



Microsoft Fabric

Data analytics for the era of AI



Jeffrey Lai
TECHNICAL SPECIALIST

Today's Data Reality

(as of oct 2023)

The AI Technology is Here

and it is on everyone's' agenda

≡ Forbes

FORBES > INNOVATION > ENTERPRISE & CLOUD

What ChatGPT And Generative AI Mean For Your Business

CNN BUSINESS

Real estate agents say they
can't imagine working without
ChatGPT now

VentureBeat

Microsoft gives businesses a GPT boost in Teams and Viva Sales

CNN BUSINESS

Microsoft is bringing ChatGPT technology
to Word, Excel and Outlook

USA
TODAY

New Bing with ChatGPT brings the
power of AI to Microsoft's signature
search engine

COMPUTERWORLD UNITED STATES ▾

NEWS

Microsoft's new Teams Premium tier
integrates with OpenAI's GPT-3.5

Weeks after extending its multibillion dollar
partnership with OpenAI, Microsoft has announced
that new Teams AI capabilities will be underpinned by
OpenAI's GPT-3.5 natural language model.

theVerge

Menu +

MICROSOFT / TECH / ARTIFICIAL INTELLIGENCE

Microsoft launches Azure OpenAI
service with ChatGPT coming soon /
ChatGPT is coming to this Azure service
soon, as businesses get to use new AI
models in their own apps.



The Verge

+

Follow

View Profile

ChatGPT is now available in Microsoft's Azure
OpenAI service

≡ Forbes

FORBES > INNOVATION > ENTERPRISE TECH

The Amazing Ways
Expedia Is Using
ChatGPT To Simplify
Travel Arrangements

≡ Forbes

FORBES > INNOVATION > ENTERPRISE & CLOUD

44% of Octopus Energy
customer service emails
are now answered by AI

≡ Forbes

FORBES > INNOVATION > ENTERPRISE TECH

EDITORS' PICK

The Amazing Ways Duolingo
Is Using AI And GPT-4

FORBES > INNOVATION > AI

Snapchat Expands 'My
AI' Availability, Adds
New Features

AI is causing a massive platform shift

≡ Forbes

FORBES > LIFESTYLE > TRAVEL

Flight Booking Platform
Using AI To Make Travel
Less Miserable

FORBES > INNOVATION > ENTERPRISE TECH

Microsoft's Plan To Infuse AI
And ChatGPT Into Everything

≡ Forbes

FORBES > INNOVATION > ENTERPRISE & CLOUD

Udacity used GPT-4 to create
a virtual tutor to provide
personalized guidance

≡ Forb

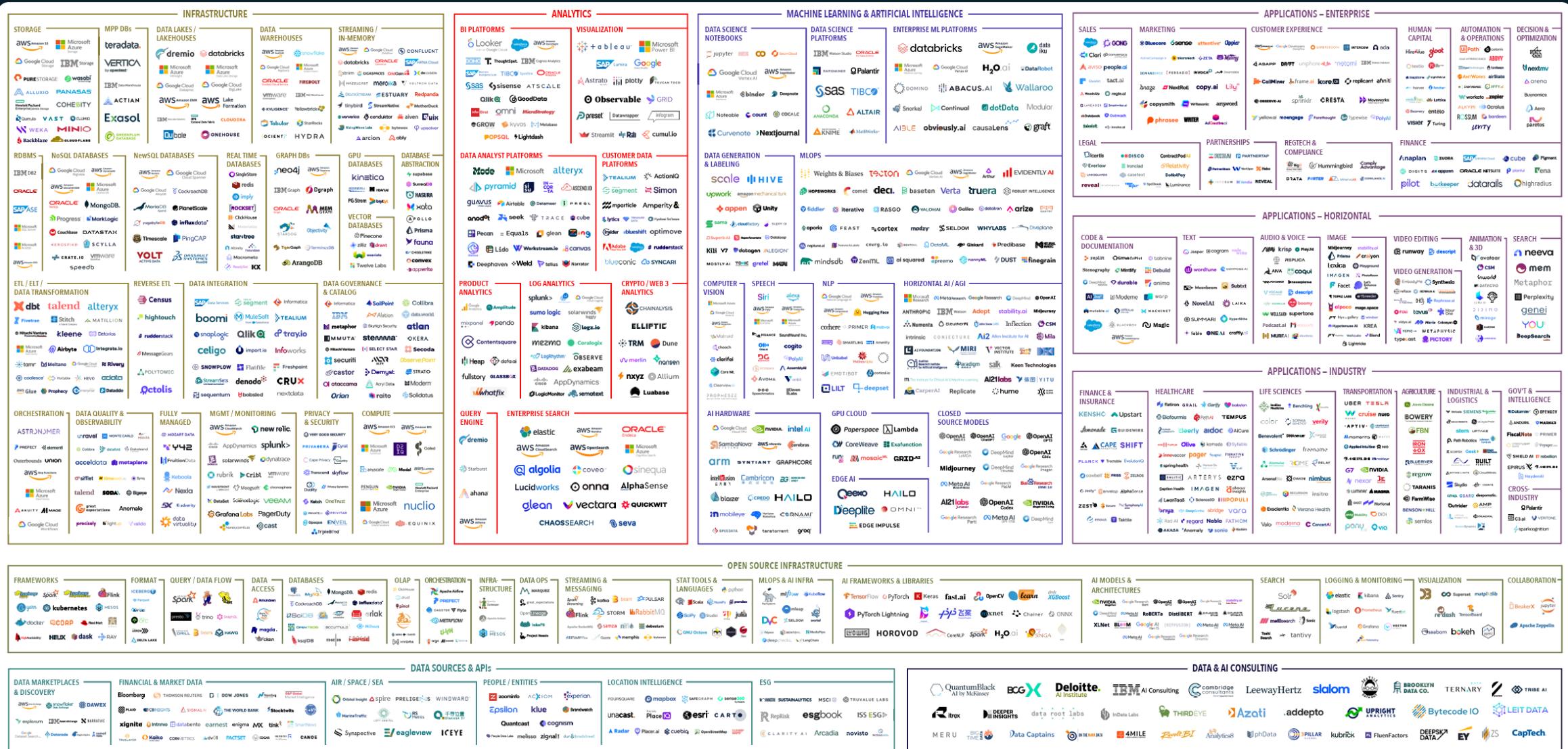
FORBES > INNO

The Amazing Ways
Coca-Cola Uses
Generative AI In Art
And Advertising

CIOs are scrambling to bring
AI to their data estate

But AI is only as good as
your data

The 2023 ML, AI, and Data Landscape

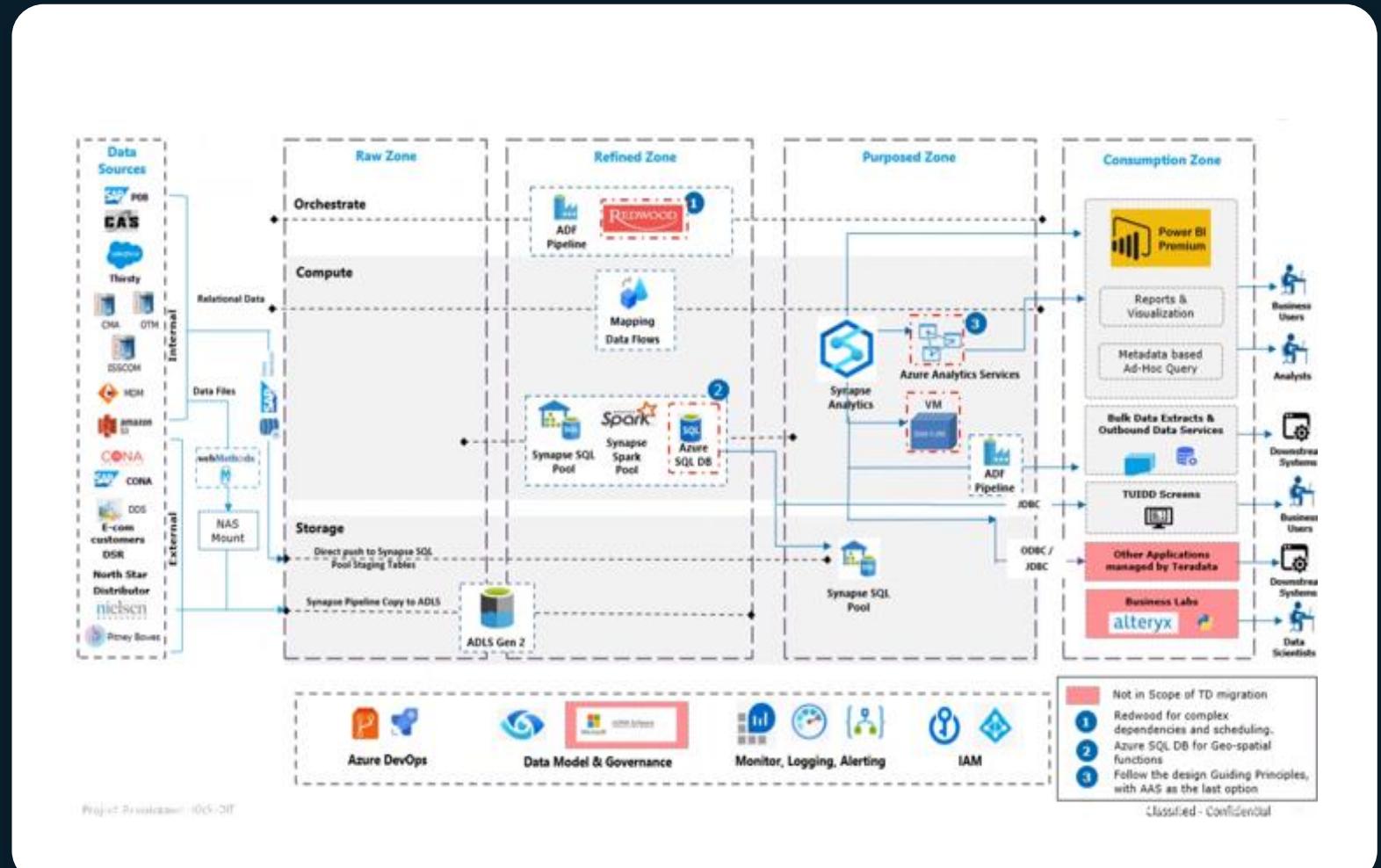


Needing to manually integrate across the stack

Integration is complex,
fragile and expensive

Products often comes from
multiple vendors

Data locked behind
proprietary data formats

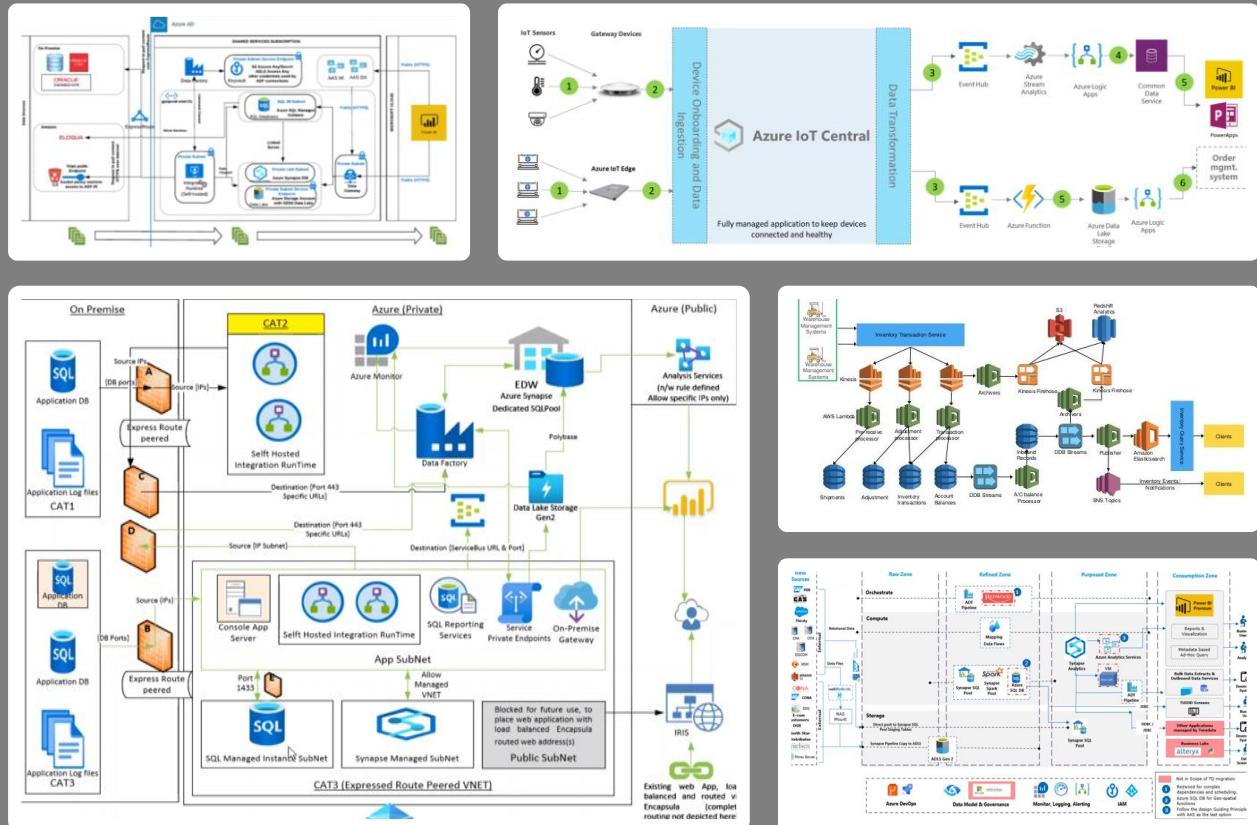


With siloes created everywhere

Exploring and integrating new services is not a scalable effort

Hinders our ability to innovate and adapt quickly to market trends

This chaotic complexity imperils the transition to the age of AI



Reimagining the Microsoft Analytics Portfolio



Data Factory



Synapse DW



Purview



Event Hub



Data Explorer



Azure AI



Power BI



Synapse Spark



Azure Databricks

Public Preview May 2023



Microsoft Fabric

Data analytics for the era of AI



Microsoft Fabric

Data analytics for the era of AI

Complete Analytics Platform



Microsoft Fabric

Data analytics for the era of AI

Complete
Analytics
Platform

Lake Centric
and Open



Microsoft Fabric

Data analytics for the era of AI

Complete
Analytics
Platform

Lake Centric
and Open

Empower Every
Business User



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Analytics
Platform

Lake Centric
and Open

Empower Every
Business User

AI
Powered



Microsoft Fabric

Data analytics for the era of AI



Data
Factory



Synapse Data
Engineering



Synapse Data
Science



Synapse Data
Warehouse



Synapse Real
Time Analytics



Power BI



Data
Activator



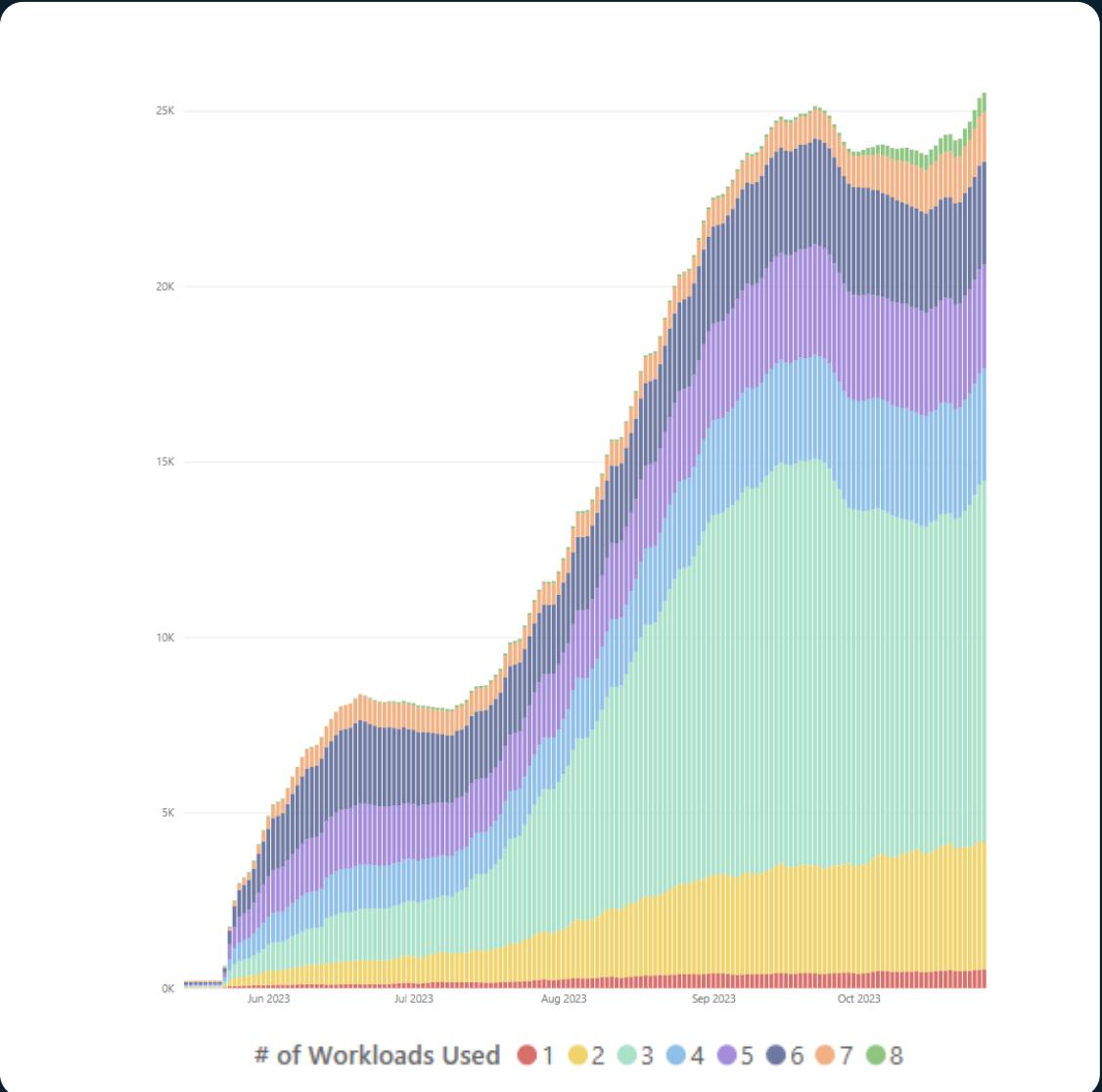
OneLake



Purview



25k+
active organizations
(TPIDs)





Customers are using Fabric end to end

3+
Workloads

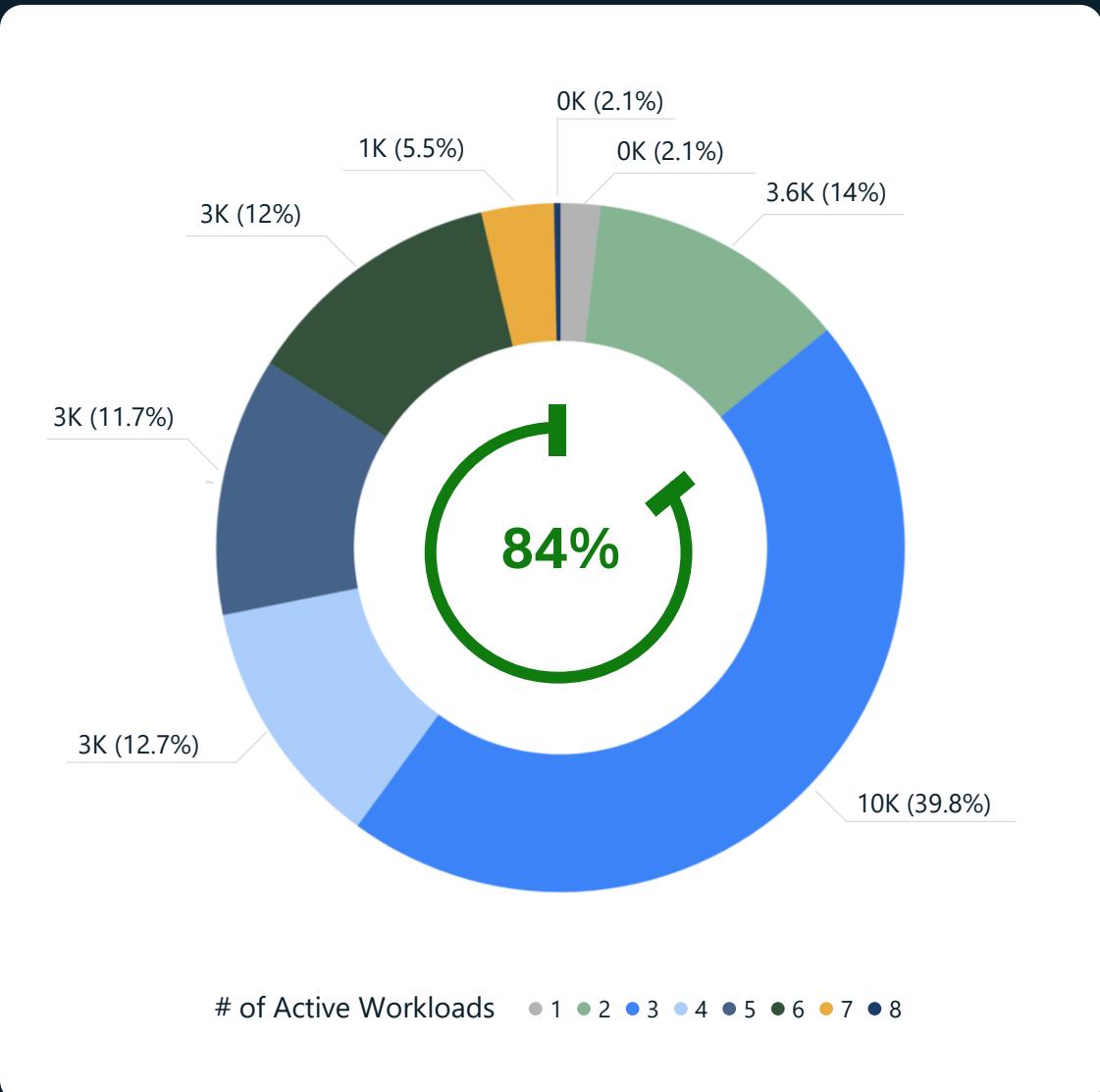


84%
of Customers

4+
Workloads



44%
of Customers



Weekly Fabric Releases

Rapid pace of innovation

Microsoft | Fabric Blog Community Support

Microsoft Fabric Blog

Aug 2023

Blog > June 2023 > Microsoft Fabric August 2023 update

Microsoft Fabric August 2023 update

Announcements Apache Spark Core Data Activator Data Factory Data Science
Data Warehouse Monthly Update Real-time Analytics Synapse

September 5, 2023 by Ryan Majidimehr [Share](#) [Tweet](#) [Like](#)

Welcome to the August 2023 update. We have lots of features this month including the new layout switcher for Power BI, SSD caching in Synapse Data Warehouse, in-line Python support for KQL in Synapse Real-time Analytics, lookup activity for Data Factory Dataflows, and much more. Continue reading for more details on our new features!



FABRIC MONTHLY UPDATE
AUGUST 2023

Microsoft | Fabric Blog Community Support

Microsoft Fabric Blog

Sept 2023

Blog > All > Microsoft Fabric September 2023 update

Microsoft Fabric September 2023 update

Announcements Apache Spark Community Core Data Factory Data Science
Data Warehouse Monthly Update OneLake Real-time Analytics Synapse

September 29, 2023 by Ryan Majidimehr [Share](#) [Tweet](#) [Like](#)

Welcome to the September 2023 update.

We have lots of features this month including updates to the monitoring hub, Fabric Metrics app, VS code integration for Data Engineering, Real-time data sharing and many more. Continue reading for more details on our new features!

Contents

- [Core](#)
 - [Monitoring hub – column options](#)
 - [OneLake](#)
 - [OneLake file explorer \(v.1.0.10\) – Menu Option to View Workspaces and Items Online](#)
 - [Power BI](#)
 - [General](#)
 - [Upgrade Power BI Desktop .NET Framework to 4.7.2 or newer](#)
 - [Reporting](#)

Microsoft | Fabric Updates Community Support

Microsoft Fabric Updates Blog

Oct 2023

Updates > All > Microsoft Fabric October 2023 update

Microsoft Fabric October 2023 update

Announcements Apache Spark Core Data Activator Data Factory Data Science
Data Warehouse Monthly Update Real-time Analytics Synapse

October 27, 2023 by Ryan Majidimehr [Share](#) [Tweet](#) [Like](#)

Microsoft Fabric October 2023 update

We have a lot of features this month including updates to the Item type icons, Keyword-Based Filtering of Tenant Settings, On-object Interaction updates, Eventstream Kafka Endpoints and many more. Continue reading for more details on our new and updated features!

Core

- [Item type icons](#)

Admin

- [Keyword-Based Filtering of Tenant Settings](#)

Power BI

- [Reporting](#)
 - [Power BI Desktop OneDrive and SharePoint integration](#)

Explore the Fabric Roadmap

Rapid pace of innovation

The image displays three side-by-side screenshots of Microsoft Fabric blog posts, each with a large green circular overlay containing the URL aka.ms/FabricRoadmap.

- Jul 2023:** Microsoft Fabric Blog post titled "Microsoft Fabric July 2023 Update". It features a video thumbnail for "Fabric Monthly Update - July 2023" and a link to "Watch on YouTube".
- Aug 2023:** Microsoft Fabric Blog post titled "Microsoft Fabric August 2023 update". It features a video thumbnail for "Fabric Monthly Update - August 2023" and a link to "Watch later".
- Sep 2023:** Microsoft Fabric Blog post titled "Microsoft Fabric September 2023 update". It features a video thumbnail for "Fabric Monthly Update - September 2023" and a link to "Watch later".

aka.ms/FabricRoadmap



Microsoft Fabric

Data analytics for the era of AI

Complete Analytics Platform

Everything, unified

SaaS-ified

Secured and governed

Lake Centric and Open

OneLake

One copy

Open at every tier

Empower Every Business User

Familiar and intuitive

Built into Microsoft 365

Insight to action

AI Powered

Copilot accelerated

GPT on your data

AI-driven insights



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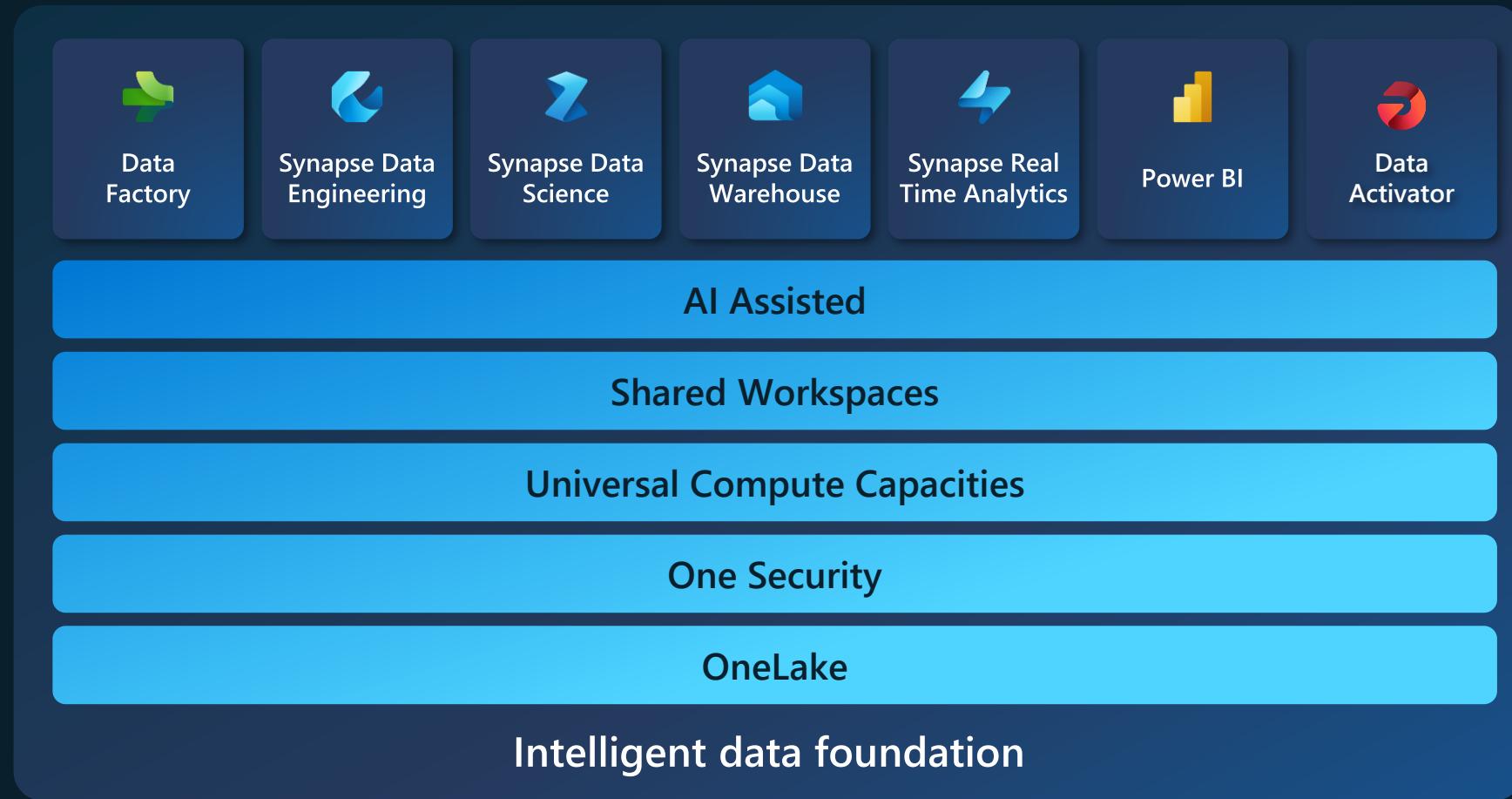
Copilot accelerated

GPT on your data

AI-driven insights



Microsoft Fabric



Single...

- Onboarding and trials
- Sign-on
- Navigation model
- UX model
- Workspace organization
- Collaboration experience
- Data Lake
- Storage format
- Data copy for all engines
- Security model
- CI/CD
- Monitoring hub
- Data Hub
- Governance & compliance

SaaS

"It just works"

5x5

Frictionless onboarding

Instant provisioning

Quick results w/ Intuitive UX

**Success
by default**

Minimal knobs

Auto optimized

Auto integrated

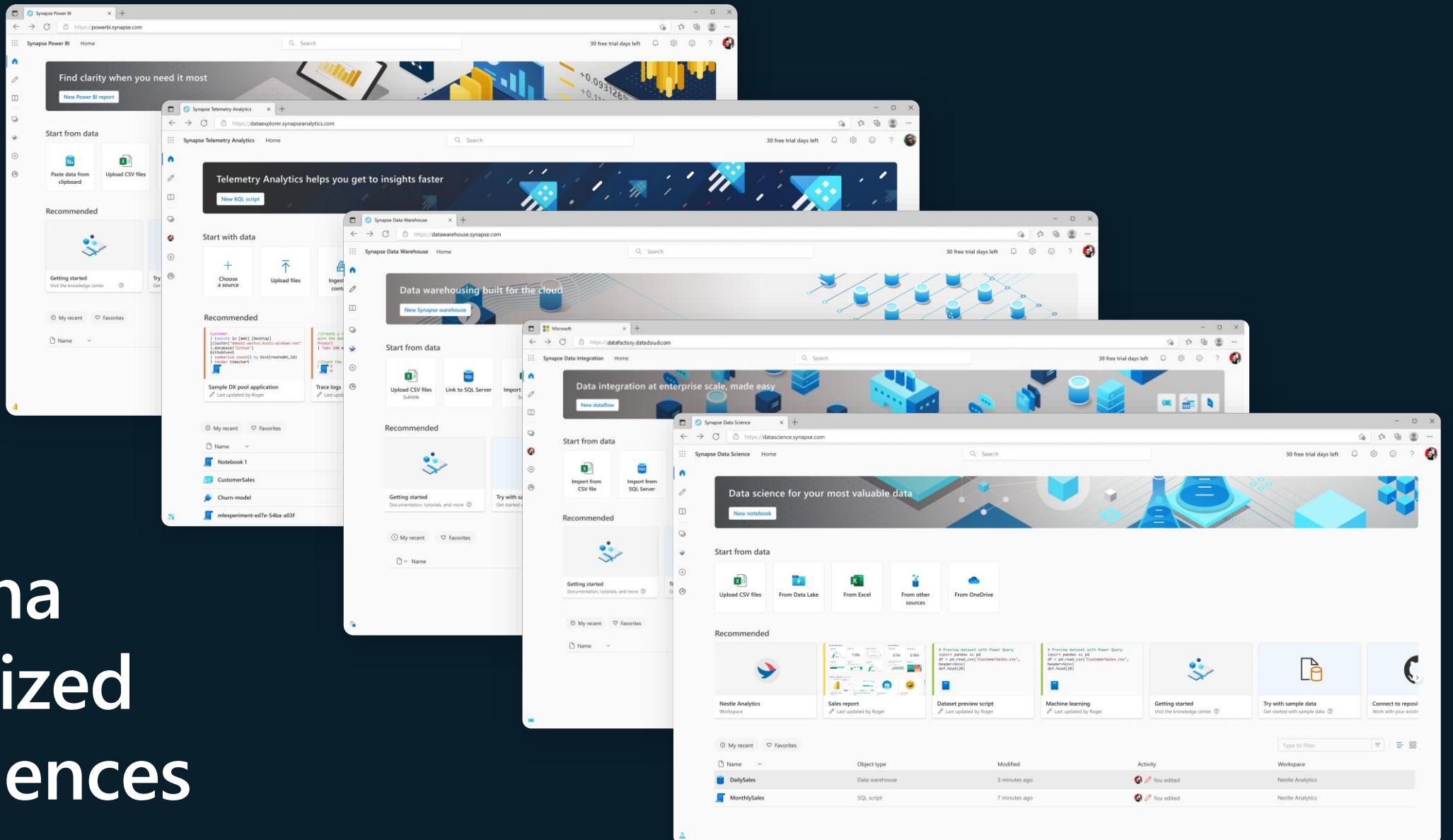
**Centralized
administration**

Tenant-wide governance

Centralized
security management

Compliance built-in

Persona optimized experiences



Good evening, Justyna

Find and share actionable insights to make data-driven decisions

+ New report



Recommended

Priya Sathy opened this



FY23 Analytics (Trident) Technical Vi...

You frequently open this



Trident DE-DS Feature Usage Report

Chris Finlan opened this



Azure SQL CAB Registration

You frequently open this



Goals usage (synapse)

Chris Finlan opened this



CAB Attendee Registration

Recent Favorites My apps

Filter by keyword

Filter

	Name	Type	Opened	Location	Endorsement	Sensitivity
	Priya_Demo_workspace	Workspace	now	Workspaces	—	—
	My workspace	Workspace	a minute ago	Workspaces	—	—
	CloudAcademy_Course_Survey	Report	an hour ago	My workspace	—	Confidential\Microsoft Extended
	FY23 Analytics (Trident) Technical Virtual Summit	Report	an hour ago	—	—	General
	Marketing_LH	Dataset (default)	2 days ago	MarketingProject	—	Confidential\Microsoft Extended
	Marketing	Report	2 days ago	MarketingWS	—	Confidential\Microsoft Extended
	customermarketing	Report	2 days ago	MarketingWS	—	Confidential\Microsoft Extended
	customermarketing	Dataset	2 days ago	MarketingWS	—	Confidential\Microsoft Extended
	Customer	Dataset	2 days ago	MarketingWS	—	Confidential\Microsoft Extended
	Marketing Analytics	Report	3 days ago	Marketing Analytics WS	—	Confidential\Microsoft Extended



Microsoft Fabric

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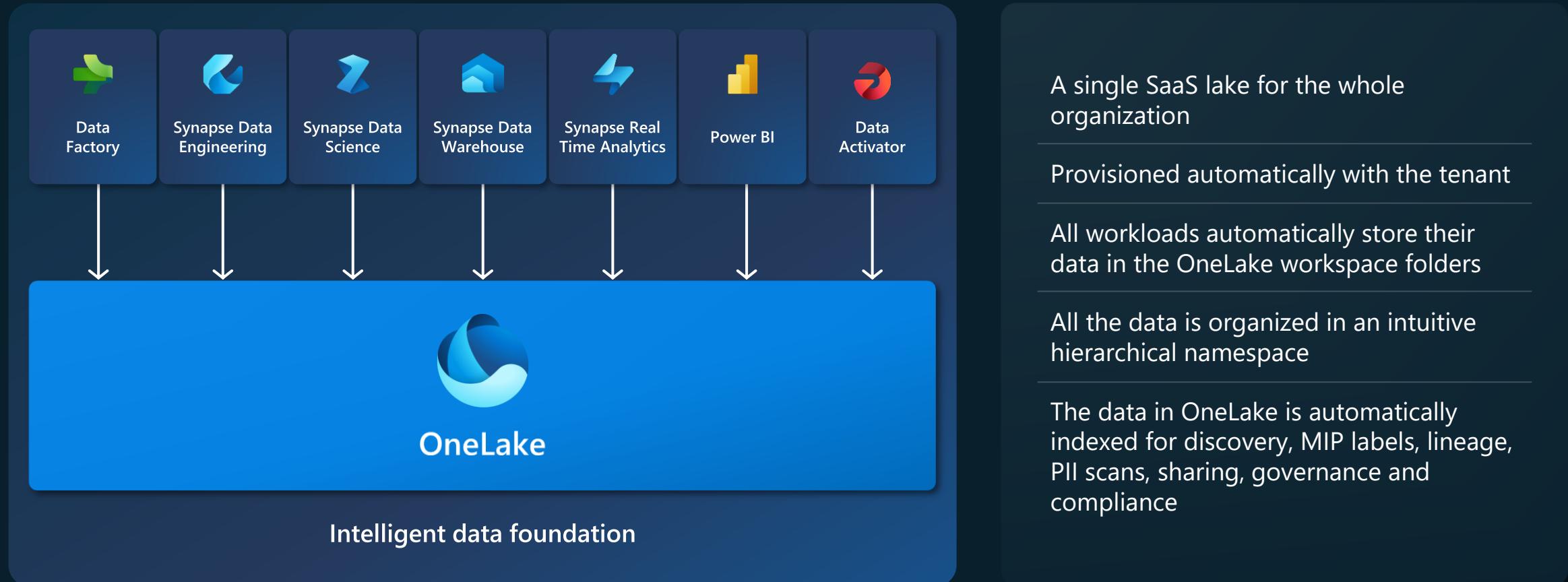
Copilot accelerated

GPT on your data

AI-driven insights

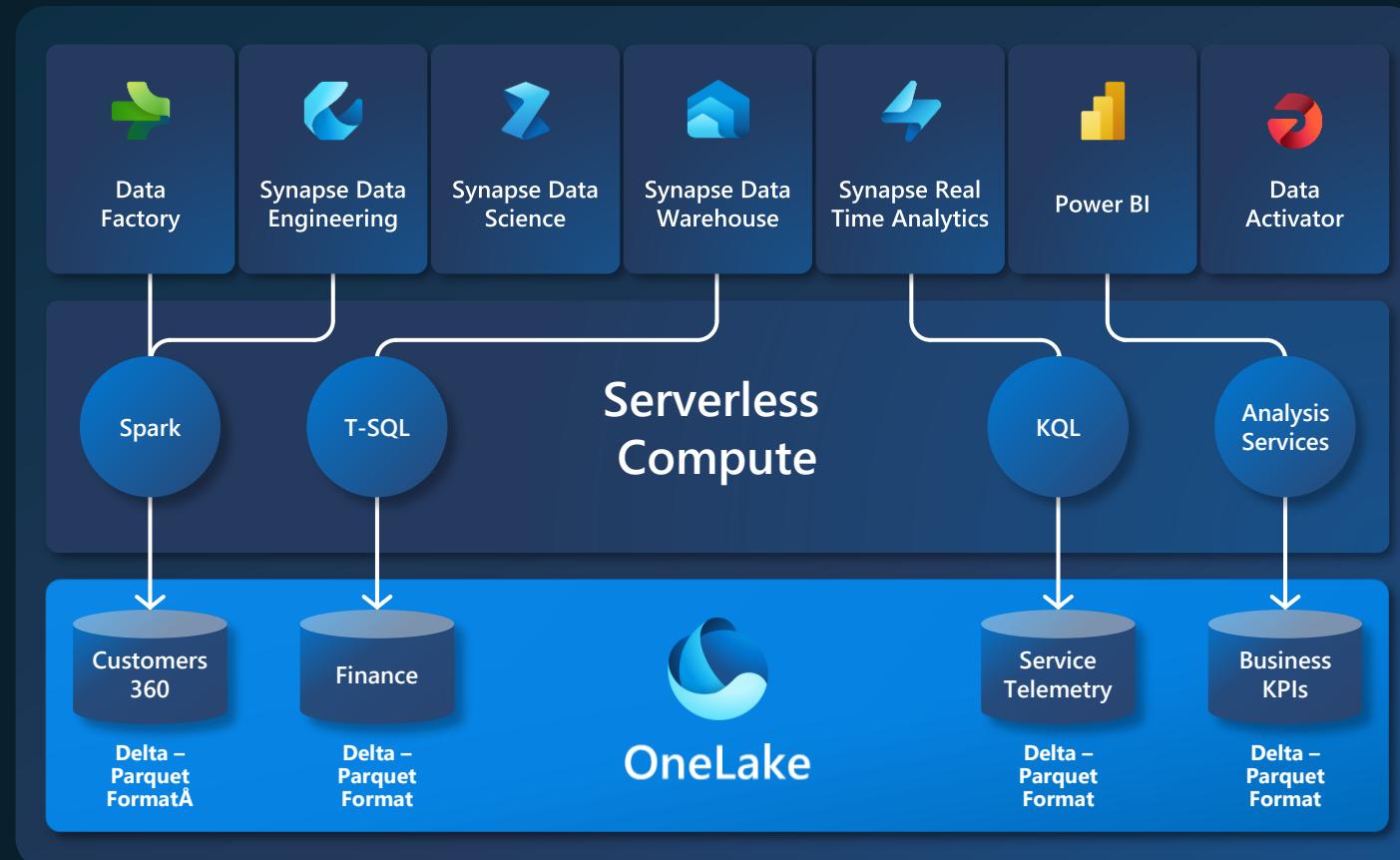
OneLake for all Data

“The OneDrive for Data”



One Copy for all computers

Real separation of compute and storage



All the compute engines store their data automatically in OneLake

The data is stored in a single common format

Delta – Parquet, an open standards format, is the storage format for all tabular data in Analytics vNext

Once data is stored in the lake, it is directly accessible by all the engines without needing any import/export

All the compute engines have been fully optimized to work with Delta Parquet as their native format

Shared universal security model is enforced across all the engines

One Copy for all computers

Universal security makes it real



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The data is stored in a single common format

Delta – Parquet, an open standards format, is the storage format for all tabular data in Analytics vNext

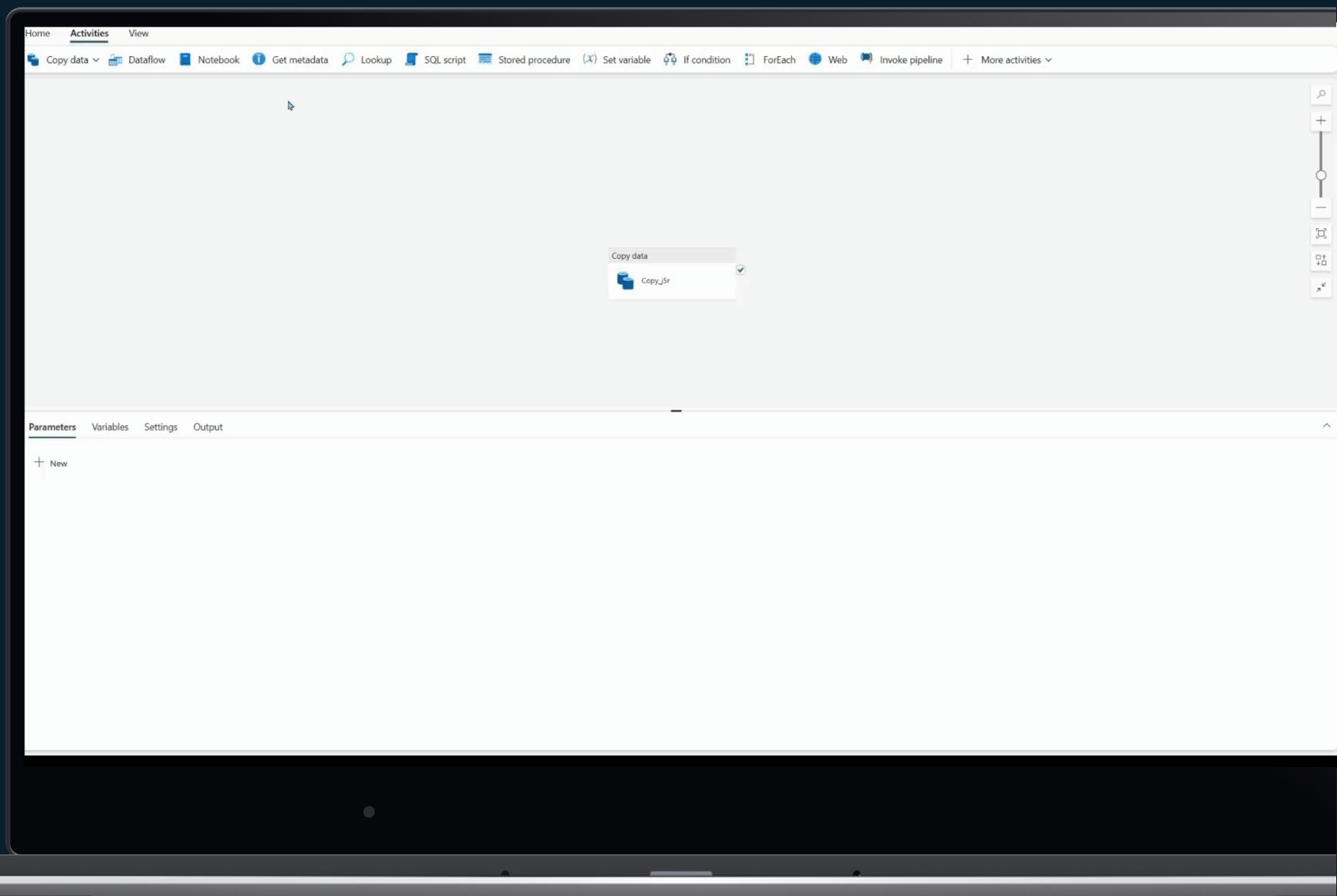
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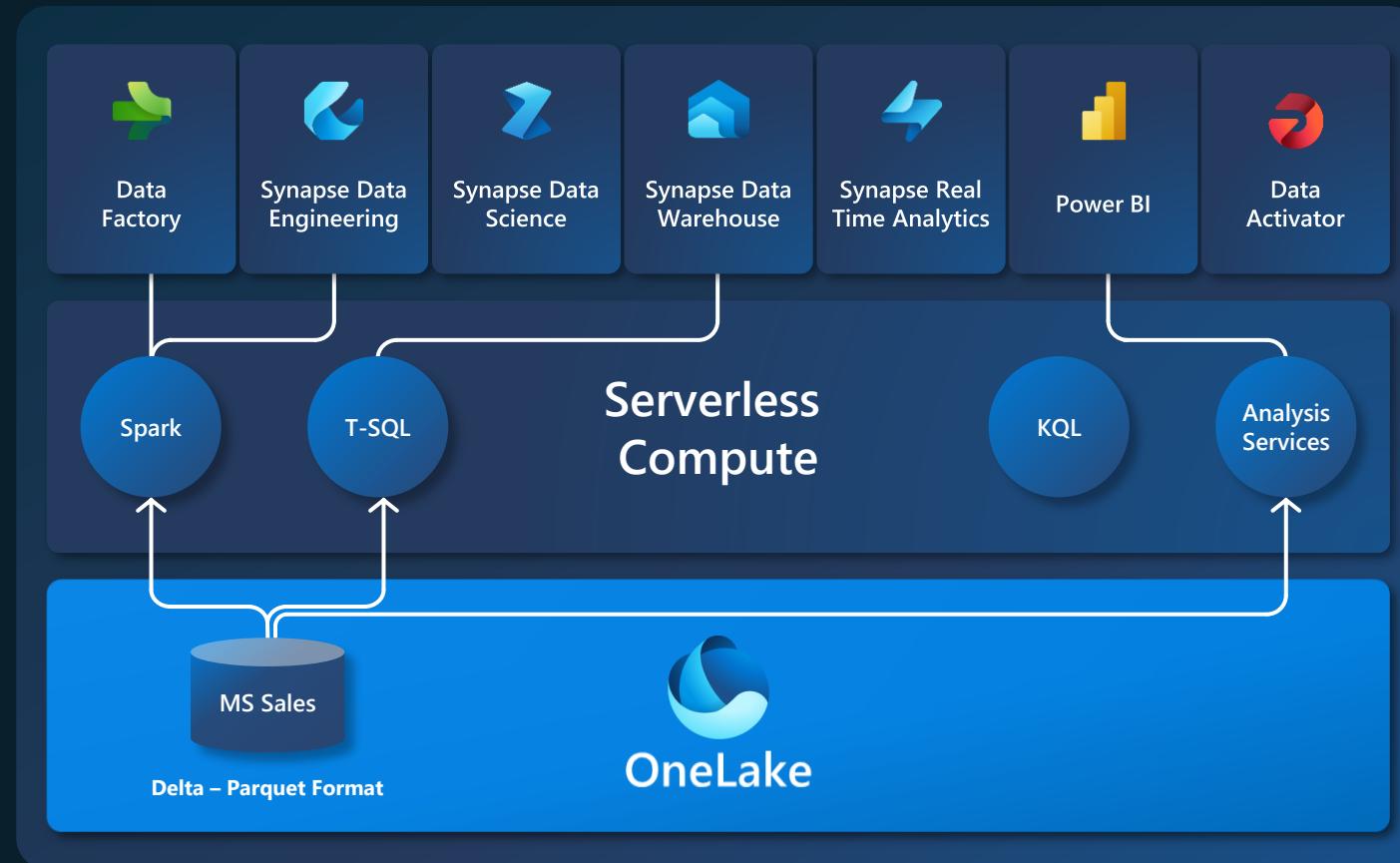
Loading full MS Sales to Fabric

15 minutes
to load 20 TB



One Copy for all computers

Using the Lakehouse



Home

Get data New Power BI dataset Open notebook

Lakehouse

Explorer

MSSalesLH

Tables

> DistributionChannel

> FiscalCalendar

> Geography

> ManagementReporting

> ProductMasterFamily

> ReportedSubsegmentDefinition

> Revenue

> RevSumHierarchy

> Segment

Files

> MSSalesRaw

> Revenue

Revenue

	FTxlatOrgId	CTxlatOrgId	TRCredited...	BillingCurr...	ProductId	DataSource...	Manageme...	RecordTyp...	BillingMon...	ActualQua...	ActualLice...	Secondary...	Legacy
1	3257564	128780890	1	15	2661545	982	4307622	3	10241	0	0	0	0
2	3257564	128780890	1	15	2661700	982	4307622	3	10241	0	0	0	0
3	3257564	128780890	1	15	10178506	982	4307622	3	10241	0	0	0	0
4	3257564	128780890	1	15	10224223	982	4307622	3	10241	0	0	0	0
5	3257564	128780890	1	15	2649901	982	4307622	3	10241	0	0	0	0
6	3257564	128780890	1	15	2650197	982	4307622	3	10241	0	0	0	0
7	3257564	128780890	1	15	10216572	982	4307622	3	10241	0	0	0	0
8	3257564	128780890	1	15	10216539	982	4307622	3	10241	0	0	0	0
9	3257564	128780890	1	15	2662213	982	4307622	3	10241	0	0	0	0
10	3257564	128780890	1	15	10216766	982	4307622	3	10241	0	0	0	0
11	3257564	128780890	1	15	2661343	982	4307622	3	10241	0	0	0	0
12	3257564	128780890	1	15	10216635	982	4307622	3	10241	0	0	0	0
13	3257564	128780890	1	15	10216552	982	4307622	3	10241	0	0	0	0
14	3257564	128780890	1	15	2661739	982	4307622	3	10241	0	0	0	0
15	3257564	128780890	1	15	2670046	982	4307622	3	10241	0	0	0	0

Taking One Copy to the Next Level

Unifying data in OneLake - Shortcuts



Sharing data in OneLake is as easy as sharing files in OneDrive, removing the needs for data duplication

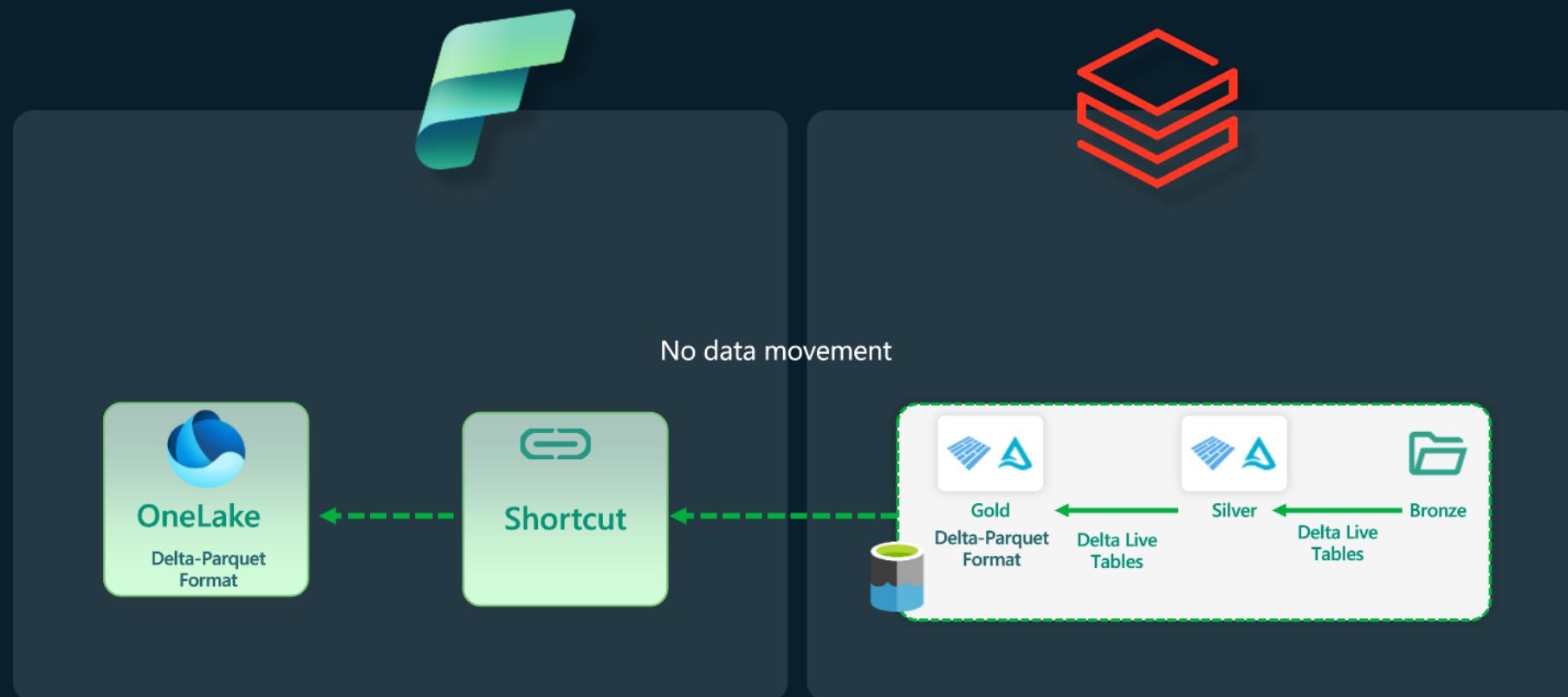
With [shortcuts](#), data throughout OneLake can be composed together without any data movement

Shortcuts also allow instant linking of data already existing in Azure and in other clouds, without any data duplication and movement, making [OneLake](#) a multi-cloud data lake

With support for industry standard APIs, OneLake data can be directly accessed by any application or service

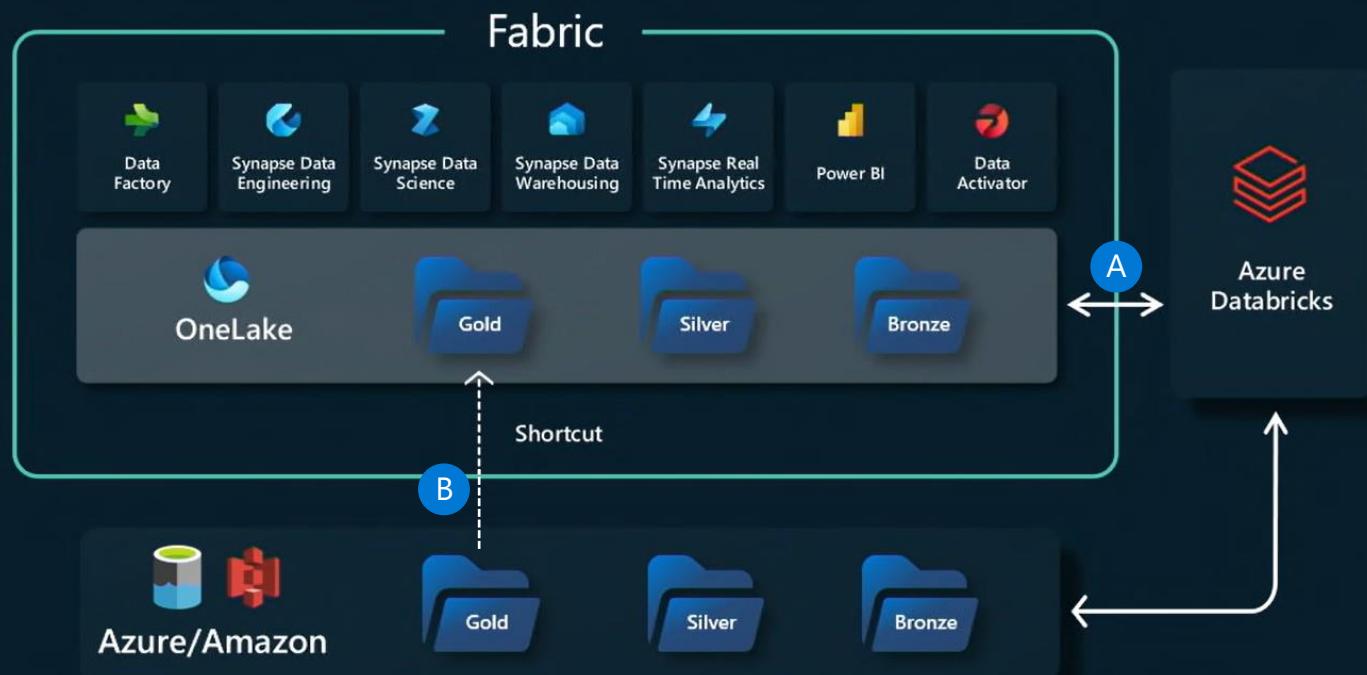
Microsoft Fabric & Azure Databricks

Get Started – Immediately



Fabric and Azure Databricks

Better together through OneLake



All Fabric engines have been redesigned and optimized for delta/parquet as their storage format for tabular data

Azure Databricks can directly read/write data from any Fabric data item stored in OneLake through external link.

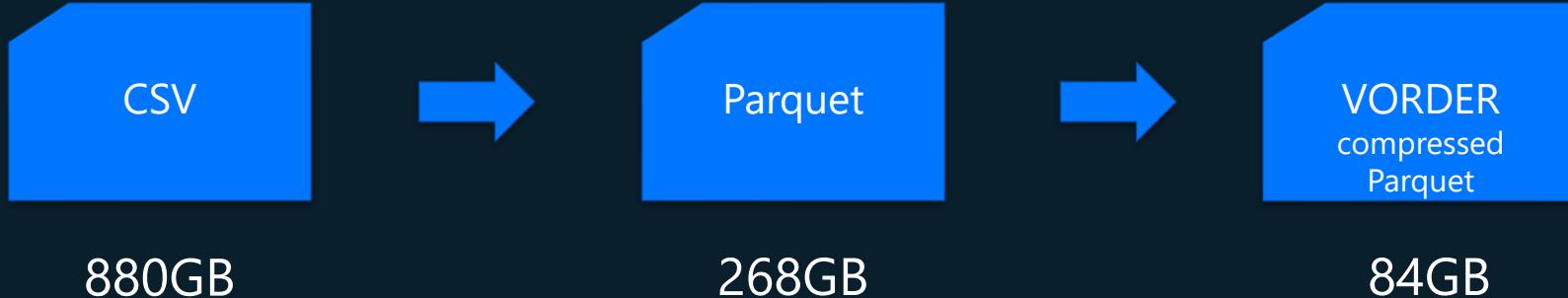
Existing non-Unity Catalog managed data in ADLS gen2 storage can be a shortcut into OneLake.

Data can be ready by Any Fabric engine including Power BI with direct lake in OneLake or with shortcut.

Coming soon: Unity Catalog and Fabric integration, Unity Catalog data will be available through Azure Databricks data item enhanced shortcuts experience.

V-ORDER compressed Parquet ONLY By Fabric

Microsoft Sales Data
(162 tables)



x3.2 Less I/O for all workloads

Better together through OneLake

Open and Governed Lakehouse



Microsoft Fabric



Azure Databricks

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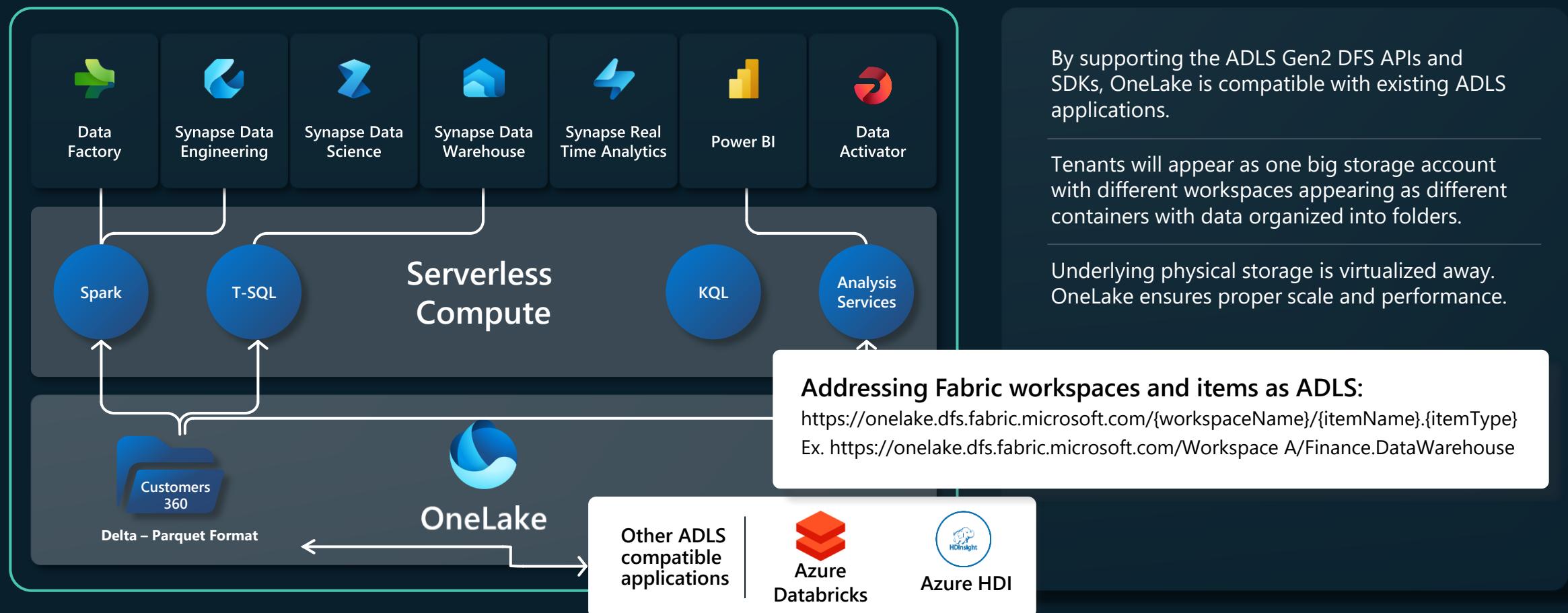
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[Coming soon:](#) Unity Catalog and Fabric integration, Unity Catalog data will be available through Azure Databricks data item enhanced shortcuts experience.

Open Access to data in OneLake

No lock-in with industry standard APIs and open file formats



Microsoft Fabric – An Open Platform

AVEVA

dbt Labs

Delphix

Epic

esri

Fivetran

Informatica

LSEG

MongoDB

Profisee

Qlik

sas

striim

teradata.

yugabyteDB

+100s of partners

Workloads are “apps”, Platform is “OS”



Create your own Fabric Workload



Private Preview



Mirroring

Seamlessly connect your databases
and data warehouses to OneLake



Azure
Cosmos DB



Azure
SQL DB



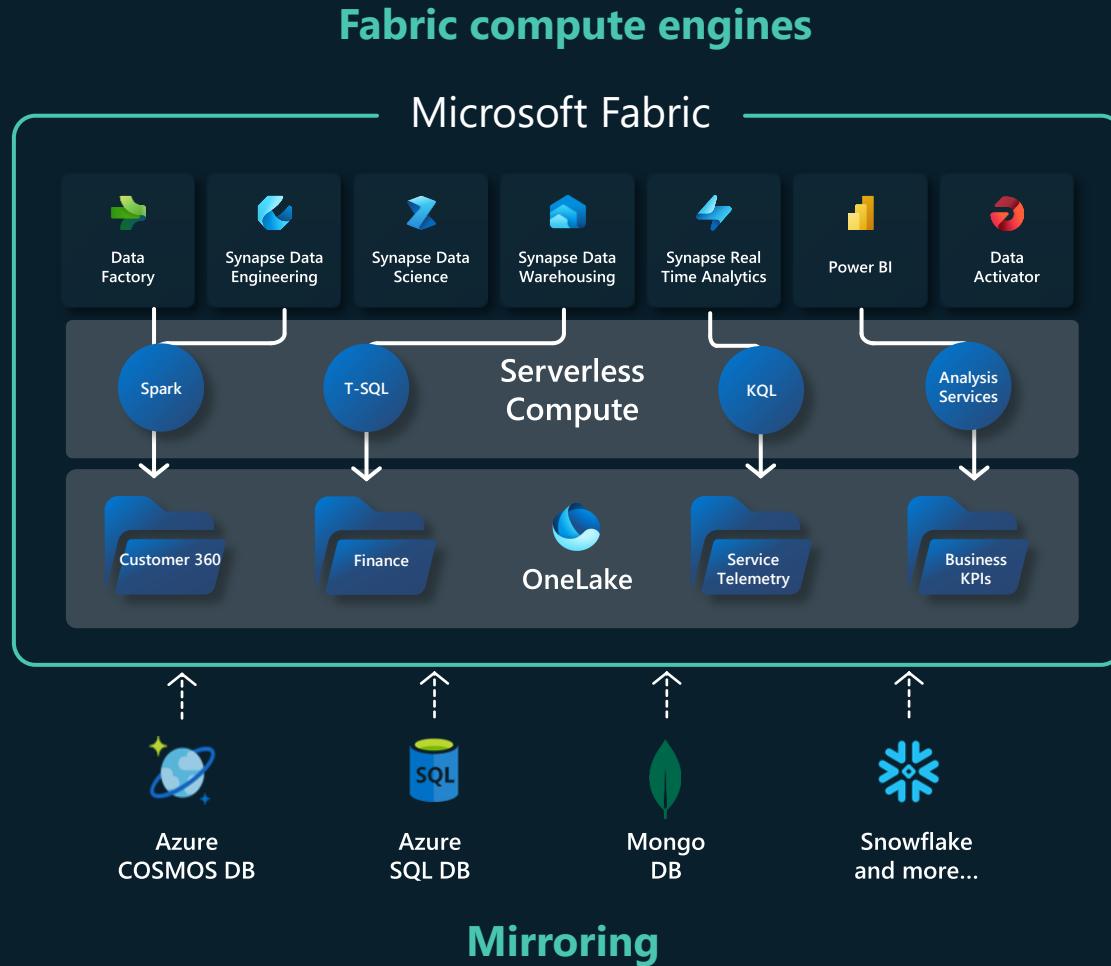
Mongo
DB



Snowflake
And More...

Mirroring in Microsoft Fabric

Simplify near real-time analytics



Fabric Mirroring enables adding existing databases and data warehouses to Fabric without any ETL.

A full editing experience of the source database is available for the Mirrored database.

Data is replicated into OneLake in Delta format and kept up-to-date in near-real-time.

All the Fabric experiences instantly work with the OneLake replica.

Analysts and Data Scientists can work with real-time data.

The replica protects operational databases from analytical queries.

Fabric experiences unlocked on real-time data

New visual query

SQL query 8 SQL query 2 SQL query 1

Run Save as view

```
1 SELECT RSD.storetype, P.product_category_name, avg(PR.review_score) 'Score', OS.order_status,
2 FROM Retaildb_Product P, Retaildb_Product_reviews PR, Retaildb_StoreOrders RSO, Retaildb_Stor
3 [SQLDBMirror].[dbo].[SalesLT].[Customer]] SSC
4 WHERE RSO.C = P.product_id
5 AND
6 PR.order_id = RSO.B
7 AND
8 RSO.A = RSD.store_id
9 AND
10 OS.order_id = RSO.B
11 AND
12 SSC.CustomerID = OS.customer_id
13 GROUP BY RSD.storetype, P.product_category_name, OS.order_status, SSC.CompanyName
```

Messages Results Save as table Download Excel file Visualize results

	ABC storetype	ABC product_category_name	12L Score	ABC
1	standard	perfumes	5	deliv
2	standard	health	5	deliv
3	superstore	gardening	4	deliv
4	standard	womens accessories	4	deliv
5	standard	dinnerware	5	deliv
6	standard	dinnerware	5	deliv
7	standard	dinnerware	5	deliv
8	standard	womens clothing	2	deliv

Succeeded (3 sec 891 ms)

PySpark (Python) Environment Workspace default Open in VS Code Copilot

Welcome to your new notebook
Type here in the cell editor to add code!

```
f = spark.sql("SELECT * FROM MyLake.PUBLIC_CUSTOMER LIMIT 1000")
display(df)
```

Notebook session ready in 1 min 58 sec 748 ms. Command executed in 18 sec 454 ms by Priya Sathy on 6:00:31 PM, 10/31/23

spark jobs (7 of 7 succeeded) Resources Log

Chart Showing rows 1 - 1000

12_CUSTKEY	ABC_C_NAME	ABC_C_ADDRESS	12_C_NATIONKEY	ABC_C_PHONE	12_C_ACCTBAL	ABC
30122	Customer#000030122	bR8q2QERlaAywgA...	16	26-115-104...	2919.56	AU
30304	Customer#000030304	eALWh2xIi5o3GzuC...	16	26-266-219...	7121.58	AU
30311	Customer#000030311	38inw07Xo2	16	26-497-906...	-586.83	AU
30362	Customer#000030362	udkkbh7p7coEMinc...	16	26-947-412...	484.36	AU
30459	Customer#000030459	zMDTREbGrjtVD8bzL...	16	26-738-750...	3710.05	AU
30829	Customer#000030829	8.8.e193yAkKOBgYbc...	16	26-552-525...	9623.19	AU
31108	Customer#000031108	yf2Zu0ISFXqlcabkjdl...	16	26-111-943...	6450.61	AU
31118	Customer#000031118	X5cLZ1dGSwsZzNxV ...	16	26-998-635...	129.94	AU
31145	Customer#000031145	BQj2n9VpdesDRXTj...	16	26-363-255...	-672.21	AU
31180	Customer#000031180	Aj5LV7t88lEuqGNq	16	26-765-652...	4821.96	AU
31208	Customer#000031208	9ETwat9TV1kvTjc1KA...	16	26-443-500...	2055.73	AU
31308	Customer#000031308	6vcw7EQuMldagh...	16	26-168-990...	1155.89	AU

ModifiedDate

Count of ViewCustomerOrders by order_status

order_status	Count of ViewCustomerOrders
delivered	28K
shipped	0K
refunded	0K
unavailable	0K
cancelled	0K
processing	0K

Sum of delay_in_days

delayreason

Count of ViewCustomerOrders by refundreason

refundreason	Count of ViewCustomerOrders
N/A	29K
No longer nee...	0K
Wrong produc...	0K
Didn't receive...	0K
Didn't receive ...	0K
None	0K
None specified	0K

Count of ViewCustomerOrders

isdelayed?

Power BI Direct Lake mode

Cross-database querying

Data Science experiences

Power BI Direct Lake mode

Roadmap

CY23



Azure Cosmos DB



Snowflake



Azure SQL DB

CY24 and beyond



ORACLE

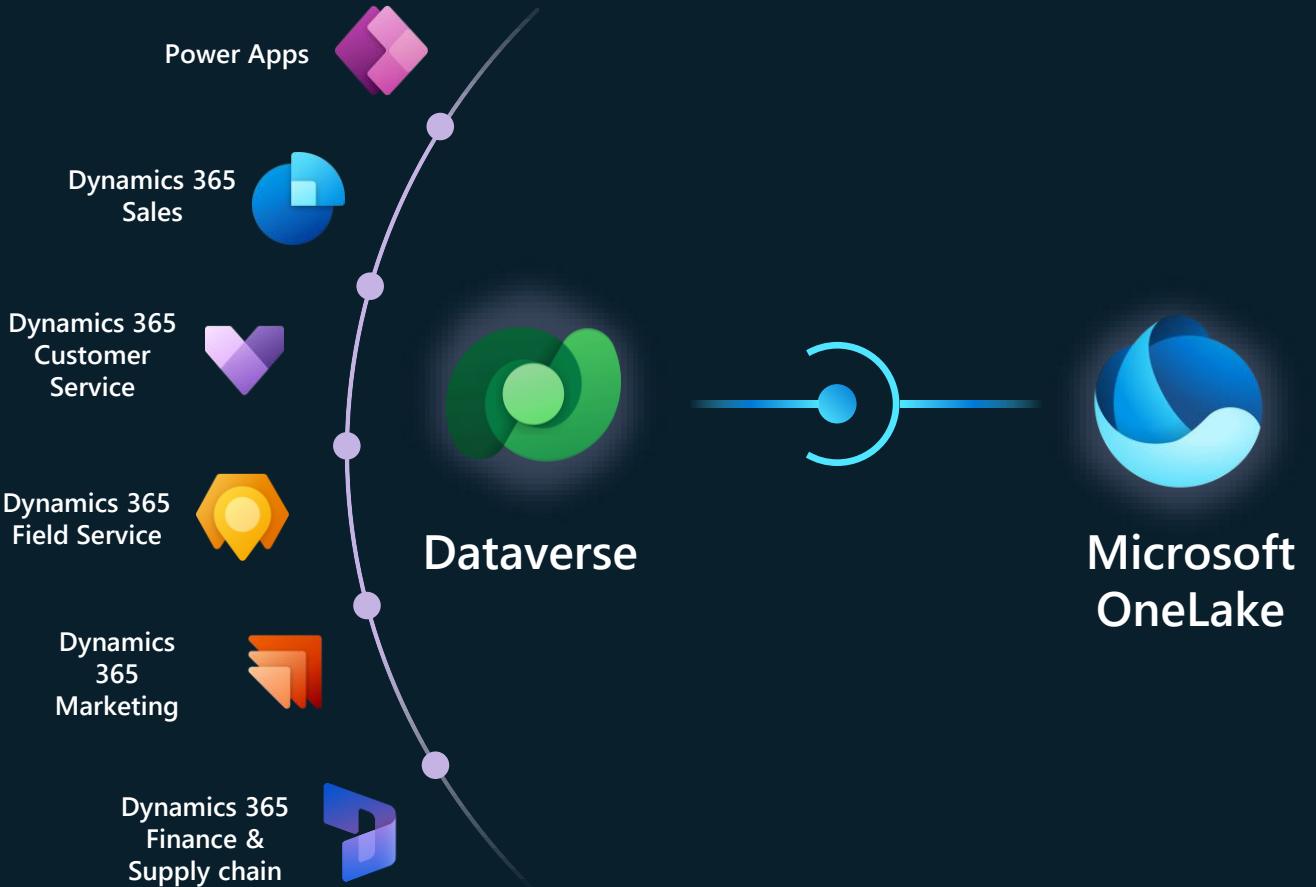


And More...

Available now!

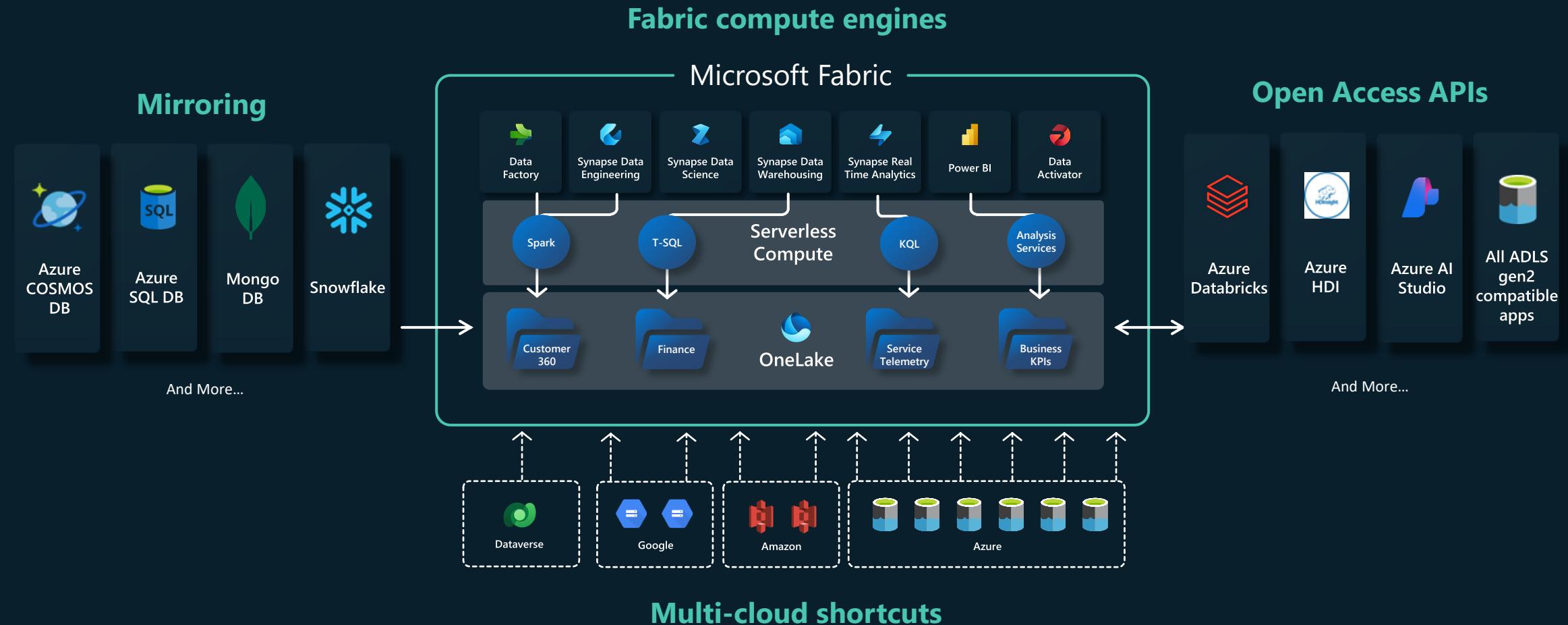
Shortcuts to Dataverse

Dynamics & Dataverse
data available in
OneLake immediately,
no ETL, no data copy



Unifying data in OneLake

Creating Data Gravity in OneLake





Better together with Fabric through OneLake open Access

A screenshot of a web browser displaying the Power BI interface. The URL is https://msit.powerbi.com/groups/9b9fd076-c113-4ae4-8c67-321e15d1d965/lakehouses/de06bb36-0e57-4432-8acd-c77c705d1c8f?experience=power-bi. The left sidebar shows a 'OneLake data hub' section with various items like Home, Create, Browse, Apps, Metrics, Monitoring hub, Deployment pipelines, Learn, Workspaces, and samkemp. The main area is titled 'testlakehouse' and shows an 'Explorer' view. Under 'testlakehouse/Tables/titanic', there is a 'Files' folder containing several files: 10k-docs (Folder, 3 items), blah.txt (TXT, 6 B), clippy-chat-completions (Folder, 2 items), dbo (Folder, 8 items), myupload (Folder, 1 items), and titanic.csv (CSV, 58 KB).

Name	Date modified	Type	Size
10k-docs	10/11/2023 6:48:17 PM	Folder	3 items
blah.txt	10/13/2023 1:36:33 PM	TXT	6 B
clippy-chat-completions	10/31/2023 1:05:26 PM	Folder	2 items
dbo	10/12/2023 6:25:21 PM	Folder	8 items
myupload	10/13/2023 1:41:31 PM	Folder	1 items
titanic.csv	10/6/2023 3:57:59 PM	CSV	58 KB

Introducing Azure AI studio!

Use OneLake as a data source for RAG in your Generative AI applications.

Read files and tables from any Fabric data item via the MLTable Python Library.

Consume data from OneLake in FSSPEC compliant libraries (e.g. Pandas, PyTorch) using AI Studio data connection.

User identity passthrough supported.

OneLake shortcuts (S3, ADLS, Dataverse) supported.



Home

  Get data  New Power BI dataset  Open notebook

Lakehouse

Explorer

Marketing

Tables

>  businessunit>  calendar>  campaign>  channel>  customer ...>  customercall>  geography>  product>  promotion>  vendor

Files

customer

Showing <50> rows

	FirstName	LastName	CompanyN...	Address	City	County	State	Zip	HomePhone	WorkPhone	Email
1	James	Smith	Benton, Joh...	6649 N Blu...	New Orleans	Orleans	LA	70116	504-621-89...	504-845-14...	jsmith@gm...
2	Josephine	Darakjy	Chanay, Jeff...	4 B Blue Ri...	Brighton	Livingston	MI	48116	810-292-93...	810-374-98...	josephine_d...
3	Art	Venere	Chemele, Ja...	8 W Cerrito...	Bridgeport	Gloucester	NJ	8014	856-636-87...	856-264-41...	art@venere...
4	Lenna	Paprocki	Feltz Printin...	639 Main St	Anchorage	Anchorage	AK	99501	907-385-44...	907-921-20...	lpaprocki@...
5	Donette	Foller	Printing Di...	34 Center St	Hamilton	Butler	OH	45011	513-570-18...	513-549-45...	donette.foll...
6	Simona	Morasca	Chapman, ...	3 Mcauley Dr	Ashland	Ashland	OH	44805	419-503-24...	419-800-67...	simona@m...
7	Mitsue	Tollner	Morlong As...	7 Eads St	Chicago	Cook	IL	60632	773-573-69...	773-924-85...	mitsue_toll...
8	Leota	Dilliard	Commercial...	7 W Jackso...	San Jose	Santa Clara	CA	95111	408-752-35...	408-813-11...	leota@hot...
9	Sage	Wieser	Truhlar And...	5 Boston Av...	Sioux Falls	Minnehaha	SD	57105	605-414-21...	605-794-48...	sage_wieser...
10	Kris	Marrier	King, Christ...	228 Runam...	Baltimore	Baltimore C...	MD	21224	410-655-87...	410-804-46...	kris@gmail....
11	Minna	Amigon	Dorl, James...	2371 Jerrol...	Kulpsville	Montgomery	PA	19443	215-874-12...	215-422-86...	minna_ami...
12	Abel	Maclead	Rangoni Of...	37275 St Rt...	Middle Island	Suffolk	NY	11953	631-335-34...	631-677-36...	amaclead@...
13	Kiley	Caldarera	Feiner Bros	25 E 75th St...	Los Angeles	Los Angeles	CA	90034	310-498-56...	310-254-30...	kiley.caldar...
14	Graciela	Ruta	Buckley Mill...	98 Connecti...	Chagrin Falls	Geauga	OH	44023	440-780-84...	440-579-77...	gruta@cox...
15	Cammy	Albares	Rousseaux, ...	56 E Moreh...	Laredo	Webb	TX	78045	956-537-61...	956-841-72...	calbares@g...



Microsoft Fabric

Data analytics for the era of AI

Complete Analytics Platform

Everything, unified

SaaS-ified

Secured and governed

Lake Centric and Open

OneLake

One copy

Open at every tier

Empower Every Business User

Familiar and intuitive

Built into Microsoft 365

Insight to action

AI Powered

Copilot accelerated

GPT on your data

AI-driven insights

Activity

Power BI Home Create Browse Data hub Learn About

Give us feedback  

Chat  40

Teams  1

Calls  •

Files 

Approvals 

Calendar 

Power BI 

... 

Apps 

Help 

41°F Cloudy 

10:39 PM 2/8/2023

Good evening, Patrick

Find and share actionable insights to make data-driven decisions

+ New report  

Recommended

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Power BI

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Will Thompson (HE/HIM) featured this



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Workforce Planning

Recent  In Teams  Favorites  My apps  From external orgs 

Filter by keyword  Filter 

 Name	Type	Opened	Location	Endorsement	Sensitivity
 Sales Pipeline 	Report	39 seconds ago	Contoso Sales Excellence	—	Confidential\Microsoft Extended 
 Goals Usage(Kusto)	Report	9 days ago	Goals	—	Confidential\Microsoft FTE 
 Workforce Demographics (Demo Mid)	Report	12 days ago	My workspace	—	General 
 Goals usage - Client events - Feature usage	Report	13 days ago	Goals usage metrics	—	Confidential\Microsoft FTE 
 Workforce Hiring Summary	Report	14 days ago	My workspace	—	General 
 My workspace	Workspace	14 days ago	Workspaces	—	—

Announcing

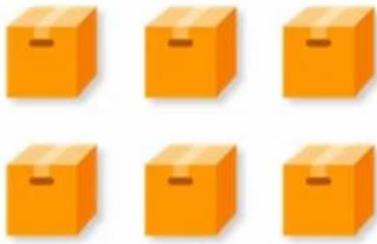


Data Activator

Introducing Data Activator



Demo scenario – delivery logistics



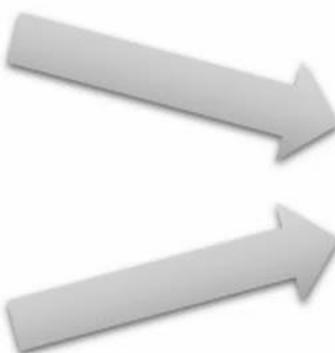
PACKAGES



DRIVERS

Package data:

- › In-transit time
- › Temperature reading
- › Delivery status
- ›



TRIGGERS

Driver data:

- › On-shift duration
- › Location
- › Driver status
- › ...

E-mails when:

- › Package is too hot
- › Package is delayed
- › Driver on shift for too long
- › ...



PEOPLE



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Copilot accelerated

GPT on your data

AI-driven insights

Announcing



Copilot in Microsoft Fabric

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Copilot in PowerBI

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Microsoft Fabric Capacity

Is Power BI Premium Capacity

Power BI	
SKU	PBI vCore
P1	8
P2	16
P3	32
P4	64
P5	128



Microsoft Fabric	
SKU	CU
F 2	2
F 4	4
F 8	8
F 16	16
F 32	32
F 64	64
F 128	128
F 256	256
F 512	512
F 1024	1024

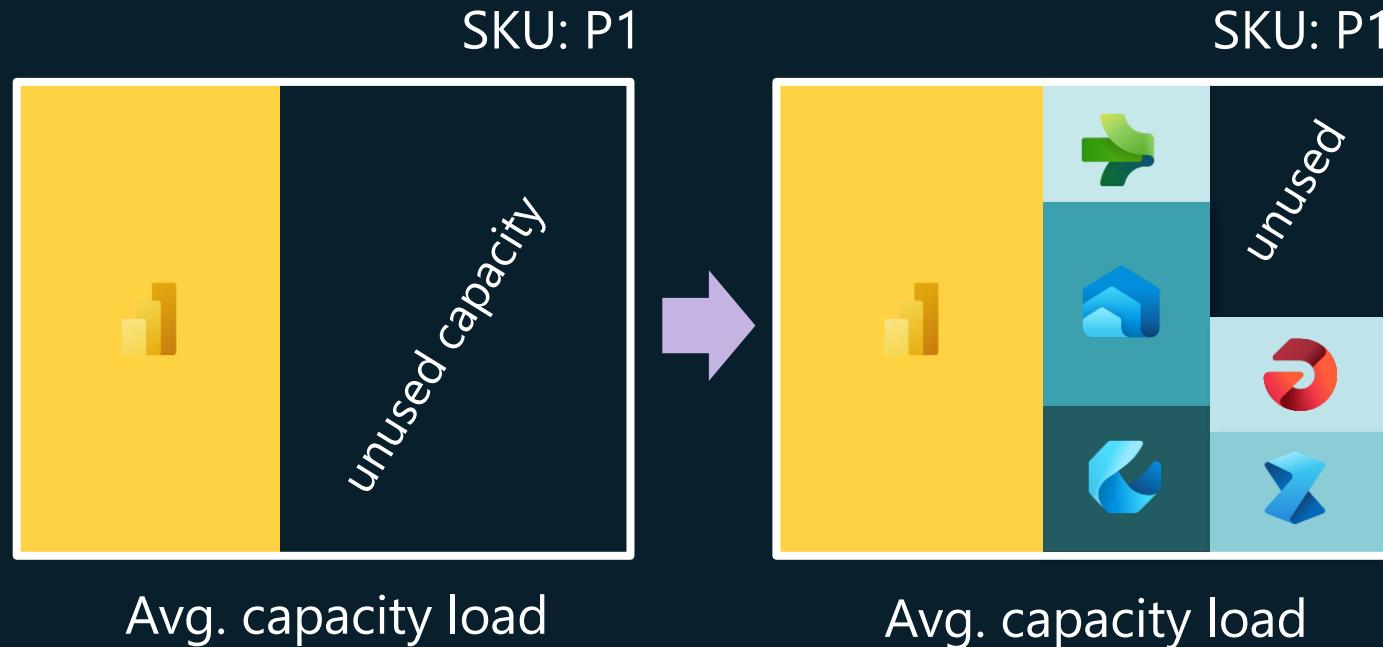
Power BI Premium P SKUs get
access to the full Fabric capabilities

More granular SKUs to avoid
overprovisioning

1x PBI vCore = 8x CU

Microsoft Fabric Capacity

Is Power BI Premium Capacity



Power BI Premium P SKUs get
access to the full Fabric capabilities

PBI Capacity now supports more than
report workloads

Better utilization of unused capacity
to fuel external workloads with
existing investment

Opportunity to consolidate to reduce
cost and complexity



Microsoft Fabric

Data analytics for the era of AI



Data
Factory



Synapse Data
Engineering



Synapse Data
Science



Synapse Data
Warehouse



Synapse Real
Time Analytics



Power BI



Data
Activator



OneLake

Intelligent data foundation



Get started with Microsoft Fabric

8400 XP

7 hr 54 min remaining • Learning Path • 2 of 10 modules completed

[Beginner](#) [Data Analyst](#) [Data Engineer](#) [Data Scientist](#) [Power BI](#)

Explore the capabilities of Microsoft Fabric.

Prerequisites

You should be familiar with basic data concepts and terminology.

[Continue >](#) [Add](#)

Modules in this learning path



Introduction to end-to-end analytics using Microsoft Fabric

✓ 700 XP

22 min • Module • 6 Units

4.9 (658)

Discover how Microsoft Fabric can meet your enterprise's analytics needs in one platform. Learn about Microsoft Fabric, how it works, and identify how you can use it for your analytics needs.

[Overview ▾](#) [Add](#)

Get started with lakehouses in Microsoft Fabric

700 XP

40 min remaining • Module • 2 of 6 units completed

4.8 (336)

Lakehouses merge data lake storage flexibility with data warehouse analytics. Microsoft Fabric offers a lakehouse solution for comprehensive analytics on a single SaaS platform.

[Continue >](#)[Overview ▾](#)[Introduction](#)

[Get started with Microsoft Fabric - Training](#)

New Microsoft Credentials



Get ready!

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Microsoft Certifications

Microsoft Certified: Fabric
Analytics Engineer Associate

Exam DP-600: Implementing
Analytics Solutions
Using Microsoft Fabric

BETA in mid-Jan



Microsoft Applied Skills

Fabric
credentials

Covering scenarios like real-time
analytics, data lakehouses, and data
warehouses using Microsoft Fabric

NEW in early 2024

Next steps



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Try Microsoft Fabric
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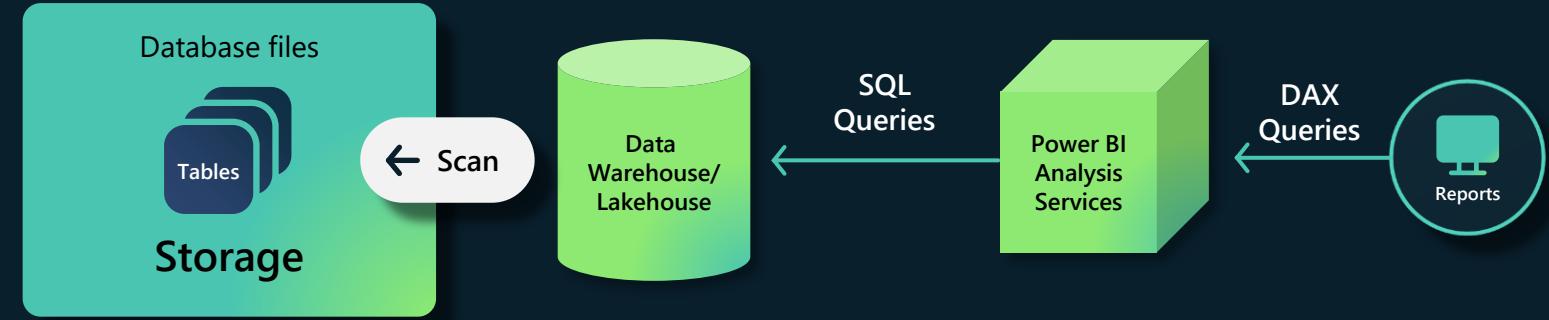
**Register for the Fabric
Community Conference**
aka.ms/FabricConference



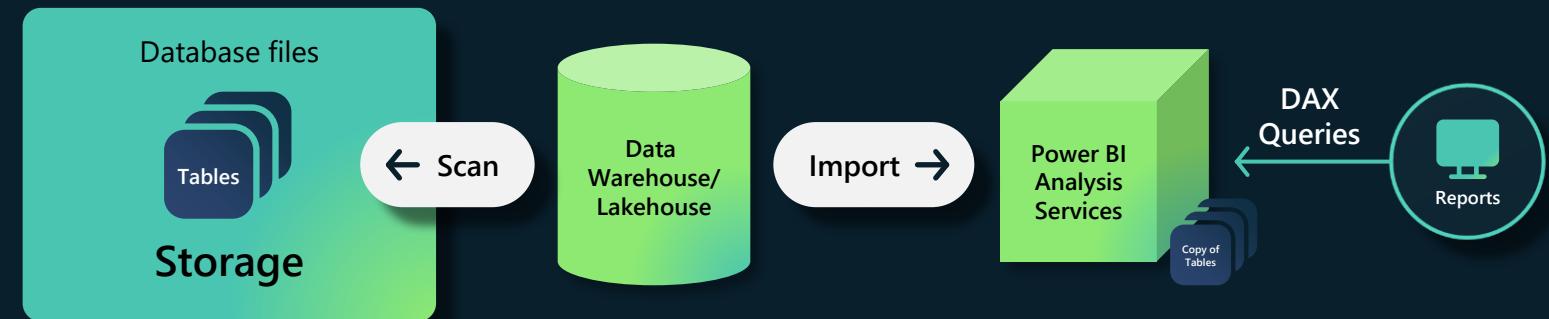
Appendix

Direct Lake

“Direct Query Mode”
Slow, but real time



“Import Mode”
Latent & duplicative but fast



“Direct Lake Mode”
Perfect!

