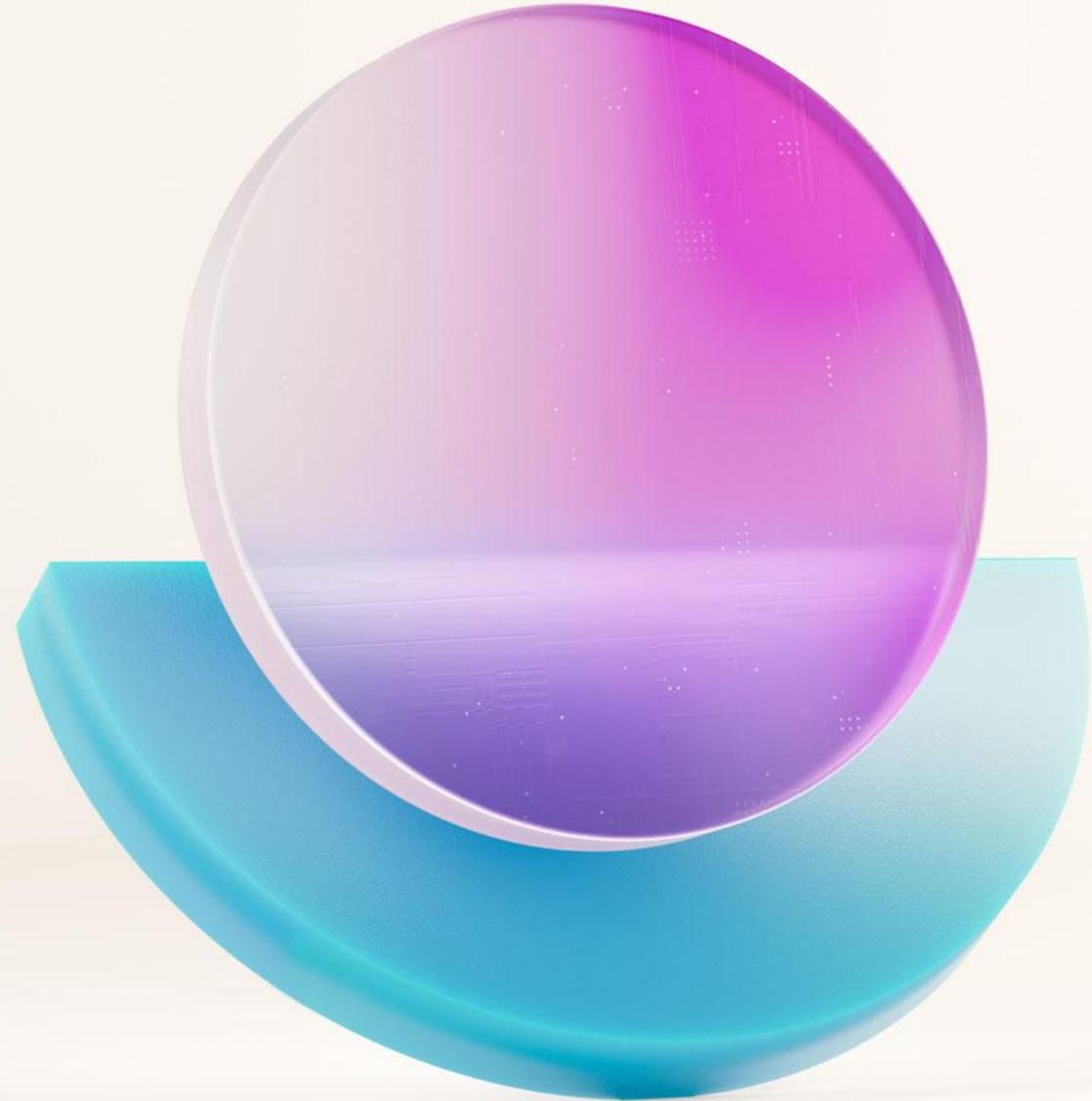
View and track all your activities across all workspaces in one place

The screenshot shows the Microsoft Data Factory Monitoring hub interface. On the left is a sidebar with navigation links: Home, Create, Browse, OneLake data hub, Monitoring hub (which is selected and highlighted in green), Workspaces, and ContosoAnalytics. The main area is titled "Monitoring hub" and contains a table of active activities. The table columns are: Activity name, Status, Item type, Start time, Submitter, and Location. The table data is as follows:

Activity name	Status	Item type	Start time	Submitter	Location
demo-pipeline	Succeeded	Data pipeline	11:46 PM, 4/26/23	Shireen Bahadur	ContosoAnalytics
demo-pipeline	Succeeded	Data pipeline	11:48 PM, 4/26/23	Shireen Bahadur	ContosoAnalytics
Contoso_Data_Pipeline	Failed	Data pipeline	5:28 PM, 5/9/23	Abhishek Narain	ContosoAnalytics
Contoso_Data_Pipeline	Failed	Data pipeline	5:31 PM, 5/9/23	Abhishek Narain	ContosoAnalytics
pipeline6	Succeeded	Data pipeline	10:31 AM, 5/10/23	Abhishek Narain	ContosoAnalytics
Contoso_Data_Pipeline	Failed	Data pipeline	1:36 PM, 5/16/23	Abhishek Narain	ContosoAnalytics
pipeline8	Failed	Data pipeline			
Notebook_2_990e4f3d-8fb0-468e-9b4c-844462...	Succeeded	Notebook			
pipeline8	Failed	Data pipeline			
pipeline10	Succeeded	Data pipeline			
pipeline10	Succeeded	Data pipeline			
pipeline10	Succeeded	Data pipeline			

To the right of the table is a "Workspace settings" panel. It includes a "Git integration" section with fields for "Organization" (sbahadur0592), "Project" (MS-Sales), "Git repository" (saledev), "Branch" (contoso-dev), and "Git folder" (Enter name of folder). There are also sections for "Power BI", "Data", and "Engineering/Science". At the bottom of the panel are "Connect and sync" and "Cancel" buttons.

Microsoft Fabric
Community Conference



Questions?



Join Us : Fabric User Panel

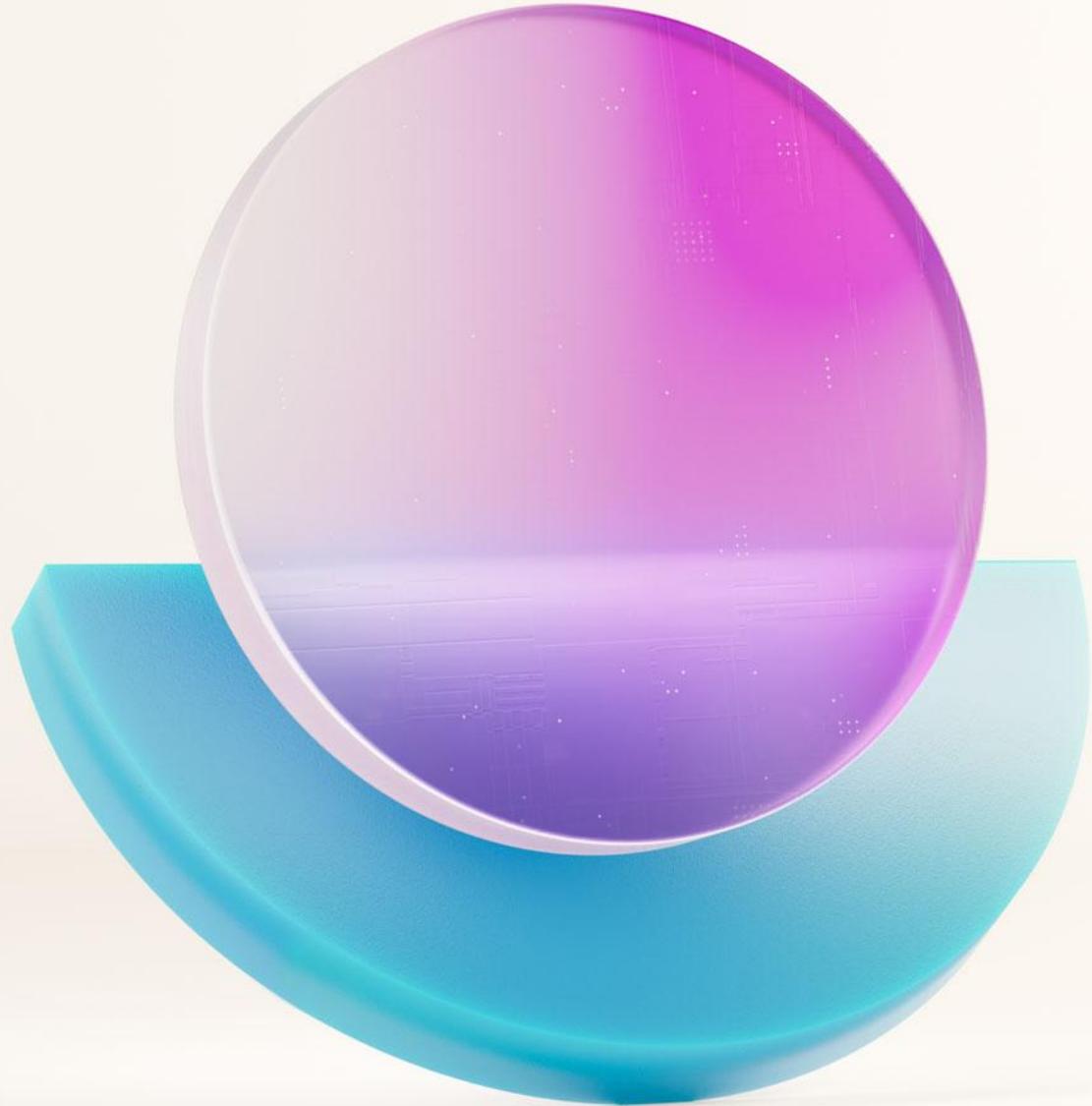
**Let's take a short
break...**

Be back @ 10:30



Influence our product roadmap and ensure
Fabric meets your real-life needs

Join us at aka.ms/FabricUserPanel
Have questions? Email us at evCLC@microsoft.com



**Unify your data
with Lakehouses**



Unified data management with a Lakehouse in Microsoft Fabric

Store, manage and **analyze** all your data in a single location and easily share across the entire enterprise

Flexible and scalable solution that enables organizations to handle large data volumes of all types and sizes

Built-in SQL endpoint unlocks Data Warehouse capabilities on top of your Lakehouse with no data movement

Address the challenges of traditional Data Lakes by adding a **Delta Lake storage** layer directly on top of the cloud Data Lake

The screenshot shows the Microsoft Fabric interface for a Lakehouse named "Lakehouse1". The left sidebar, titled "Explorer", lists various datasets and files under "Lakehouse1" and "Tables". A "sales" dataset is currently selected. The main area displays a Power BI report titled "sales" with a table showing 1000 rows of sales data. The table includes columns such as SalesOrderNumber, SalesOrderLineNumber, OrderDate, CustomerName, EmailAddress, Item, Quantity, UnitPrice, and TaxAmount. The data is from the AdventureworksLT database, showing various purchases made between June 2021 and November 2021.

SalesOrderNumber	SalesOrderLineNumber	OrderDate	CustomerName	EmailAddress	Item	Quantity	UnitPrice	TaxAmount
SO51555	7	6/23/2021 12:00:00 AM	Chloe Garcia	chloe27@adventure-w...	Patch Kit/8 Patches	1	2.29	0.1832
SO54042	7	8/9/2021 12:00:00 AM	Logan Collins	logan29@adventure-w...	Half-Finger Gloves, L	1	24.49	1.9592
SO54784	7	8/22/2021 12:00:00 AM	Autumn Li	autumn3@adventure-w...	All-Purpose Bike Stand	1	159	12.72
SO58572	7	10/25/2021 12:00:00 ...	Cesar Sara	cesar9@adventure-w...	Short-Sleeve Classic J...	1	53.99	4.3192
SO58845	7	10/30/2021 12:00:00 ...	Peter She	peter8@adventure-w...	Sport-100 Helmet, Bla...	1	34.99	2.7992
SO58845	8	10/30/2021 12:00:00 ...	Peter She	peter8@adventure-w...	Long-Sleeve Logo Jer...	1	49.99	3.9992
SO60233	7	11/16/2021 12:00:00 ...	Jason Mitchell	jason40@adventure-w...	Sport-100 Helmet, Bla...	1	34.99	2.7992
SO61412	7	12/3/2021 12:00:00 AM	Nathaniel Cooper	nathaniel9@adventur...	Short-Sleeve Classic J...	1	53.99	4.3192
SO62984	7	12/29/2021 12:00:00 ...	Miguel Sanchez	miguel72@adventure-w...	Racing Socks, M	1	8.99	0.7192
SO51555	6	6/23/2021 12:00:00 AM	Chloe Garcia	chloe27@adventure-w...	Mountain Bottle Cage	1	9.99	0.7992
SO52058	6	7/4/2021 12:00:00 AM	Elijah Ross	elijah7@adventure-w...	Short-Sleeve Classic J...	1	53.99	4.3192
SO53255	6	7/28/2021 12:00:00 AM	Edward Taylor	edward31@adventur...	Short-Sleeve Classic J...	1	53.99	4.3192
SO53852	6	8/5/2021 12:00:00 AM	Maria Reed	maria4@adventure-w...	Hydration Pack - 70 oz.	1	54.99	4.3992
SO54042	6	8/9/2021 12:00:00 AM	Logan Collins	logan29@adventure-w...	Short-Sleeve Classic J...	1	53.99	4.3192
SO54377	6	8/15/2021 12:00:00 AM	Ashlee Xu	ashlee12@adventure-w...	Water Bottle - 30 oz.	1	4.99	0.3992
SO54784	6	8/22/2021 12:00:00 AM	Autumn Li	autumn3@adventure-w...	Patch Kit/8 Patches	1	2.29	0.1832
SO55957	6	9/10/2021 12:00:00 AM	Melissa Richardson	melissa31@adventure-w...	Water Bottle - 30 oz.	1	4.99	0.3992
SO56533	6	9/21/2021 12:00:00 AM	Max Alvarez	max5@adventure-w...	Bike Wash - Dissolver	1	7.95	0.636
SO58845	6	10/30/2021 12:00:00 ...	Peter She	peter8@adventure-w...	Water Bottle - 30 oz.	1	4.99	0.3992
SO59161	6	11/1/2021 12:00:00 AM	Isabella Long	isabella20@adventur...	Hydration Pack - 70 oz.	1	54.99	4.3992
SO59384	6	11/4/2021 12:00:00 AM	Miranda Ross	miranda4@adventure-w...	Hydration Pack - 70 oz.	1	54.99	4.3992
SO60232	6	11/16/2021 12:00:00 ...	Kristi Malhotra	kristi21@adventure-w...	Hitch Rack - 4-Bike	1	120	9.6
SO60233	6	11/16/2021 12:00:00 ...	Jason Mitchell	jason40@adventure-w...	Water Bottle - 30 oz.	1	4.99	0.3992
SO62210	6	12/16/2021 12:00:00 ...	Billy Ortega	billy22@adventure-w...	Bike Wash - Dissolver	1	7.95	0.636
SO62208	6	12/16/2021 12:00:00 ...	Emily Flores	emily37@adventure-w...	Water Bottle - 30 oz.	1	4.99	0.3992
SO62934	6	12/28/2021 12:00:00 ...	Brenda Arun	brenda10@adventure-w...	Patch Kit/8 Patches	1	2.29	0.1832
SO63095	6	12/31/2021 12:00:00 ...	Austin Johnson	austin40@adventure-w...	Water Bottle - 30 oz.	1	4.99	0.3992
SO51370	6	6/11/2021 12:00:00 AM	Christopher Harris	christopher14@adven...	Sport-100 Helmet, Blue	1	34.99	2.7992



Automatic discovery of Delta Lake tables in a Lakehouse

The screenshot shows the Databricks Home interface with a teal header bar. The top navigation bar includes icons for Home, Create, Browse, OneLake data hub, Monitoring hub, Workspaces, and Data Engineering. On the far right, there is a dropdown menu labeled "Lakehouse". The main content area has a "Home" tab selected. Below it, there are buttons for "Get data", "New Power BI dataset", and "Open notebook". The left sidebar is titled "Explorer" and shows a tree view of data sources: "NYCCabData" expanded to show "Tables" and "Files", and a folder named "TaxiData" which is currently selected, indicated by a grey background and a cursor icon pointing at its name. The main panel displays a file listing under "Files > TaxiData". The table has columns for Name, Date modified, Type, and Size. It contains one entry: "taxi_zone_lookup.csv" last modified on 5/3/2023 at 11:30:02 AM, type CSV, size 12 KB.

Name	Date modified	Type	Size
taxi_zone_lookup.csv	5/3/2023 11:30:02 AM	CSV	12 KB



Automatic discovery of Delta Lake tables in a Lakehouse

The Lakehouse explorer provides a **tree-like view** of the objects in the Microsoft Fabric Lakehouse item.

It has a key capability of discovering and displaying tables that are described in the metadata repository and in OneLake storage.

Delta Lake - Achieve seamless data access across all compute engines in Microsoft Fabric

The screenshot shows the Microsoft Fabric Lakehouse Explorer interface. On the left, there's a sidebar with icons for Create, Browse, OneLake data hub, Monitoring hub, Workspaces, My workspace, and TFLakehouse. The main area is titled 'Explorer' and shows a tree view under 'TFLakehouse'. The 'Tables' node is expanded, showing a table named 'taxi_zone_lookup'. This table has four columns: LocationID, Borough, Zone, and service_zone. Below the table, there are four rows of sample data. The 'Files' node is also visible, with a 'TaxiData' folder expanded. A status message at the top right says: 'A SQL endpoint for SQL querying and a default dataset for reporting were created and will be updated with any tables added to the lakehouse.'

	LocationID	Borough	Zone	service_zone
1	1	EWR	Newark Air...	EWR
2	132	Queens	JFK Airport	Airports
3	138	Queens	LaGuardia ...	Airports
4	264	Unknown	NV	N/A
5	265	Unknown	NA	N/A
6	4	Manhattan	Alphabet City	Yellow Zone
7	12	Manhattan	Battery Park	Yellow Zone
8	13	Manhattan	Battery Par...	Yellow Zone
9	24	Manhattan	Bloomingd...	Yellow Zone



Navigating the Fabric Lakehouse explorer in Microsoft Fabric

The screenshot shows the Microsoft Fabric Lakehouse explorer interface. On the left, there's a sidebar with various navigation options: Home, Create, Browse, Data hub, Monitoring hub, Workspaces, LHRedesign_AviWS, ContosoDailySales, ContosoDailySales, and Power BI. The 'ContosoDailySales' section is expanded, showing 'Tables' and 'Unidentified' categories. Under 'Tables', 'Customer' is selected and highlighted with a gray background. The main area displays a table titled 'Customer' with columns: Index, UserId, FirstName, LastName, Sex, Email, Phone, DateOfBirth, and JobTitle. The table shows 11 rows of sample data. A status bar at the bottom indicates 'Showing <1000> rows'.

Index	UserId	FirstName	LastName	Sex	Email	Phone	DateOfBirth	JobTitle	
1	2	3d5AD30A...	Jo	Rivers	Female	fergusonkat...	-10395	7/26/1931	Dancer
2	3	810Ce0F27...	Sheryl	Lowery	Female	fhoward@e...	(599)782-0...	11/25/2013	Copy
3	5	9afFEafAe1...	Lindsey	Rice	Female	elin@exam...	(390)417-1...	4/15/1923	Biomedical ...
4	13	CDA21B6e8...	Eddie	Barnes	Female	brandy23@...	801.809.91...	2/27/1975	Dramathera...
5	14	1CC30c5F2...	Ralph	Lowe	Female	dleon@exa...	+1-511-127...	4/10/1938	Presenter, b...
6	16	bFCFDdE54...	Carly	Abbott	Female	stricklando...	(416)979-0...	10/27/2007	Therapeutic...
7	18	aCeff56E59...	Natasha	Macias	Female	dorothyme...	(929)366-8...	10/31/1971	Recruitmen...
8	19	CF091D6b9...	Courtney	Jenkins	Female	estesana@...	(973)243-9...	1/20/1948	Accounting...
9	20	462EF46dca...	Perry	Mcmahon	Female	allison66@...	060-611-93...	11/24/2006	Education o...
10	24	3Cb9Fe3aB...	Norman	Walton	Female	samanthas...	(590)187-8...	6/19/1973	Personnel o...
11	25	be6BBa9EB...	Roaer	Sweeney	Female	leblanciohn...	-8153	9/9/2008	Race relatio...



Navigating the Fabric Lakehouse explorer in Microsoft Fabric

Navigation

1. Refresh Lakehouse metadata
2. Get data
3. Lakehouse explorer for tables and files

Index	UserId	FirstName	LastName	Sex	Email	Phone	DateOfBirth	JobTitle	
1	2	3d5AD30A...	Jo	Rivers	Female	fergusonkat...	-10395	7/26/1931	Dancer
2	3	810Ce0F27...	Sheryl	Lowery	Female	fhoward@e...	(599)782-0...	11/25/2013	Copy
3	5	9affEaAe1...	Lindsey	Rice	Female	elin@exam...	(390)417-1...	4/15/1923	Biomedical ...
4	13	CDA21B6e8...	Eddie	Barnes	Female	brandy23@...	801.809.91...	2/27/1975	Dramathera...
5	14	1CC30c5F2...	Ralph	Lowe	Female	dleon@exa...	+1-511-127...	4/10/1938	Presenter, b...
6	16	bFCFDdE54...	Carly	Abbott	Female	stricklando...	(416)979-0...	10/27/2007	Therapeutic...
7	18	aCefF56E59...	Natasha	Macias	Female	dorothyme...	(929)366-8...	10/31/1971	Recruitmen...
8	19	CF091D6b9...	Courtney	Jenkins	Female	estesana@...	(973)243-9...	1/20/1948	Accounting...
9	20	462EF46dca...	Perry	Mcmahon	Female	allison66@...	060-611-93...	11/24/2006	Education o...
10	24	3Cb9Fe3aB...	Norman	Walton	Female	samanthas...	(590)187-8...	6/19/1973	Personnel o...
11	25	be6BBa9EB...	Roger	Sweeney	Female	leblanciohn...	-8153	9/9/2008	Race relatio...



Lakehouse SQL endpoint in Microsoft Fabric

The Lakehouse creates a serving layer by automatically generating a SQL endpoint and a default dataset during creation

You can **only read data** from delta tables using SQL endpoint

Save functions, views, and set SQL object-level security

The screenshot shows the Microsoft Fabric Data Explorer interface. On the left, the sidebar includes icons for Home, Create, Browse, OneLake data hub, Monitoring hub, Workspaces, My workspace, and TFLakehouse. The TFLakehouse icon is highlighted with a teal border. The main area has a teal header bar with the title 'TFLakehouse' and a search bar. Below the header, there are several action buttons: 'Get data', 'New Power BI dataset', and 'Open notebook'. A message box displays the text: 'A SQL endpoint for SQL querying and a default dataset for reporting were created and will be updated with any tables added to the lakehouse.' To the right of the message, a section titled 'Get data in your lakehouse' contains four cards: 'New Dataflow Gen2' (with a data flow icon), 'New data pipeline' (with a pipeline icon), 'Open notebook' (with a notebook icon), and another card partially visible.



Share your Lakehouse with consumers in Microsoft Fabric

Grant access **without adding users** to your workspace

Use **SQL Security** or custom permissions for SQL Endpoint access

Discover accessible Lakehouses in the OneLake data hub

Access Lakehouse data via Spark, SQL Endpoint, and Power BI semantic models

The screenshot shows the Microsoft Fabric OneLake data hub interface. On the left, there's a sidebar with various icons for Home, Create, Browse, DataHub (selected), Monitoring hub, Metrics, Apps, Deployment pipelines, Learn, Workspaces, and a specific item named 'ContosoDailySales'. The main area has a header 'OneLake data hub' with a search bar. Below it, there's a 'Recommended' section with cards for 'ContosoDailySales', 'Test', 'Test2', 'Customer360', and 'LakehouseTest1' (which is marked as 'Promoted'). Below this is a table titled 'Explorer' showing a list of Lakehouses and datasets:

Name	Type	Owner	Location	Refreshed	Endorsement	Sensitivity
ContosoDailySales	Lakehouse	Avinanda Chattapad...	LHRedesign_AviWS	-	-	Confidential\Microsoft Exte...
Test	Lakehouse	Avinanda Chattapad...	Customer360WS	-	-	Confidential\Microsoft Exte...
Test2	Lakehouse	Avinanda Chattapad...	Customer360WS	-	-	Confidential\Microsoft Exte...
Customer360	Lakehouse	Avinanda Chattapad...	Customer360WS	-	-	Confidential\Microsoft Exte...
Test2	Warehouse (default)	Avinanda Chattapad...	Customer360WS	12/31/52, 4:07:02 PM	-	Confidential\Microsoft Exte...
Test2	Dataset (default)	Avinanda Chattapad...	Customer360WS	4/10/23, 1:52:44 PM	-	Confidential\Microsoft Exte...



Open and accessible endpoints in Microsoft Fabric



Lakehouse

SQL analytics endpoint / Azure Blob File System (ABFS) / URL endpoint



Warehouse

SQL endpoint / OneLake availability



Eventhouse

Cluster address (Kusto) / OneLake availability



Semantic model

Extensible Markup Language for Analysis (XMLA) endpoint address / OneLake availability



GraphQL

URL endpoint



Delta table and column name validation and rules in Microsoft Fabric

Tables

Table names can only contain **alphanumeric** characters and **underscores**



Text files

Text files without column headers are replaced with **standard col# notation** as the table column names



Columns

Column names are **validated during the load action** and the action fails if column names are invalid



Interacting with a Lakehouse in Microsoft Fabric

OneLake file explorer

Explore data in the Lakehouse using Windows File Explorer

Notebooks

Use the Notebook to write code to read, transform and write directly to Lakehouse as tables and/or folders

Data pipelines

Use pipeline copy tool to pull data from other sources and land into the Lakehouse

Copy job

Develop robust applications and orchestrate the execution of compiled Spark jobs in Java, Scala, and Python

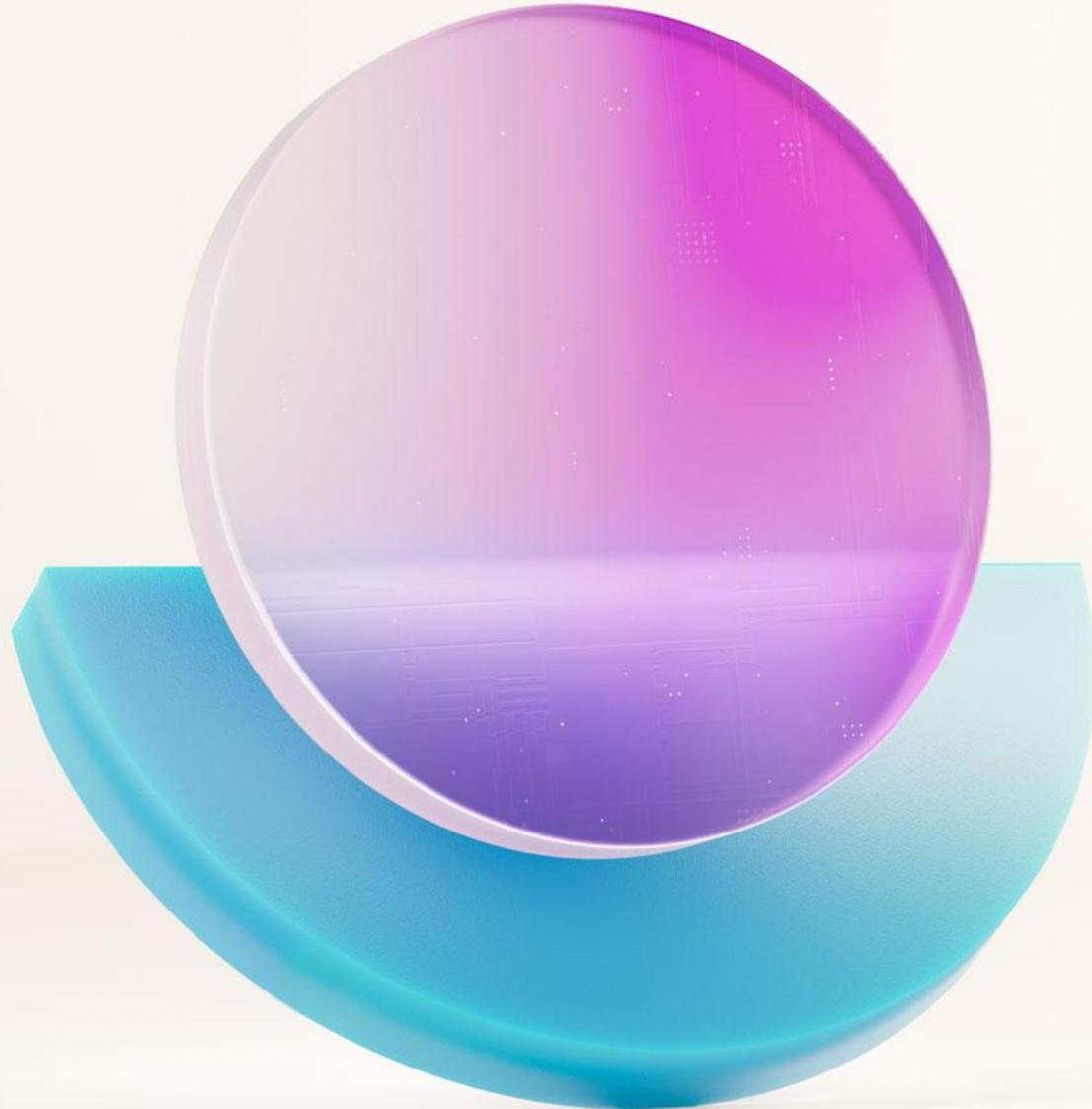
Dataflows Gen2

Use Dataflows Gen 2 to ingest and prepare the data

Apache Spark job definitions

Develop robust applications and orchestrate the execution of compiled Spark jobs in Java, Scala, and Python

And more...



Create Medallion Architecture in a Lakehouse



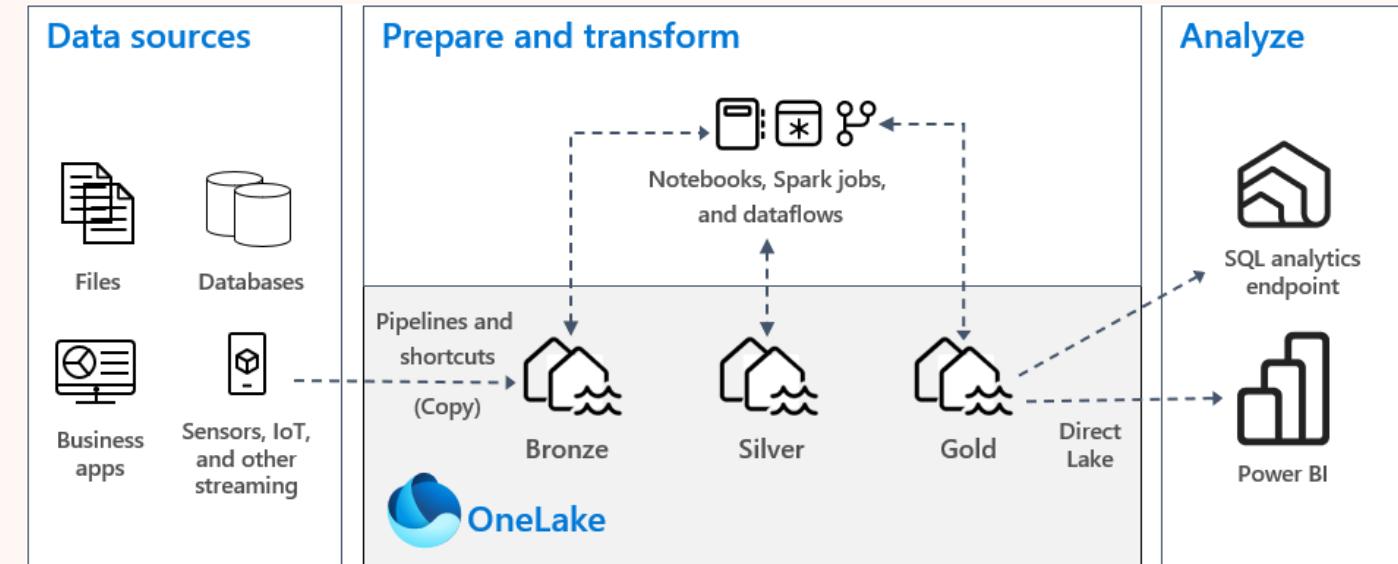
Medallion architecture

Build a single source of truth for enterprise data products with a multi-layered approach

Medallion Lakehouse architecture

Medallion architecture has three layers that represent different data quality levels: **bronze (raw data)**, **silver (validated data)**, and **gold (enriched data)**

As data moves through these layers, it undergoes validations and transformations to ensure it meets the **ACID properties** (Atomicity, Consistency, Isolation, and Durability) and is optimized for analytics





Medallion architecture

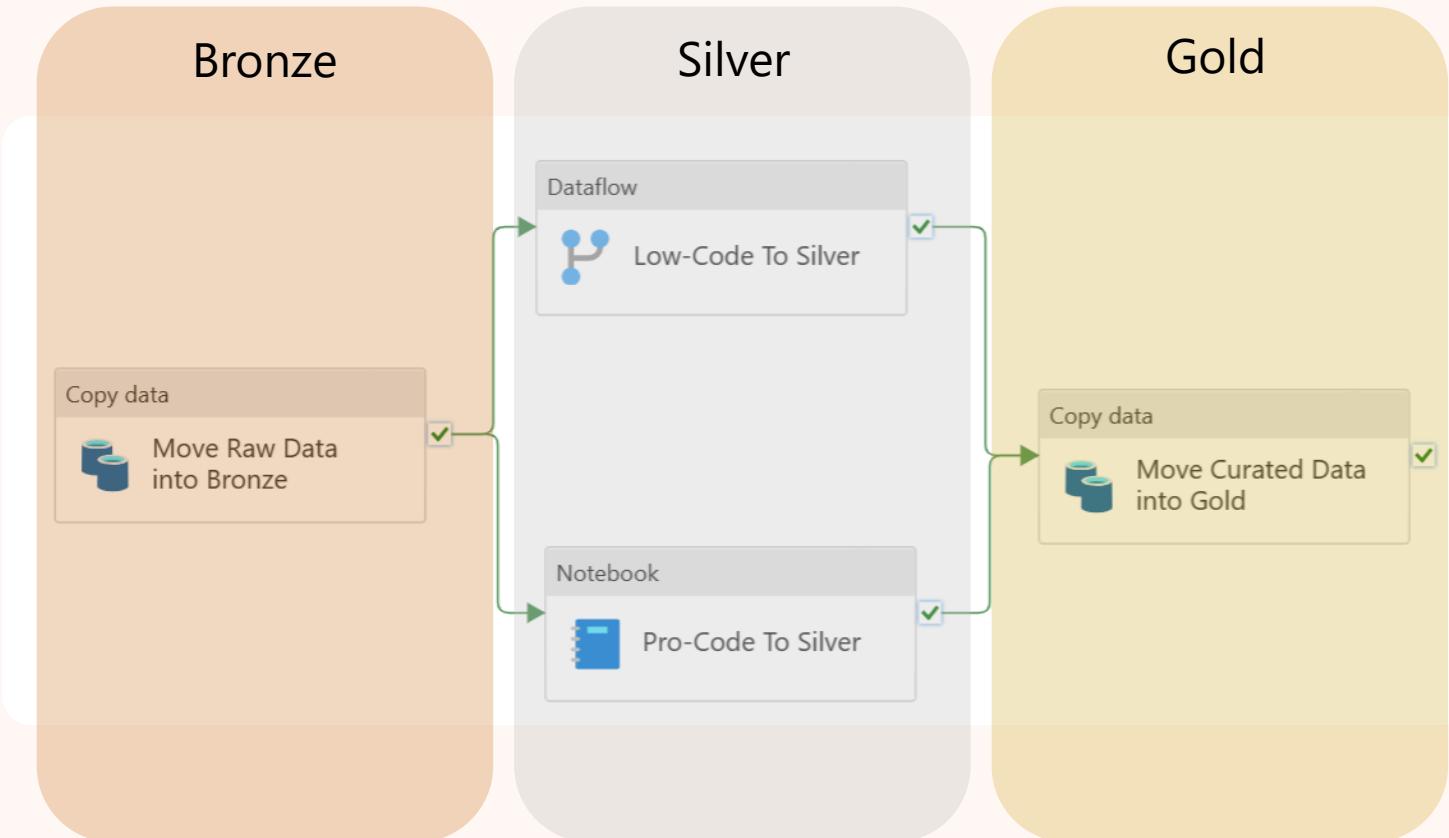
Build a single source of truth for enterprise data products with a multi-layered approach

Distinct layers (or zones)

Bronze (raw zone): This layer stores source data in its original format, which is typically append-only and immutable.

Silver (enriched zone): Data from the bronze layer is cleansed, standardized, and structured as tables. It may also be integrated with other data to provide a comprehensive view of business entities like customers and products.

Gold (curated zone): Data from the silver layer is refined to meet specific business and analytics requirements. Tables in this layer usually follow a star schema design, optimizing them for performance and usability.



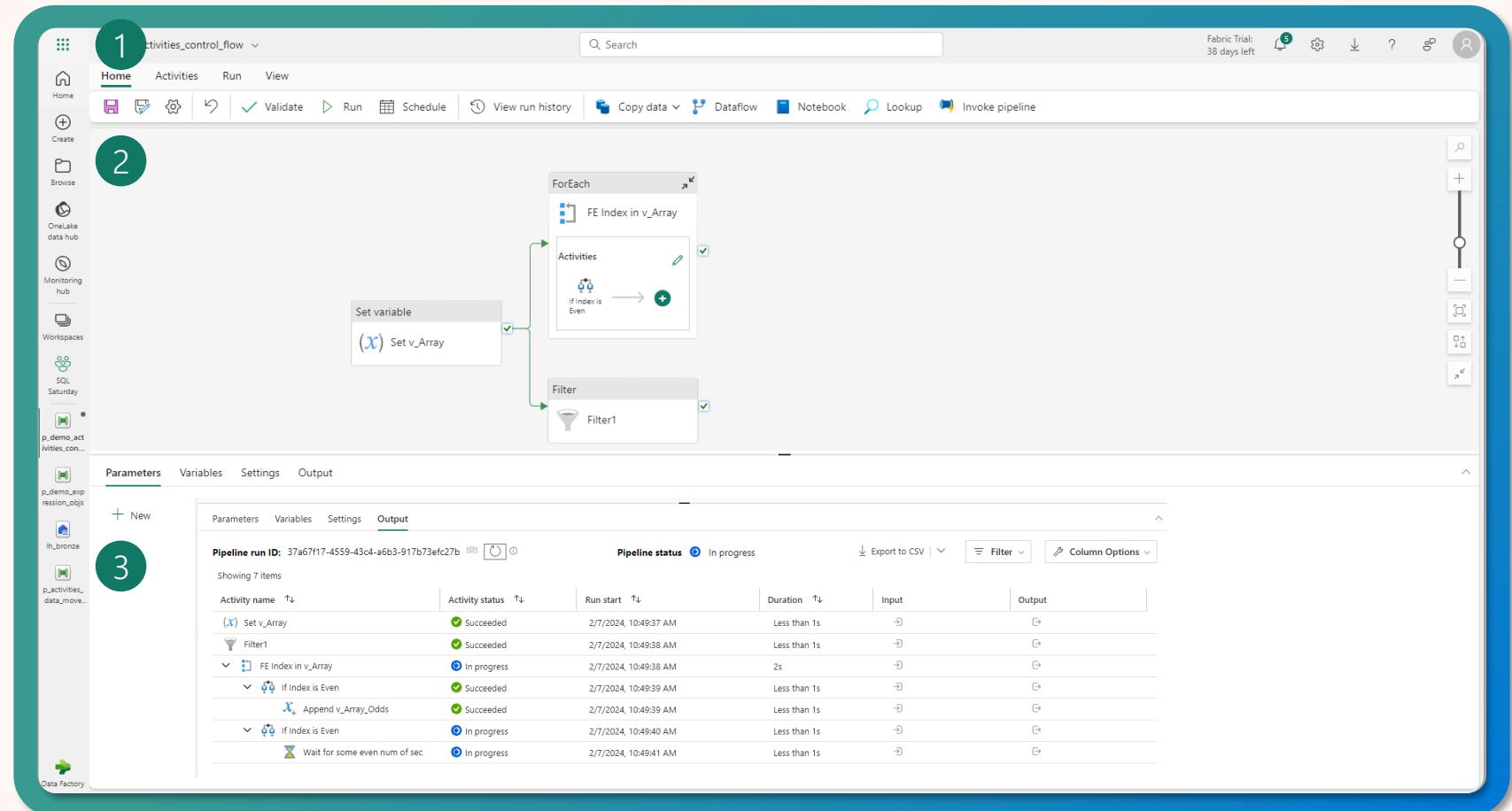


Data pipelines

Exploring data pipelines

Navigation

1. Command ribbon
2. Authoring canvas
3. Properties/output





Lab Demo: Let's Get Started

- Create a **Medallion task flow** with a Lakehouse + Data pipeline
- Use a **Copy activity** in Data pipeline
- Explore **Data pipeline's authoring canvas**

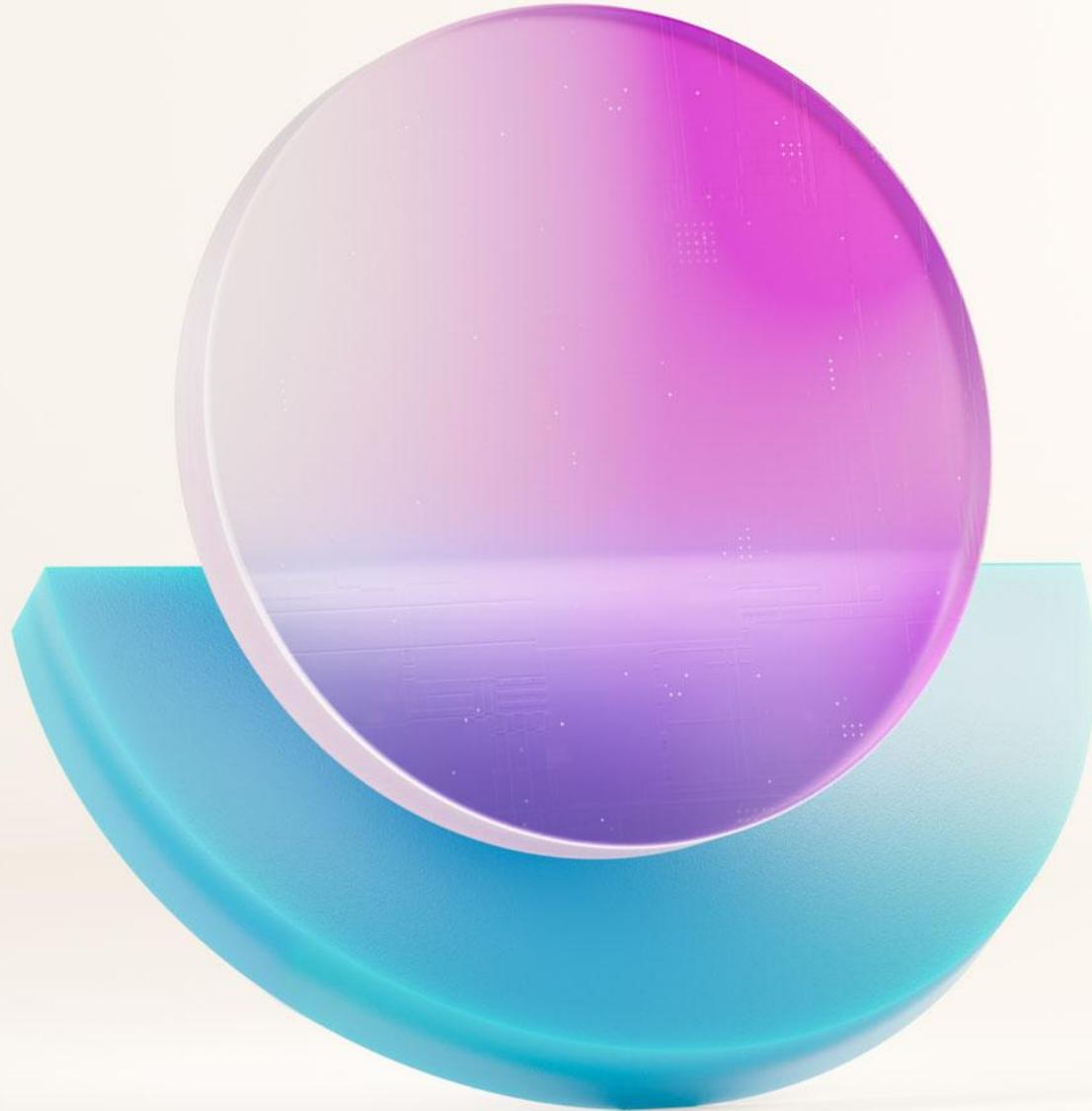
Reminder of how to access lab instructions

All materials are available at:

<https://aka.ms/dfiad>

Lab Instructions:

Getting started



Getting data into a Lakehouse



Getting data into a Fabric Lakehouse

File upload from local computer or OneLake file explorer

Run a Copy job, Data pipeline, Dataflow Gen2 or Mirrored database to **ingest data**

Ingest and transform data with a Dataflow Gen2 or Eventstream

Apache Spark libraries in **Notebook code**

The screenshot shows the Microsoft Fabric Home interface. At the top, there's a navigation bar with icons for Home, Get data (which is currently selected and highlighted in blue), New semantic model, Open notebook, and Manage OneLake data access. Below the navigation bar is the Explorer sidebar, which lists a 'testLake' workspace containing a 'Date' folder and three tables: DimCustomer, DimCustomer_raw, DimGeography_raw, and DimProduct. A context menu is open over the 'DimCustomer' table, with options: Upload files, New data pipeline, New Dataflow Gen2, New shortcut, and New Eventstream. The 'New Eventstream' option is highlighted with a blue box. To the right of the Explorer is a preview pane titled 'DimCustomer' showing a sample of the data:

	12L CustomerKey	12L GeographyK...	ABC FirstName
1	3704	586	Clifford
2	4260	443	Franklin
3	4279	546	Brandon
4	4668	674	Hector
5	7900	628	Glenn
6	8284	626	Adrian
7	9832	515	Drew
8	10097	480	Jon



Shortcuts in a Fabric Lakehouse

Shortcuts in a Lakehouse allow users to reference data without copying it from **Tables or Files**

Shortcuts unify data from different Lakehouses, workspaces, or external storage, such as:

- ADLS Gen2
- AWS S3
- Dataverse

The screenshot shows the Microsoft Fabric Lakehouse interface. On the left, there's a sidebar with icons for Home, Create, Browse, OneLake data hub, Monitoring hub, Workspaces, My workspace, and TFLakehouse. The main area has a title bar 'TFLakehouse' and a search bar. Below that is a 'Home' section with buttons for 'Get data', 'New Power BI dataset', and 'Open notebook'. A message indicates that a SQL endpoint and default dataset were created. The 'Explorer' section shows a tree view with 'TFLakehouse' expanded, revealing 'Tables' and 'Files'. Under 'Tables', there's a folder named 'taxi_zone_lookup' containing four columns: 'LocationID', 'Borough', 'Zone', and 'service_zone'. A context menu is open over this folder, with the 'New shortcut' option highlighted by a red box. Other options in the menu include 'New subfolder', 'Upload', 'Rename', 'Delete', 'Properties', and 'Refresh'. To the right of the Explorer is a table view showing data from the 'taxi_zone_lookup' table. The table has columns 'ID', 'Borough', 'Zone', and 'service_zone'. The data includes rows for EWR, Newark Airports, Queens, JFK Airport, Queens, LaGuardia Airports, Unknown, NV, Unknown, NA, Manhattan, Alphabet City, Yellow Zone, Manhattan, Battery Park, and Yellow Zone.

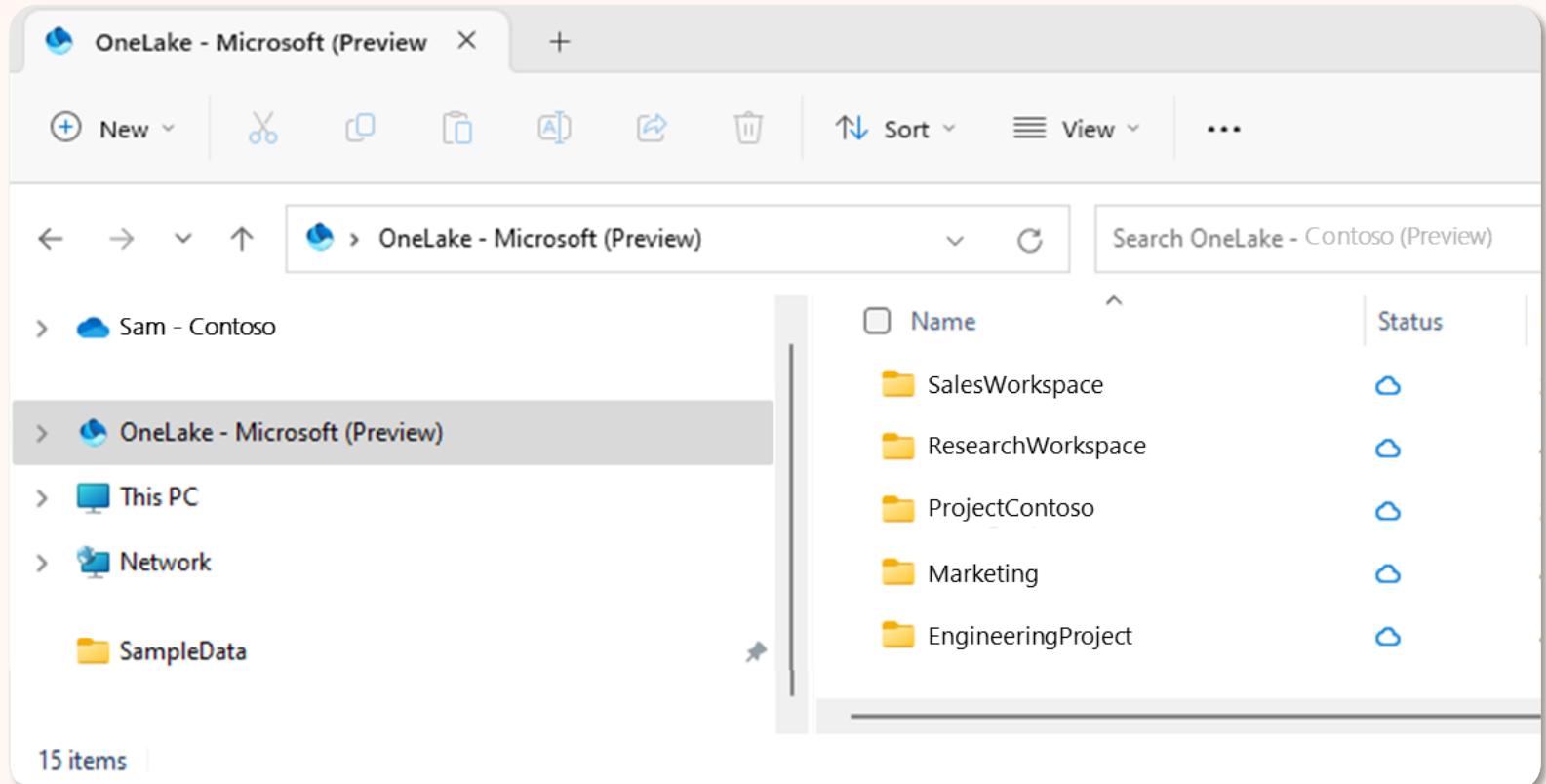
ID	Borough	Zone	service_zone
EWR	Newark Air...	EWR	
Queens	JFK Airport	Airports	
Queens	LaGuardia ...	Airports	
Unknown	NV	N/A	
Unknown	NA	N/A	
Manhattan	Alphabet City	Yellow Zone	
Manhattan	Battery Park	Yellow Zone	



OneLake file explorer

Seamlessly integrates OneLake with Windows File Explorer, **automatically syncing** all OneLake items that you have access to in file explorer

Syncing doesn't download the data, it creates placeholders. You must double-click on a file to download the data locally





Check your knowledge

Data ingestion scenarios

Connecting to existing SQL Server and **copying** data into Delta table on the Lakehouse

Uploading files from your computer

Copying and **merging** multiple tables from other Lakehouses into a new Delta table

Referencing data without copying it from other internal Lakehouses or external sources



Considerations when loading data

Use case

Small file upload from local machine



Use OneLake file explorer / Upload file

Data ingestion only



Use Copy job or Data pipeline

Orchestrated data ingestion and transformation



Use a Data pipeline and Dataflow Gen2

Complex data transformations and orchestration

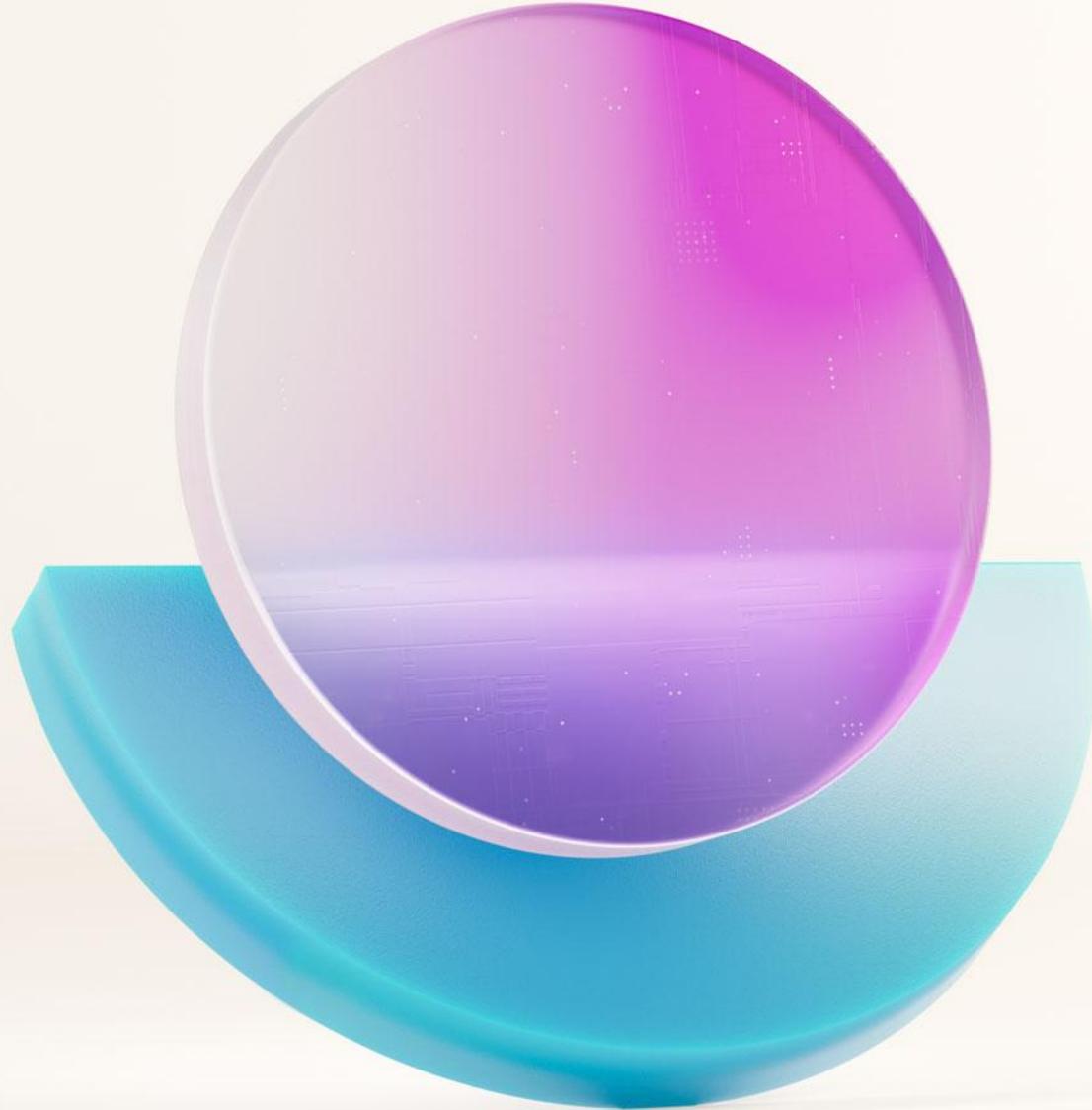


Use Data pipeline and Notebook

Recommendation

Data ingestion decision guide

	Copy job	Data pipeline	Dataflow Gen 2	Spark
Use case	Data ingestion	Data ingestion, lightweight transformation	Data ingestion, data transformation, data wrangling, data profiling	Data ingestion, data transformation, data processing, data profiling
Primary developer persona	Data integrator	Data engineer, data integrator	Data engineer, data integrator, business analyst	Data engineer, data scientist, data developer
Primary developer skill set	ETL	ETL, SQL, JSON	ETL, M, SQL	Spark (Scala, Python, Spark SQL, R)
Code written	No code	No code, low code	No code, low code	Code
Data volume	Low to high	Low to high	Low to high	Low to high
Development interface	Assistant	Assistant, canvas	Power Query	Notebook, Spark job definition
Sources	8+ connectors	30+ connectors	150+ connectors	Hundreds of Spark libraries
Destinations	10+ connectors	18+ connectors	Lakehouse, Azure SQL database, Azure Data explorer, Azure Synapse Analytics	Hundreds of Spark libraries
Transformation complexity	Low: Lightweight – column mapping, table mapping	Low: lightweight - type conversion, column mapping, merge/split files, flatten hierarchy	Low to high: 300+ transformation functions	Low to high: support for native Spark and open-source libraries



Overview: Data engineering in Fabric



Data engineering in Fabric

Empowers data engineers to transform data at scale and build a Lakehouse architecture



Build a Lakehouse
for all your
organizational data



Spark runtime with great
out of the box
performance and robust
admin controls



Delightful authoring
experience in your
tools of choice



Completely
integrated into the
Fabric foundation



Data engineering in Fabric

Empowers data engineers to transform data at scale and build a Lakehouse architecture



Lakehouse

Store and manage structured and unstructured data in a single location



Apache Spark job definition

Submit batch/streaming job to Spark cluster, apply different transformation logic to the data



Notebook

Create and share documents that contain live code, equations, visualizations, and narrative text



Data pipeline

Collect, process, and transform data from its raw form to a format that you can use for analysis and decision-making



Ingesting and orchestrating data with Data pipelines



Data pipelines in Fabric Data Factory

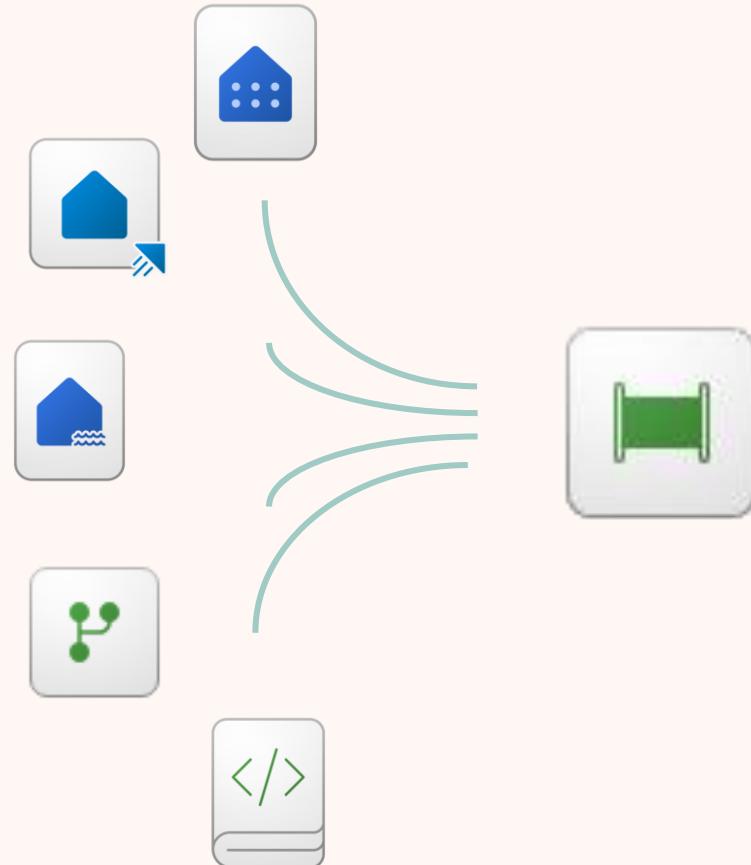
Seamlessly connect and ingest data into Fabric using a no-code interface

Evolution of **Azure Data Factory** pipelines

Rich library of **activities**

Fast copy of binary files using Az-Copy

Jumpstart with **Copy Assistant**





User Data Functions in the Functions activity in Data pipelines

Public Preview

Run specific functions within the pipeline

Fabric User Data Functions allows for custom functions designed for **event-driven scenarios**

Azure functions are serverless functions that can be triggered by various events

The screenshot shows the Power BI Dataflows interface. On the left, there's a sidebar with icons for Home, Connect, Create, Pipelines, Models, and Dataflows. The main area displays a list of pipelines:

Name	Git status	Type	Last	Owner	Refreshed	Next refresh	Endorsements	Sensitivity	Included in app
azurestorage.eventListener	-	Event listener	-	Mark Kramer	-	-	-	Confidentiality	0
child pipeline	-	Data pipeline	-	Mark Kramer	-	-	-	Confidentiality	0
copyjob1	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob2	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob4	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob5	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob6	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob7	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob8	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob9	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob_smashbox	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob10	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
copyjob100	-	Copy job	-	Connie Xu	-	-	-	Confidentiality	0
Dataflow1	-	Dataflow Gen2	-	Mark Kramer	-	N/A	-	-	-
Dataflow10	-	Dataflow Gen2	-	Mark Kramer	-	-	-	-	-

At the bottom right, a modal window titled "Functions" is open for the "Functions1" pipeline. It shows a preview of the function code and several action buttons: a blue double arrow icon, a trash can icon, a copy/paste icon, a refresh icon, and a green save icon.



Copilot for Data Factory in Data pipelines

AI-powered Intelligence

Ingest data into Fabric via pipeline's Copilot

Transform data by invoking a Dataflow Gen2 into your pipeline with Copilot

Receive a **summary** of your pipeline in natural language

Home Activities Run View

Validate Run Schedule Add trigger (preview) View

Copilot PREVIEW

What would you like to do?

Choose an option below or type a request to get started.

Ingest data
Bring data into Microsoft Fabric

Transform your data
Invoke your Dataflow Gen2 to transform data

Summarize this pipeline
Understand this pipeline's purpose and functions with summarized explanations

Summarize this pipeline

AI-generated content can have mistakes. Make sure it's accurate and appropriate before using it. [Review Terms](#)



Copy activity in Data pipelines

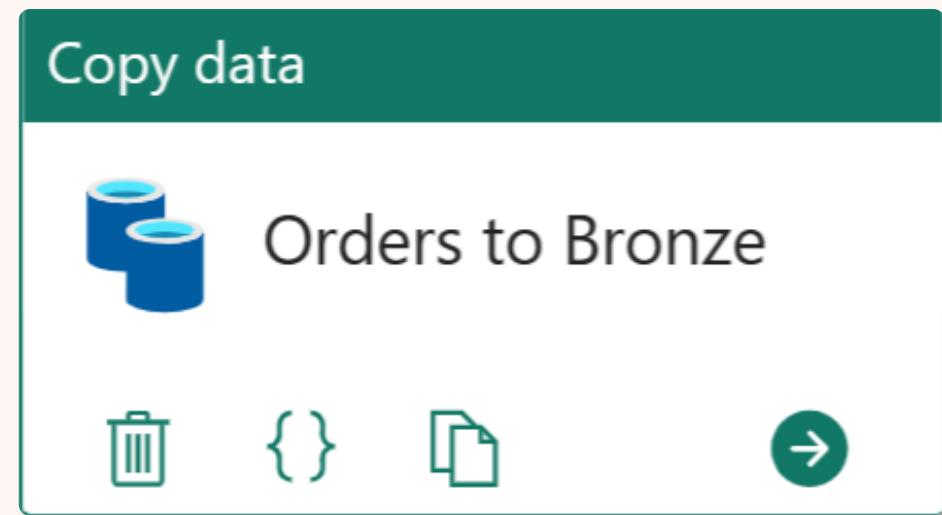
Copy activity is the core of data pipelines

Jumpstart with **Copy job** or **Copy assistant**

Fine grain control of file type conversion, column mapping, merging/splitting of files, and more..

Workspace source and destinations include Lakehouse (tables & files), Warehouse, SQL Database in Fabric, and KQL Database

Supports external sources and destinations



And so much more...

Capability	Description
Control flow	Conditional paths Loops
Nesting	Invoking data pipelines from other data pipelines Bi-directional communication via output variables
Parameterization	Parameters of varying data types
Expression language	Almost every field can be made dynamic Extensive built-in functions allow for massive customizations (data driven designs)
Repeatable	Scheduled



Platform scheduler

Schedule events at desired intervals

Supports **Data pipelines**, **Copy job**, **Dataflow Gen2**, and more.

Deeply integrated with **monitoring hub**

Scheduled:

- By the minute
- Hourly
- Daily
- Weekly
- Monthly

The screenshot shows the 'scheduling' interface for a 'Data pipeline'. The top navigation bar includes a search bar and a 'Run' button. On the left, there are tabs for 'About', 'Sensitivity label', 'Endorsement', and 'Schedule', with 'Schedule' being the active tab. The main area displays a message about no previous history and a scheduled refresh being turned off. A large red cursor arrow points to the 'Repeat' section, which is set to 'By the minute'. Other fields include 'Start date and time' and 'End date and time' both set to 'mm/dd/yyyy --:-- --', and a 'Time zone' dropdown set to '(UTC-06:00) Central Time (US and Canada)'. At the bottom are 'Apply' and 'Discard' buttons.



Event-driven triggers in Data pipelines

Invoke a Data pipeline upon a file event
using **Eventstreams** and **Reflex triggers**

Extensive event types and filtering
capabilities

Ability to link multiple pipelines to a single
event

The screenshot shows the Azure portal's configuration interface for setting up an event trigger. On the left, a vertical flow diagram indicates the process: 'Connect' (green dot), 'Configure trigger' (green dot with a checkmark), and 'Review and create' (white circle). The main panel is titled 'Configure events type and source' with a sub-section 'Select event type(s)'. A dropdown menu labeled 'Event type(s) *' contains a list of Microsoft Storage-related events, all of which are currently selected (indicated by checked checkboxes). The listed events include:

- Microsoft.Storage.BlobCreated
- Microsoft.Storage.BlobDeleted
- Microsoft.Storage.BlobRenamed
- Microsoft.Storage.BlobTierChanged
- Microsoft.Storage.DirectoryCreated
- Microsoft.Storage.DirectoryRenamed
- Microsoft.Storage.AsyncOperationInitiated
- Microsoft.Storage.DirectoryDeleted
- Microsoft.Storage.BlobInventoryPolicyCompleted
- Microsoft.Storage.LifecyclePolicyCompleted

A 'Clear all' button is located at the bottom right of the event selection area. At the very bottom of the screen, there is a 'Back' button.



Pipeline expression builder in Fabric Data Factory

Create and manage dynamic data-driven content

Wide range of functions and operators that can be used to manipulate and transform data

Greater **flexibility** and **reusability**, and to perform advanced data transformations without the need for custom code

Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables.

```
@string(add(mul(int(if(
    startswith(
        split(split(pipeline().parameters.interval, ':')[0],
        ')[0]
        , '0')
    , substring(
        split(split(pipeline().parameters.interval, ':')[0],
        '.')[0]
        , 1
```

[Clear contents](#)

Parameters System variables **Functions** Variables

[Search](#)

- [Expand all](#)
- [Collection Functions](#)
- [Conversion Functions](#)
- [Date Functions](#)
- [Logical Functions](#)
- [Math Functions](#)
- [String Functions](#)

[Add dynamic content \[Alt+Shift+D\]](#)

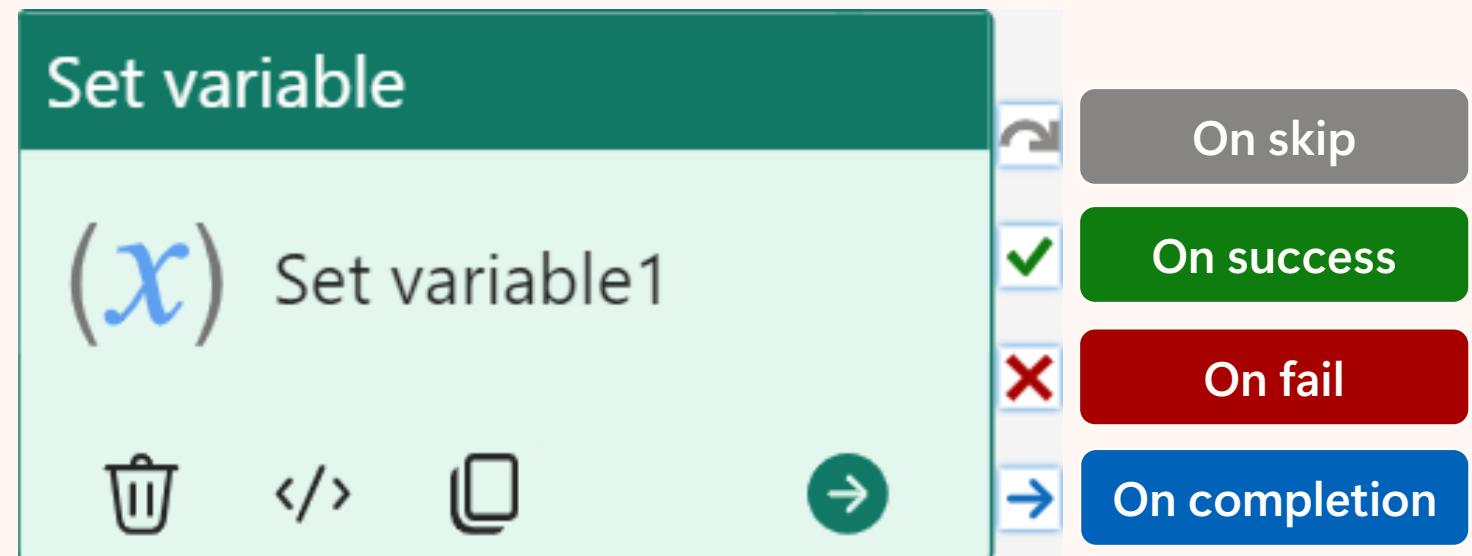


Conditional paths in Data pipelines

Enable you to build robust pipelines with **error handling and branching logic**

There are four types:

- **On Skip**
- **On success**
- **On fail**
- **On completion**

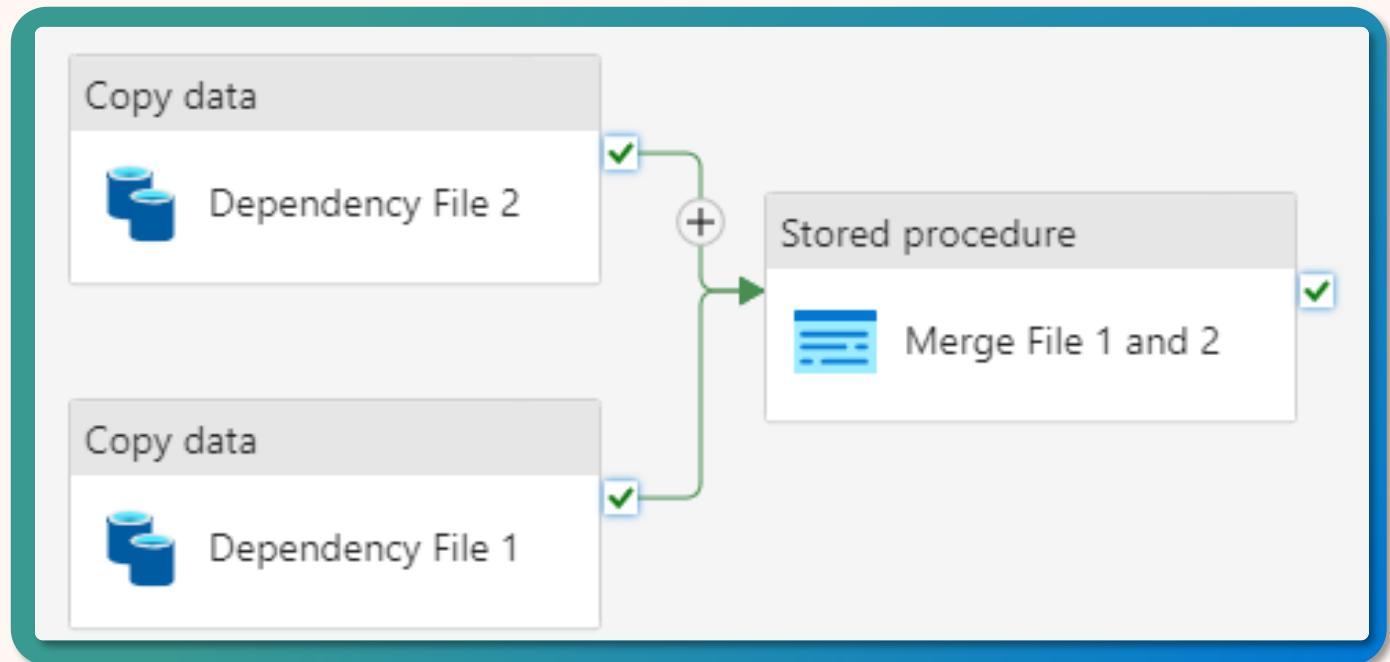




Conditional paths in Data pipelines

Define different execution paths based on the outcome of a previous activity

- **Blocking dependencies**
- Non-blocking dependencies
- Error handling



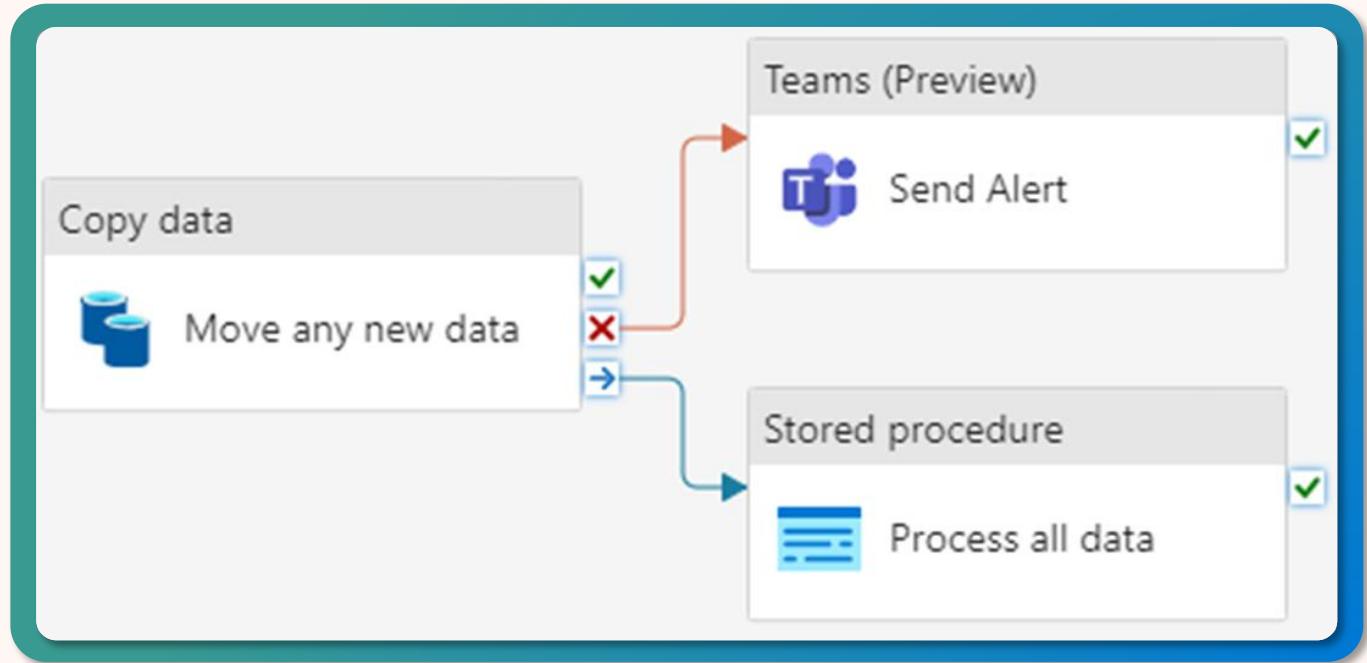
Both activities must be successful before proceeding.



Conditional paths in Data pipelines

Define different execution paths based on the outcome of a previous activity

- Blocking dependencies
- **Non-blocking dependencies**
- Error handling



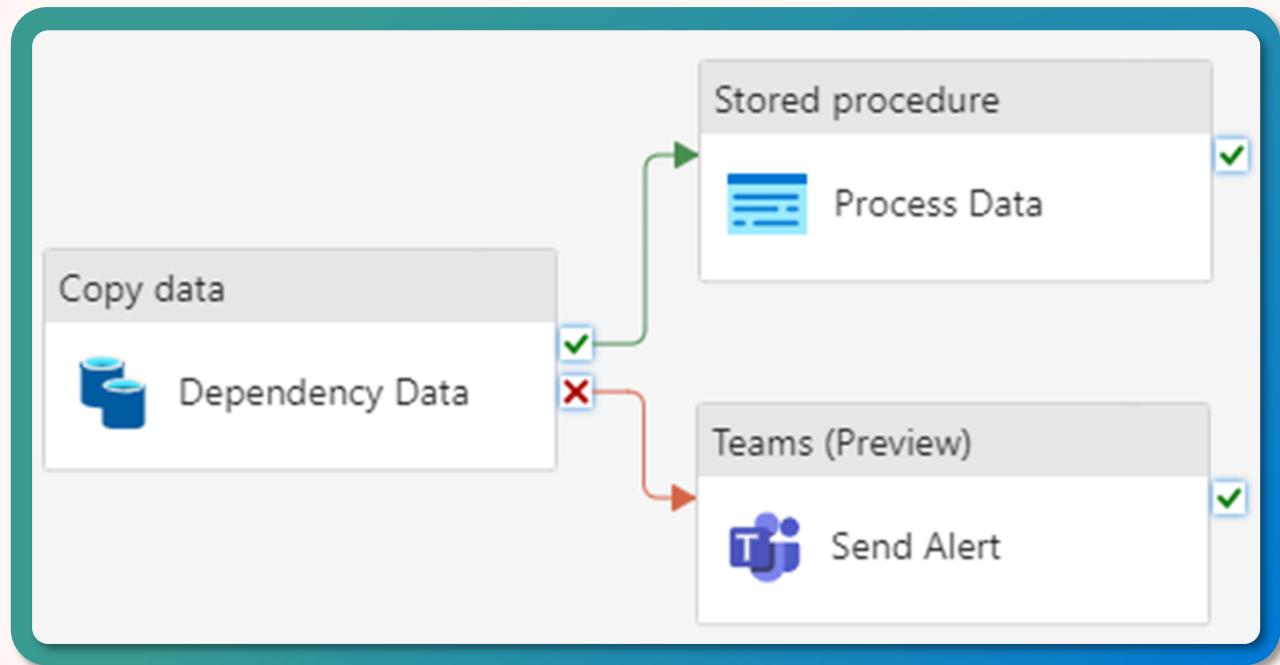
Regardless of the success or failure of an activity, the orchestrator can proceed to the next activity.



Conditional paths in Data pipelines

Define different execution paths based on the outcome of a previous activity

- Blocking dependencies
- Non-blocking dependencies
- **Error handling**



Creating a conditional path for both success and failure events.



Data pipelines in Fabric Data Factory

Troubleshooting tips

Leverage the **Output window** to find and review errors

Determine if it is an **activity error** or an **error from the source/destination**

Set a **retry attempt** for activities

The screenshot shows the Microsoft Fabric Data Factory interface. On the left is a sidebar with icons for Home, Create, Browse, OneLake data hub, Monitoring hub, Workspaces, and a workspace named 'order_bronze'. The main area has a toolbar with Home, Activities, Run, View, Validate, Cancel, Schedule, and several data management tools like Copy data, Dataflow, Notebook, Lookup, and Invoke pipeline. A modal window titled 'Copy data' is open, showing the activity 'orders_bronze' with a green checkmark. Below the modal is a table with the following data:

Name	Type	Run start	Duration	Status	Run ID
orders_bronze	Copy data	5/21/2023, 9:48:31 PM	00:00:13	In progress	56829a27-d1ce-41e4-8e78-ba92f94f1

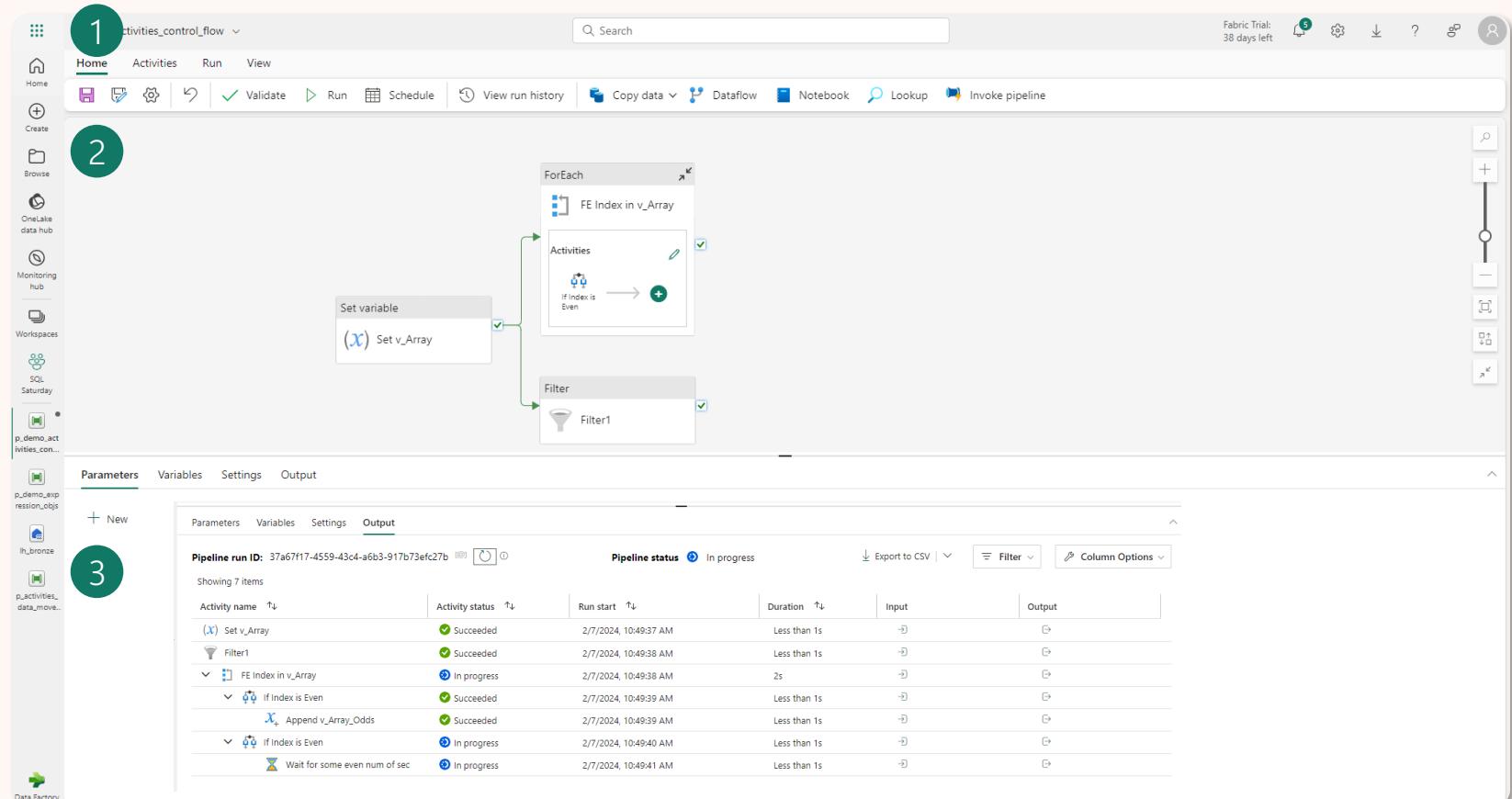


Data pipelines

Exploring data pipelines

Navigation

1. Command ribbon
2. Authoring canvas
3. Properties/output





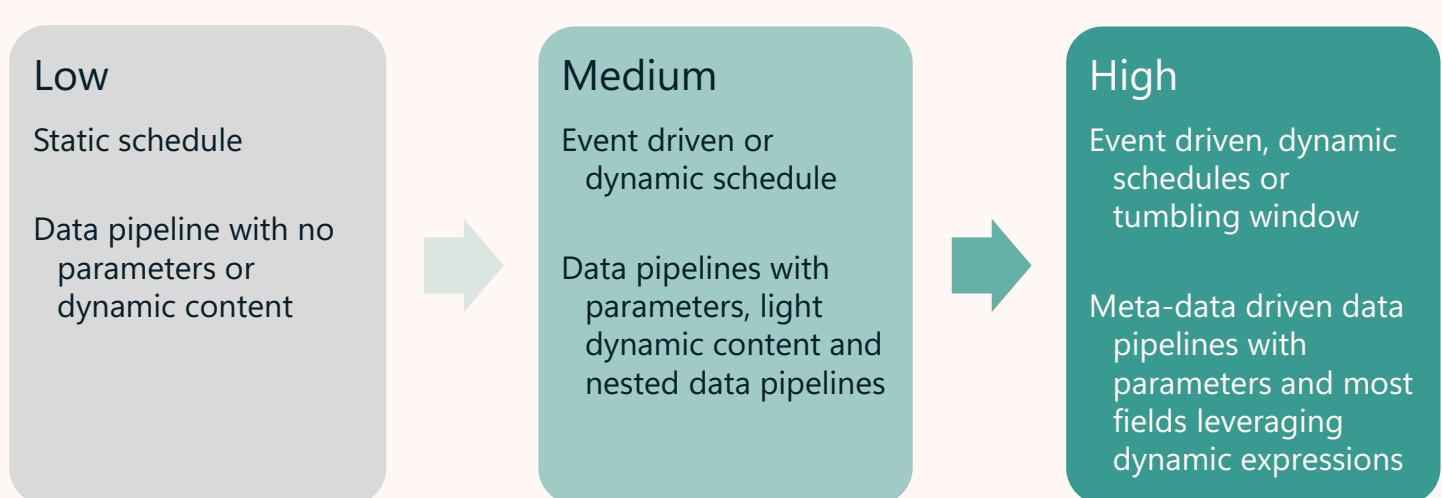
Dynamic expression driven orchestration

Build enterprise data products with a multi-layered approach

Varied Complexity: Architecture designs can range widely in complexity due to the vast array of design options.

Reusability: Design with reusability in mind, incorporating parameters and components that can be reused, such as invoking other pipelines, running dataflows, notebooks or data functions.

Dynamic Designs: Aims for designs that are fully dynamic and driven by expressions, utilizing metadata parameterization.



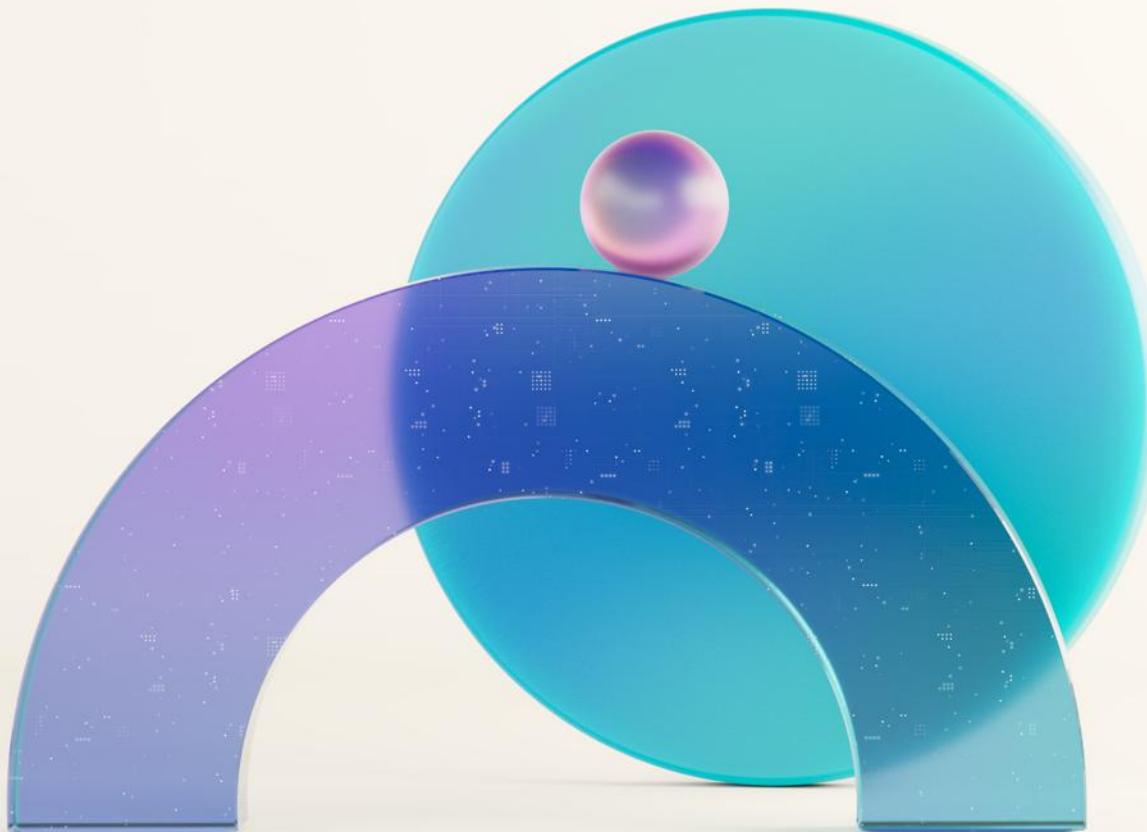
Low design time
Limited scale

Higher design time
Infinite scale

Migrate from ADF/Synapse Pipelines to Fabric Data pipelines

Feature	Fabric Data Factory	Azure Data Factory	Azure Synapse Pipelines
Office 365 Outlook Activity (Email activity)	Yes	*No	*No
MS Teams Activity	Yes	*No	*No
Refresh a Dataflow Gen2	Yes	*No	*No
Refresh a Power BI semantic model	Yes	*No	*No
Change Data Capture	Yes	Yes	No
Disable Activity	Yes	Yes	Yes
Managed Airflow	Yes	Yes (Preview)	No
Validation activity	No	Yes	Yes

* Supported by external services / REST APIs



Lab Demo: Orchestrating Data Movement

- Create a dynamic **Data pipeline** with **pipeline expression builder**
- Navigate **Copy activity** settings
- **Enrich raw data** with **variables**, **loops**, and **conditional paths**
- Utilize **AI-powered Copilot** to summarize Data pipelines
- Move data between **medallion layers** in the **task flow**

Reminder of how to access lab instructions

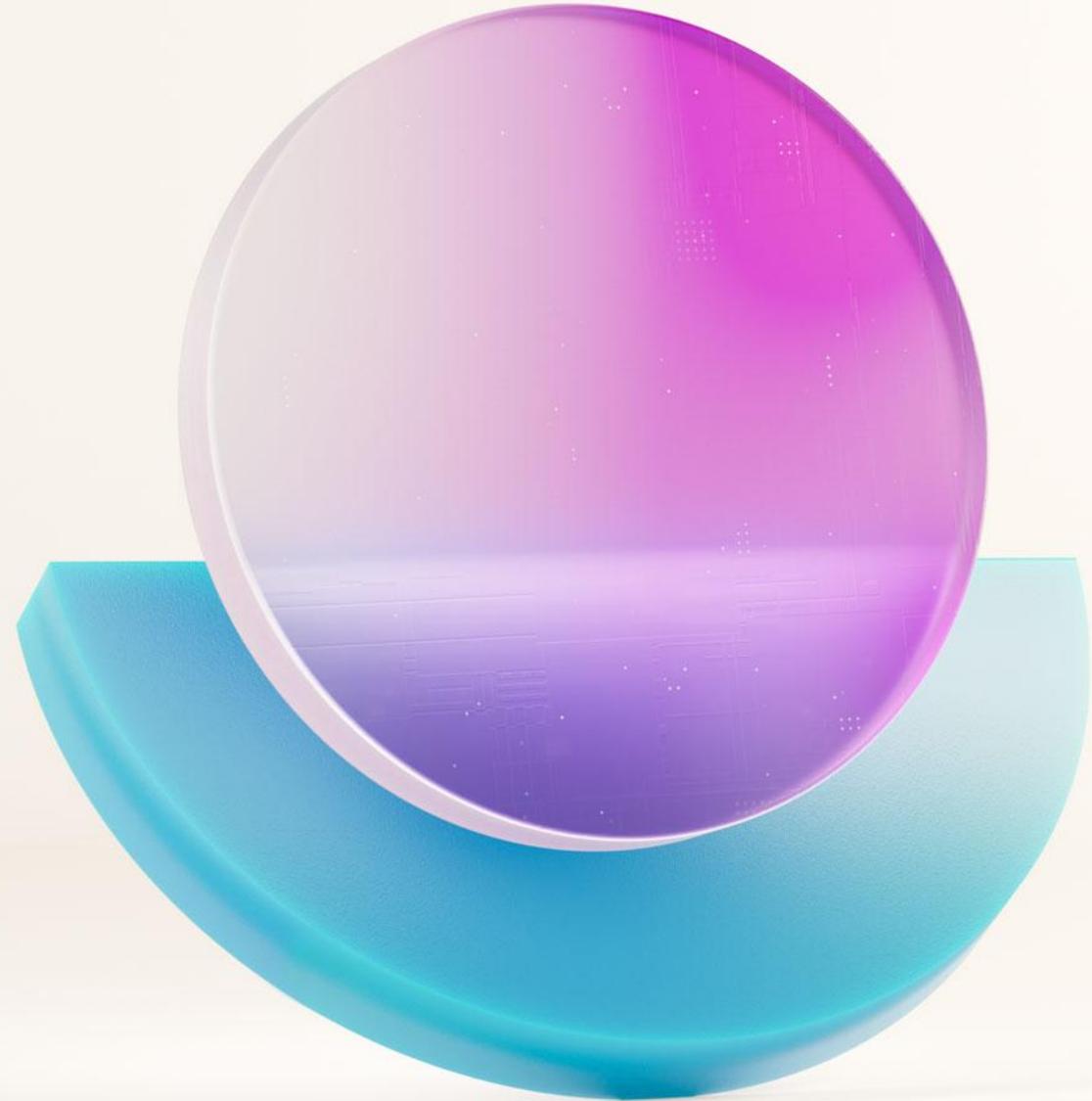
All materials are available at:

<https://aka.ms/dfiad>

Lab Instructions:

Orchestrating data movement

Microsoft Fabric
Community Conference



Questions?



Join Us : Fabric User Panel

**Let's take a short
break...**

Be back @ 1:15 PM



Influence our product roadmap and ensure
Fabric meets your real-life needs

Join us at aka.ms/FabricUserPanel
Have questions? Email us at evCLC@microsoft.com



Ingesting and transforming data with **Dataflow Gen2**



Next generation of data preparation with Dataflows Gen2 in Fabric Data Factory

Easy to use, no-code ETL & ELT

Includes **smart AI-based data prep**

More than **300+ transformations**

Output data destinations

Write output of dataflows to Azure SQL database, Data warehouse, Lakehouse and more

The screenshot shows the Microsoft Power Query Editor interface. On the left, the 'Queries [13]' pane is open, displaying a tree structure of data flows. A red arrow points to the 'DimCustomer' node under the 'Data transformation' section. The main area shows a preview of data from the 'DimCustomer' table, with columns like CustomerKey, GeographyKey, FirstName, MiddleName, LastName, BirthDate, MaritalStatus, Suffix, Title, EmailAddress, YearlyIncome, and Education. Each column has a histogram showing distribution statistics. To the right, the 'Query settings' pane is visible, showing properties for the 'DimCustomer' entity type. At the bottom, the 'Data destination' section indicates 'No data destination'.

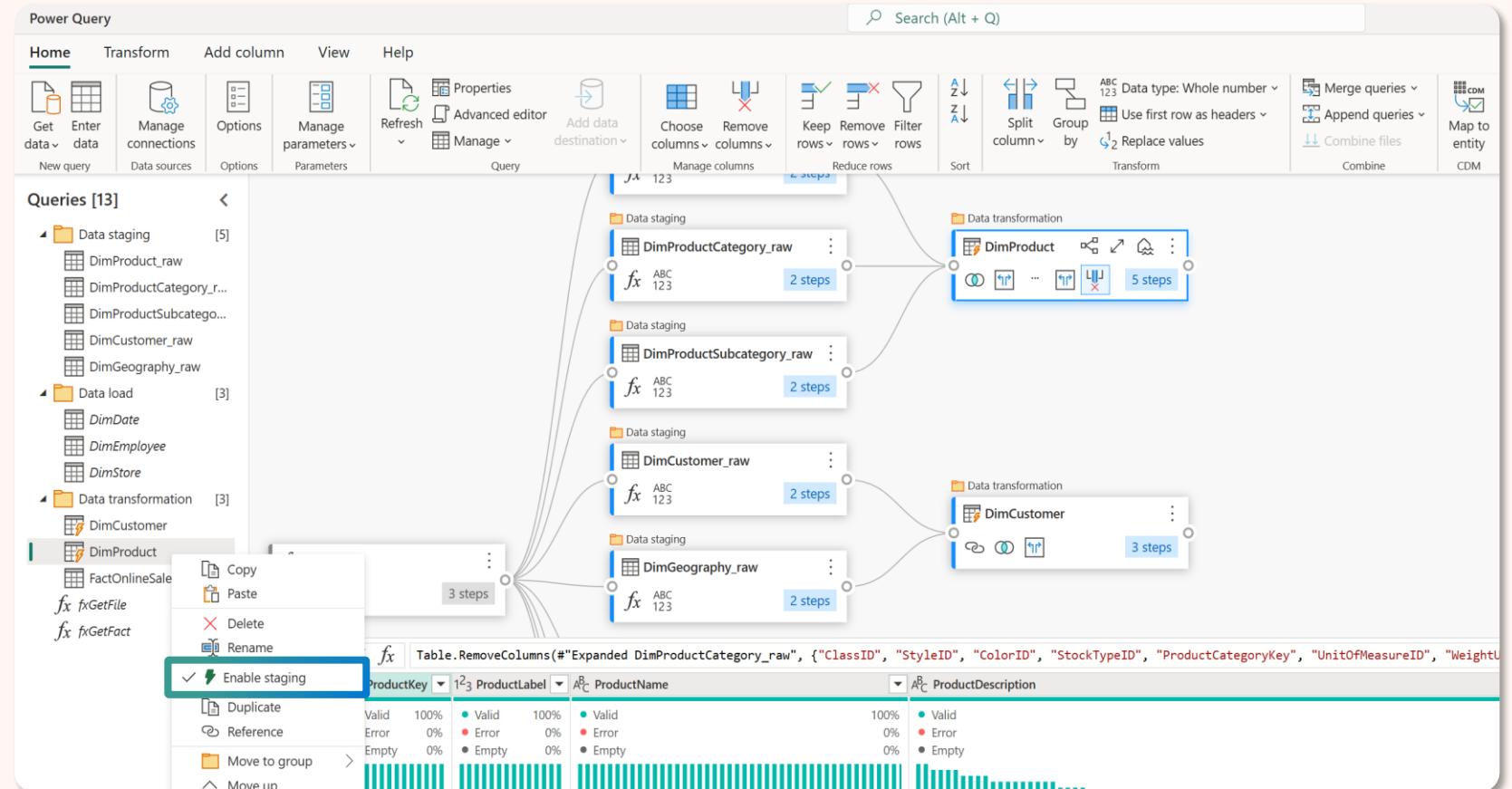


Optimized performance using Fabric compute and staging in Dataflows Gen2

Highly scalable using
Fabric compute

A **seamless experience** -
yielding fast, easy and powerful
results

Abstracts away the
complexities of traditional ETL
and ELT





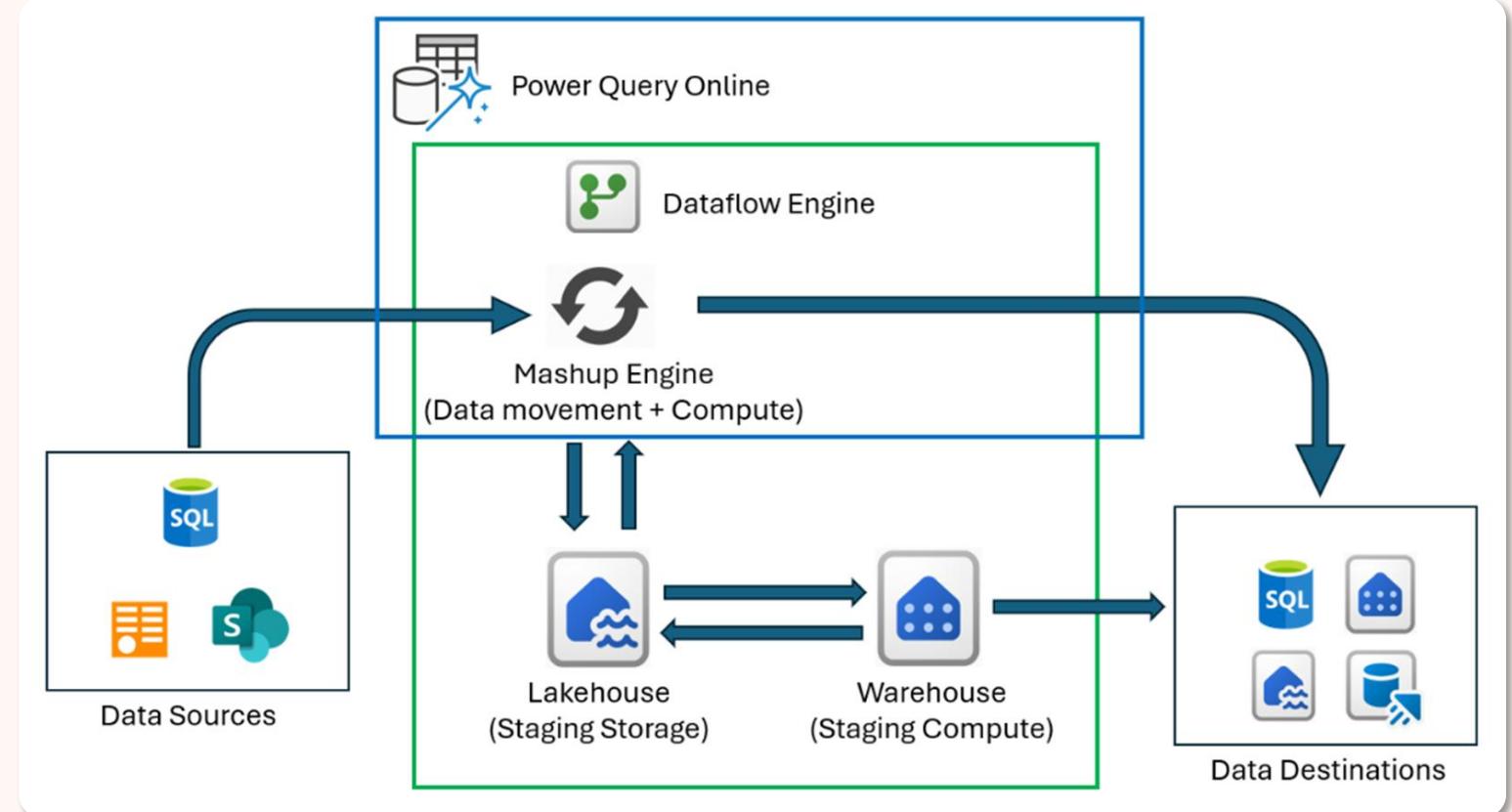
Optimized performance using Fabric compute and staging in Dataflows Gen2

Connect to your data and **copy** it
into Fabric using the ***Enable
staging** option

(*On by default)

Create a **reference** query in a new
query

Apply **transformation steps** to the
computed table for complex ETL
operations such as join, distinct,
filter and group by – leveraging
Fabric compute





High scale data movement with Fast Copy in Dataflows Gen2

General Availability

Ingest terabytes of data **effortlessly** with dataflows, powered by the scalable backend of the Copy activity

A limited set of transformations are supported:

- Combine files
- Select or remove columns
- Change data types
- Rename a column

The screenshot shows the Microsoft Dataflows Gen2 interface. On the left, a data preview window displays a grid of five columns labeled '1^2_3 r_1' through '1^2_3 r_5'. Each cell contains a large number representing data volume. A tooltip over the first column indicates it will be evaluated by the data source. Another tooltip over the second column indicates it will be evaluated with fast copy. To the right, a sidebar titled 'Applied steps' lists several transformation steps: 'Source' (Azure Data Lake Storage), 'Filtered hid...', 'Invoke cust...', 'Renamed c...', 'Removed o...', 'Expanded t...', and 'Changed c...'. The 'Changed c...' step is currently selected.

1 ² _3 r_1	1 ² _3 r_2	1 ² _3 r_3	1 ² _3 r_4	1 ² _3 r_5
27450000	3240000	26640000	22770000	2016
1080000	28800000	29070000	15210000	2547
16020000	24210000	26460000	15750000	846
2070000	24840000	12150000	3150000	1926
30870000	9720000	18270000	8010000	594
4320000	17640000	21420000	18990000	1458



Optimized performance using incremental refresh

In Dataflows Gen2

General Availability

Process only changed data since the last refresh to **save time and resources**

- Evaluate changes by comparing the maximum **DateTime** value with the previous refresh.
- Retrieve and load data for changed buckets in parallel, loaded to staging
- Replaces the destination data with the new data, affecting only updated buckets.

The screenshot shows the Power Query Editor interface with the 'Orders' table selected. A context menu is open on the table, with the 'Incremental refresh' option highlighted.

Power Query Editor (Main Window):

- Toolbar:** Home, Transform, Add column, View, Help.
- Queries [1]:** PQOrders
- Incremental refresh Dialog:**
 - Enable incremental refresh
 - Choose a DateTime column to filter by *
ReportDate
 - Extract data from the past *
6 Years
 - Bucket size *
Quarter
 - Only extract new data when the maximum value in this column changes *
ChangeDate
 - Only extract data for concluded periods
 - [Advanced options](#)
- Buttons:** OK, Cancel

Context Menu (Orders Table):

- Copy
- Paste
- Delete
- Rename
- Enable staging
- Incremental refresh** (highlighted)
- Duplicate
- Reference
- Move to group >
- Move up
- Move down
- Create function...
- Convert to parameter
- Advanced editor
- Properties...

Table Preview:

ID	MAU	ChangeDate
14	74	1/2/2024, 12:00:00 AM
14	53	2/16/2024, 12:00:00 AM
35	2/6/2024, 12:00:00 AM	
39	2/26/2024, 12:00:00 AM	
41	2/26/2024, 12:00:00 AM	
40	2/29/2024, 12:00:00 AM	
24	2/27/2024, 12:00:00 AM	
27	1/30/2024, 12:00:00 AM	
49	12/28/2023, 12:00:00 AM	



Data destinations in Dataflows Gen2

Land your data into a destination for further analysis and reporting

Supported destinations:

- Lakehouse
- Warehouse
- Eventhouse
- SQL database in Fabric
- Azure SQL database
- Azure Synapse Analytics
- Azure Data Explorer

Update methods:

- Replace
- Append

The screenshot shows the Microsoft Power Query interface. The top navigation bar includes Home, Transform, Add column, View, and Help. The Home tab is selected. Below the ribbon, there are several icons: Get data (orange), Enter data (grid), Manage connections (database with gear), Options (grid with gear), Manage parameters (grid with gear), Refresh (refresh arrow), Properties (document with gear), Advanced editor (code editor), and Manage (grid with gear). A search bar at the top right says "Search (Alt + Q)". On the far right, there are buttons for Choose columns, Remove columns, Keep rows, Remove rows, Filter rows, and Reduce rows. A dropdown menu titled "Add data destination" is open, listing supported destinations: Azure SQL database, Lakehouse, Azure Data Explorer (Kusto), Azure Synapse Analytics (SQL DW), and Warehouse. In the main workspace, under the "Queries [1]" section, there is a single query named "Query". This query has a "Source" step connected to a "Changed column..." step, which contains the text "ABC 123". At the bottom of the screen, there are two panels: "Update method" (with options for Existing data, New data, Append, and Replace) and "Schema options on publish" (with options for Existing schema, Dynamic schema, and Fixed schema).



Dataflows Gen2 in Fabric Data Factory

AI-powered Dataflows Gen2 with Copilot

Utilize the **get data** experience to ingest data into your dataflows

Transform data by using natural language to add a step to your query

Receive a **summary** of your queries in your Dataflows Gen2

The screenshot shows the Microsoft Fabric Data Factory Dataflows Gen2 interface. At the top, there's a toolbar with various icons like Group, ABC Data type: Whole number, Use first row as headers, Replace values, Merge queries, Append queries, Combine files, Map to entity, CDM, Insights, and Export template. Below the toolbar, the main area has a sidebar titled "Query settings" with sections for "Properties" (Name: DimProducts, Entity type: Custom) and "Applied steps" (Source, Expanded DimProductSubcategory, Merged queries, Expanded DimProductCategory). A large text input field in the center says "What would you like to do?". It suggests transforming data or explaining transformations. It also includes options to "Get data from...", "Add a step that...", and "Describe this query". A callout box highlights a tip: "Keep the ProductKey column and remove all other columns containing ID, Key or Label in the name." At the bottom, there's a note about AI-generated content and a "Review terms" link.

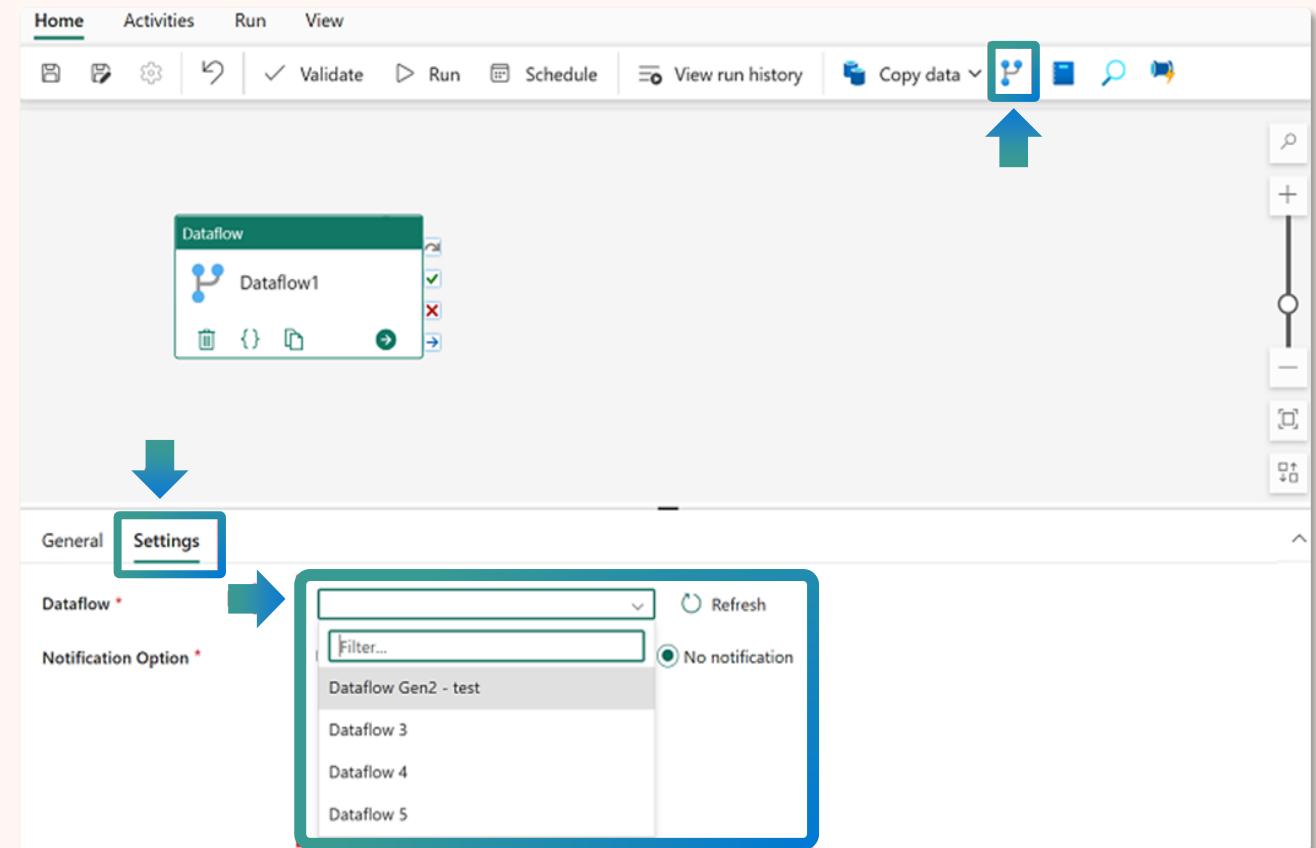


Dataflows Gen2 in Fabric Data Factory

Orchestrating Dataflows Gen2 with Data pipelines

Create a dataflow for **data ingestion and transformation**, and landing into a Lakehouse using dataflows

Then **incorporate the dataflow into a pipeline** to orchestrate additional activities



Check your knowledge | Dataflows Gen2

A single dataflow has a limit of how many queries/tables?

25

50

100



Dataflows Gen2 in Fabric Data Factory

Dataflows Gen2 scale recommendations

Update method separation

Separate **dimension** tables and **fact** tables into separate dataflows based on update method

Staging separation

Separate tables with **staging** and **without staging** into separate dataflows

Fast copy separation

Separate tables with **fast copy** support and **without fast copy** support into separate dataflows

Query folding separation

Separate tables based on the data source and if they **support query folding** or **do not support query folding**

Item distinction

Use copy job, mirroring or data pipelines to **ingest data** and dataflows to **transform**

Migrate from Power BI dataflow to Fabric dataflow gen2

Feature	Power BI Dataflow	Dataflow Gen2
Incremental refresh	Yes	YES!
Accessible file outputs	*No	Yes
Fast copy	No	Yes
Data destination output	No	Yes
Premium capacity required	No	Yes
AI Insights	Yes	*No
AutoML	Deprecated	Deprecated
Attach Common Data Model (CDM) folder	Yes	No
Linked Tables	Yes	No (use Shortcuts)
On-premises data gateway	Yes	Yes
Vnet data gateway	No	Yes

* Supported by external services / REST APIs

Upgrade Pathways for Power BI dataflows customers to Fabric



New Dataflow

Copy-Paste queries from
Dataflow Gen1 to
Dataflow Gen2

1

General Availability



Power Query Templates

Export template from an
existing dataflow, create
new dataflow from
template

2

General Availability



Save as Dataflow Gen2

Save a copy of an existing
dataflow as a Dataflow
Gen2

3

Public Preview



Dataflows Gen2

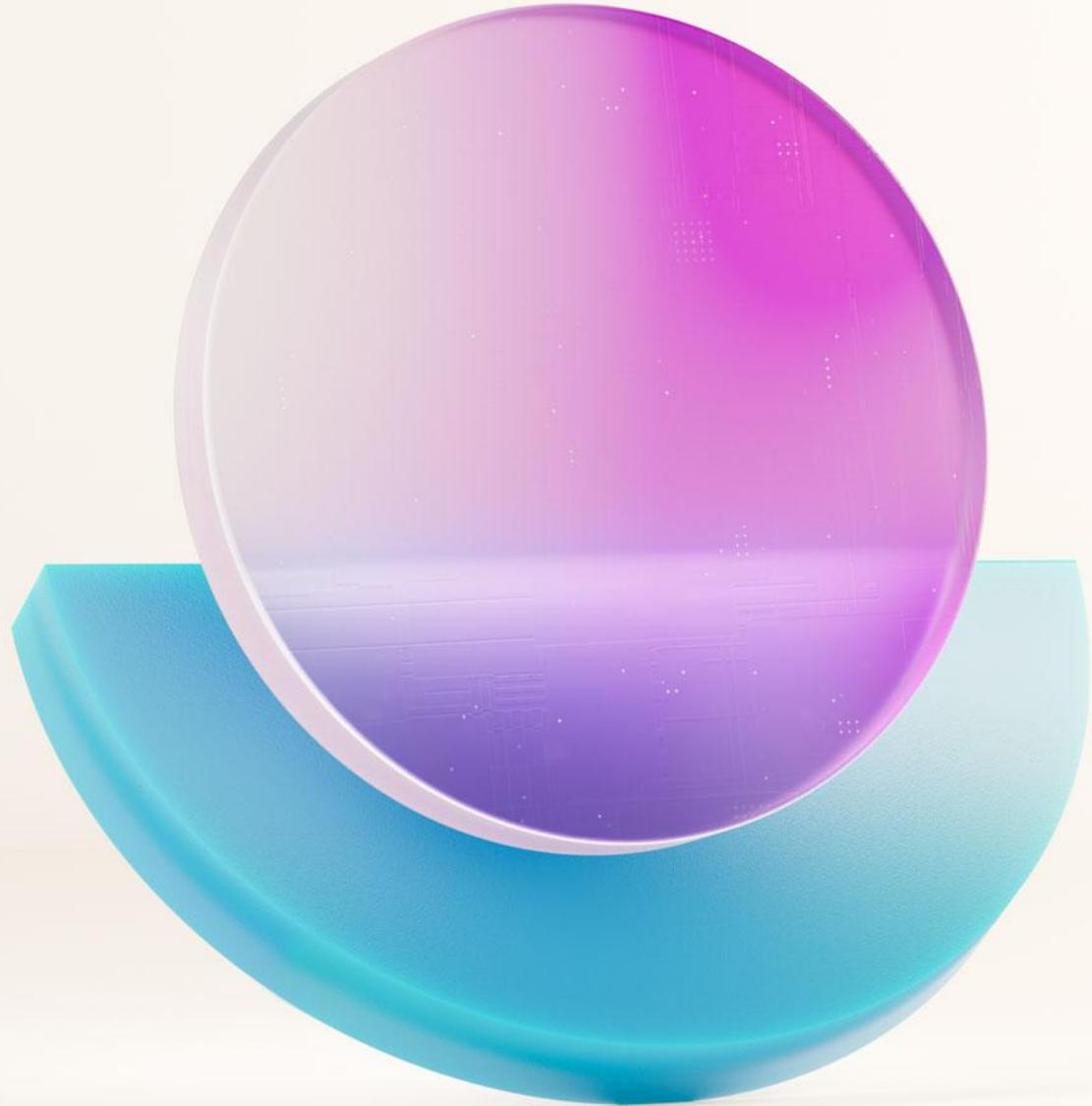
Exploring Dataflows Gen2

Navigation

1. Command ribbon
2. Queries pane
3. Visual diagram
4. Data preview grid
5. Query settings

The screenshot shows the Microsoft Power Query Editor interface with five numbered callouts highlighting specific features:

- 1. Command ribbon:** The top navigation bar with tabs like Home, Transform, Add column, View, and Help, along with various command buttons.
- 2. Queries pane:** A sidebar on the left showing a list of queries: "orders" and "orders-2".
- 3. Visual diagram:** A visual representation of the data flow between two queries, showing "orders-2" connected to "orders" with three steps.
- 4. Data preview grid:** A large grid preview of the "orders" query, showing columns like SalesOrderID, OrderDate, MonthNo, CustomerID, LineItem, ProductID, and OrderQty with 99+ rows.
- 5. Query settings:** A panel on the right containing "Properties" (Name: orders, Entity type: Custom), "Applied steps" (a list of transformations like Source, Promoted headers, and Append), and "Data destination" (set to Lakehouse).



Copying data with a Copy job item



Copy job in Fabric Data Factory

Generally Available

Ingest data from any source to any destination with Copy job

Choose your data delivery style

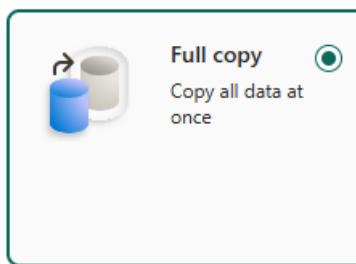
Full copy mode copies all data from the source to the destination **at once**

Incremental copy mode* copies all data in the initial job run, and subsequent job runs only copies **changes since the last run**

*Incremental copy mode is in Public Preview

Copy job mode

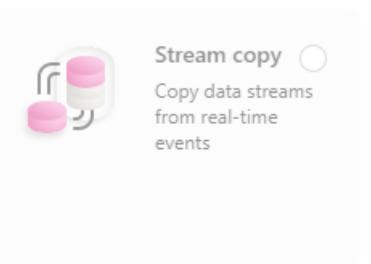
Choose how you want the data to be copied. This copy mode will be applied every time you run the job, which can be run once or multiple times. After this new copy job item is created, you can then schedule how often the job is run and monitor statuses.



Full copy
Copy all data at once



Incremental copy (Preview)
Initially copies all data, subsequent runs copy only changes



Stream copy
Copy data streams from real-time events



Copy job in Fabric Data Factory

Generally Available

Personalize your data update method

By default, Copy job **appends** data to your destination

But you can also write behavior to **overwrite**

The screenshot shows the 'Copy job' wizard interface. On the left, a vertical navigation bar lists steps: 'Choose data source' (done), 'Choose data' (done), 'Choose data destination' (done), 'Map to destination' (selected), 'Settings' (not done), and 'Review + save' (not done). The 'Map to destination' step description says: 'Select and map to folder path or table.' To the right, a modal window titled 'Map to destination' shows two options: 'Files' (radio button not selected) and 'Tables' (radio button selected). Below this, under 'Update method', there are four options: 'Existing data' (radio button not selected), 'New data' (radio button not selected), 'Append' (radio button selected), and 'Overwrite' (radio button not selected). The 'Append' option is highlighted with a green border.



Copy job

Exploring Copy job

Navigation

1. Command ribbon
2. Visual diagram
3. Copy job monitoring

Home View

1 Run Choose data source Edit mapping Advanced settings View run history

2

Source → Destination Status Rows read Rows written Duration Run start Run end

sales_table → sales_table ✓ Succeeded 32718 32718 19 sec 3/6/2025, 6:49:51 PM 3/6/2025, 6:50:10 PM

sales → sales ✓ Succeeded 32718 32718 19 sec 3/6/2025, 6:49:51 PM 3/6/2025, 6:50:10 PM

3

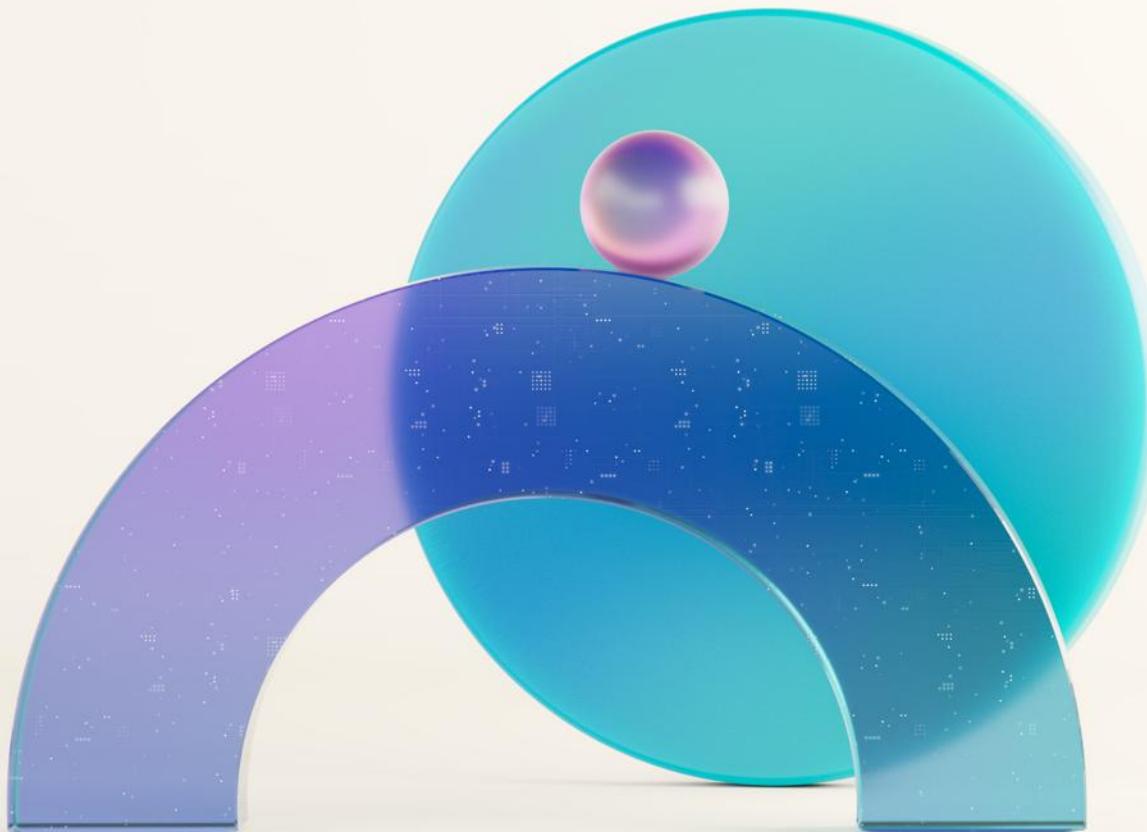
Results

Refresh Status: ✓ Succeeded Rows read: 65436 Rows written: 65436 Throughput: 87.39 KB/s More

Source → Destination Status Rows read Rows written Duration Run start Run end

sales_table → sales_table ✓ Succeeded 32718 32718 19 sec 3/6/2025, 6:49:51 PM 3/6/2025, 6:50:10 PM

sales → sales ✓ Succeeded 32718 32718 19 sec 3/6/2025, 6:49:51 PM 3/6/2025, 6:50:10 PM



Lab Demo: Transforming and copying data

- Create a **Dataflow Gen2** and prepare data using **Power Query Online**
- Utilize **AI-powered Copilot** to transform data
- **Output data** to a **Warehouse** destination
- Copy data into a Warehouse with a **Copy Job** item

Reminder of how to access lab instructions

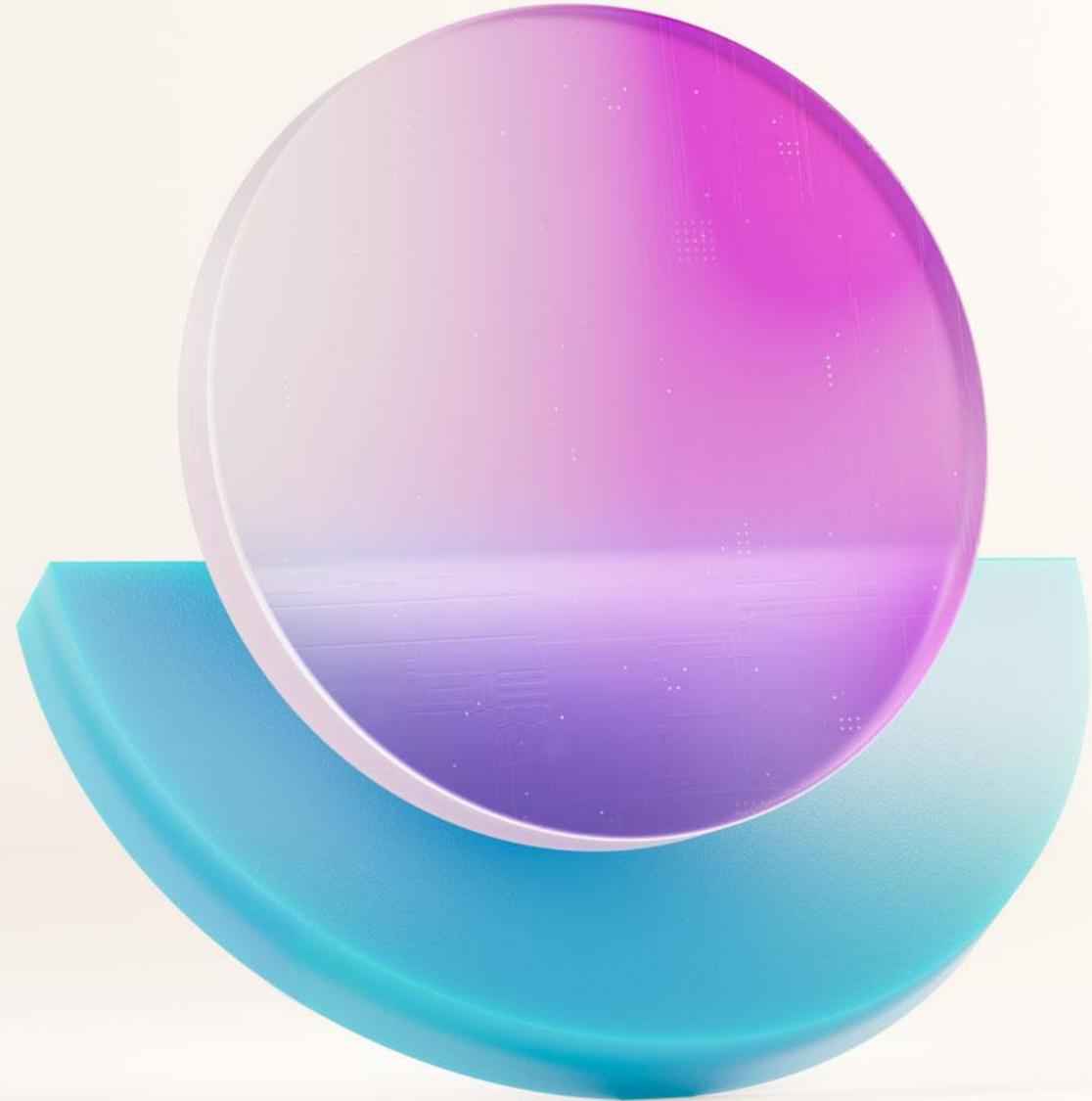
All materials are available at:

<https://aka.ms/dfiad>

Lab Instructions:

Transforming and copying data

Microsoft Fabric
Community Conference



Questions?



Join Us : Fabric User Panel

**Let's take a short
break...**

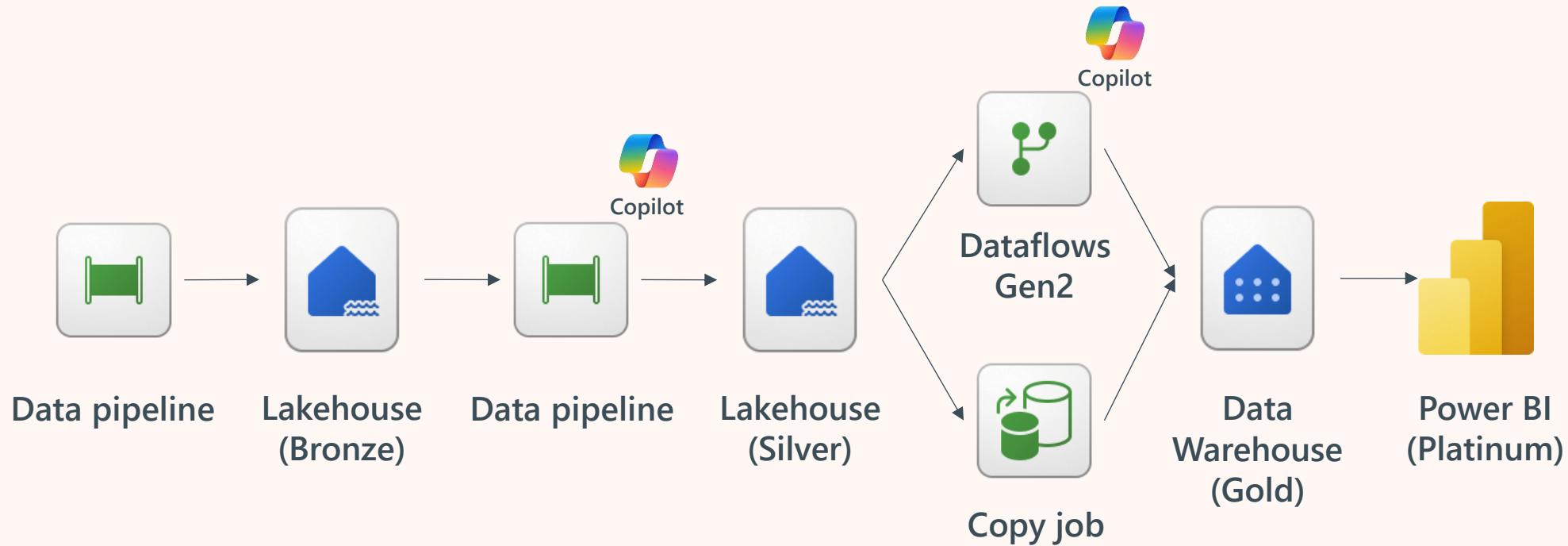
Be back @ 3:30 PM



Influence our product roadmap and ensure
Fabric meets your real-life needs

Join us at aka.ms/FabricUserPanel
Have questions? Email us at evCLC@microsoft.com

A quick recap of what you did today!



Generally Available



Copy Job + support
for additional
sources



Incremental
Refresh in
Dataflows



Apache
Airflow job



Pipeline
Triggers



Pipelines CI/CD
and Public APIs+
Dataflows CI/CD



Copilot for Data
Factory (Pipelines +
Dataflows)

Public Preview

Mirroring for SQL
Server on-prem +
Azure PostgreSQL

VNET Gateway
for Pipelines
and Database
Mirroring

Variable
Libraries

Copy job –
Public APIs

Migrate
ADF Airflow
to Fabric

Dataflow enhancements –
Save As, Multitasking,
parameterization support

Sneak Peek

Azure Key
Vault
Integration

Workspace
Identity in
Connections

Native Change
Data Capture (CDC)
within Copy Job

New output
data destination
- Sharepoint

Mirroring for
Oracle and SQL
Server 2025

Microsoft Fabric Conference US 2025



Fabric Data Factory:
What's New and Roadmap

Monday, 1:45–2:45



From Idea to Innovation,
What's Next in Data
Factory Design

Monday, 3:00 – 4:00



Getting Started with Open
Mirroring in Microsoft
Fabric Data Integration

Monday, 4:15 – 5:15



Best Practices and Design
Patterns for Fabric
Data Factory

Tuesday, 8:00 – 9:00



Performance Tuning Tips
for Fabric Data Factory

Tuesday, 9:15 – 10:15



Fabric Data Factory - Best-In
Class Connectivity with
Oracle, SAP and More to
Deliver Business Impact

Tuesday, 11:15 – 12:15



Mastering Data Movement
in Microsoft Fabric with
Batch, Real-Time Streaming,
and Mirroring

Tuesday, 1:45 – 2:45



Data Factory:
Beyond the Basics

Tuesday, 3:15 – 4:15



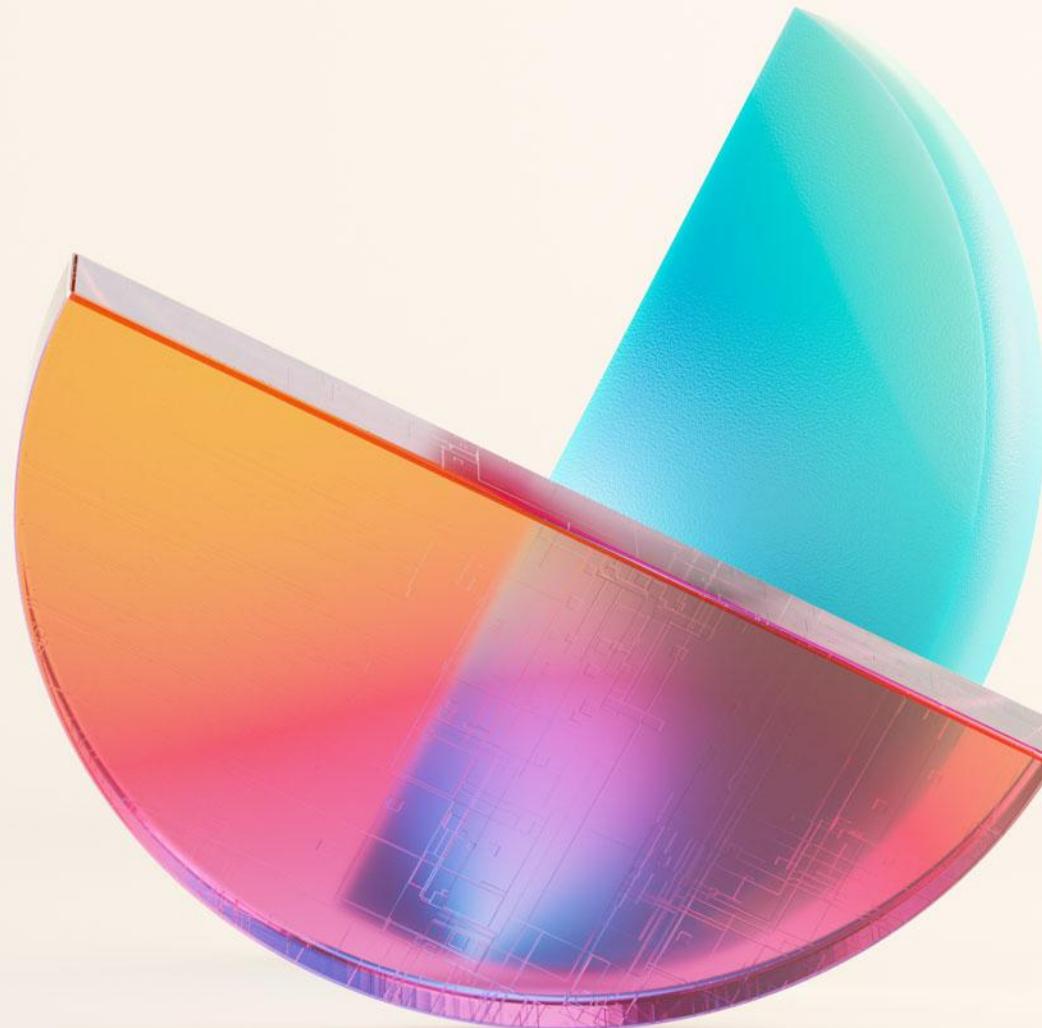
AI-powered Development
Experient with Fabric
Data Factory

Wednesday, 2:00 – 3:00



Upgrade Pathways into
Fabric Data Factory

Wednesday, 4:30 – 5:30



One last thing...
Thank you!



Microsoft Fabric

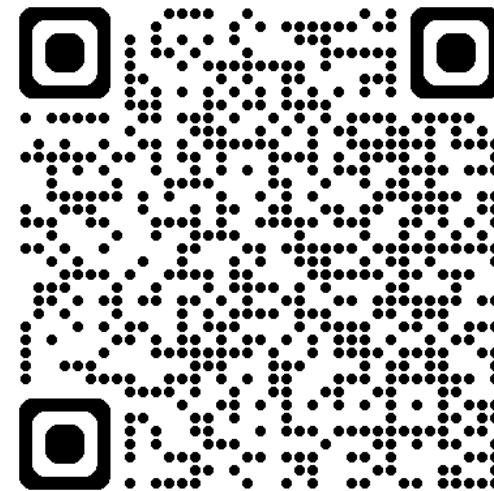
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aka.ms/try-fabric



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aka.ms/MVP

Technology experts that share their knowledge and passion with the community

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In the pursuit of making next year's Microsoft Fabric Community Conference even better, we want to hear your feedback about this session.

Here's how easy it is!

- 1 Simply go to the **Whova App** on your smartphone
- 2 Scroll down on the Microsoft Fabric Community Conference Homepage to '**Additional Resources**' to click '**Surveys**'
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- 4 Scroll down to find this session title, '**Data Factory: Learn What's New and Get from Zero to Hero in a Day**'
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