



142. Meeting of Data Community Poland – Warsaw Chapter

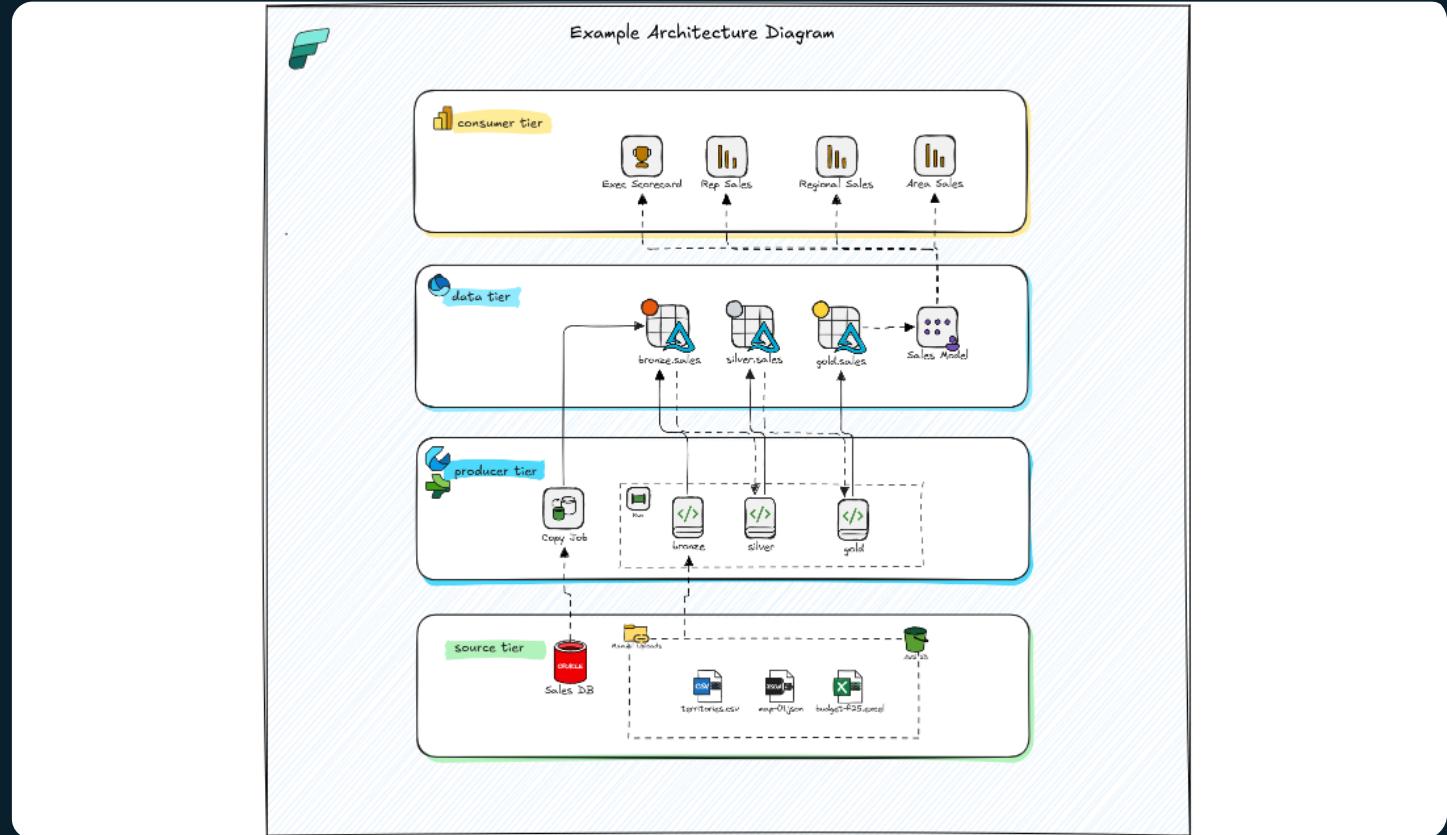
Microsoft Fabric Post-Ignite Demo Festival

Ula Cholewa, BI Evangelist, InfiniteDATA Services

Paweł Potasiński, CTO, InfiniteDATA Services

Before we even start...

Fabric icon library for Excalidraw



Developed for community
by Miles Cole from Azure
Data CAT team

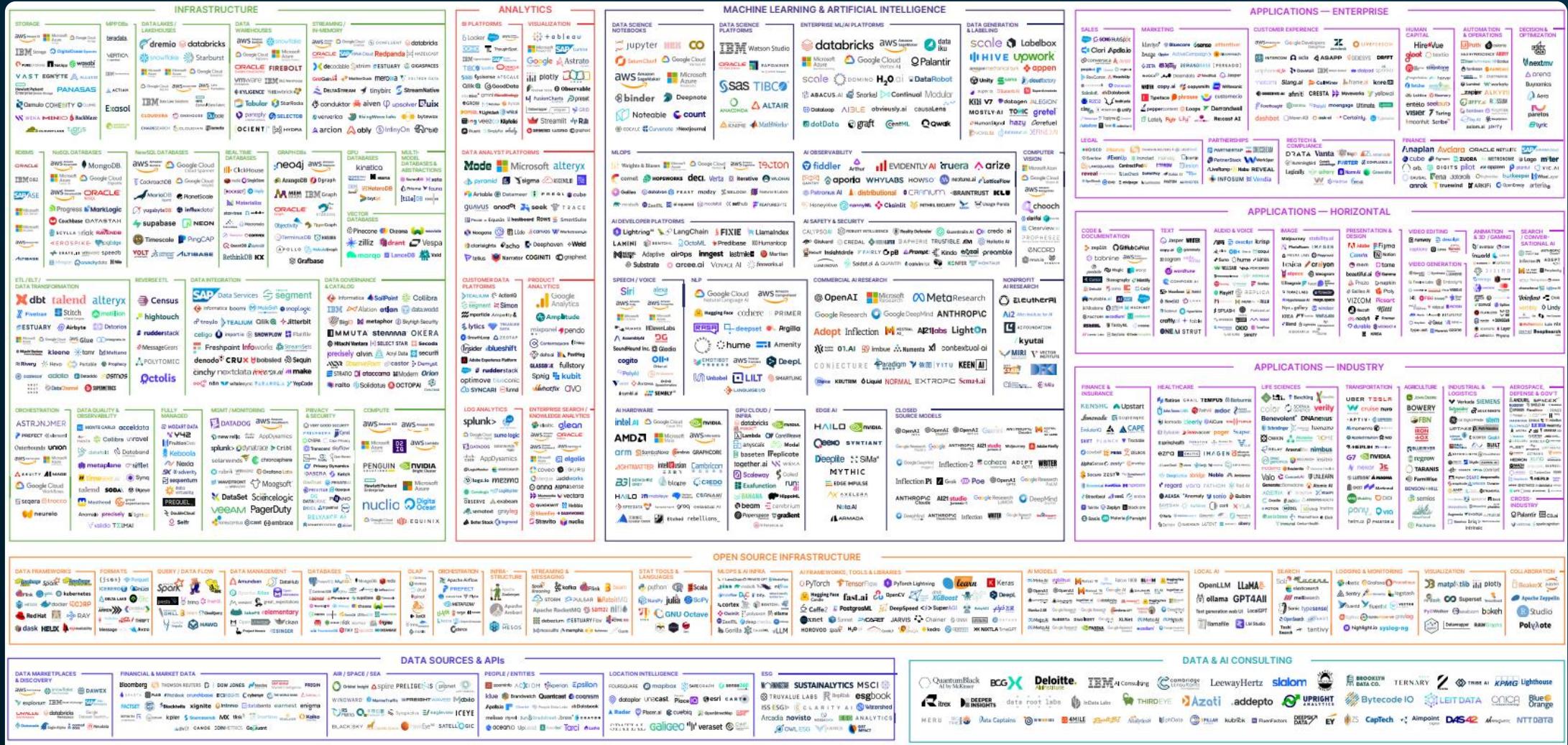
Contains icons for
product, workloads, items
and more

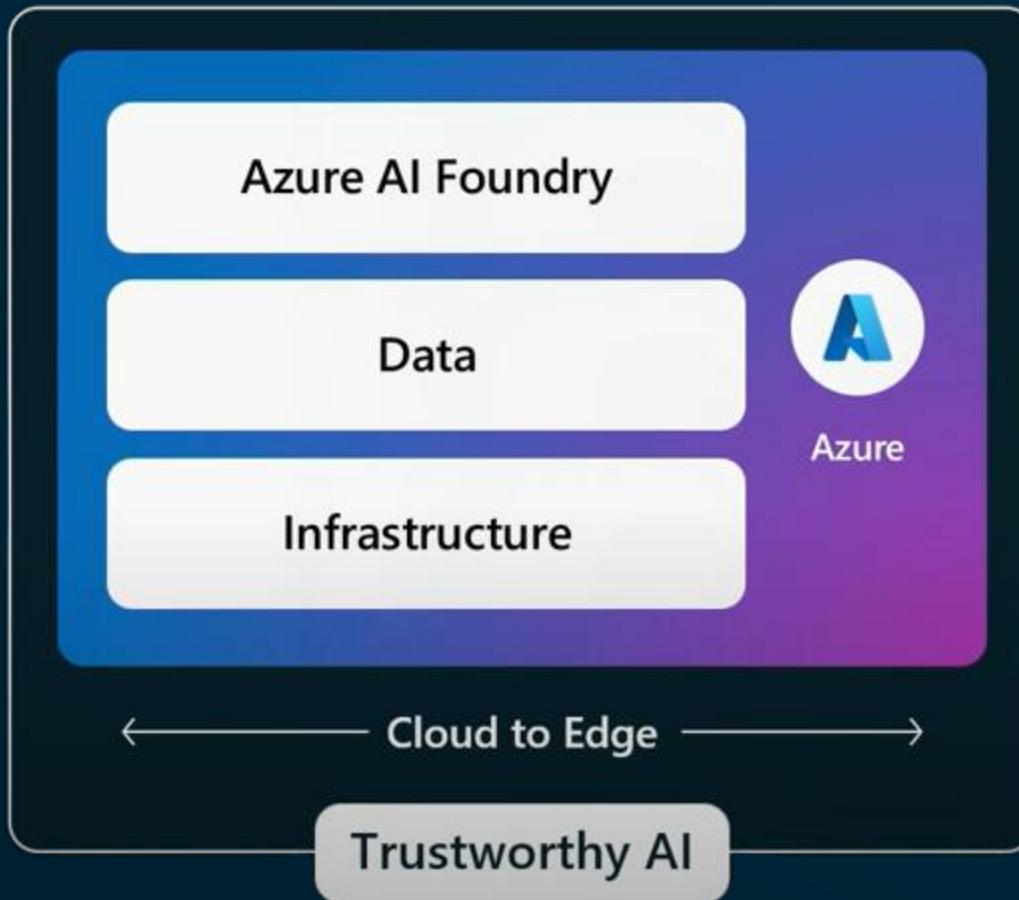
Available for free to use
with Excalidraw

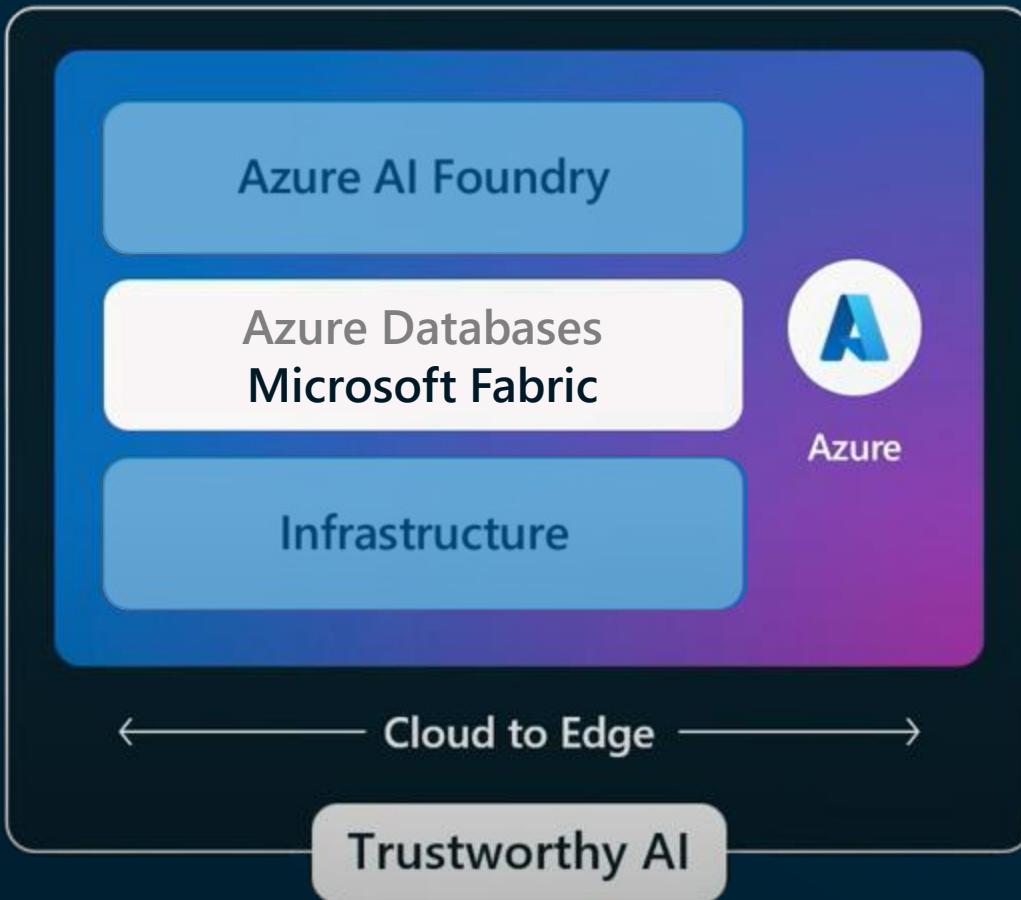
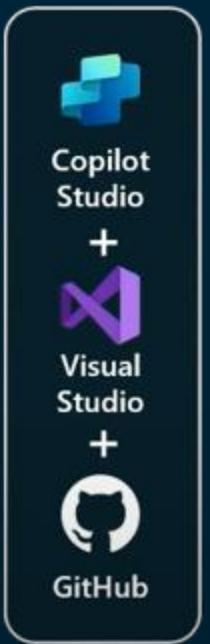
AI is transforming the world

Data is the fuel that powers AI

The 2024 data and AI landscape









Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real-Time
Intelligence



Power BI



AI



OneLake



Purview



Microsoft
Fabric

16,000+

Fabric customers

70%

Fortune 500

375K+

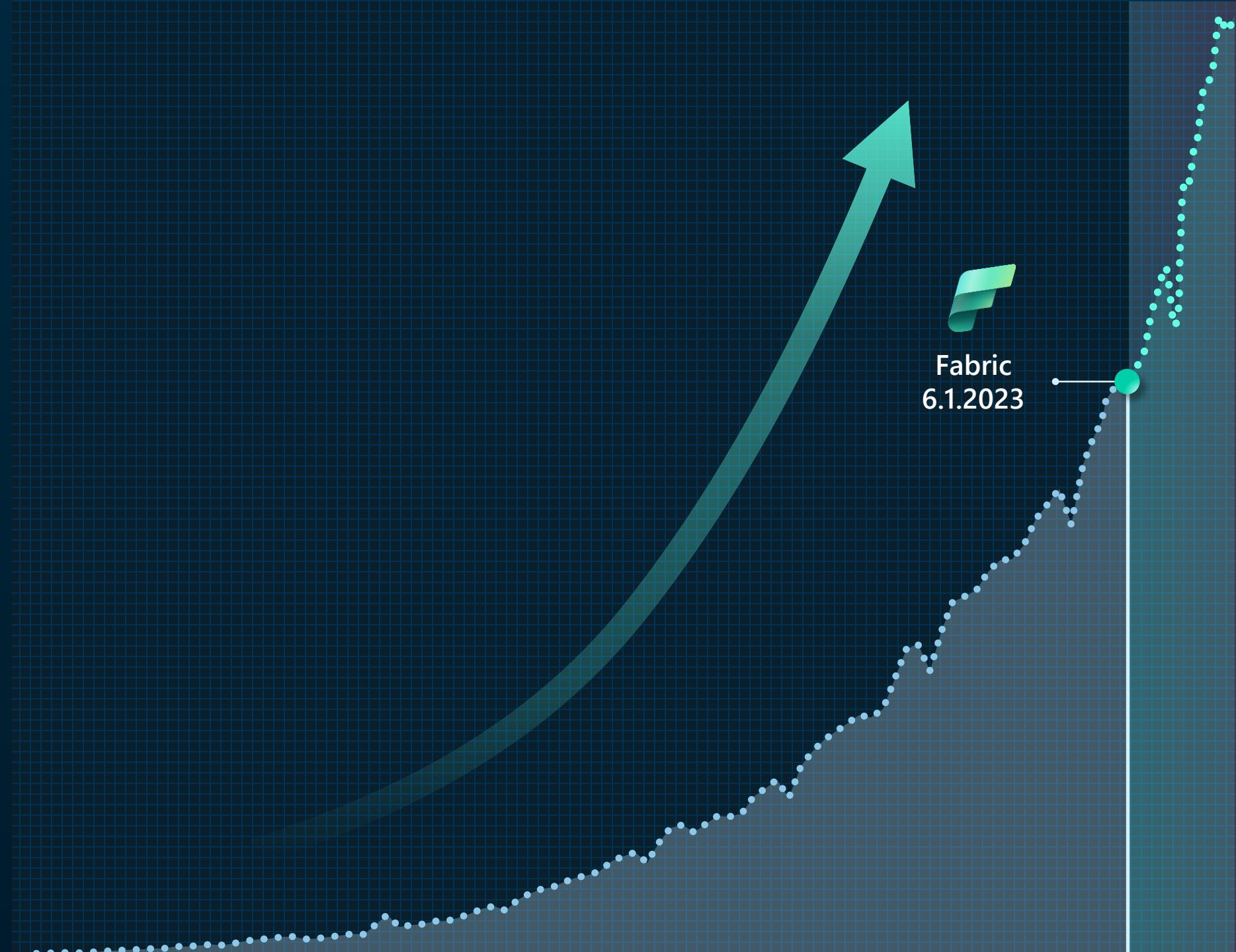
Power BI
customers

95%

Fortune 500 companies
use Power BI

6.5M+

Power BI
developers





All have
Fabric
available one click away



Microsoft Fabric

Available now

60-day free trial

No credit card

No Azure subscription

F64 SKU

\$17,000 value



aka.ms/try-fabric



Weekly Fabric releases

Rapid pace of innovation

Microsoft Fabric Updates Blog

Updates > All > 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 118,679 Views [in 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

[Watch on YouTube](#)

Aug 2023

Microsoft Fabric Updates Blog

Updates > 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 187,856 Views [in 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 \(v1.0.10\) – Menu Option to View Workspaces and Items Online](#)
- Power BI
 - General
 - [Upgrade Power BI Desktop .NET Framework to 4.7.2 or newer](#)
 - Reporting
 - [Mobile layout interactive canvas](#)
 - [Smart Narrative improvements](#)
 - [Modeling](#)

Sept 2023

Microsoft Fabric Updates Blog

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 129,932 Views [in 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!

Contents

- Core
 - [Item type icons](#)
- Admin
 - [Keyword-Based Filtering of Tenant Settings](#)
- Power BI
 - Reporting
 - [Power BI Desktop OneDrive and SharePoint integration](#)
 - [On-object Interaction Updates \(preview\)](#)
 - [New! Date Hierarchy on data flavor](#)
 - [New! Placeholder text](#)

Oct 2023

Microsoft Fabric Updates Blog

Updates > All > Microsoft Fabric November 2023 update

Microsoft Fabric November 2023 update

Announcements Core Data Factory Data Science
Monthly Update Real-time Analytics Synapse

November 15, 2023 by Ryan Majidimehr [in Share](#) [Tweet](#) [Like](#)

Welcome to the November 2023 update.

We have lots of features this month including Narratives for Data Factory, the general availability of Semantic RLS and many more. Continue reading for more details on our new features!

Contents

- Core
 - [Microsoft Fabric User API](#)
- Power BI
 - Reporting
 - [Button slicer \(Preview\)](#)
 - [Reference Labels \(Preview\)](#)
 - [Enhance your Q&A visual with suggested synonyms](#)
 - [On-object Interaction Updates](#)
 - [Azure Maps visual \(Preview\)](#)

Nov 2023



Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real-Time
Intelligence



Power BI



AI



OneLake



Purview



Microsoft Fabric

The unified data platform for AI transformation

Generally Available



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real-Time
Intelligence



Power BI



AI



OneLake



Purview



Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real-Time
Intelligence



Power BI



AI



OneLake



Purview



Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Analytics



Real-Time
Intelligence



Power BI



AI



OneLake



Purview



Microsoft Fabric

The unified data platform for AI transformation

Public Preview



Data
Factory



Analytics



Databases



Real-Time
Intelligence



Power BI



AI



OneLake



Purview



Microsoft Fabric

The unified data platform for AI transformation

AI Powered Data
Platform

Open and AI-Ready
Data Lake

AI Enabled
Insights



Microsoft Fabric

The unified data platform for AI transformation

AI Powered Data Platform

Complete data platform

Unified, SaaS-ified

Secured and governed

Open and AI-Ready Data Lake

OneLake

Multi-cloud

Open at every tier

AI Enabled Insights

For every business user

Built into Microsoft 365

M365 Copilot Integrated



New workloads

Demo



SQL databases in Fabric

Generally Available

Microsoft Fabric Workload Development kit

Seamless user
experience

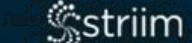
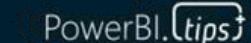
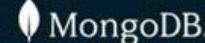
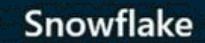
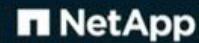
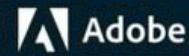
Discover and visualize
insights in real-time

Automatically drive
action from data

Microsoft Fabric Workload Development kit GA

Microsoft Fabric Workload Development Kit

Public Preview



And many more!

Demo



Custom workloads in Fabric



Platform, administration
and governance

Demo



Tenant settings

Surge Protection

Public Preview

The screenshot shows the Microsoft Fabric Admin portal interface. At the top left is the Microsoft Fabric logo. On the left side is a vertical navigation bar with icons for Home, Copilot, Create, Browse, OneLake, Apps, Metrics, Monitor, Learn, Workspaces, and My workspace. The main content area has a header "Admin portal" and a search bar. Under "Capacity settings", there is a "Surge Protection" section. It includes a checkbox labeled "Enable Surge Protection" which is checked. Below it is a "Background Rejection threshold" section with a note about setting a custom threshold to lower impact. A slider is set at 45%. Below that is a "Background Recovery threshold" section with a note about allowing capacity to burn down overages. A slider is set at 10%. At the bottom are "Apply" and "Discard" buttons.

Protect your capacities from unexpected surges in background workload consumption

Set limits on background activity consumption to prevent background jobs running when limit is reached

Configure separate limits for each capacity in your organization for added flexibility

Workspace Monitoring

Fabric trial ends in 1 day

Public Preview

Workspace settings

Search

- General
- License info
- Azure connections
- System storage
- Git integration
- OneLake
- Workspace identity
- Network security
- Monitoring**

Power BI

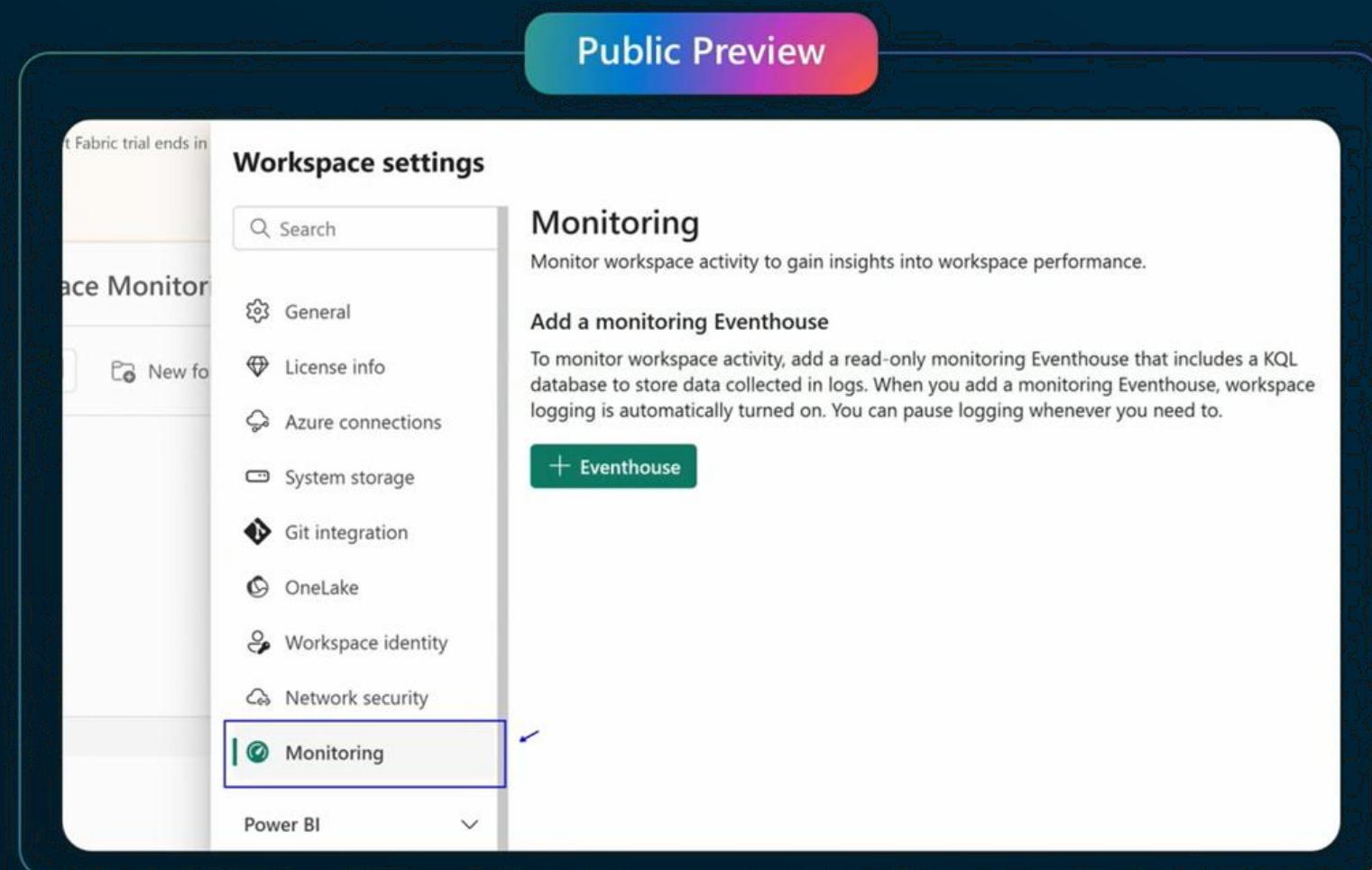
Monitoring

Monitor workspace activity to gain insights into workspace performance.

Add a monitoring Eventhouse

To monitor workspace activity, add a read-only monitoring Eventhouse that includes a KQL database to store data collected in logs. When you add a monitoring Eventhouse, workspace logging is automatically turned on. You can pause logging whenever you need to.

+ Eventhouse

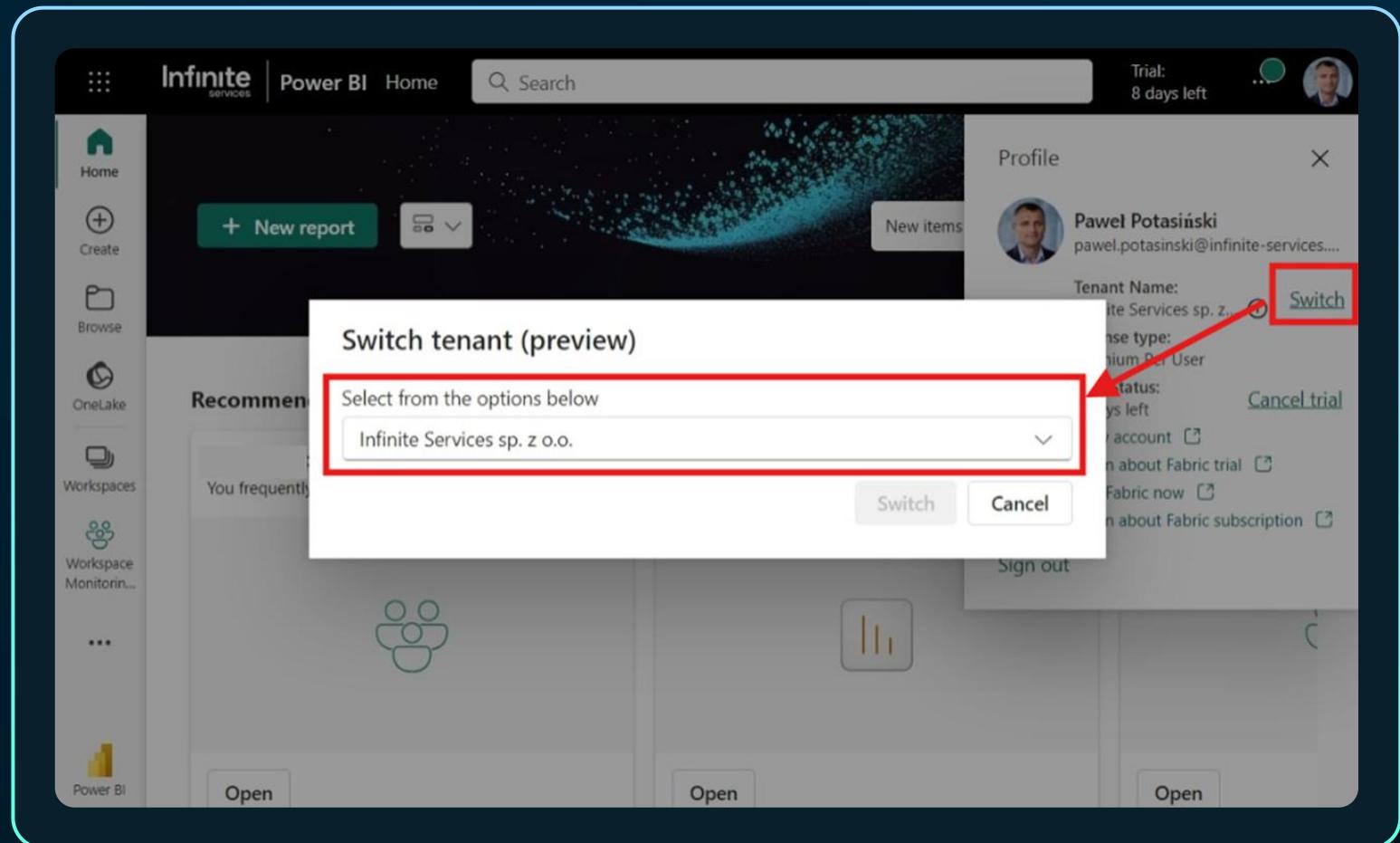


Monitor workspace activity & view granular diagnostic logs in a read-only Eventhouse w/ KQL DB

Conduct root-cause analysis, troubleshoot operations, and track performance and data downtime

Query the database ad-hoc, analyze for patterns and anomalies, or save drafted queries as query sets

Tenant switcher



Tenant switcher control in Fabric UI

Easily access multiple tenants

No logging off required

Demo

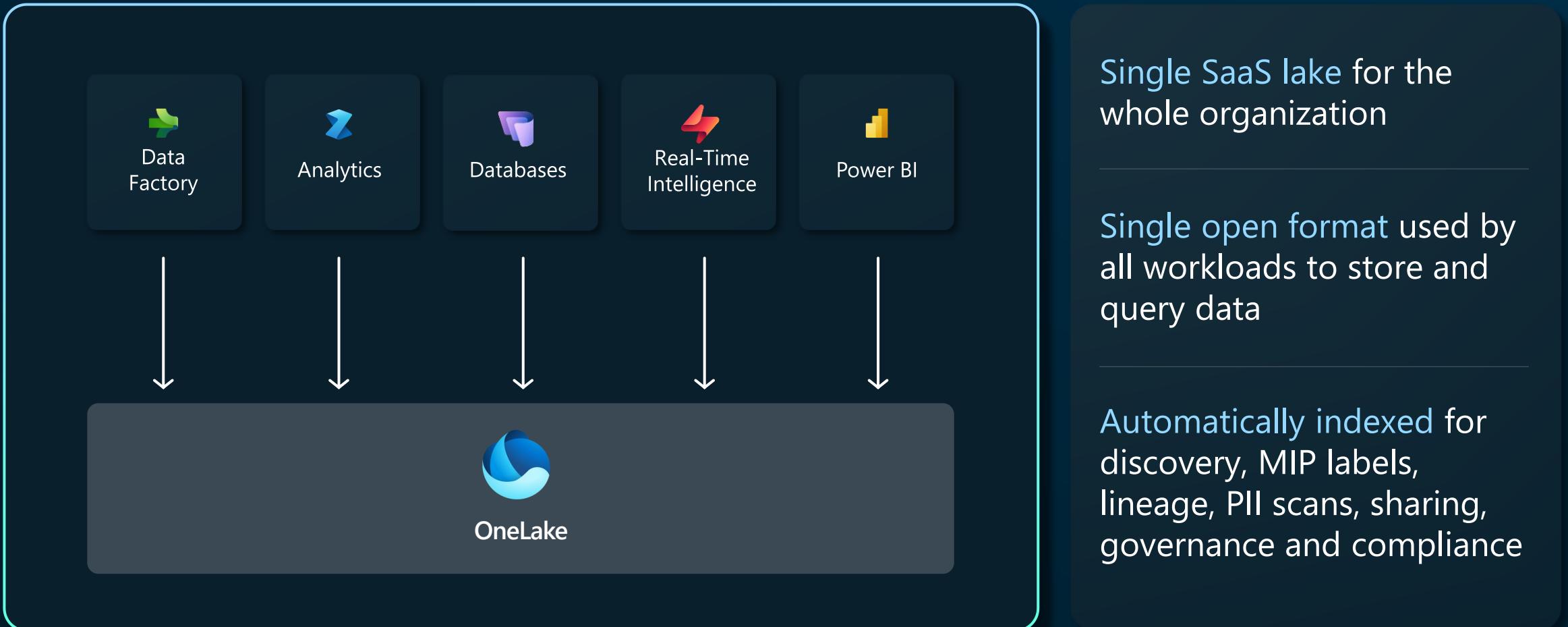


Switch branches
in Fabric UI



OneLake

OneLake is the OneDrive for data





OneLake momentum

21 Billion

Interactions per day

4 Million

Active shortcuts

>1 Million

Azure storage accounts
under management

16 Weeks

Doubling rate of
storage volume



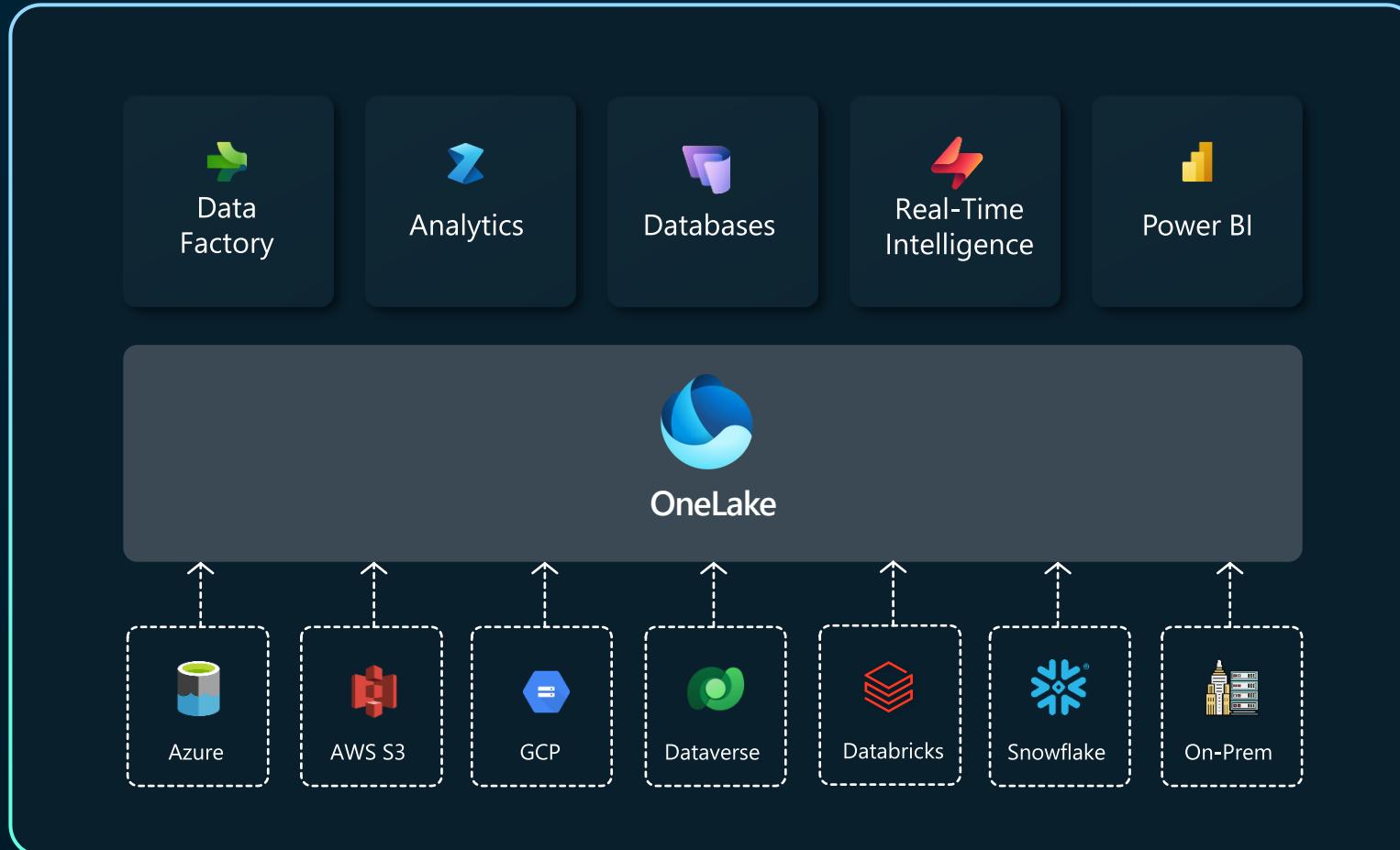
Demo



OneLake catalog

Unifying data in OneLake

Cross-cloud shortcuts & mirroring



First multi-cloud
SaaS data lake

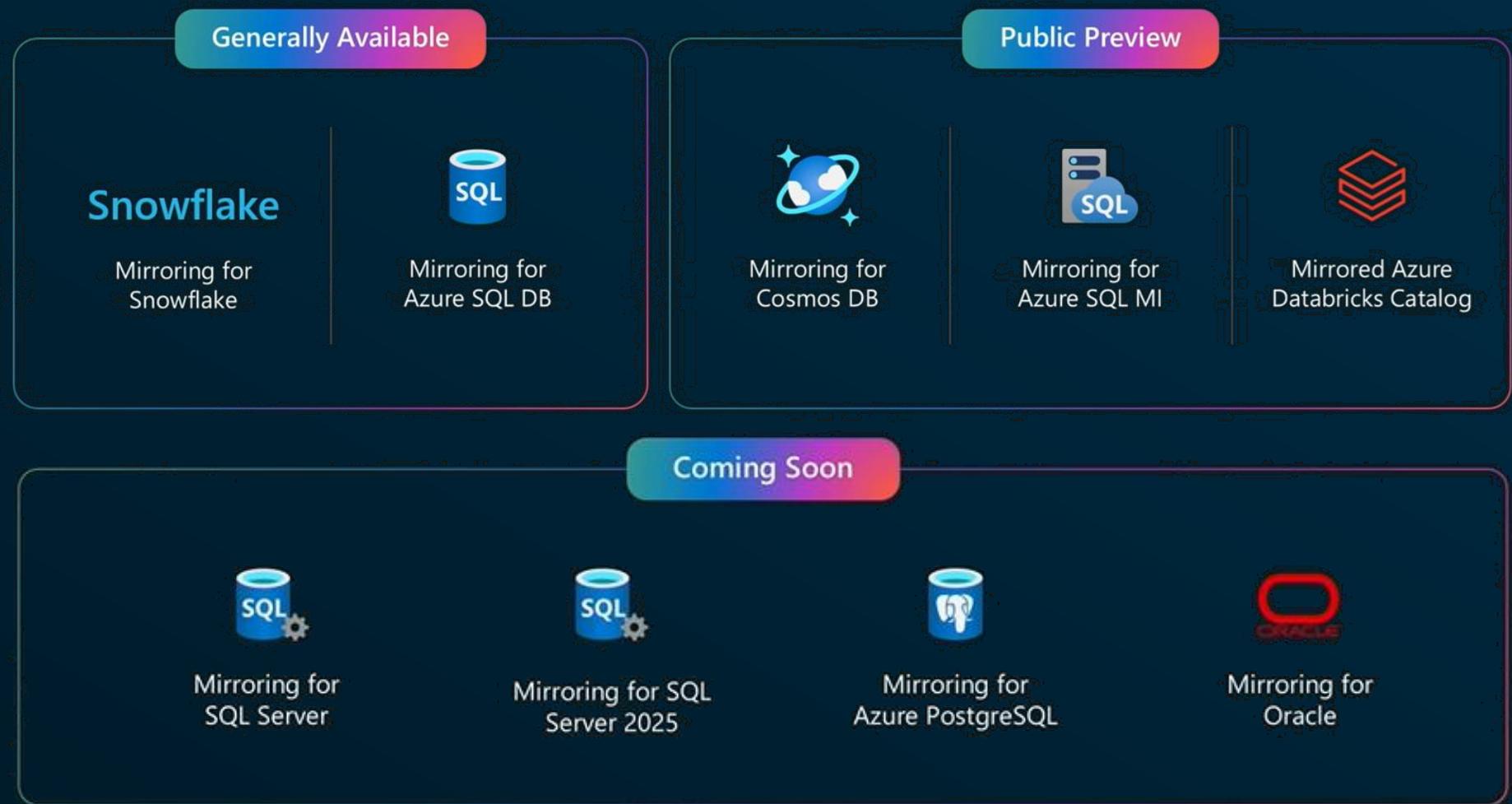
Shortcuts for existing
data cross clouds and
on-premises

Shortcuts are instantaneous,
with no data duplication
or movement

Mirroring creates a
reflection of an entire
database in OneLake

Database Mirroring in Fabric

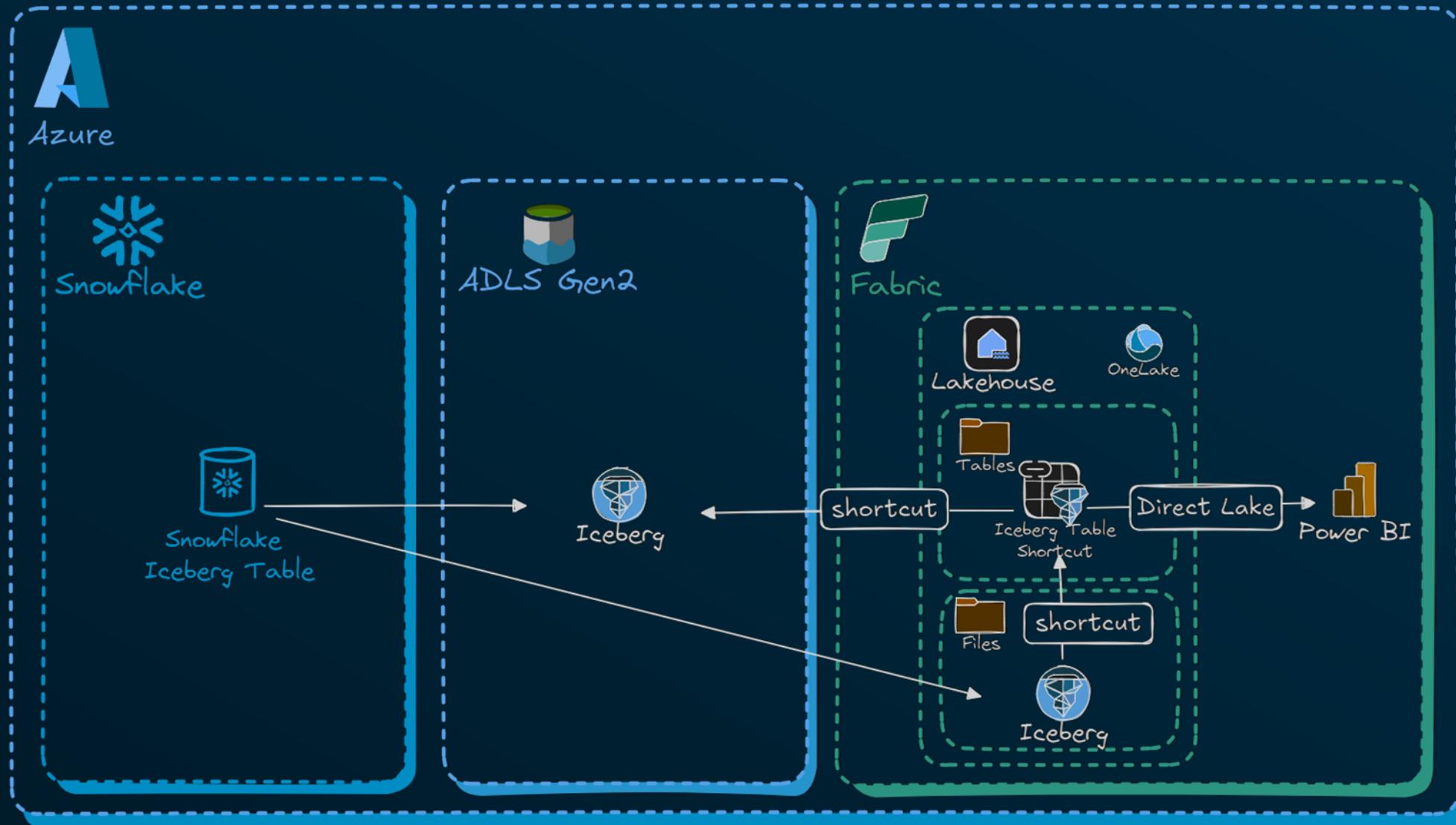
Automatically reflect data into OneLake



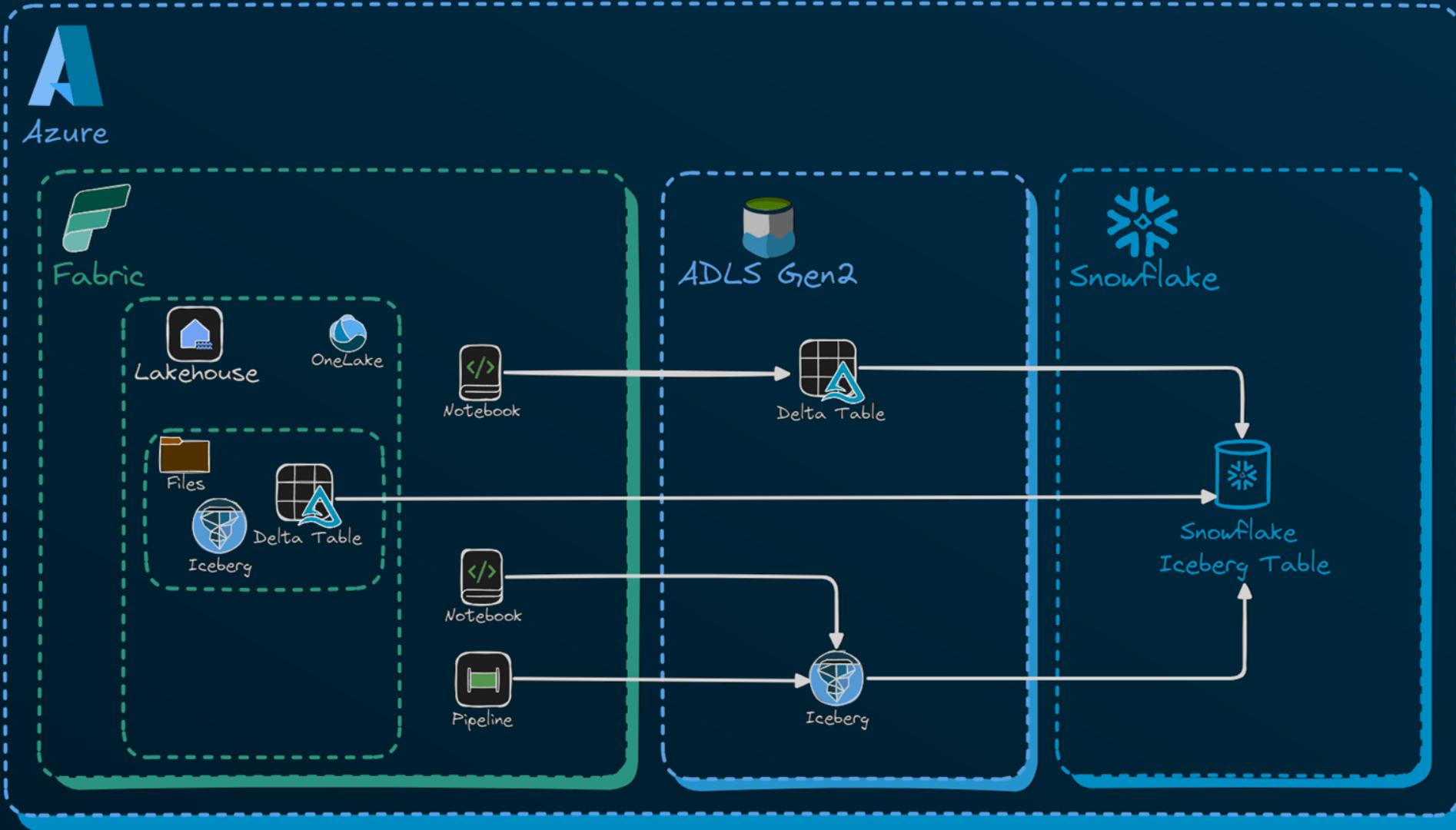
Open Mirroring in Fabric



Iceberg integration – Snowflake to Fabric



Iceberg integration – Fabric to Snowflake



Demo



Iceberg integration



Data Factory

Demo



Writing data to Iceberg (+import/export pipeline)

Demo



Copilot for data pipelines

Demo



Updated Semantic Model Refresh activity



Analytics

Demo



Python notebooks

Demo



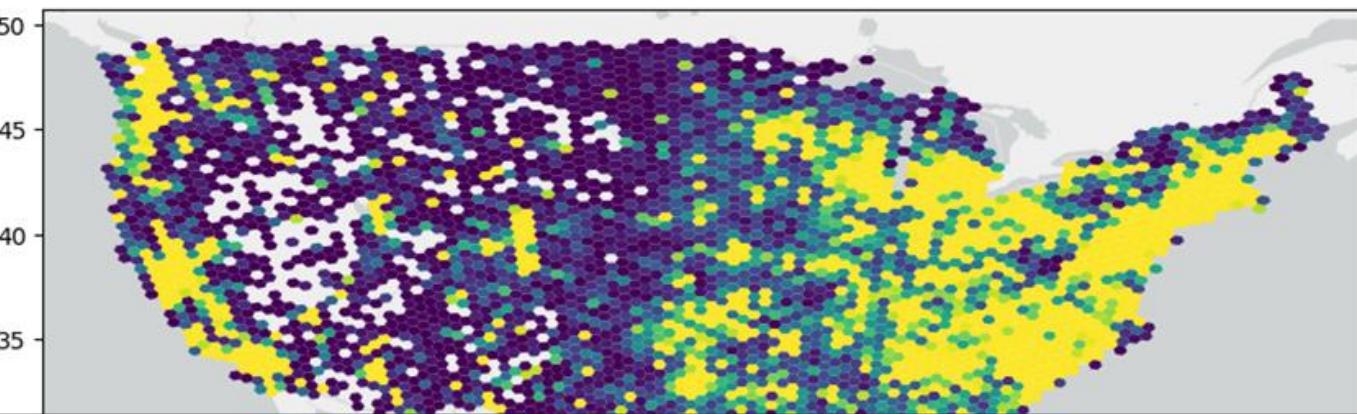
Notebook chart update

Integration with Esri ArcGIS in notebooks

```
1 # Uncover the pattern of our interest, for
2 # instance summarizing the total number of policies by hexagonal bins
3 df_points_agg.st.plot(basemap="light",
4     figsize=(10,10),
5     cmap_values="Count",
6     vmin=10,
7     vmax=500,
8     legend=True, legend_kwds={"location": "bottom", "pad": 0},
9     extent=(-127.83, 21.88561, -64.81539, 50.69));
```

✓ 12 sec - Command executed in 11 sec 807 ms by Arshad Ali on 3:30:11 PM, 8/15/24

> Spark jobs (2 of 2 succeeded) Resources



GeoAnalytics functions in Fabric Spark

Integrate geospatial data, enrich data with location context, **visualize** spatial relationships

Available in Runtime 1.3

Demo



Low code AutoML

Demo

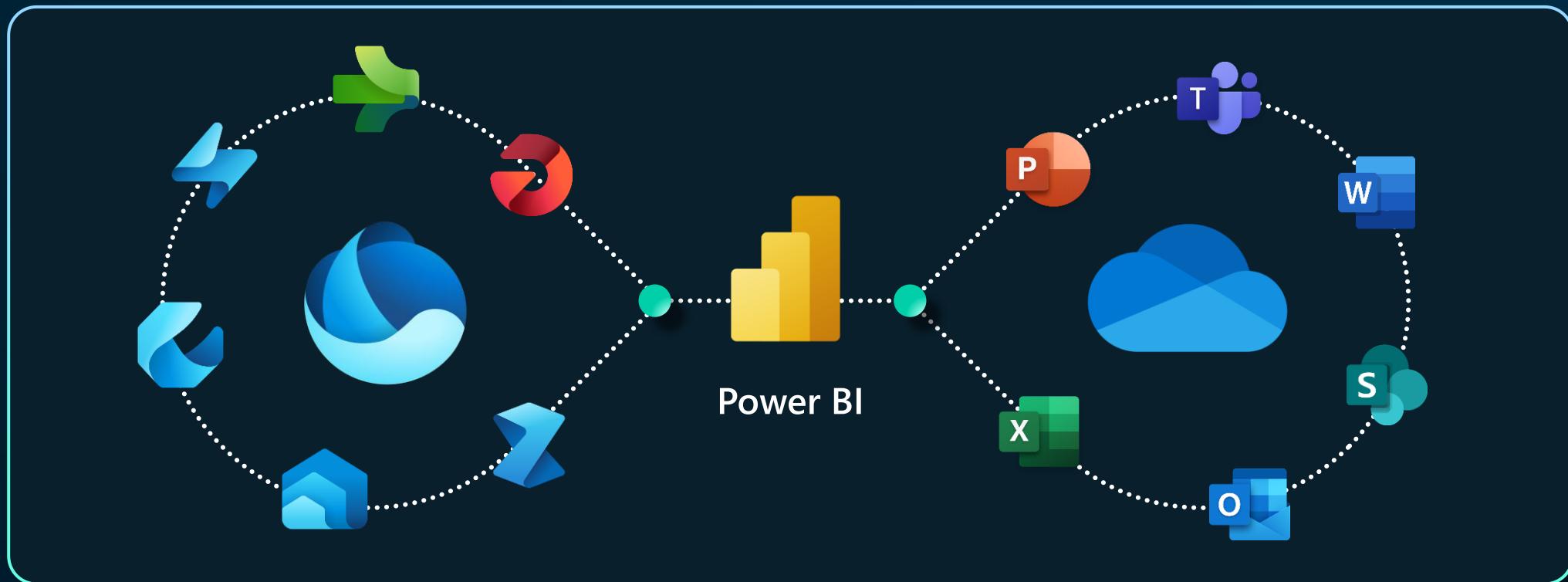


Future of AI Skills



Power BI

Unified data culture



Demo



New visuals + Path layer
for Azure Map visual

Demo



Metric sets

Demo



Define new measure
in DAX view

Demo



TMDL in VSCode

Demo



Org apps

Demo



Write-back
(coming soon)



Real-Time Intelligence

New Fabric events

Public preview

The screenshot shows the Infinite services Power BI interface. On the left, there's a sidebar with various navigation options like Home, Create, Browse, OneLake, Apps, Metrics, Monitor, Real-Time, Workspaces, and Workspace Monitoring. The main area displays 'OneLake events' with a description: 'Events produced by actions on files or folders in OneLake, such as file created, deleted, or renamed.' It includes a 'Set alert' button and a 'Stay on top of your OneLake events' section with a 'Preview' link and a 'Set alert' button. Below this, there's a table titled 'See what's using this category' with two rows:

Name	Type	Workspace	Source
LoadFilesActivator	Activator	Workspac...	DemoLak...
LoadFilesActivator	Activator	Workspac...	DemoLak...

To the right, a large modal window titled 'Fabric OnEvent' is open. It has sections for 'Monitor', 'Source' (with a 'Select events' dropdown), 'Schemas' (listing multiple Microsoft services), 'Condition' (set to 'On each event'), 'Action' (with three options: 'Send me an email', 'Message me in Teams', and 'Run a Fabric item' which is selected), 'Workspace' (showing 'Workspace Monitoring Demo'), 'Item' (showing 'Load New Files'), and 'Fabric job' (showing 'Run Notebook'). At the bottom, there's a 'Save location' section and a 'Workspace' dropdown.

Fire actions on Fabric OneLake events

Run Fabric items as a reaction to events

Automate file loading and management

Demo



Set alert with Activator

Resources

- [Microsoft Ignite 2024 Book of News](#)
- [Accelerate app innovation with an AI-powered data platform | Microsoft Fabric Blog](#)
- [Microsoft Fabric: what's new and what's next | BRK204](#)
- [Fabric November 2024 Feature Summary | Microsoft Fabric Blog | Microsoft Fabric](#)
- [Announcing SQL database in Microsoft Fabric Public Preview | Microsoft Fabric Blog](#)

Fabric community resources

Learn more about Fabric and join the community

Community Call to Action

- ✓ Try Microsoft Fabric for free: <https://aka.ms/try-fabric>
- ✓ Join the Fabric community: <https://aka.ms/fabriccommunity>
- ✓ Share and vote for ideas to improve Fabric: <https://aka.ms/fabricideas>
- ✓ Read and comment Fabric Updates blog: <https://aka.ms/fabricblog>

Learn more about Microsoft Fabric

- Product website: <https://aka.ms/microsoft-fabric>
- Documentation: <https://aka.ms/fabric-docs>
- Microsoft Learn: <https://aka.ms/learn-fabric>
- End-to-end scenario tutorials: <https://aka.ms/fabric-tutorials>
- Fabric community on Reddit: <https://www.reddit.com/r/MicrosoftFabric>

