

Microsoft Fabric Analyst in a day!



Erkenntnisse gewinnen mit Microsoft Fabric – Datenanalyse an einem Tag



[Kay Schneutzer](#)
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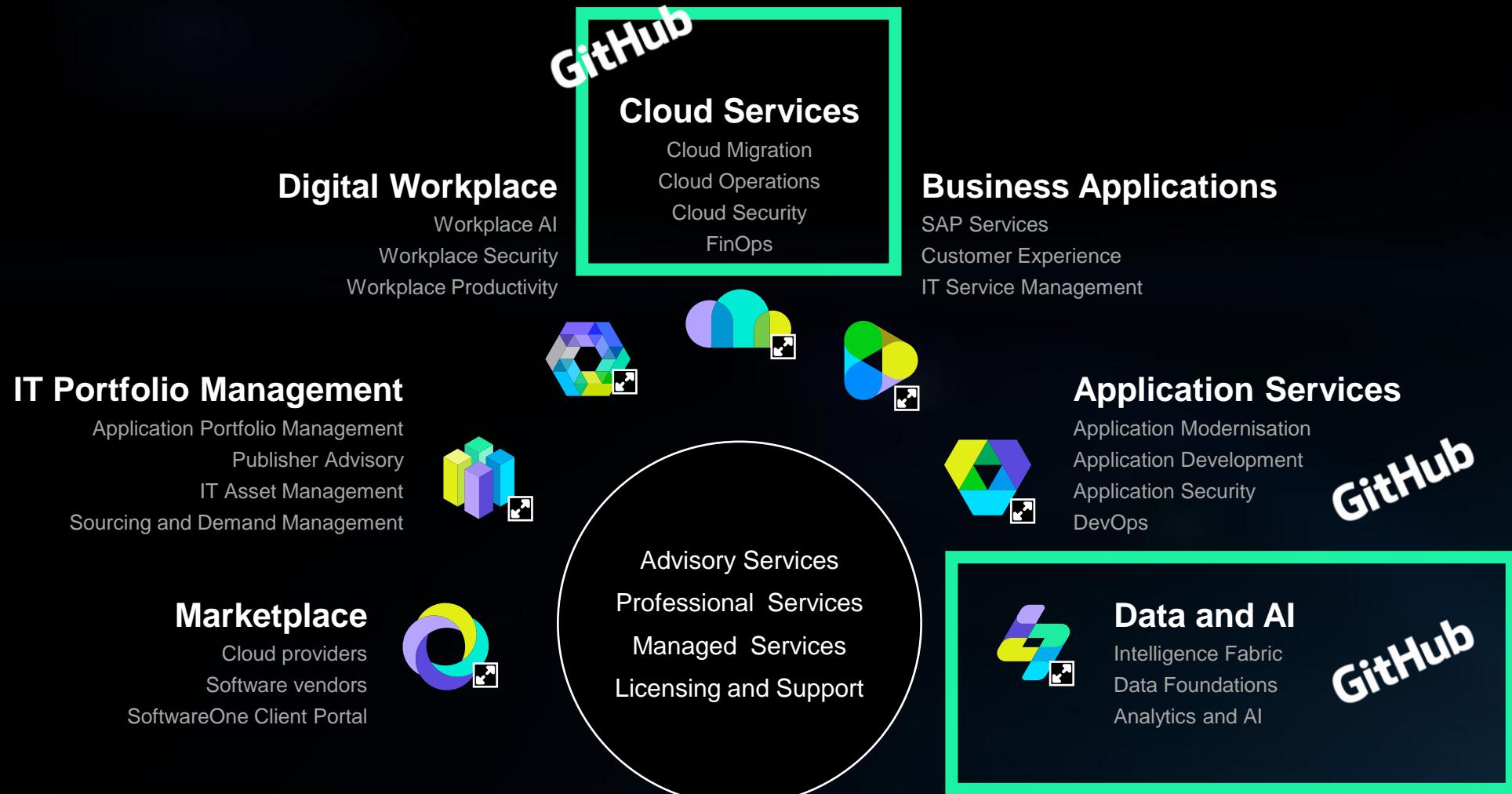


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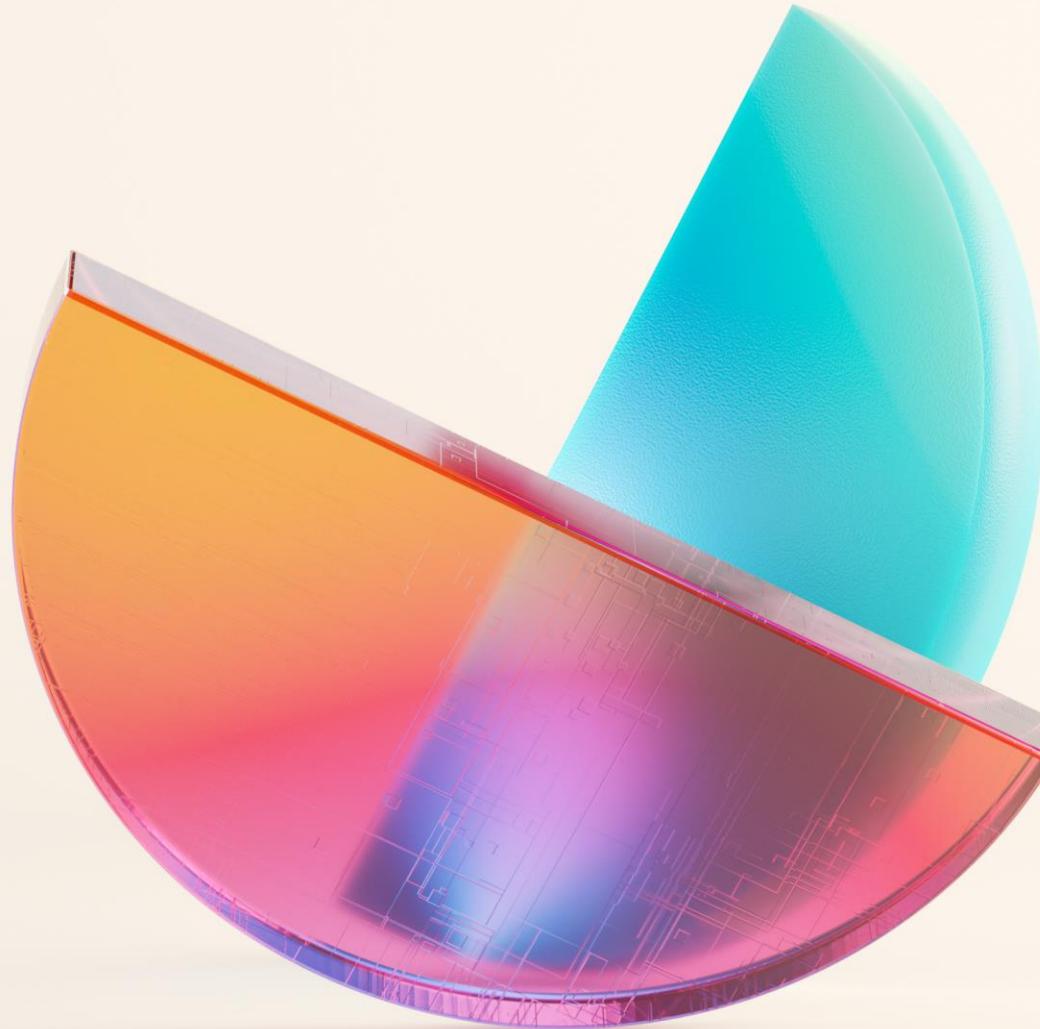
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Microsoft Fabric

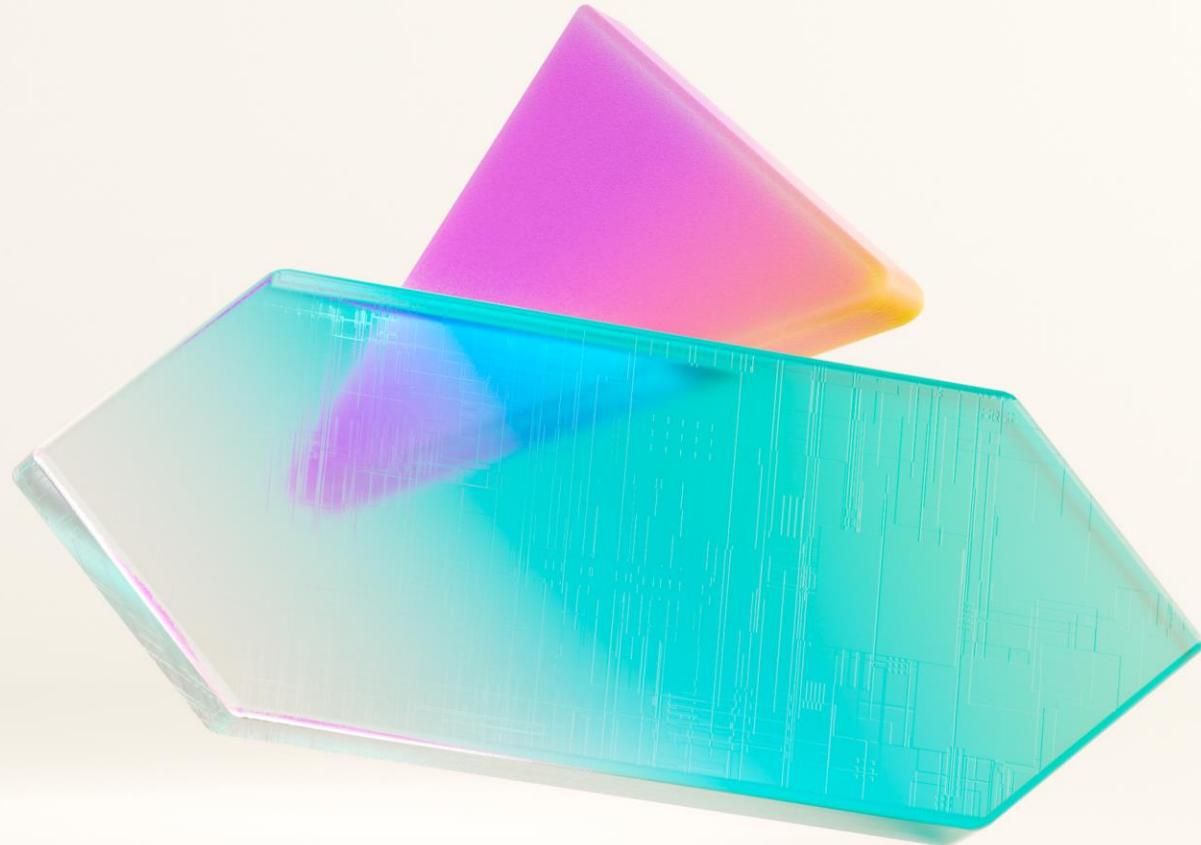
Fabric Analyst in a Day



Andre Barthel
SoftwareOne

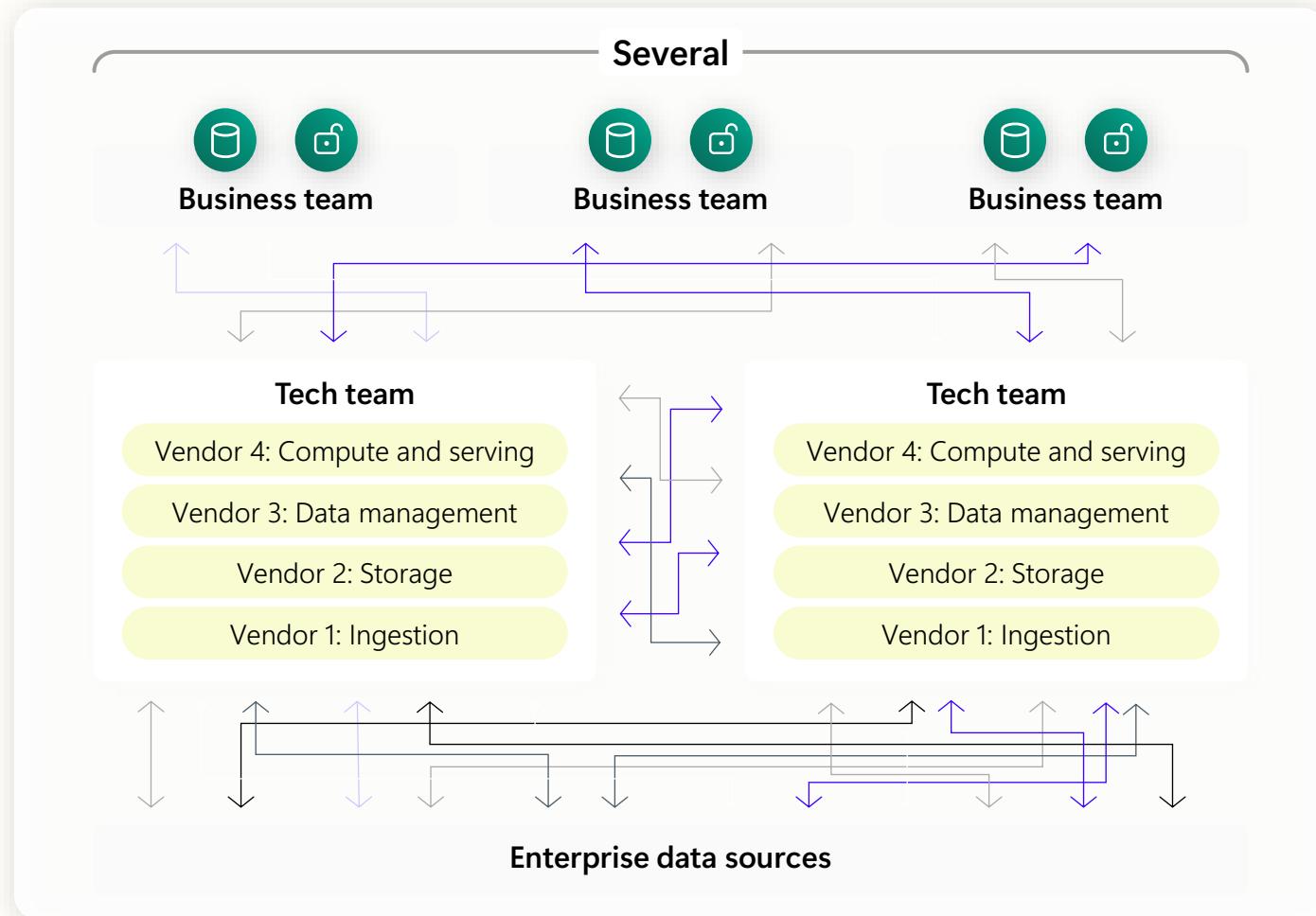
Morning	Presentation	Labs
09:00 AM – 10:00 AM	Introducing Microsoft Fabric	
10:30 AM – 10:45 AM	Break	
10:45 AM – 11:00 AM	Data Engineering	Lab 2 – Fabric Workspace
11:00 AM – 12:00 PM	Data Factory	Lab 3 – Introduction to Lakehouse Shortcut – Part 1
12:00 PM – 12:45 PM	Break for Lunch	
Afternoon	Presentation	Labs
12:45 PM – 01:45 PM	Data Lake	Lab 4 – Data Factory Experience – Part 2
01:45 PM – 02:45 PM	Data Warehouse	Lab 5 – Data Factory Experience – Part 3
02:45 PM – 03:00 PM	Break	
03:00 PM – 04:00 PM	Power BI	Lab 6 – Data Engineering Experience
04:00 PM – 04:30 PM	Forecast Model Demo	Lab 7 – Power BI Experience
04:30 PM – 04:45 PM	Data Activator Demo	Lab 7 – Clean Up
04:45 PM – 05:00 PM	Next steps and resources	

Title Slides

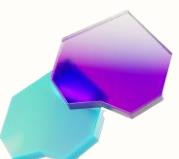


The starting line

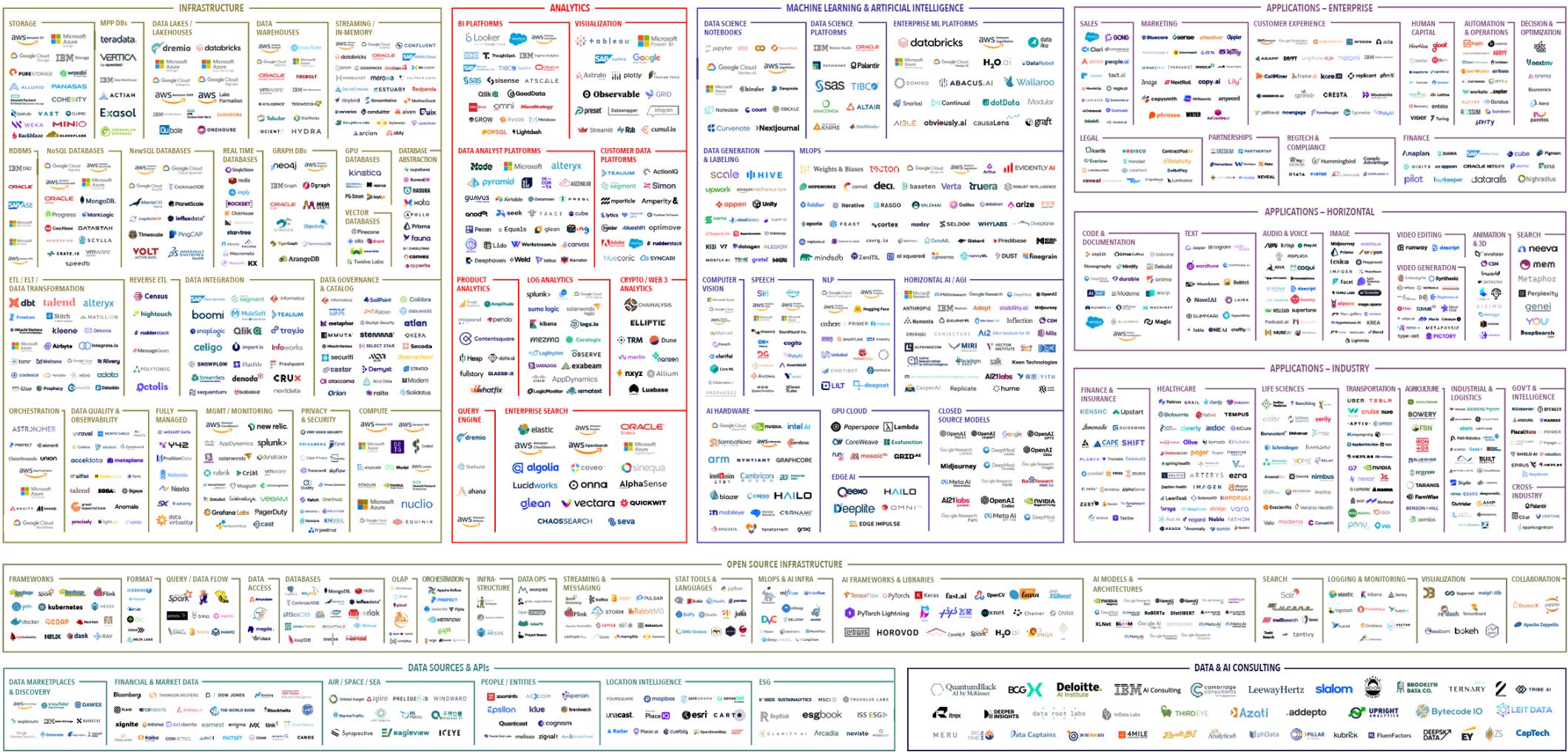
A complex, organically evolved data estate



- 1 Data copies and infrastructure inefficiencies
- 2 Limited interoperability between vendor services
- 3 Data exposure risks



Customers enhancing their data estate face immense complexity



Version 1.0 - Feb 2023

© Matt Turck (@mattturck), Kevin Zhang (@kevinzhang) & FirstMark (@firstmarkcap)

Blog post: mattturck.com/MAD2023

Interactive version: MAD.firstmarkcap.com

Comments? Email MAD2023@firstmarkcap.com

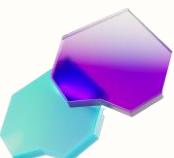
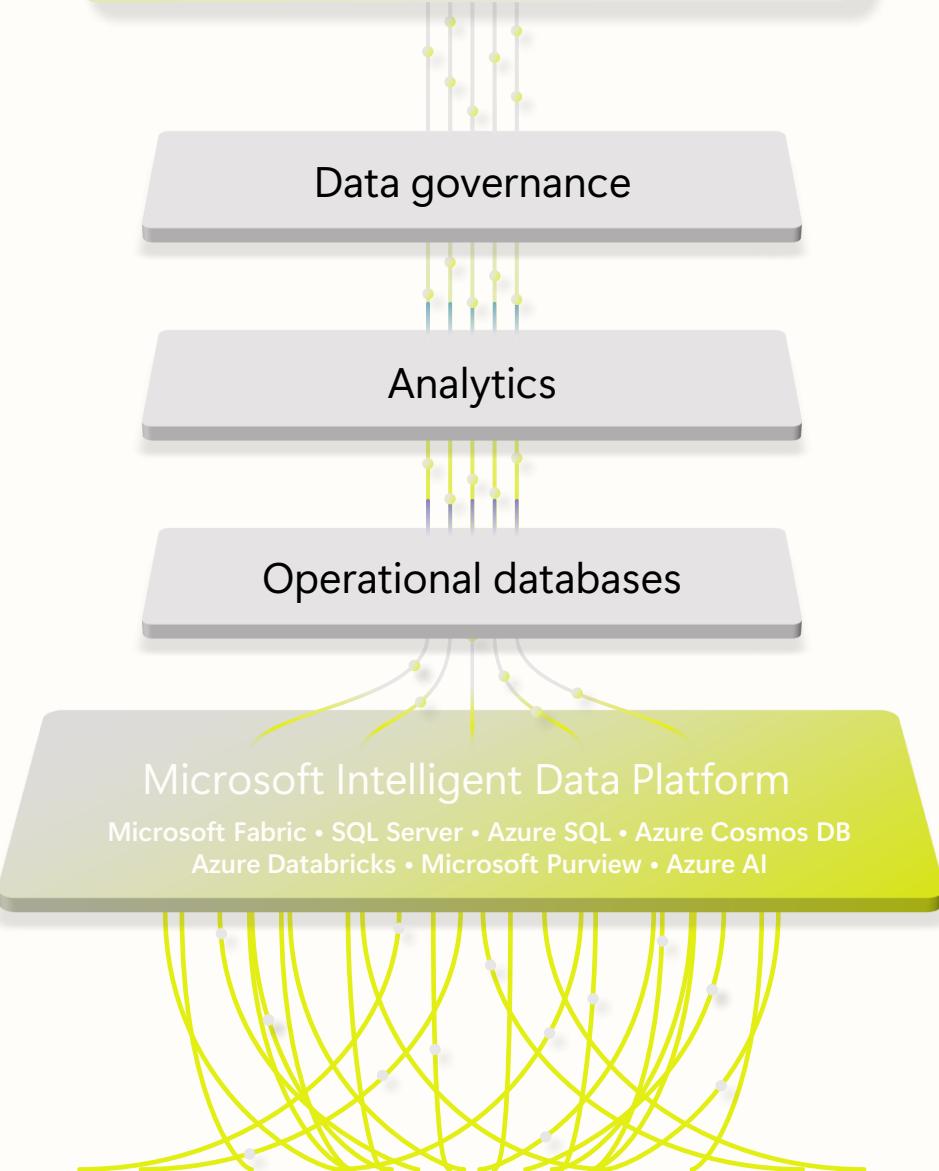
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Microsoft Cloud

Dynamics 365 • Microsoft 365
Power Platform





Microsoft Fabric

The data platform for the era of AI

Multiple analytics services

» Unified stack

Disconnected data sources

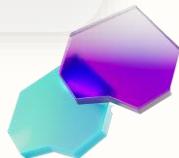
» All the data in one place

Isolated application

» Entire estate

Gen AI bolt on

» Gen AI built in





Data
Factory



Real-Time
Intelligence



Databases



Analytics



Industry
Solutions



Power BI



Partner
solutions



Copilot in Fabric

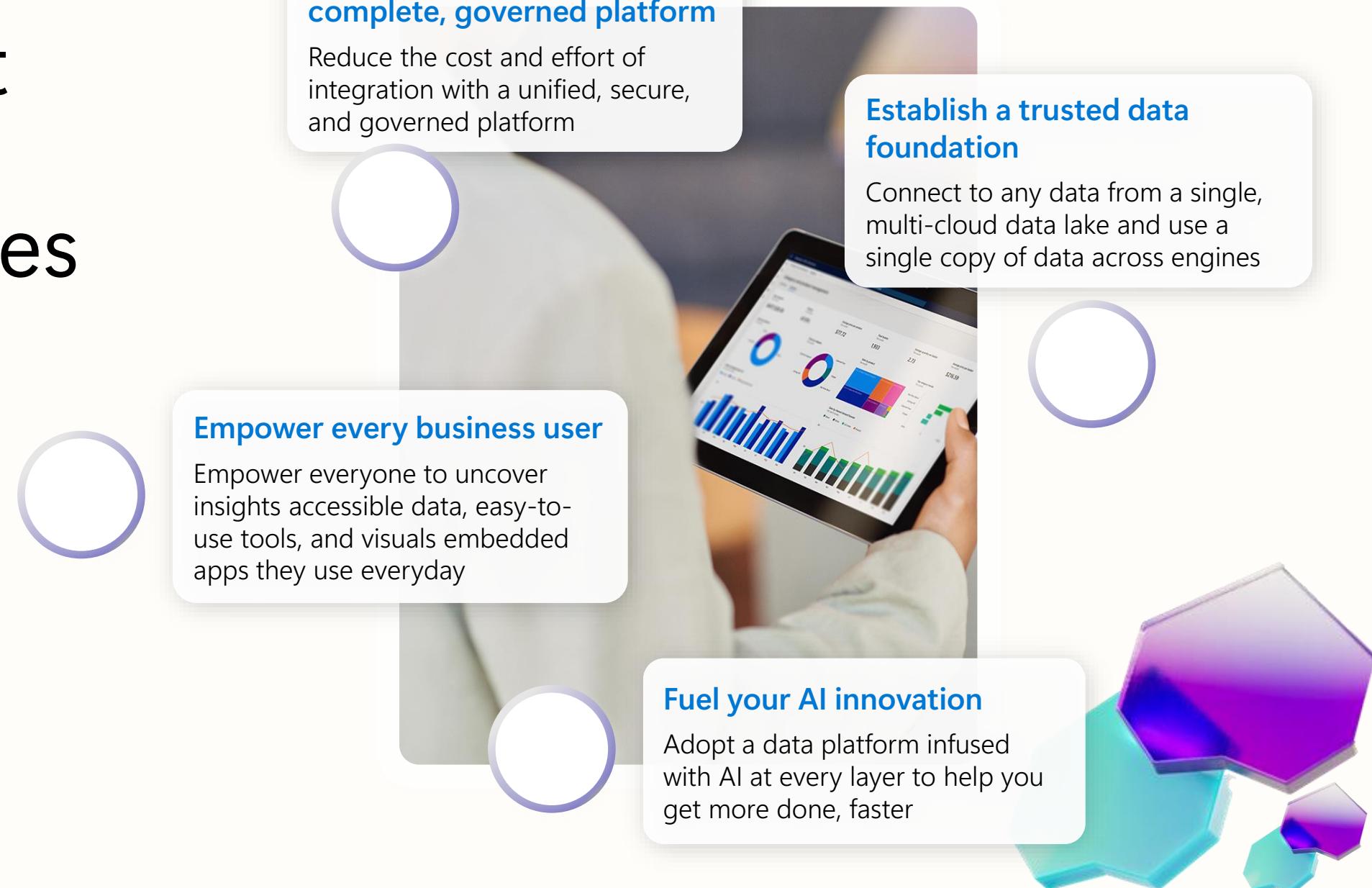


OneLake



Microsoft Purview

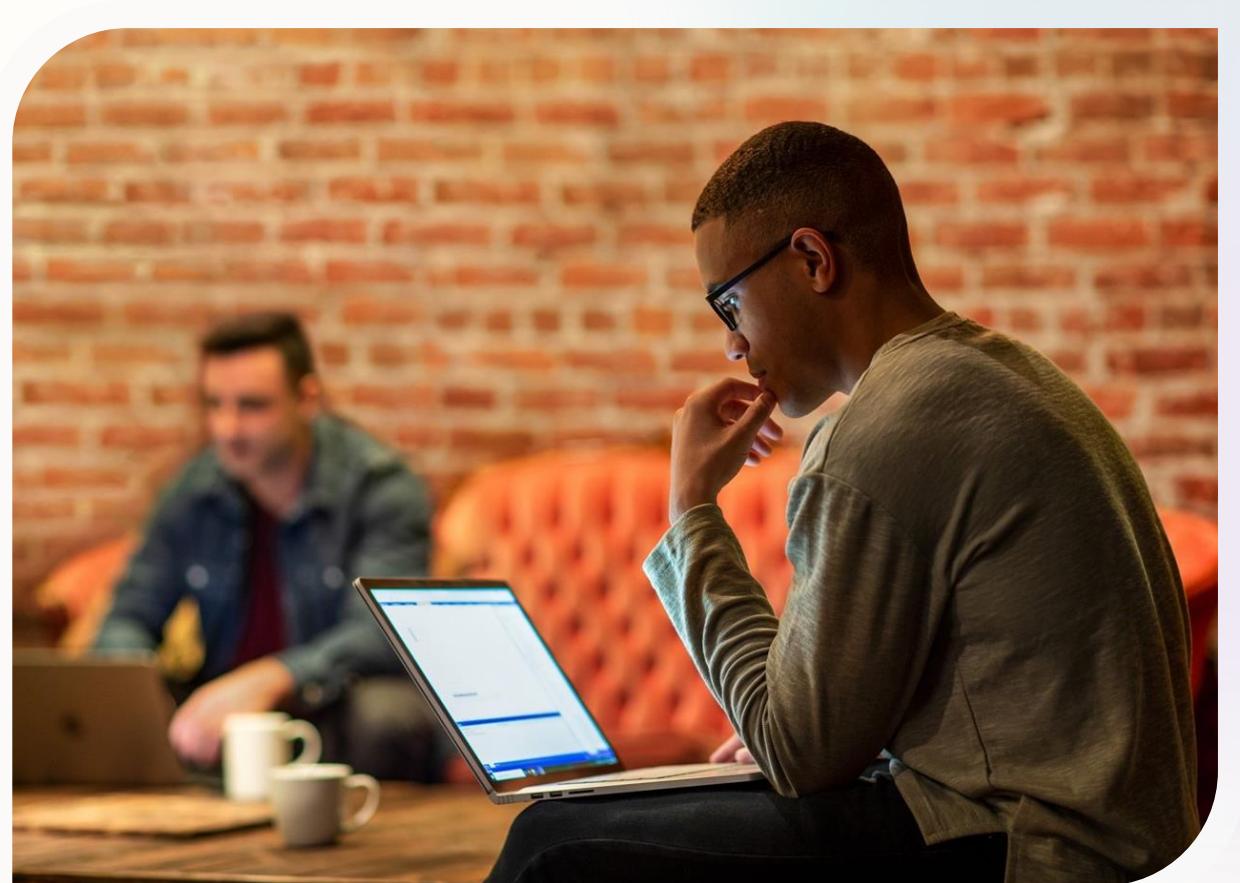
Microsoft Fabric Capabilities



Unify your analytics on a complete platform

Give your data teams all the tools they need in a unified, governed, and secure experience that reduces the cost and effort of integration

- Empower data engineers, data scientists, analysts, and business users with role-specific tools in a SaaS platform built for collaboration
- Gain industry-leading, end-to-end security, governance, compliance, and visibility across the unified platform
- Simplify billing and reduce costs with a single pool of capacity and storage that can be used for every workload



Establish a trusted data foundation

Integrate data from anywhere into a single, multi-cloud data lake for the entire organization, and work from the same copy of data across analytics engines

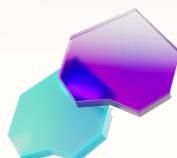
- Easily connect to data across clouds using “Shortcuts” to virtualize data in OneLake without having to move or duplicate the data
- Create, integrate, manage, and operate data lakes standardized on Delta Parquet format; the same open data format as Azure Databricks
- Intuitively organize your data in Microsoft Fabric’s data lake—OneLake—for central data discovery, sharing, governance, and compliance



Empower every business user

Empower everyone to uncover insights with the data they need, easy-to-use tools, and visuals embedded in the Microsoft 365 apps they use everyday

- Quickly go from data in a Lakehouse to insights in the hands of your business users
- Save time for analysts and provide up-to-date insights with Direct Lake mode, a blazing fast, real-time connection to your data in OneLake
- Foster a data-driven culture by seamlessly and securely embedded insights into Teams, Excel, PowerPoint, Outlook, and more with native integration



Fuel your AI innovation

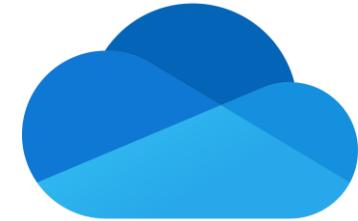
Adopt a data platform that's infused with AI at every layer to help you get more done, faster

- Use conversational language with Copilot in Fabric to create dataflows and pipelines, write SQL statements, or even build machine learning models
- Simply describe what you need—including reports, summaries, and calculations—or ask a question, and Copilot in Power BI does the rest
- Use LangChain and Semantic Kernel to develop and scale custom generative AI models—right from your Fabric Notebook
- Deliver custom generative AI experiences like tailored Q&A on your data with AI skills



OneLake for all data

“The OneDrive for data”



OneDrive



OneLake

OneLake
without you needing to build it

OneLake for all Data

“The OneDrive for Data”

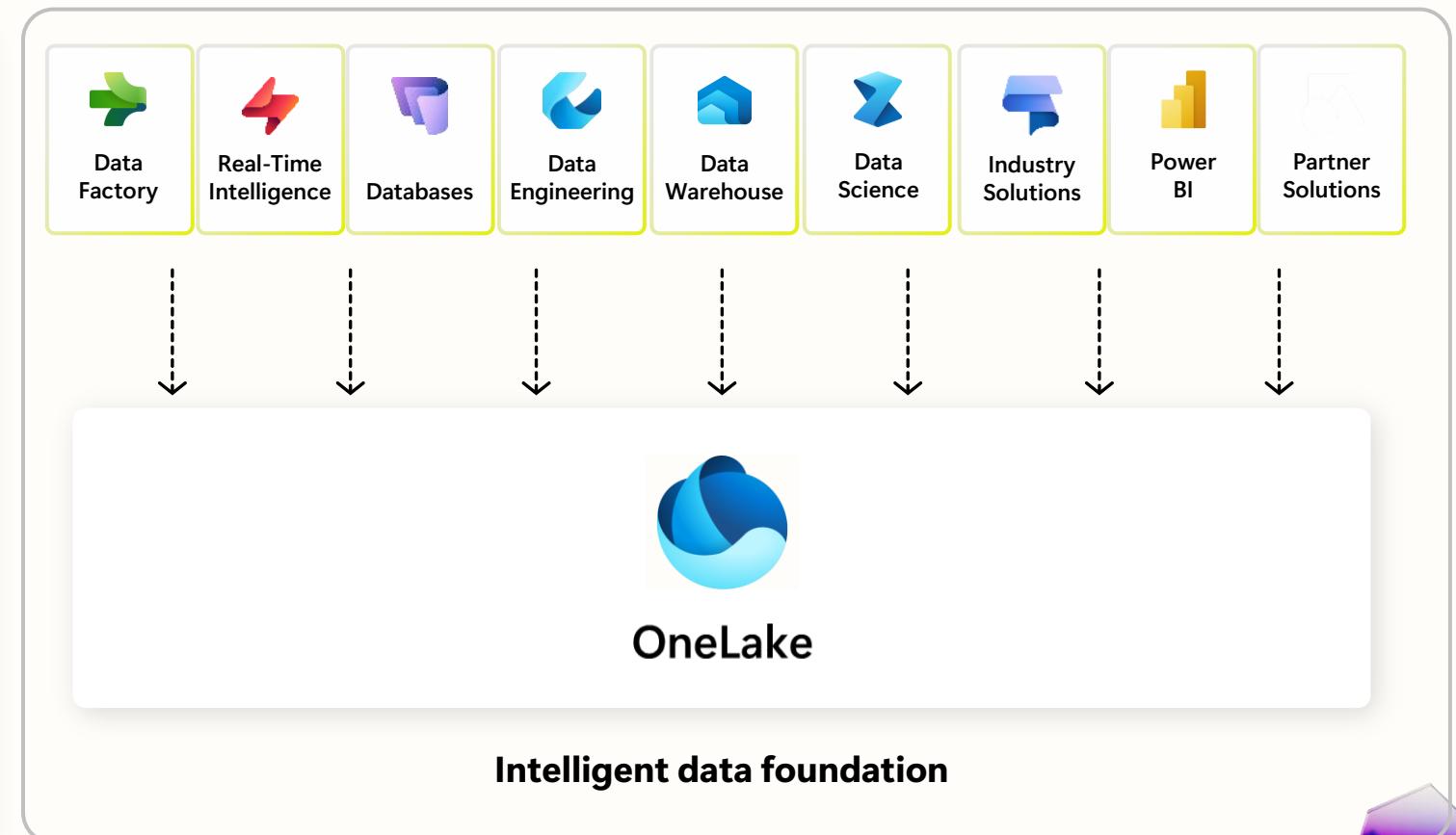
A single SaaS lake for the whole organization

Provisioned automatically with the tenant

All workloads automatically store their data in the OneLake workspace folders

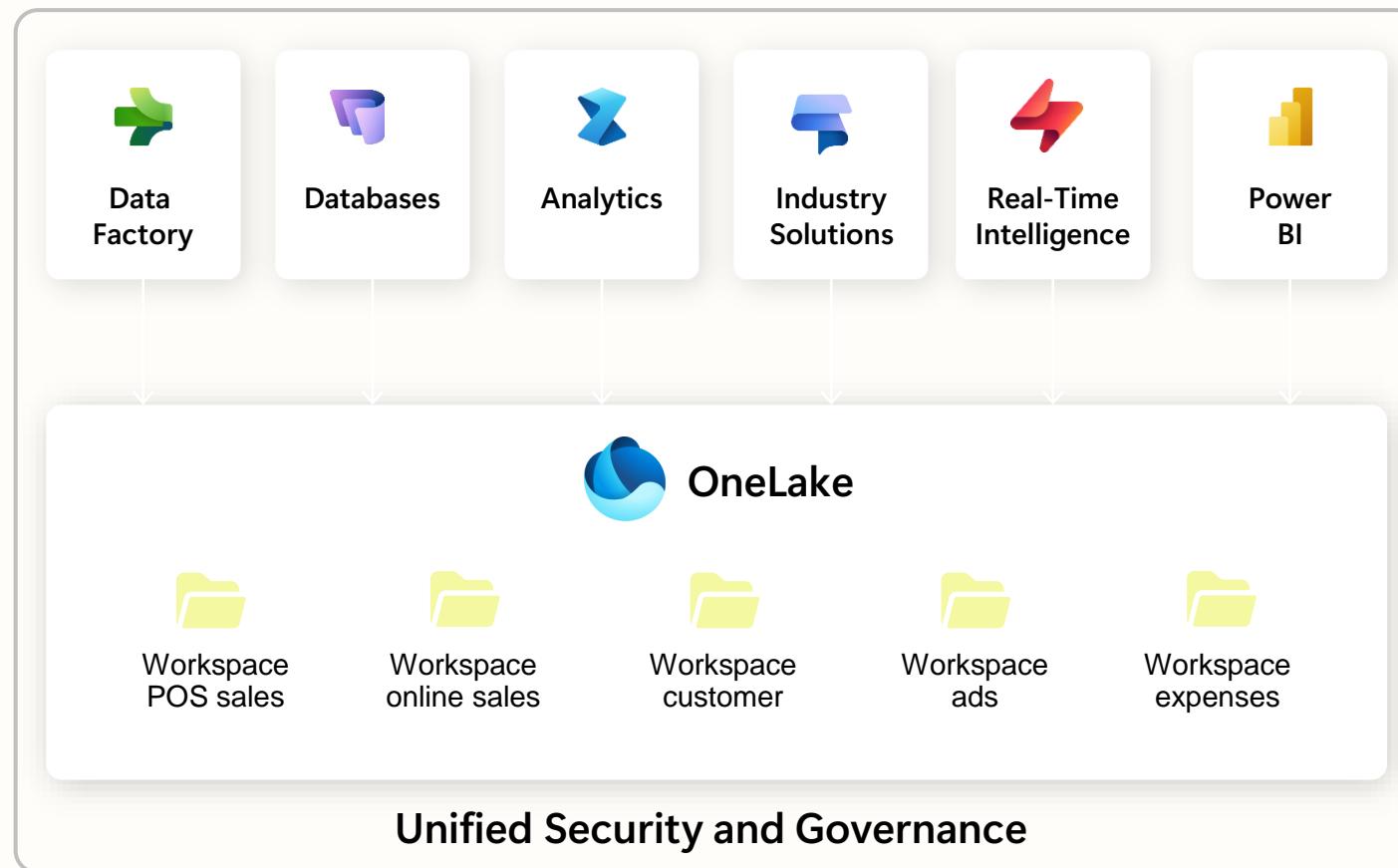
All the data is organized in an intuitive hierarchical namespace

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



A single unified SaaS data lake

“No Silos”



Provisioned automatically with the tenant.

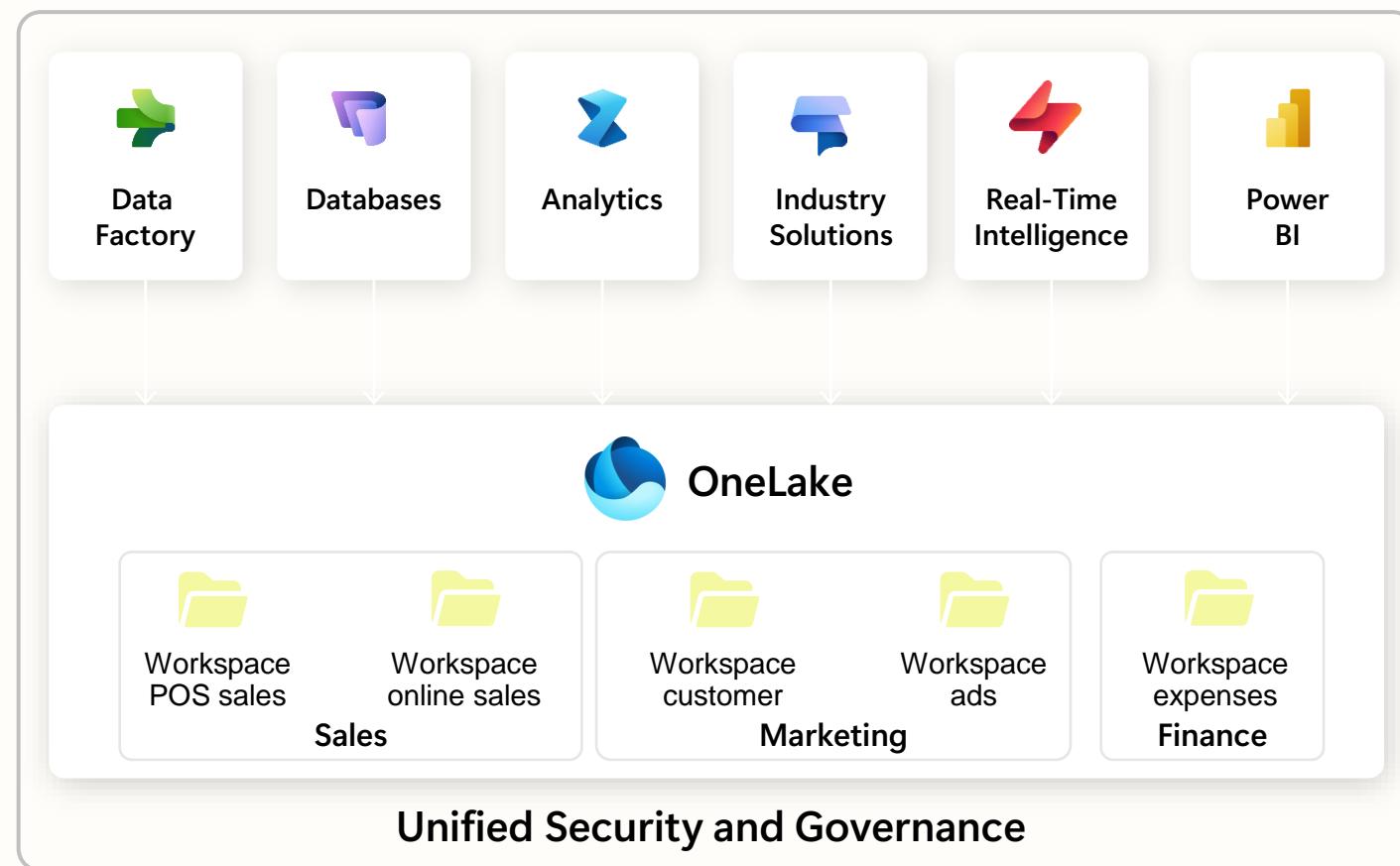
Any data in OneLake works with out-of-the-box governance such as data lineage, data protection, certification, catalog integration, etc. All data is ultimately under the control of a tenant admin.

OneLake enables distributed ownership. Different workspaces allow different parts of the organization to work independently while still contributing to the same data lake. Each workspace can have its own administrator, access control, region and capacity for billing.



OneLake for all domains

OneLake gives a true data mesh as a service



Introducing domains as an integral part of Fabric:
A domain is a way to logically group together all the
data in an organization relevant to an area or field,
according to business needs.

Domains are defined with domain admins and
contributors who can associate workspaces and
group them together under a relevant domain.

Federated governance can be achieved by
delegating settings to domain admins, thus allowing
them to achieve more granular control over
their business area.

Domains simplify discovery and consumption of
data across the organization, thus allowing
business optimized consumption.

Avoid data swamps by endorsing certain data as
certified or promoted, thus encouraging reuse.



OneLake which logically spans the world

To achieve data residency requirements, workspaces can reside in different regions around the world while still being part of the same data lake.

Data can reside in different regions without the overhead of managing different storage resources and without creating data silos.

OneLake provisions storage resources for each workspace to meet demand for scale (capacity, throughput and IOPS).

Underlying physical storage is virtualized away.

All storage is zone redundant by default with an option for Geo redundancy.

Unified Security and Governance



Workspace
POS sales



Workspace
online sales



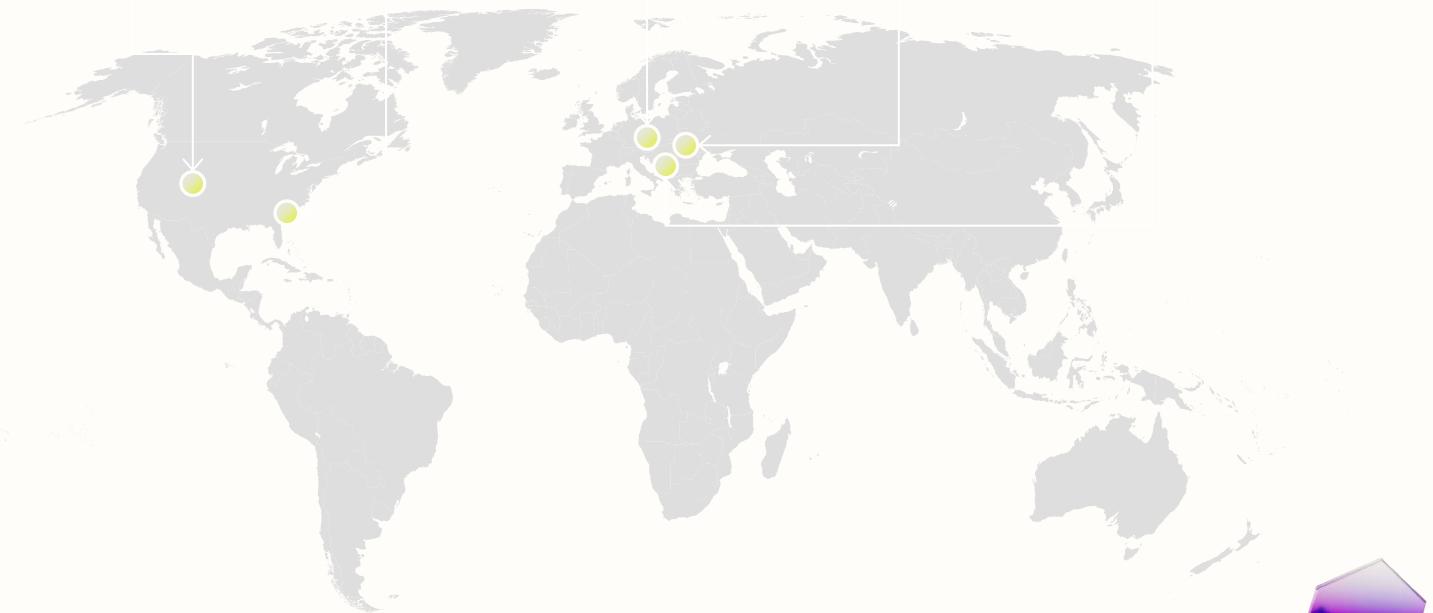
Workspace
customer



Workspace
ads

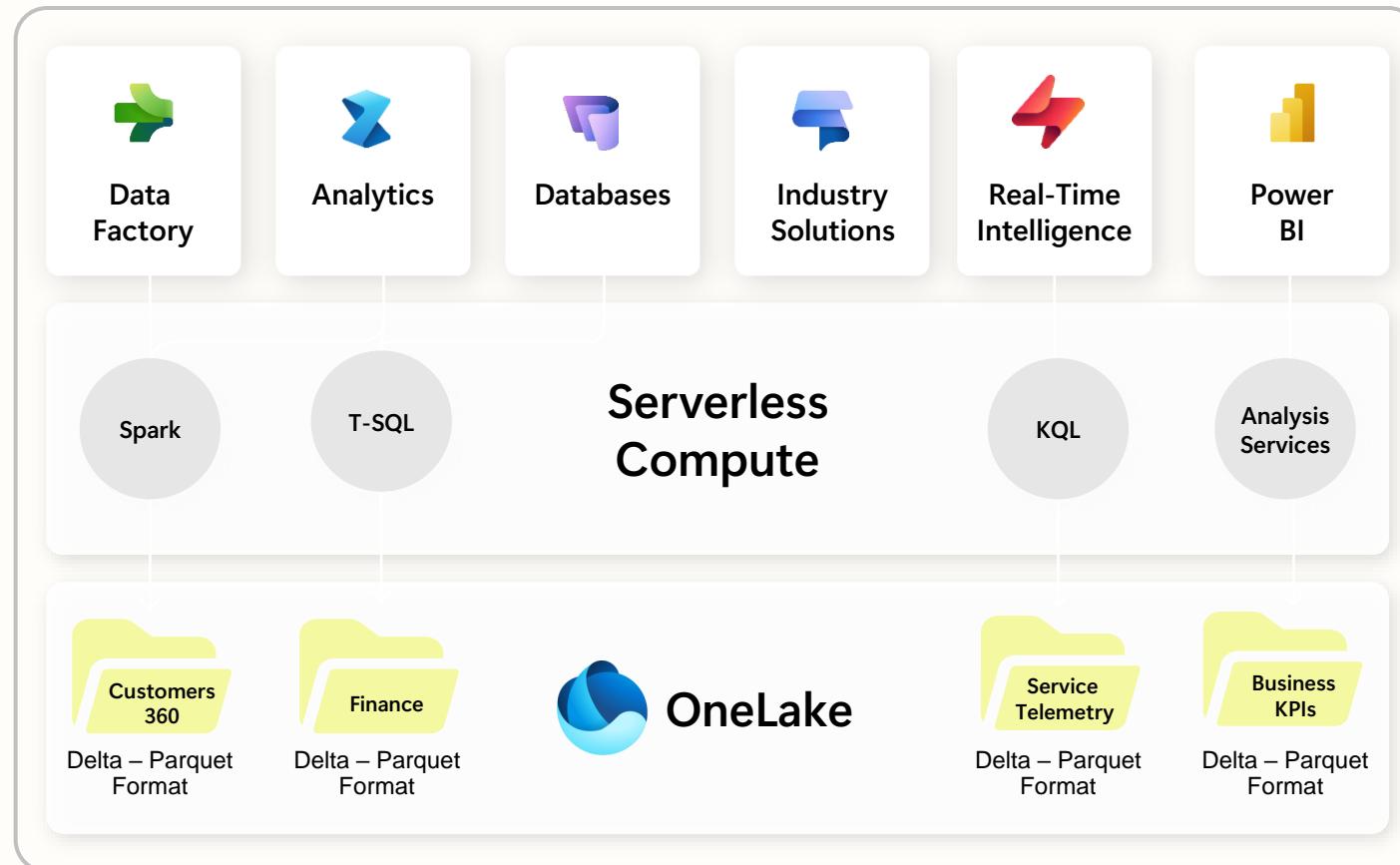


Workspace
expenses



One Copy for all computers

Real separation of compute and storage



All the compute engines store their data automatically in OneLake as data items.

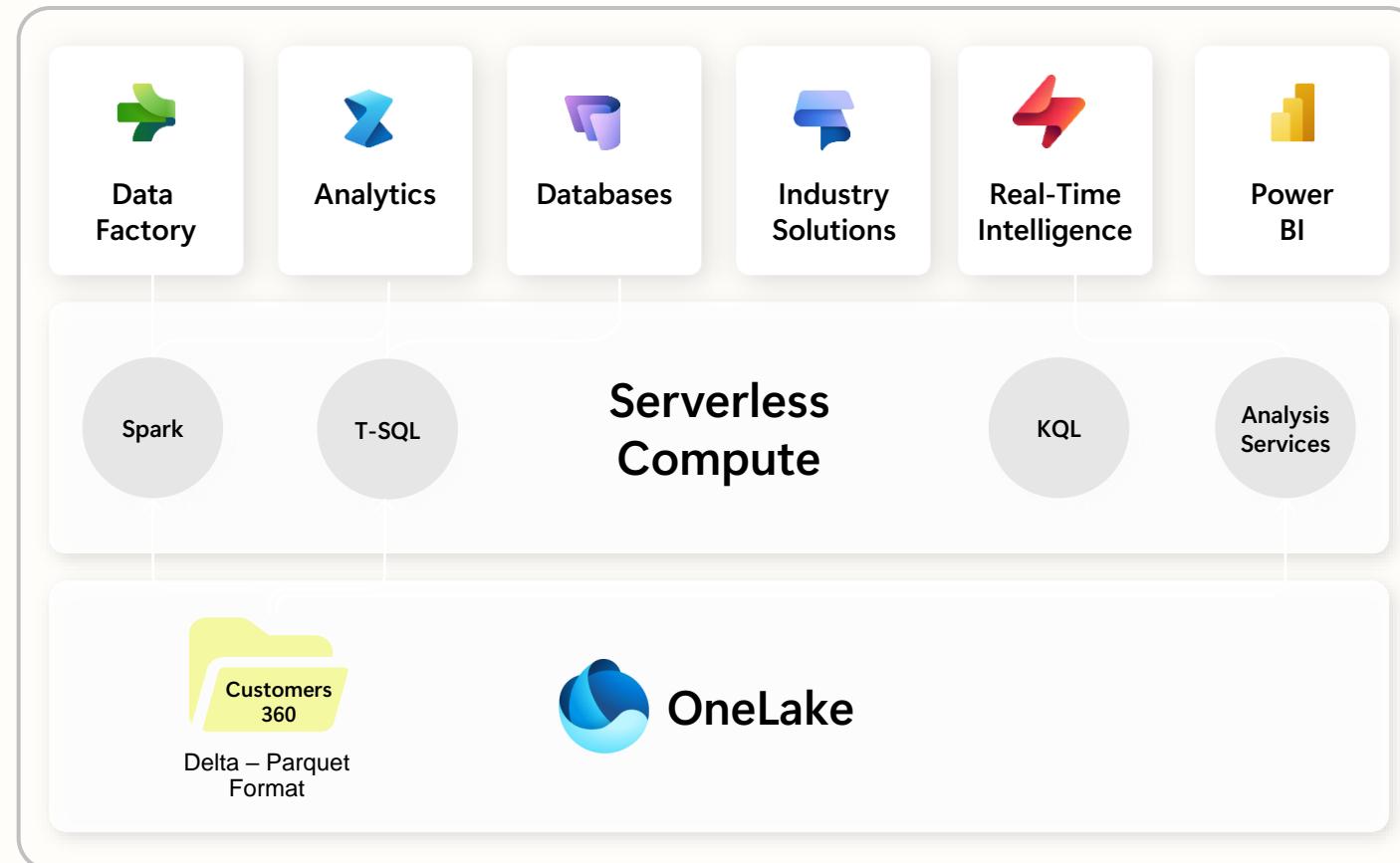
The data is stored in a single common format.

Delta – Parquet, an open standards format, and it is the storage format for all tabular data in Fabric.

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

One Copy for all computers

One copy of data can be read by all engines



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

You are able to choose the right engine for the right job.

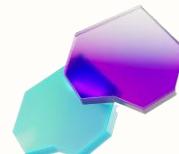
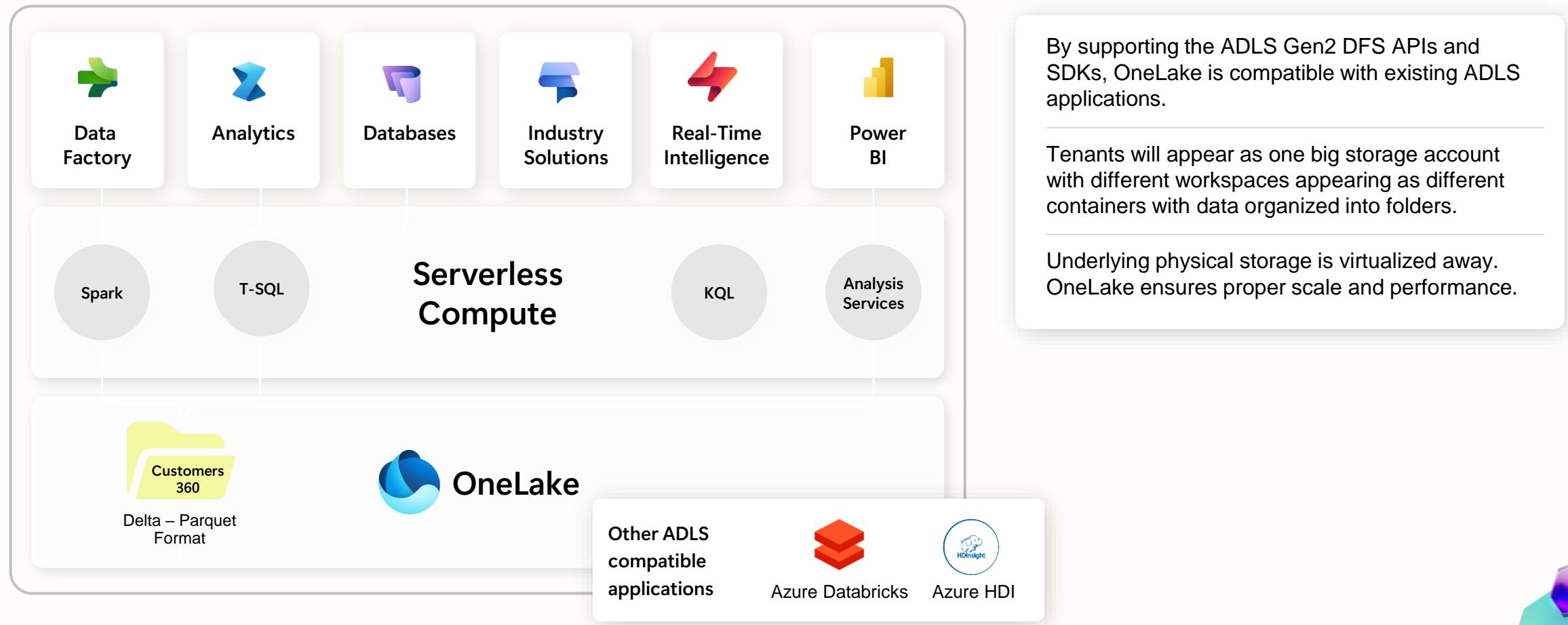
All the compute engines have been fully optimized to work with Delta Parquet as their native format.

Shared universal security model is enforced across all the engines (coming soon).



Open Access to data in OneLake

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



Customer scenario

Fabrikam, Inc. is a wholesale novelty goods distributor. As a wholesaler, Fabrikam's customers are mostly companies who resell to individuals. Fabrikam sells to retail customers across the United States including specialty stores, supermarkets, computing stores, and tourist attraction shops. Fabrikam also sells to other wholesalers via a network of agents who promote the products on Fabrikam's behalf. While all Fabrikam's customers are currently based in the United States, the company is intending to push for expansion into other countries/regions.

You are a Data Analyst in the Sales team. You collect, clean, and interpret data sets to solve business problems. You also put together visualizations like charts and graphs, write reports, and present them to the decision-makers in the organization.

To draw valuable insights from the data, you pull data from multiple systems, clean it, and mash it up together. You pull data from the following sources:

- **Sales Data:** This data comes from the ERP system and is stored in an ADLS Gen2 database or Databricks. It gets updated at noon / 12 PM every day.
- **Supplier Data:** This data comes from different suppliers and is stored in a Snowflake database. It gets updated at midnight / 12 AM every day.
- **Customer Data:** This data comes from Customer Insights and is stored in Dataverse. The data is always up to date.
- **Employee Data:** This data comes from the HR system; it is stored as an export file in a SharePoint folder. It gets updated every morning at 9 AM.



Customer scenario continued

You are currently building a semantic model on Power BI Premium that pulls the data from the above source systems order to satisfy your reporting needs as well as provide end users with the ability to self-serve. You use Power Query to update your semantic model.

You are facing the following challenges:

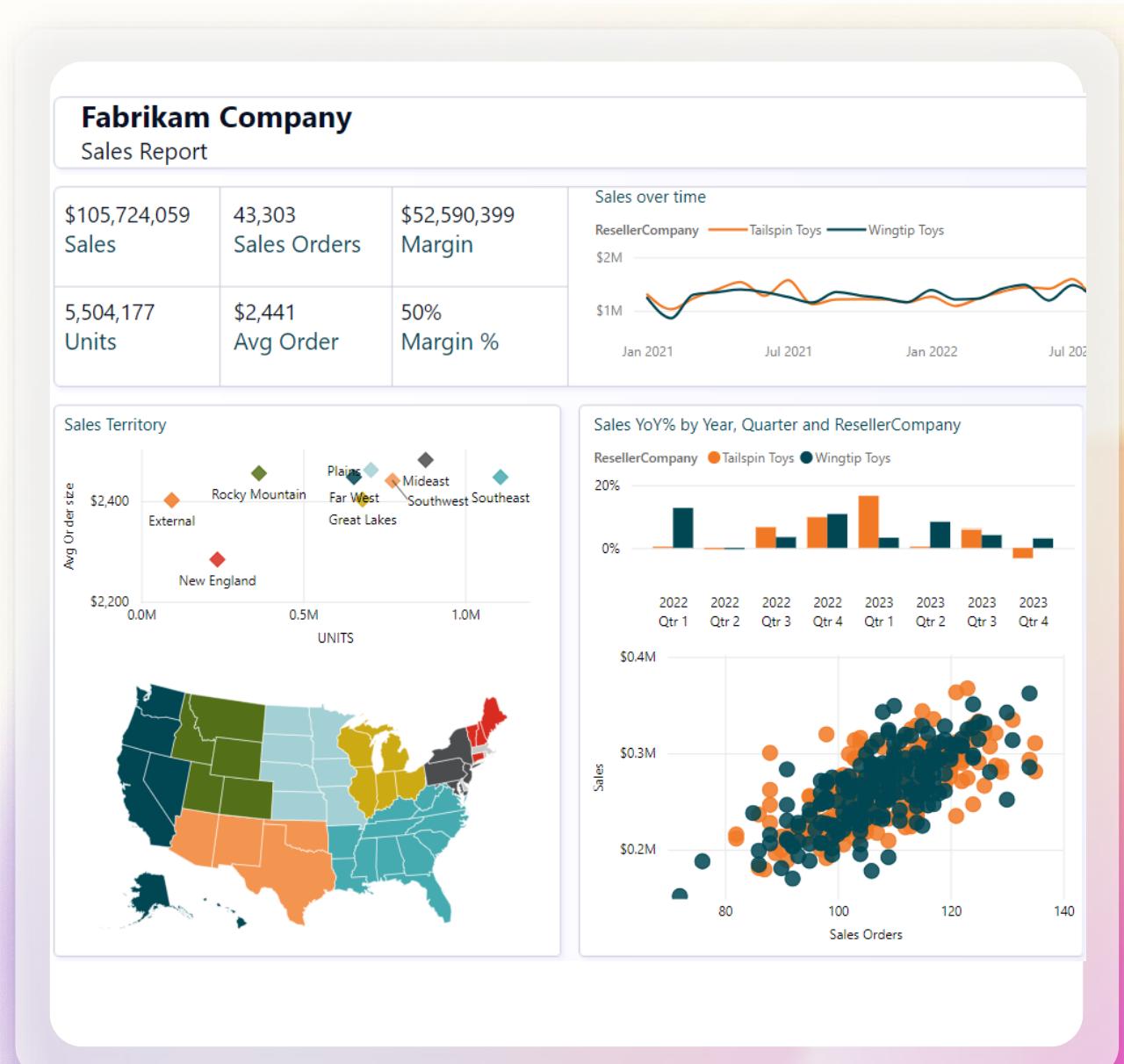
- You need to refresh your semantic model at least three times a day to accommodate the different update times for the different data sources.
- Your refreshes take a long time as you need to do a full refresh every time to capture any updates that happened to the source systems.
- Any errors in any of the data sources you are pulling from will result in your semantic model refresh breaking. A lot of times the employee file doesn't upload on time resulting in your semantic model refresh breaking.
- It takes a very long time to make any changes to your data model as Power Query takes a long time to refresh your previews, given the large data sizes and complex transformations.
- You need a Windows PC to use Power BI Desktop even though the corporate standard is Mac.
- You heard about Microsoft Fabric, and decided to try to see if it will address your challenges.



Lab 1

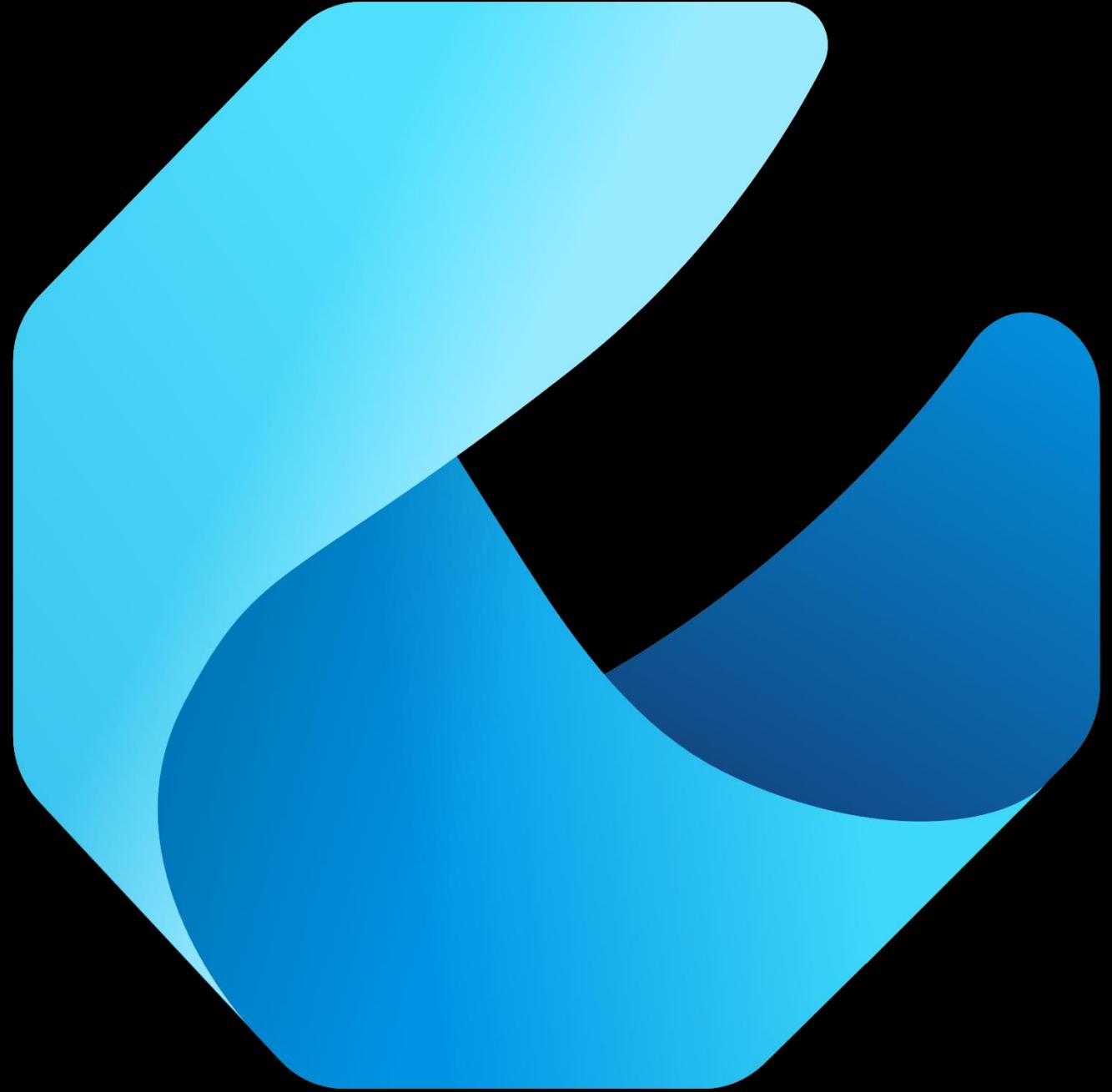
By the end of this lab, you will have learned:

- How to set up Power BI Desktop in lab environment
- How to analyze Power BI Desktop Report
- How to review Power Queries to understand the data sources



15 minute break







Lakehouse | Overview

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

Quickly and easily create a Lakehouse without having to provision and configure compute, storage and networking

Key Capabilities:

- 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
- Use 'direct lake' mode to build reports in seconds directly on top of the data lake with blazing fast performance
- Easily ingest data into the Lakehouse through a variety of methods
- Share your Lakehouse as a data product with consumers

The screenshot shows the Microsoft Fabric Explorer interface. On the left, the sidebar lists 'importerslakehouse' under 'Tables' and 'Files'. Under 'Tables', there are several tables like 'aggregate_sale_by_date_city', 'aggregate_sale_by_date_em', etc. Under 'Files', there is a folder 'wwi-raw-data' which contains a 'full' folder. Inside 'full', there are sub-folders for 'dimension_city', 'dimension_customer', 'dimension_date', 'dimension_employee', 'dimension_stock_item', and 'fact_sale'. The 'fact_sale' folder is expanded, showing a list of Parquet files named 'part-00001' through 'part-00011'. Each file entry includes the name, date modified (e.g., 4/24/2023 6:58:09 PM), type (PARQUET), and size (e.g., 22 MB). A search bar at the top right contains the text 'Search'.



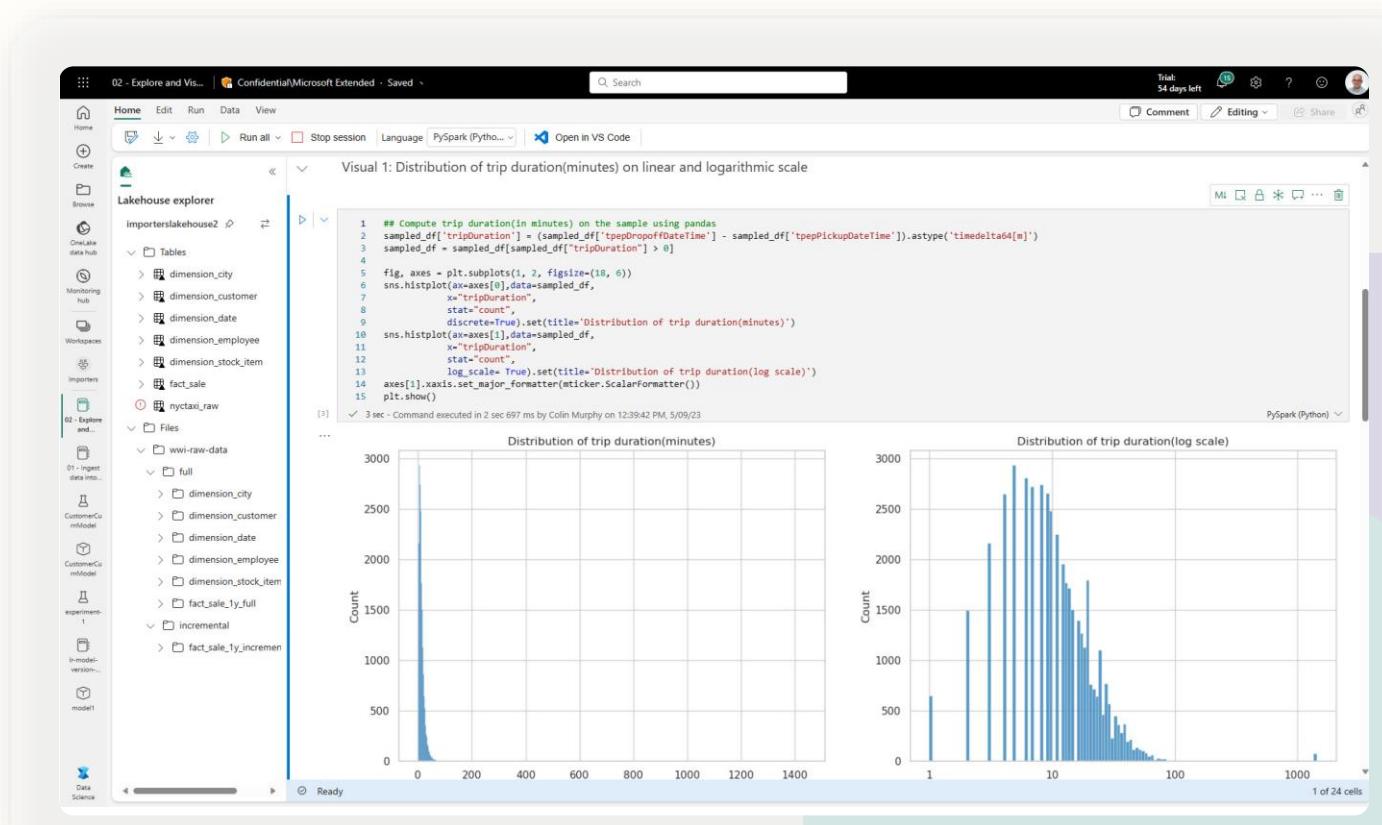
Notebook | Overview

Immersive authoring experience for data developers

Rich notebook capabilities including native Lakehouse integration, real-time collaboration with commenting support, auto-save support, lightweight scheduling and pipeline integration

Key Capabilities:

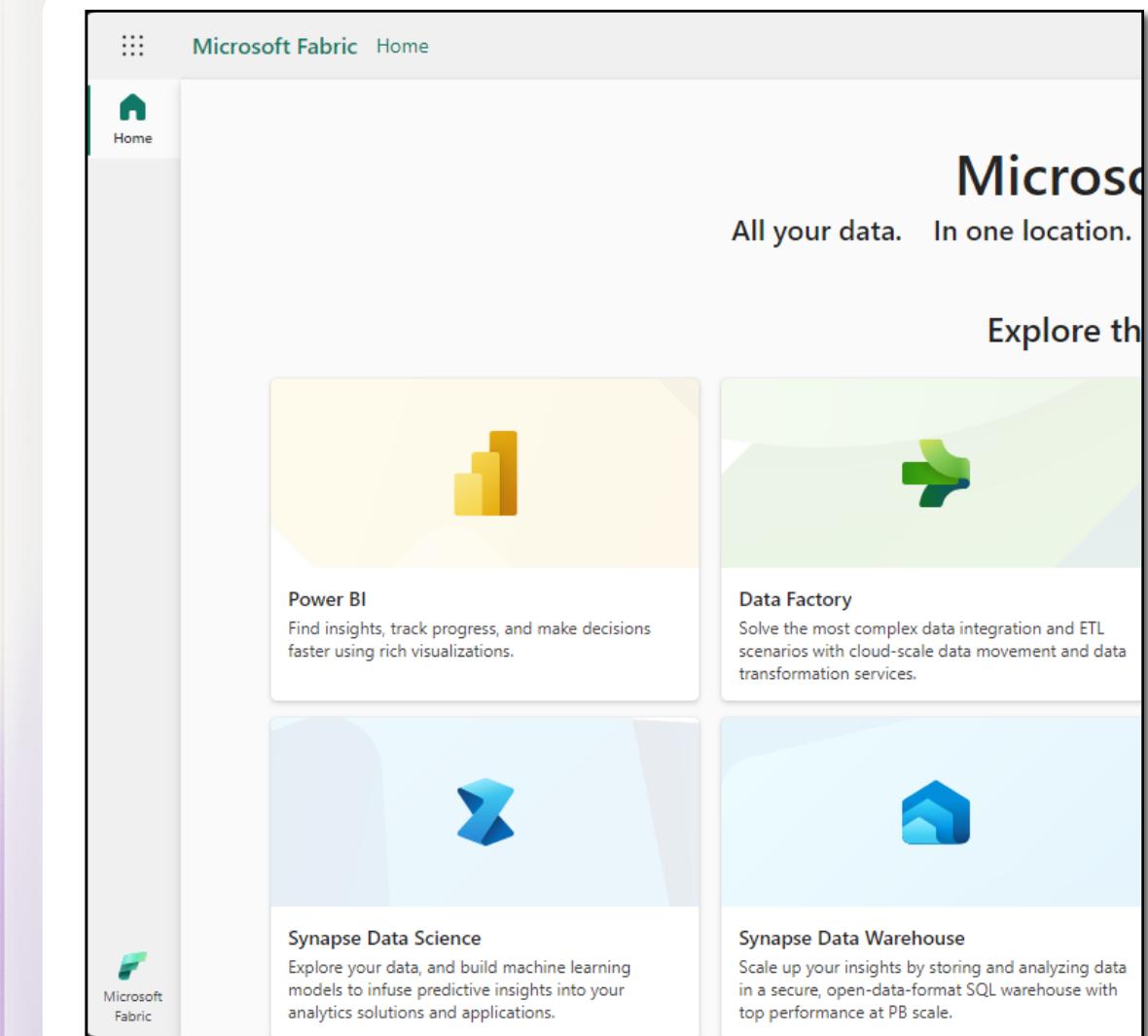
- Manage your Python and R libraries through in-line installs using commands like %pip install
- Advanced notebook development support with ability to reference notebooks in notebooks, and snapshots for easy troubleshooting
- In context monitoring complete with real time advice and error analysis
- Streamline data prep without giving up the power of reproducibility of Python



Lab 2

By the end of this lab, you will have learned:

- How to create a Fabric workspace
- How to create a Lakehouse





Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Pipelines



Connectors



Dataflows



AI



OneLake



Governance

Fabric Platform



Data Pipelines

Data Pipelines enable powerful workflow capabilities at cloud-scale like building complex workflows, moving PB-size data, and defining sophisticated control flow pipelines

Data pipelines can be used to build complex ETL and data factory workflows that can perform a number of different tasks at scale. Additionally, control flow capabilities are built into pipelines so you can build workflow logic which provide loops and conditional

The screenshot shows the Microsoft Data Factory interface with a modal window titled "Copy data". The window is on the "Choose data source" step, which asks to "Select a connector. Then enter the connection information." Below this, there is a note about moving objects from a data source to a data destination, mentioning "holidays package and Wikipedia, covering 38 countries or regions from 1970 to 2099". The "Data sources" section lists various options categorized by provider: All categories, Workspace, Azure, Database, File, Generic protocol, and Services and apps. Providers listed include Amazon RDS for SQL Server, Amazon Redshift, Amazon S3, Amazon S3 Compatible File, Apache Impala, Azure Blob Storage, Azure Cosmos DB for NoSQL, Azure Data Explorer (Kusto), Azure Data Lake Storage Gen1, Azure Data Lake Storage Gen2, Azure Database for PostgreSQL, Azure Database Managed Instance, Azure Synapse Analytics, Azure Table Storage, Azure SQL Database, Data Warehouse Workspace, Dataverse, Dynamics CRM, Google Cloud Storage, Hive Database, HTTP, KQL Database, Lakehouse Workspace, Microsoft 365, OData, PostgreSQL Database, REST, SharePoint Online List, Spark, and SQL server.



Data Pipelines | Connectors

New Connectors provide a low-code interface for ingesting data from a variety of data sources

Connectors:

- Warehouse Connector; connect to existing Azure
- Lakehouse connector
- 100+ connectors in the copy activity
- Access to on-premises data
- Access protected data inside of a VNET

The screenshot shows the Microsoft Fabric Data Factory interface. On the left, there's a sidebar with icons for Home, Activities, Run, View, Create, Browse, Data Hub, Monitoring hub, Workspaces, Visual Analytics, and Data Factory. Below the sidebar, there are several pipeline items: pipeline6, pipeline5, and pipeline4. The main area is titled 'Copy data' and has a sub-tutorial: 'Build your data ingestion task to move objects from a data source to a data destination. Learn more'. It shows a preview: 'holidays package and Wikipedia, covering 38 countries or regions from 1970 to 2099'. The 'Choose data source' step is selected, with four options: 'Connect to data source', 'Choose data destination', 'Connect to data destination', and 'Review + save'. To the right is a large grid of 'Data sources' categorized under 'All categories':

- Amazon RDS for SQL Server
- Amazon Redshift Database
- Amazon S3 File
- Amazon S3 Compatible File
- Apache Impala Database
- Azure Blob Storage
- Azure Cosmos DB for NoSQL
- Azure Data Explorer (Kusto)
- Azure Data Lake Storage Gen1
- Azure Data Lake Storage Gen2
- Azure Database for PostgreSQL
- Azure SQL Database
- Azure Synapse Analytics
- Azure Table Storage
- Data Warehouse Workspace
- Dataverse Services and apps
- Dynamics CRM Services and apps
- Google Cloud Storage File
- Hive Database
- HTTP Generic protocol
- KQL Database Workspace
- Lakehouse Workspace
- Microsoft 365 Services and apps
- OData Generic protocol
- PostgreSQL Database
- REST Generic protocol, Services and apps
- SharePoint Online List Services and apps
- Snowflake Services and apps
- Spark Database
- SQL server Database

At the bottom of the 'Copy data' dialog are 'Back', 'Next', and 'Cancel' buttons.



Data Pipelines | Sample data

Sample Datasets helps new users get started quickly, building out their ELT processes using Data Pipelines

Sample datasets:

- COVID-19 Data Lake (CSV, JSON, JSON Lines, Parquet)
- NYC Tax – Green (2GB Parquet)
- Diabetes (14K Parquet)
- Public Holidays (500KB Parquet)
- Retail Data Model from Wide World Importers (352MB Parquet)

The screenshot shows the Microsoft Fabric Data Pipelines interface. A modal window titled 'Copy data' is open, specifically the 'Choose data source' step. The left sidebar lists various data sources and destinations, including 'pipeline6', 'OneLake data hub', 'Monitoring hub', 'Workspaces', 'Importers', and 'pipeline6'. The main area displays sample datasets: 'COVID-19 Data Lake' (varied per format), 'NYC Taxi - Green' (2 GB Parquet), 'Diabetes' (14 KB Parquet), 'Public Holidays' (500 KB Parquet), and 'Retail Data Model from Wide World Importers' (352 MB Parquet). Below these, a 'Data sources' section lists various Azure and AWS services like Amazon RDS, Amazon Redshift, Azure Blob Storage, etc. At the bottom of the modal are 'Back', 'Next', and 'Cancel' buttons.



Data Pipelines | Lakehouse copy assist

Simply copying data to a Lakehouse with copy assist capabilities within the Data Pipeline

Additionally, users can create a Data Pipeline without having to leave the Lakehouse portal

The screenshot shows the Microsoft Fabric Data Factory interface. A modal window titled "Copy data" is open, showing a step-by-step process:

- Step 1: Choose data source (done)
- Step 2: Connect to data source (done)
- Step 3: Choose data destination (done)
- Step 4: Connect to data destination (in progress)
- Step 5: Review + save (not yet started)

Copy Summary

Source: Retail Data Model from Wide World Importers → **Destination**: Lakehouse

Source	Destination
Sample dataset: Retail Data Model from Wide World Importers (Parquet)	Connection name: wideworldimportslakehouse
	Table name: rawdata

Options: Start data transfer immediately

Buttons: Back, OK, Cancel



Data Pipelines | Templates

Quickly get started with data integration

Template help reduce development time by providing an easy way to create pipeline for common data integration scenarios

Available Data Pipeline Templates:

- Bulk copy from Database
- Bulk copy from File to Database
- Copy data from ADLS Gen2 to Lakehouse file
- Copy from ADLS Gen2 to Lakehouse Table
- Copy data from Azure AQL DB to Lakehouse Table
- Copy multiple files containers between File Stores
- Copy new files only by Last Modified Date
- Delete files older than 30 days
- Delta copy from Database
- Move files

The screenshot shows the Microsoft Fabric Data Factory interface. On the left, there's a sidebar with icons for Home, Activities, Run, View, Create, Browse, OneLake data hub, Monitoring hub, Workspaces, Importers, and Pipelines. The main area is titled 'pipeline4' and 'Confidential/Microsoft Extended'. It has tabs for Home, Activities, Run, View, Validate, Run, Schedule, View run history, and Copy data. A search bar is at the top right. Below it is a 'Templates' section with a search bar and a 'Filter by keyword' dropdown. There are eight template cards displayed:

- Bulk Copy from Database** by Microsoft: Use this template to copy data from a database using an external control table to store the partition list of your source tables...
- Bulk Copy from Files to Database** by Microsoft: Use this template to copy data from files in Azure Data Lake Storage Gen2 to Azure SQL Database...
- Copy data from ADLS Gen2 to Lakehouse file** by Microsoft: Use this template to copy data from ADLS Gen2 to a specified file location in your Lakehouse...
- Copy data from ADLS Gen2 to Lakehouse Table** by Microsoft: Use this template to copy data from ADLS Gen2 to a specified table in your Lakehouse...
- Copy data from Azure SQL DB to Lakehouse Table** by Microsoft: Use this template to copy data from your Azure SQL database to a specified table in your Lakehouse...
- Copy multiple files containers between File Stores** by Microsoft: Use this template to leverage multiple copy activities to copy containers or folders between file based stores, where each copy...
- Copy new files only by LastModifiedDate** by Microsoft: Use this template to copy new or changed files only by using LastModifiedDate...
- Delete files older than 30 days** by Microsoft: Use this template to delete files that have been modified more than 30 days ago from storage stores...
- Delta copy from Database** by Microsoft: Use this template to copy new or updated rows only from a database using a high-watermark stored in an external control table...
- Move files** by Microsoft: Use this template to move files from one folder to another folder. The pipeline enumerates the files...

A 'Next' button is at the bottom right of the template list.



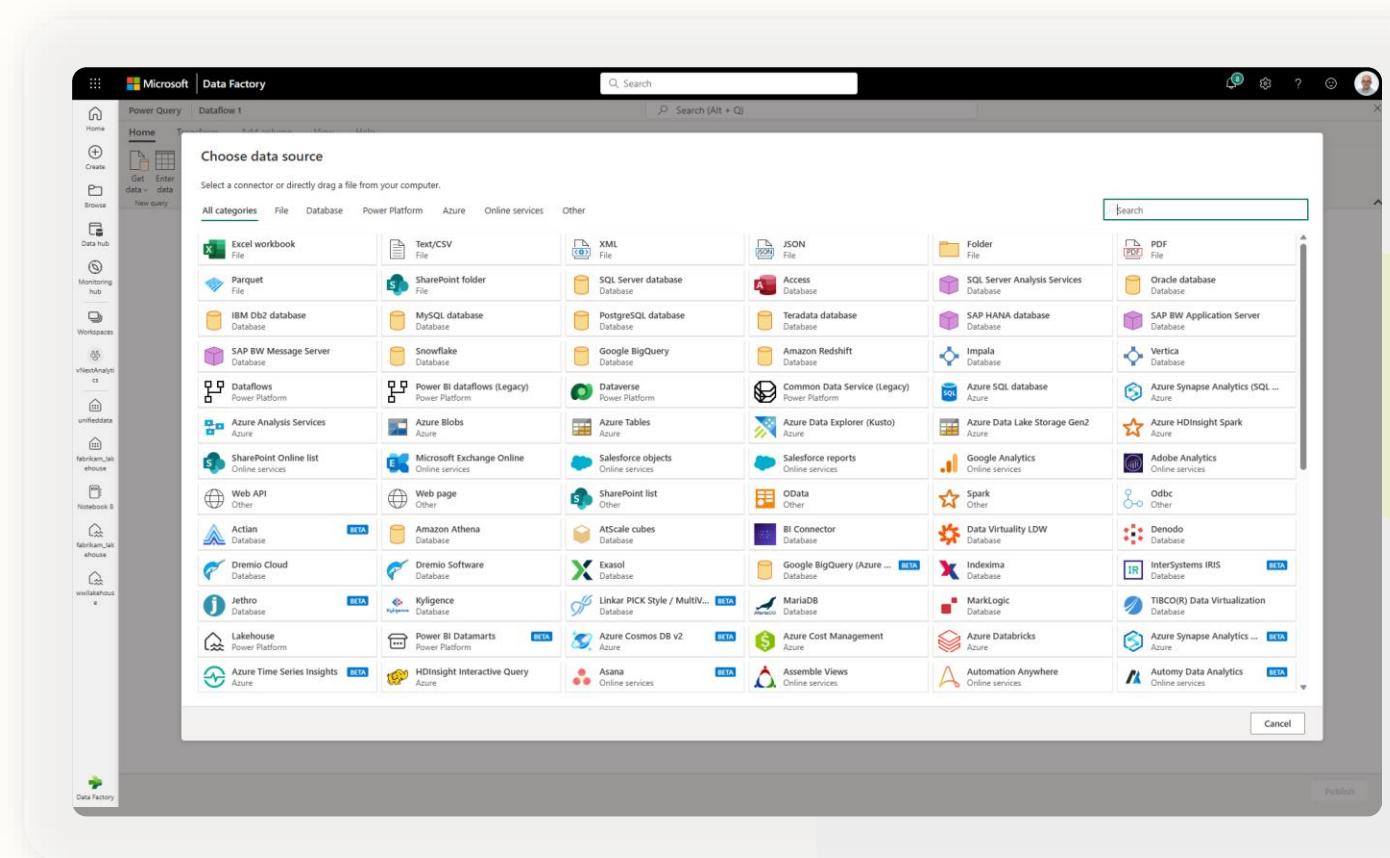
Dataflow

Dataflow provides a low-code interface for ingesting data from hundreds of data sources

Dataflow quickly and easily unify disparate data sources, establish a more collaborative analytics approach, and promote more informed, agile decision making.

Key Capabilities:

- Accelerate data transformation with code-free data flows
- Scale out using Fabric compute and Data Factory fast copy
- Load results of data transformations into multiple destinations (Azure SQL Databases, Lakehouse, etc.)





Dataflow | Output to Lakehouse

Simply write into a Lakehouse from a Dataflow

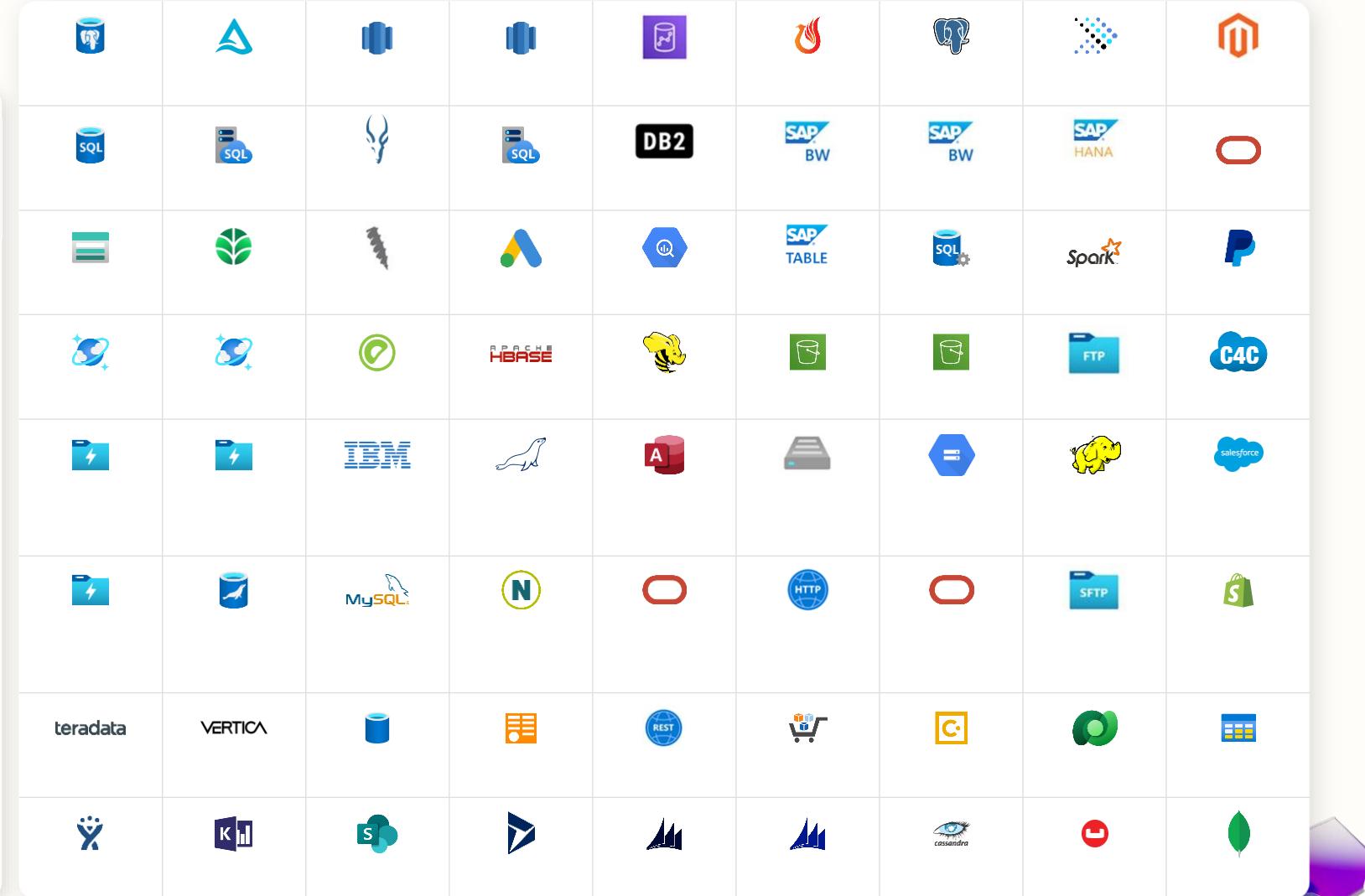
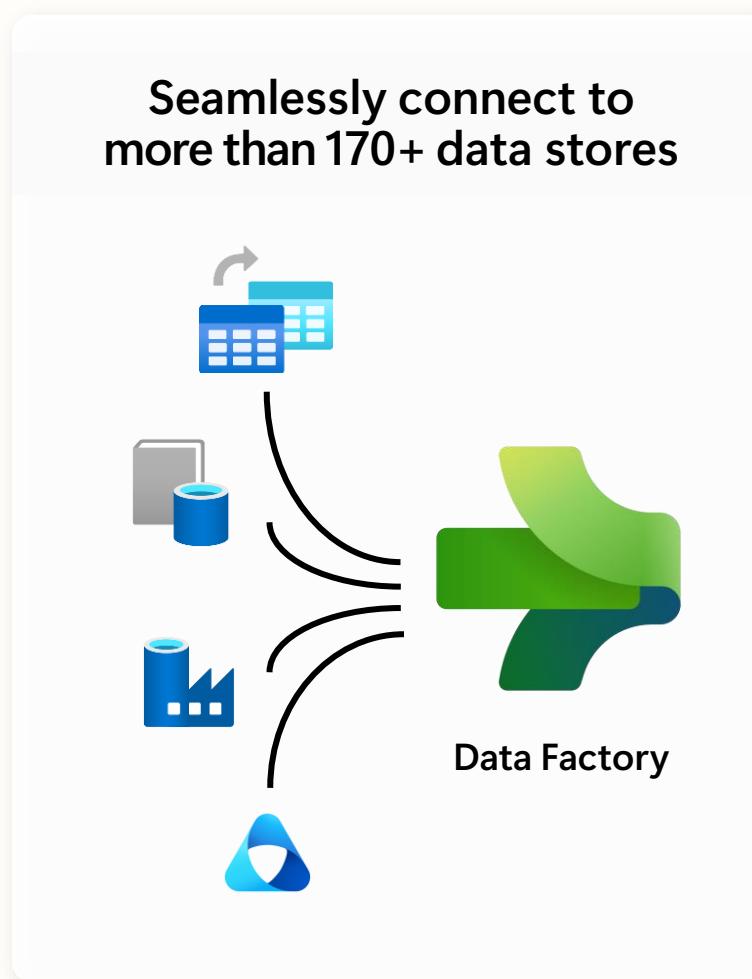
Users select the Lakehouse output destination from the list and configure the connection.

This requires the Lakehouse connector to be installed as a custom connector into your data gateway when loading data from on-premise

The screenshot shows the Microsoft Synapse Data Engineering Importers Power Query interface. In the top navigation bar, under 'Dataflow 2', there is a 'Queries [1]' section. Below it, a table titled 'dimension_customer?' is displayed with 267 rows of data. On the right side of the interface, there is a 'Data destination' dropdown menu. The 'Lakehouse' option is highlighted with a red box. The 'Query settings' pane on the right shows various configuration options, including 'Properties' (Name: dimension_customer_7, Entity type: Custom), 'Applied steps' (with three items listed), and 'Data destination' (which is currently set to 'No data destination').

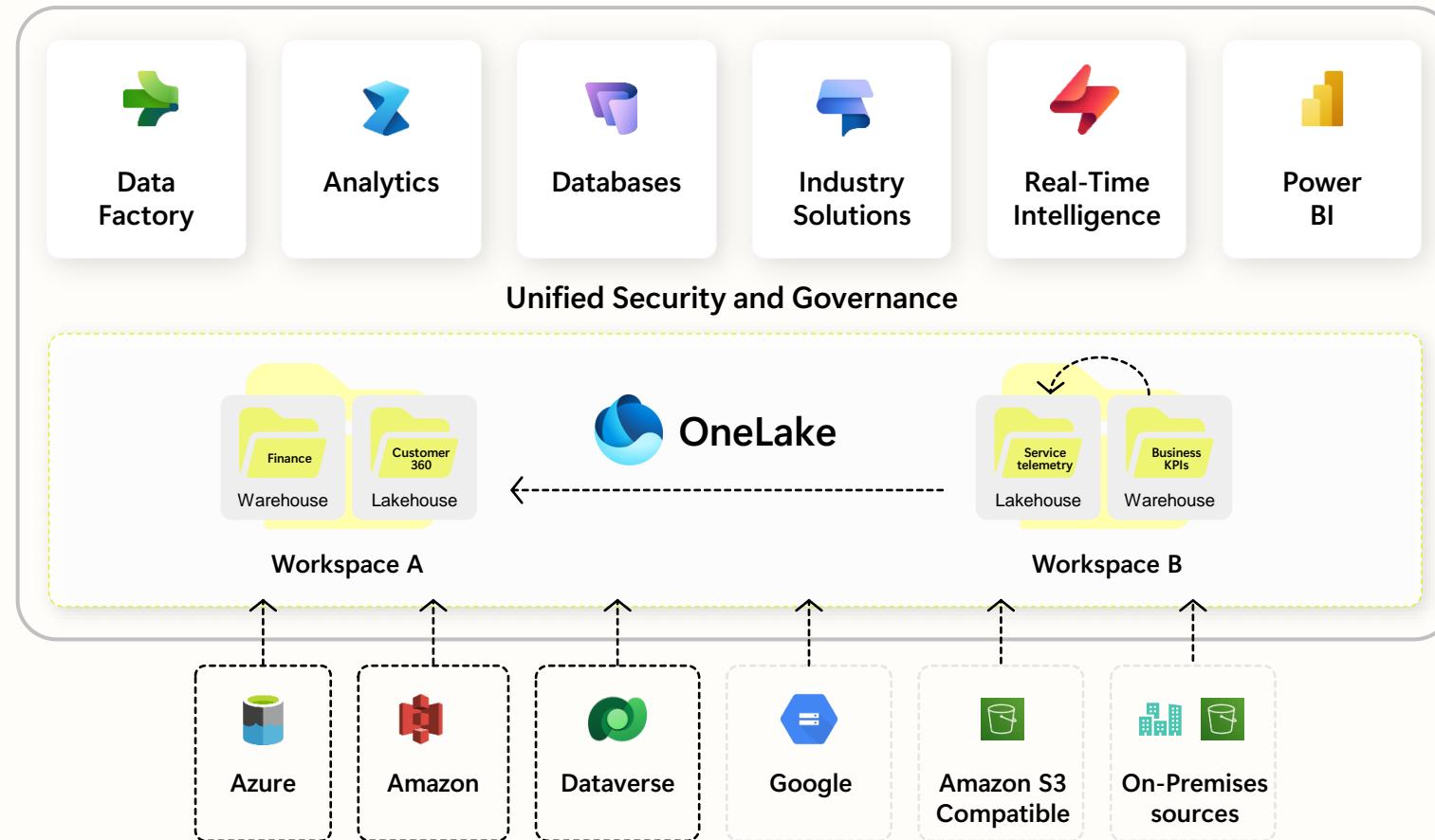
Unifying data in OneLake

Data Factory



Shortcuts virtualize data across domains and clouds

No data movements or duplication



A shortcut is a symbolic link which points from one data location to another.

Create a shortcut to make data from a warehouse part of your lakehouse.

Create a shortcut within Fabric to consolidate data across items or workspaces without changing the ownership of the data. Data can be reused multiple times without data duplication.

Existing ADLS Gen2 storage accounts and Amazon S3 buckets can be managed externally to Fabric and Microsoft while still being virtualized into OneLake with shortcuts.

All data is mapped to a unified namespace and can be accessed using the same APIs including the ADLS Gen2 DFS APIs.

Dataverse makes it easy to connect Power Platform and Dynamics 365 to Fabric

- No Copy. No ETL.
- Direct Connection via Dataverse
- Insights democratized to all low code apps and business using Fabrics 7 core workloads
- Makers informed by insights improves quality of applications
- Data is governed



Microsoft Power Platform



Microsoft Dataverse



Microsoft Dynamics 365



Microsoft Fabric

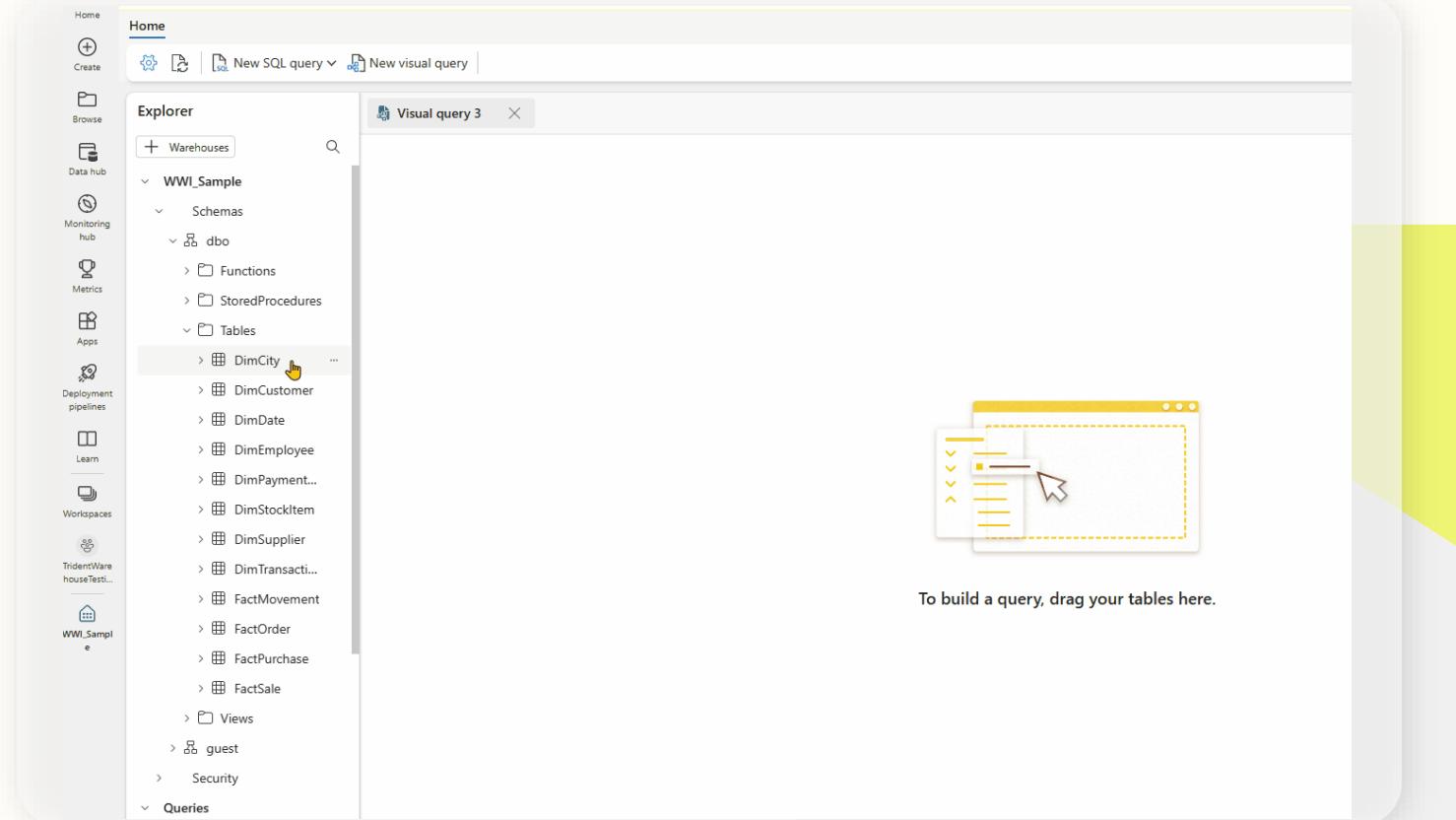




Visual Query Editor

Key Capabilities:

- Easy and efficient method to transform data
- No-code experience
- Interface like Power Query
- No data duplication
- Query executed on every call
- Direct Lake not available



Lab 3

By the end of this lab, you will have learned:



How to create Shortcut to ADLS Gen2



How to connect to create Visual Queries



How to ingest data into Lakehouse

The screenshot shows the Microsoft Fabric Data Flow interface. On the left is a query editor displaying a table with three columns: Unit Price, Tax Rate, and Tax Amount. The data consists of 15 rows of numerical values. To the right of the editor is a "Query settings" pane. It includes sections for "Properties" (Name: Sales, Entity type: Custom), "Applied steps" (listing actions like Source, Expanded Invoice, Removed Other Columns, Renamed Columns, Merged Queries, Added Custom, Changed Type, and Removed Columns, with Renamed Columns1 highlighted in red), and "Data destination" (Lakehouse). At the bottom right of the pane is a green "Publish" button, which is outlined in orange.

Lunch break



Lab 4

By the end of this lab, you will have learned:

- How to connect to SharePoint using Dataflow Gen2 and ingest data into Lakehouse
- How to connect to Snowflake using Dataflow Gen2 and ingest data into Lakehouse
- How to connect to Dataverse data by creating a Shortcut to existing Lakehouse

Dataflow 1

* Required

Name

Description

Last edited on 10/26/2023 at 11:35:42 AM by ODL_User 1111422

Save Cancel





Data Warehouse | Overview

Enterprise scale data warehouse with open standard format

No knobs performance with minimal set-up and deployment, no configuration of compute or storage needed

Key Capabilities:

- Lake-centric warehouse stores data in OneLake in open Delta format with easy data recovery and management
- Use Fabric Mirroring for Zero-ETL integration of data from Azure SQL, Snowflake, or Azure Cosmos DB
- Data loading and transforms at scale, with full multi-table transactional guarantees provided by the SQL engine
- Virtual warehouses with cross-database querying and a fully integrated semantic layer
- Flexibility to build data warehouse or data mesh based on organizational needs and choice of no-code, low-code, or T-SQL for transformations

The screenshot shows the Microsoft Fabric Data Explorer interface. On the left is the Explorer sidebar with sections for Warehouses, Schemas, Tables, Views, Functions, Stored Procedures, guest, INFORMATION_SCHEMA, queryinsights, sys, Security, and Queries. Under Queries, 'My queries' is expanded, showing 'SQL query 1' and 'Trip Destination Weather'. The main area is a query editor titled 'Trip Destination ...' with a tab for 'SQL query 1'. The code in the editor is:

```
CREATE TABLE [TravelWarehouse].[dbo].[InFlightMeals]
(
    MealId int NOT NULL,
    MealCategory varchar(50) NOT NULL,
    MealName varchar(75) NOT NULL,
    IsVegan varchar(3) NULL,
    IsVegetarian varchar(3) NULL,
    IsGlutenFree varchar(3) NULL
)
```

Below the code, the 'Messages' pane shows logs for the query execution:

- 6/12/28 PM: Started running query at line 1
Statement ID: (917CFABC-197D-4F9F-A862-06E76573958F)
Msg 24526, Level 0, State 1
Total execution time: 00:00:01.743
- 6/12/29 PM: Succeeded (1 sec: 743 ms)

At the bottom, tabs for Data, Query (which is selected), and Model are visible.



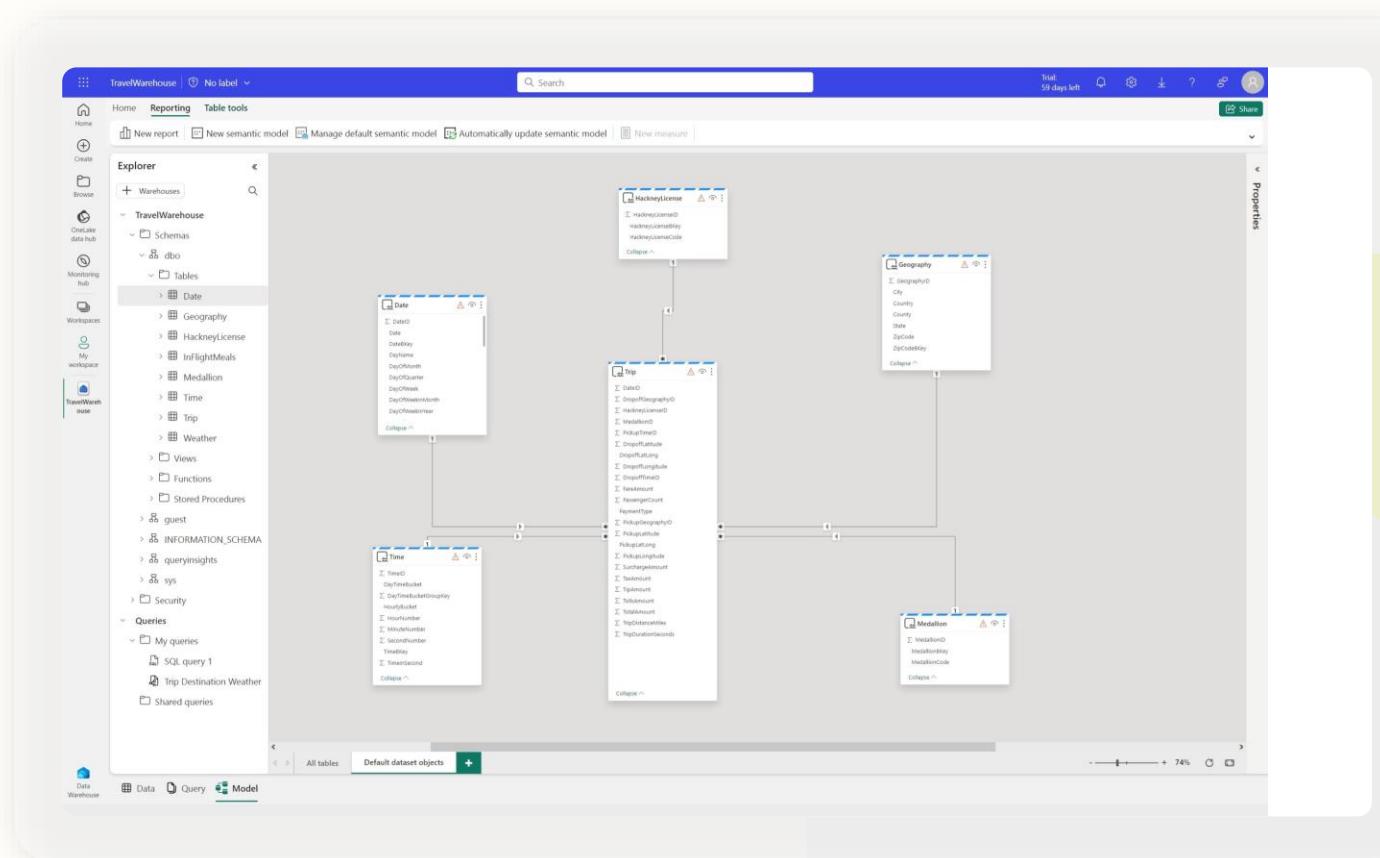
Fully integrated Power BI semantic layer

Reduce integration and gain insight from your data in seconds

Built-in Power BI enables everyone to visualize their data in seconds.

Key Capabilities:

- Auto-generated semantic models always in sync
- Default dataset in Direct Lake mode but automatically switches to Direct Query or Import mode as security or performance needs change
- Flexibility to add/remove tables to dataset
- Full web authoring experience for creating measures





Secure by default

Keep data secure for any role accessing it and ensure peace of mind

Customers can secure their data using familiar constructs and ensure data is only visible to those authorized to do so

Key Capabilities:

- Workspace roles:** Workspace roles are used for collaboration with team. Add users to workspace with role assignment of Admin, Member, Contributor, Viewer
- Artifact permissions:** Artifact permissions are used for sharing for consumption of Warehouses. Provide access and share individual Warehouses with specific permissions
- Data security:** Use T-SQL, GRANT, REVOKE or DENY to secure any object within Warehouse. Users can be assigned to built-in custom roles.
- Sensitivity labels:** Apply sensitivity labels on your Warehouse to classify sensitive data.
- Granular security:** Implement row or column security or Dynamic Data Masking for granular data access control

The screenshot shows the Microsoft Fabric web interface for managing a data warehouse named 'importerdw'. The left sidebar includes options like Home, Create, Browse, OneLake data hub, Monitoring hub, Workspaces, Importers, and Importerds. The main area displays 'Details for importerdw' with fields for Location (Importers), Refreshed (Refreshed), and Sensitivity (General). It also shows a preview of the data with a pie chart and a table listing the dataset. A 'Visualize this data' section allows creating reports or tables. A 'Share this data' section provides options to give people access to the warehouse. On the right, a 'Show objects' panel lists various objects in the fabric, and a large purple and teal decorative graphic is overlaid on the bottom right.

Mirroring in Microsoft Fabric

Simplify near real-time intelligence

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

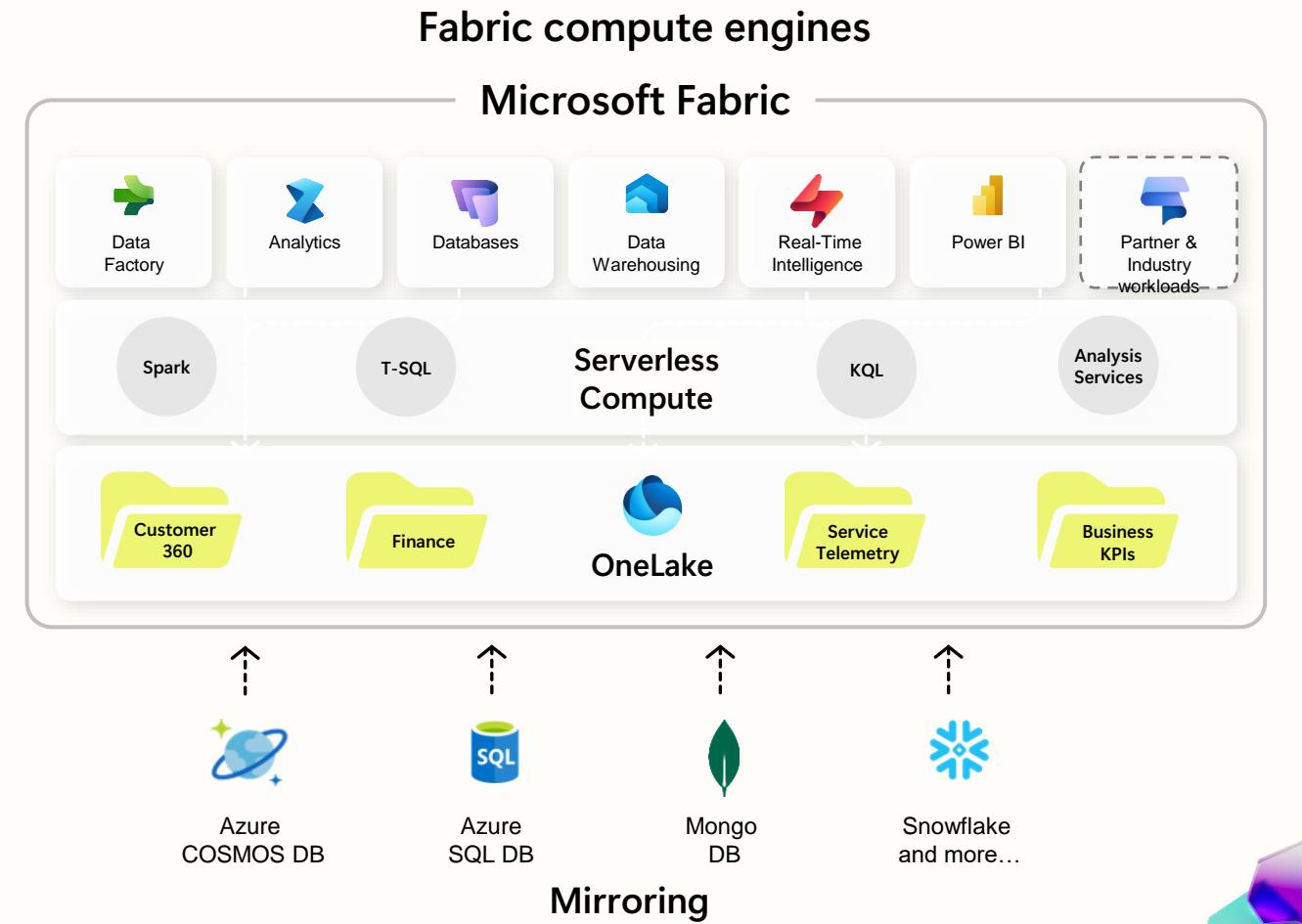
A full editing experience of the source database is available for the Mirrored database.

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.

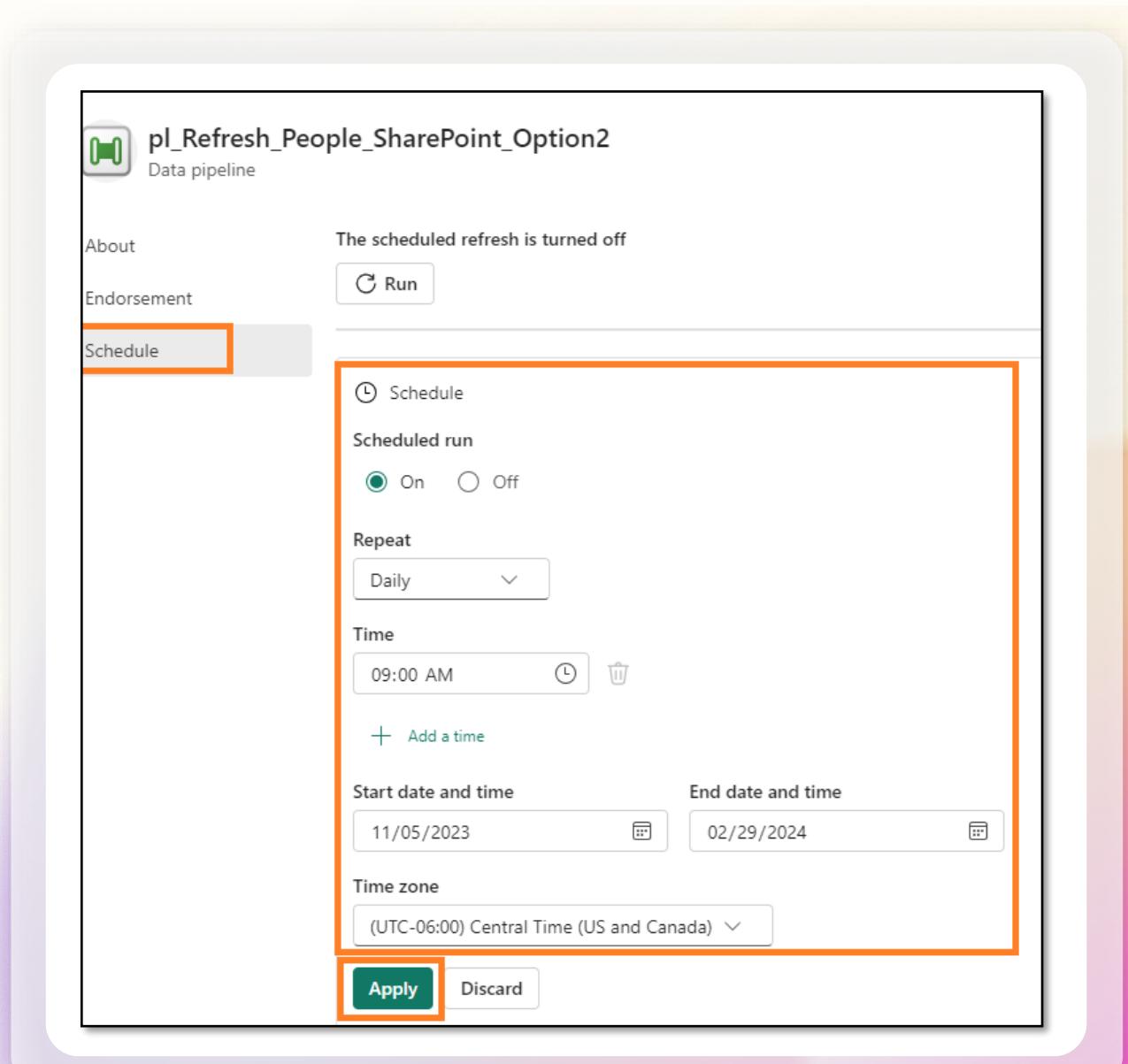
The replica protects operational databases from analytical queries.



Lab 5

By the end of this lab, you will have learned:

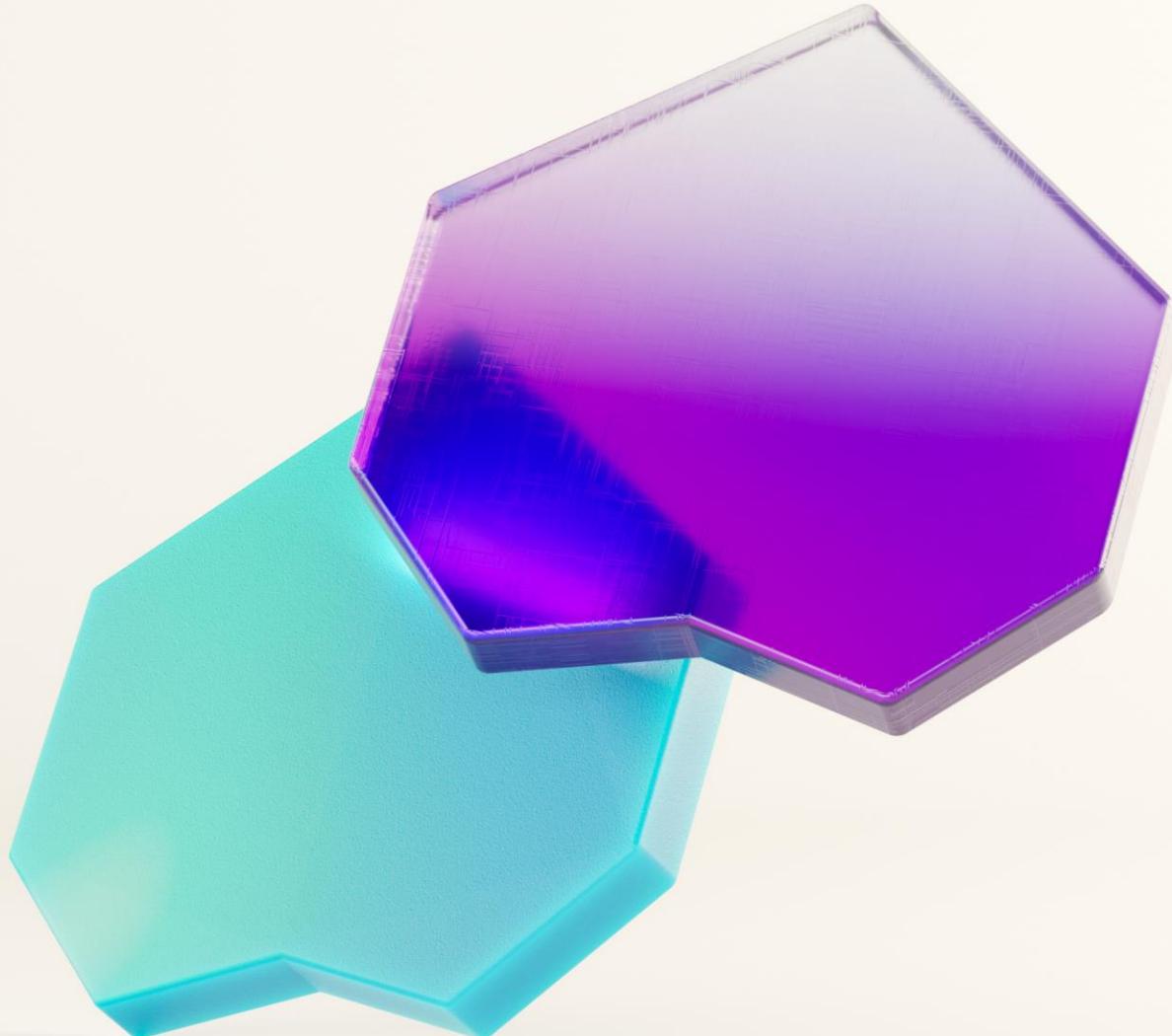
- How to configure a scheduled refresh of Dataflow Gen2
- How to create a Data Pipeline
- How to configure a scheduled refresh of a Data Pipeline

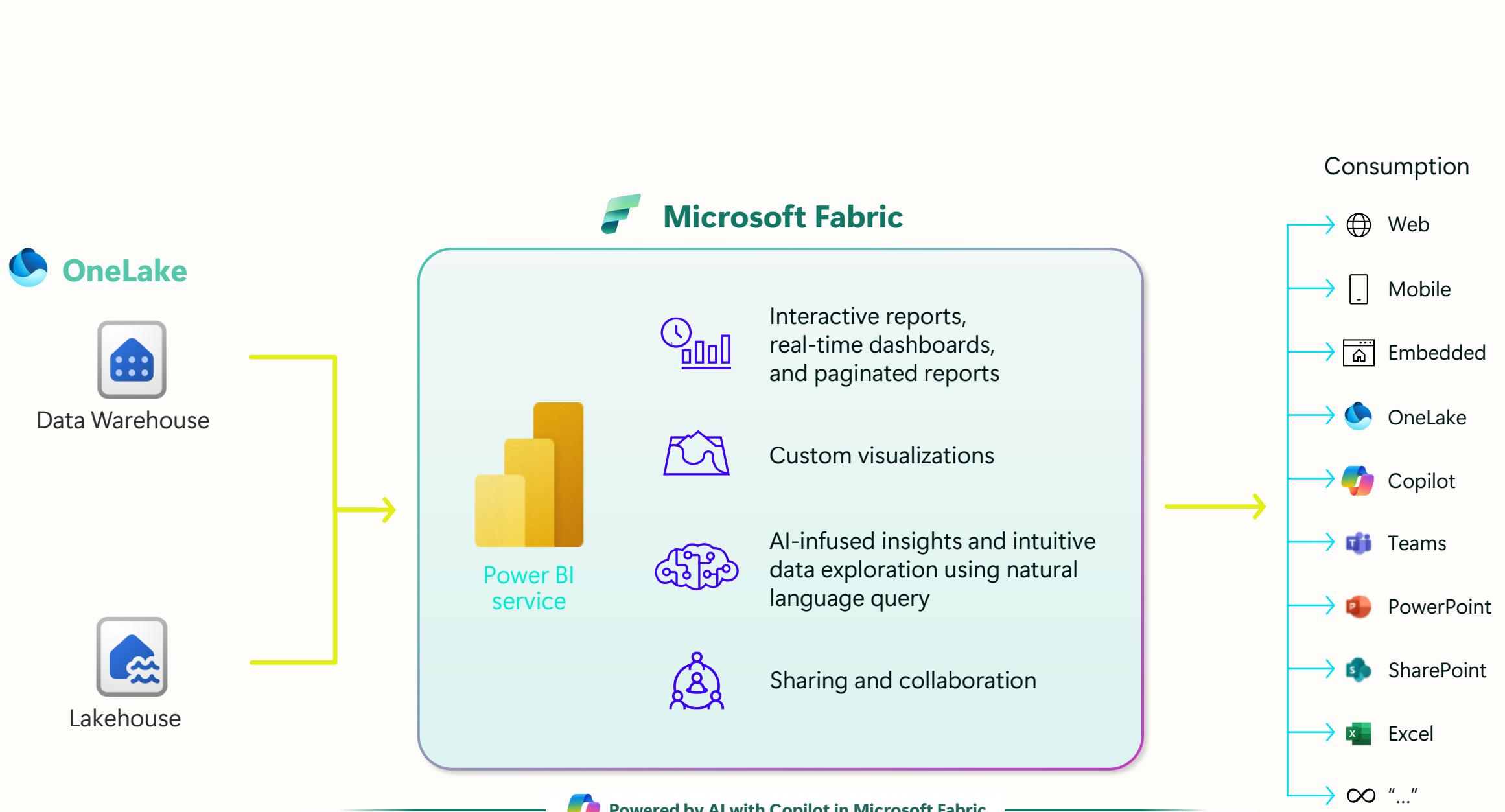


15-minute break



Title Slides





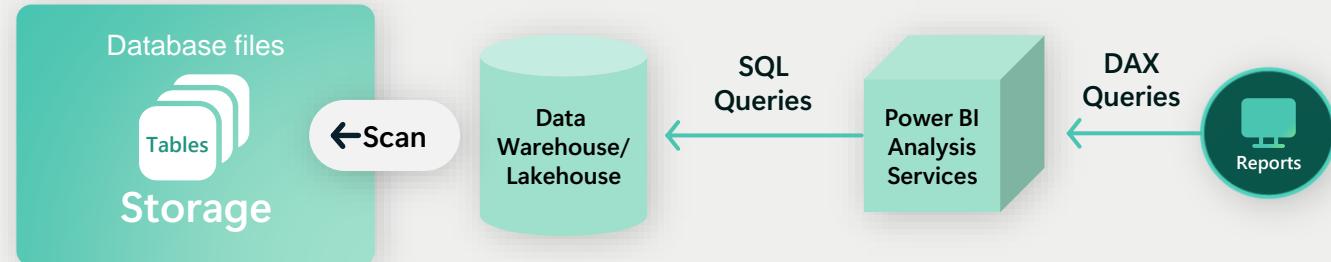


Power BI | Direct Lake Mode

Direct Lake is a fast-path to load the data from the lake straight into the Power BI engine, ready for analysis

Direct Lake is based on loading parquet-formatted files directly from a data lake without having to query a Lakehouse endpoint, and without having to import or duplicate data into a semantic model

Direct Query Mode. Slow, but real time



Direct Lake Mode. Fast and real time





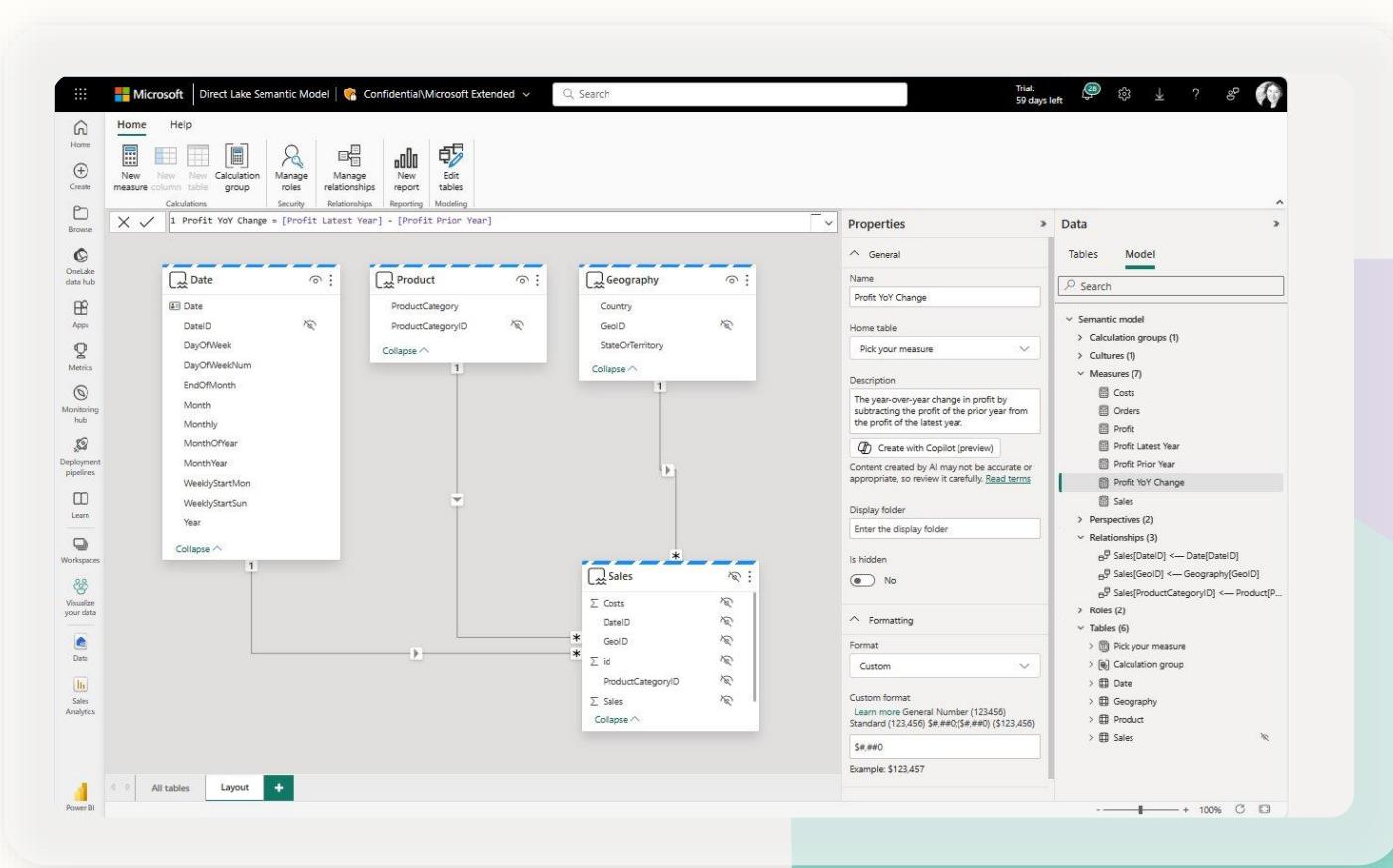
Power BI | Semantic Model

Model your data and quickly unlock insights

Power BI enables everyone to build semantic models they can use to explore data, visualize data in reports, and create scorecards

Key capabilities:

- Power BI semantic models in Fabric use Direct Lake mode to create lightning-fast reports on OneLake data
- Rich semantic modeling experience both online in browser and offline in Power BI Desktop, and in many community-built tools via XMLA endpoint
- Power BI semantic models give data tables meaning by creating relationships between tables and defining business logic in measures





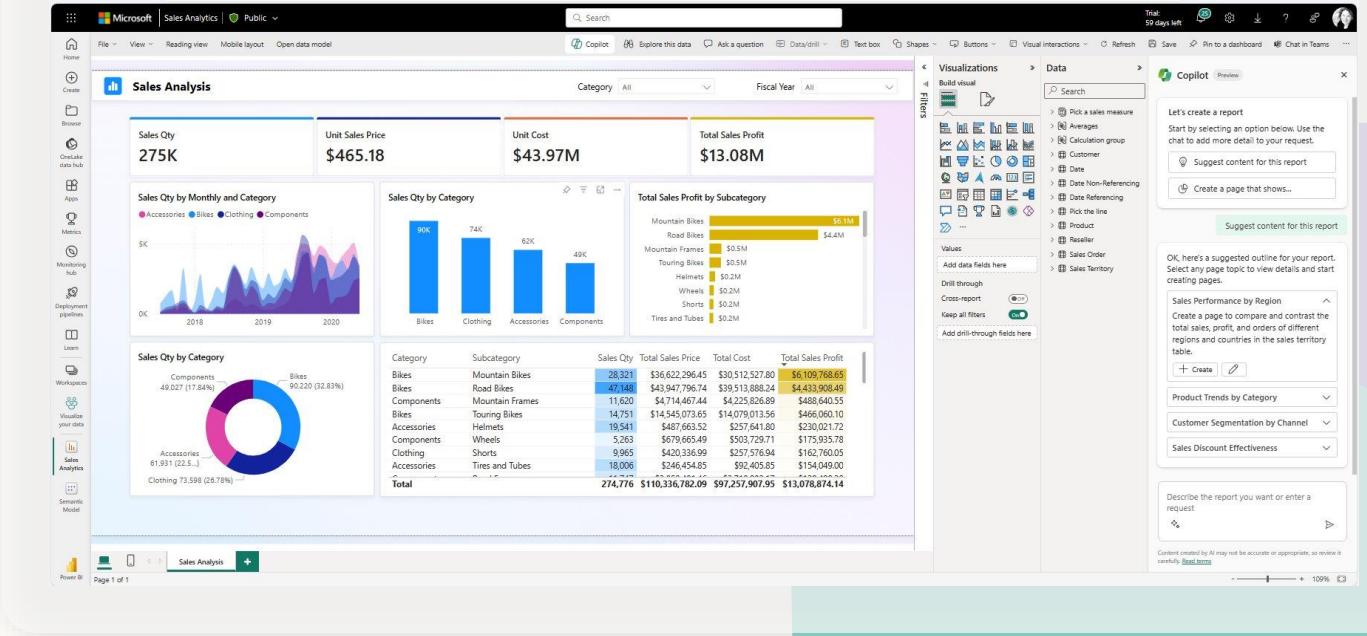
Power BI | Reports

Auto create Power BI reports from your semantic model

Blazing fast performance with Direct Lake

Key capabilities:

- Create an interactive report to discover and share business insights
- Use Copilot to help create, understand, and summarize reports
- Share interactively with Teams and PowerPoint
- View on phone or tablet with mobile-ready layouts for every report
- Explore data and find quick insights





AI-powered analytics

The most complete AI capabilities in a BI product



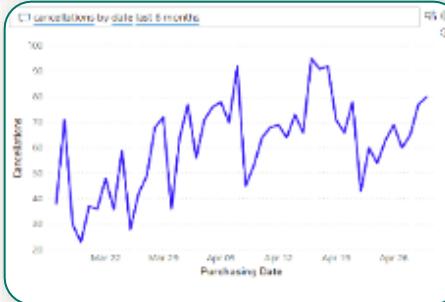
Information workers



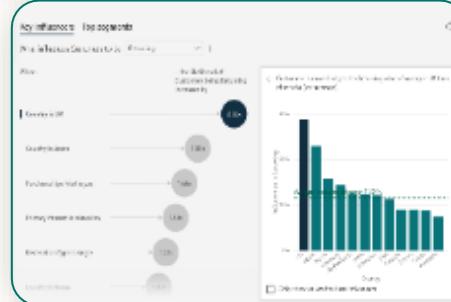
Business analysts



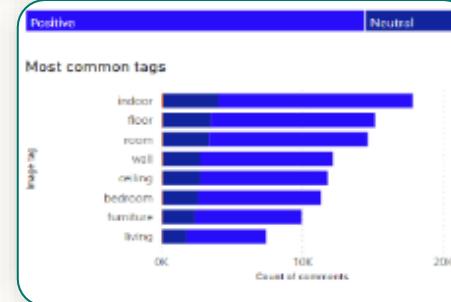
Data scientists



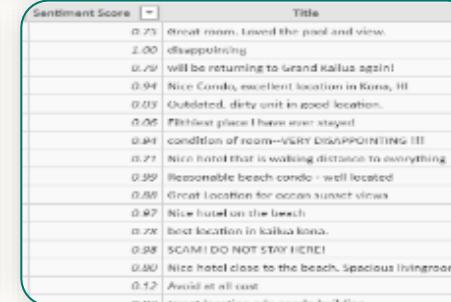
Q&A



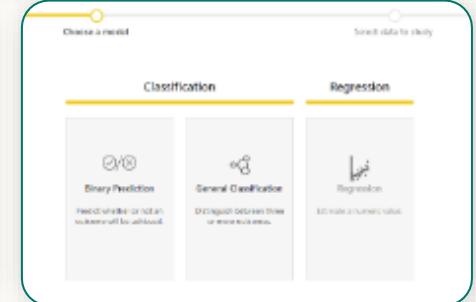
Key driver analysis



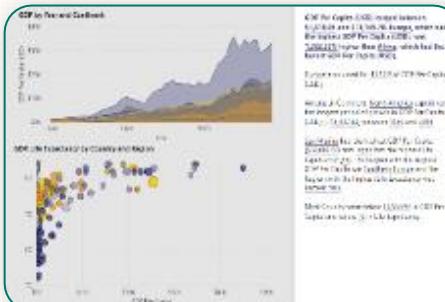
Key phrase extraction



Sentiment analysis



Create ML models



Smart narratives



Root cause analysis



Explore predictions



Python and R integration



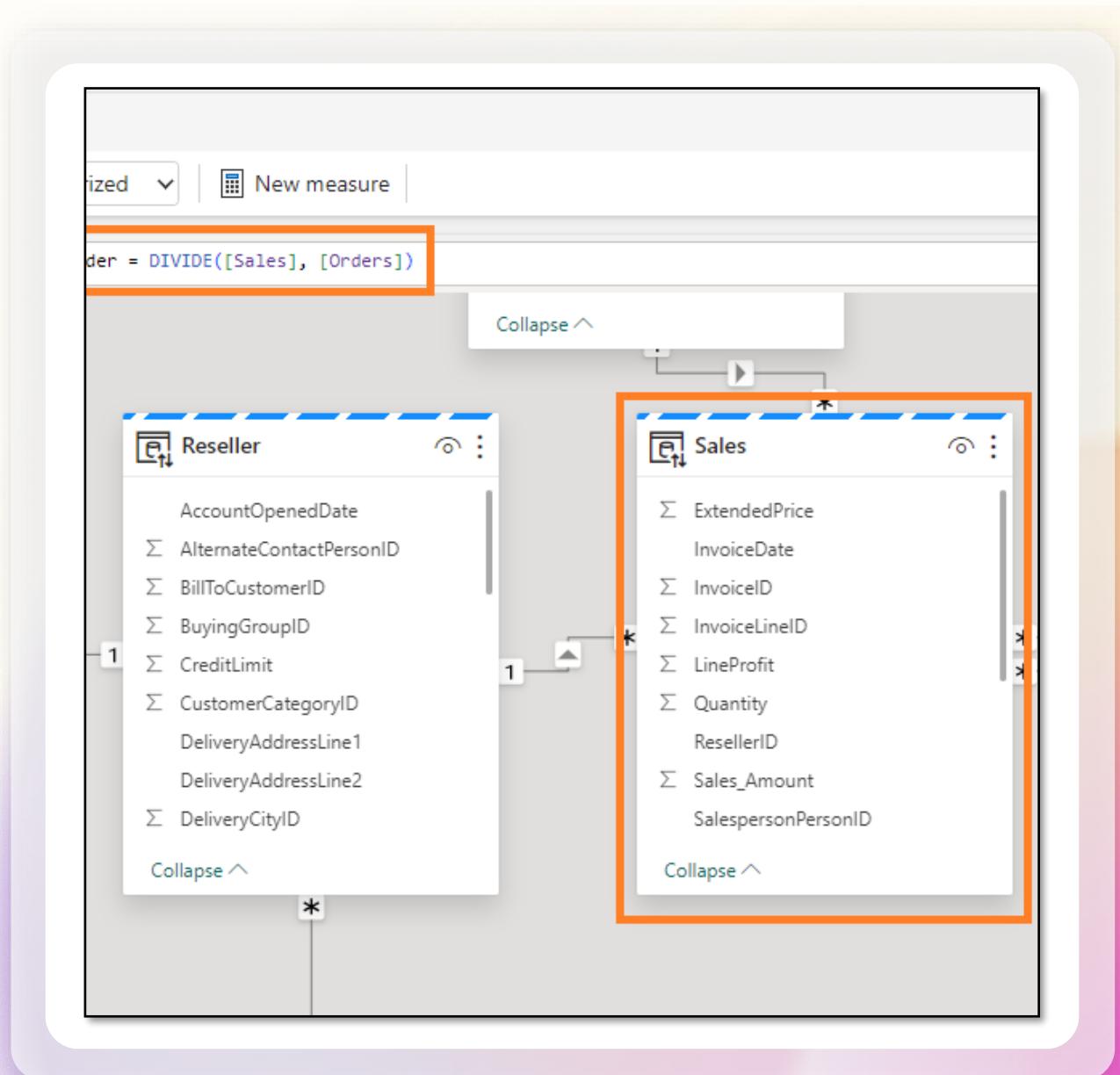
Extend with Azure ML

Lab 6

By the end of this lab, you will have learned:

- How to create SQL view

- How to create Semantic model



Forecasting Model Demo

Following functionality is highlighted in the demo



How to create Notebooks

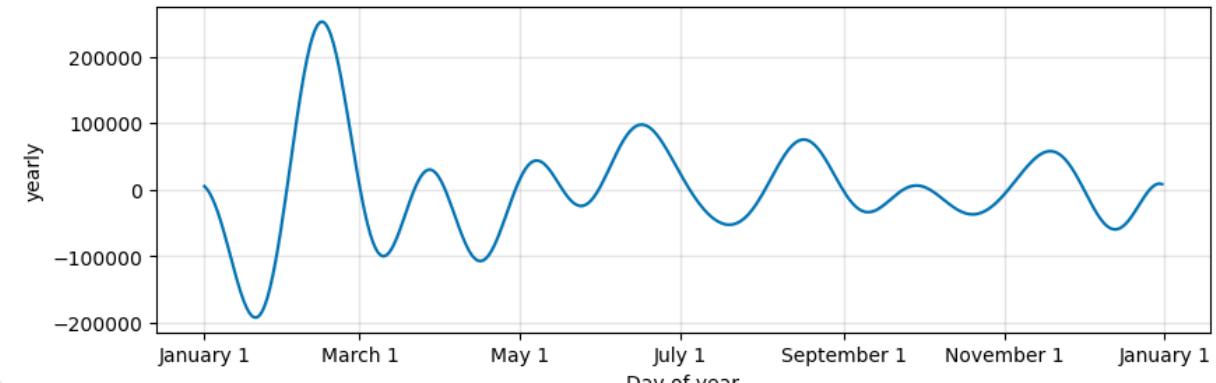


Import and execute ML models



Analyze results and highlight the ability to save the results in Lakehouse

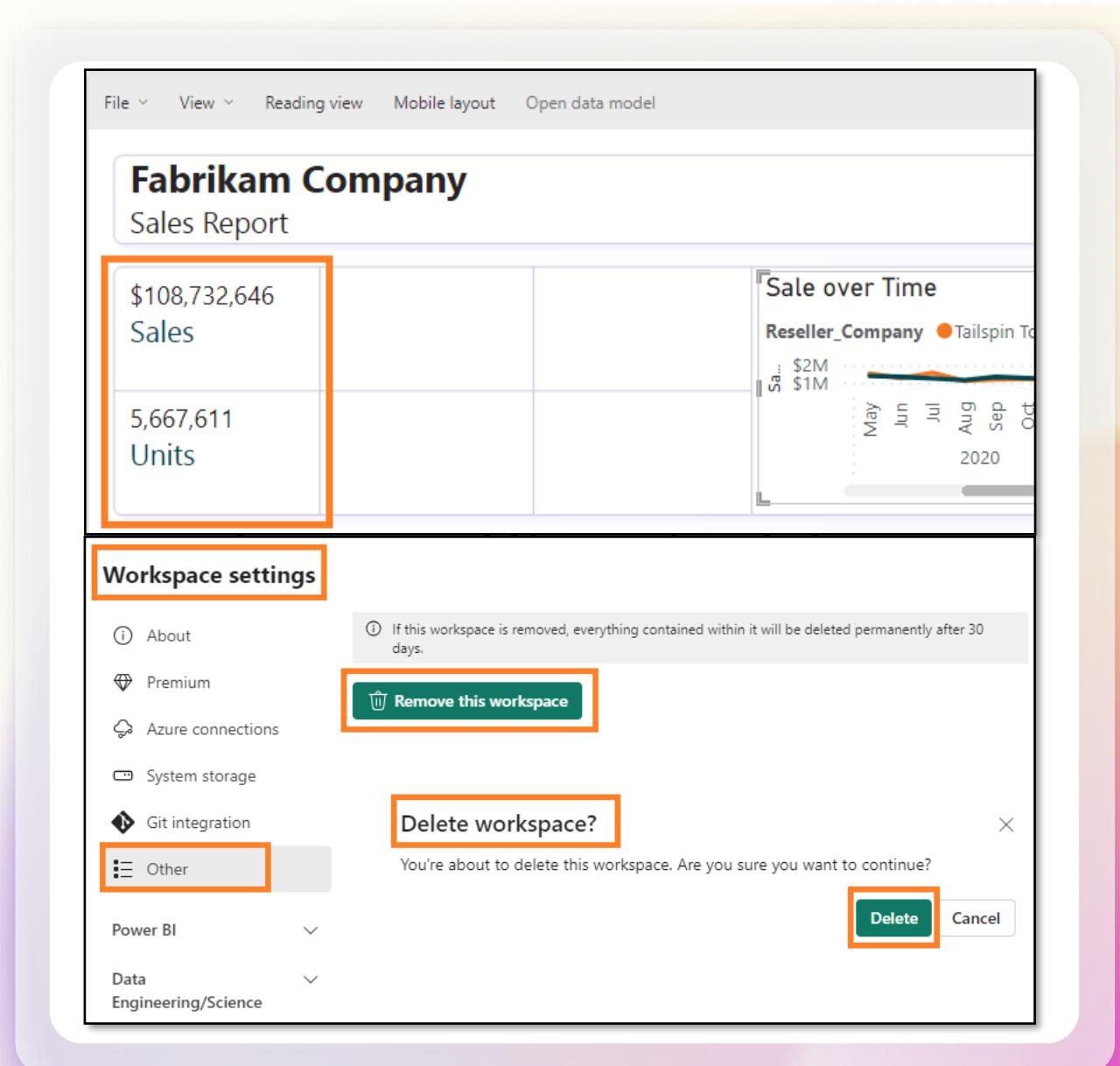
```
1 from pyspark.sql import SparkSession
2 from pyspark.sql.functions import month, year, col
3 from prophet import Prophet
4 import pandas as pd
5
6 # Initialize Spark session
7 spark = SparkSession.builder.appName("Prophet Forecasting").getOrCreate()
8
9 # Load data from your specific Spark table
10 df = spark.sql("SELECT * FROM lh_FAIAD.Sales")
11
12 # Aggregate data to monthly level
13 monthly_df = df.withColumn("Month", month("InvoiceDate"))\
14     .withColumn("Year", year("InvoiceDate"))\
15     .groupBy("Year", "Month")\
16     .sum("Quantity")\
17     .orderBy("Year", "Month")
18
19 # Convert to Pandas DataFrame and prepare for Prophet
20 pandas_df = monthly_df.toPandas()
21 pandas_df['ds'] = pd.to_datetime(pandas_df[['Year', 'Month']].assign(DAY=1))
22 pandas_df['y'] = pandas_df['sum(Quantity)']
23
24 # Fit the Prophet model
25 model = Prophet(yearly_seasonality=True, weekly_seasonality=False,daily_seasonality=False)
26 model.fit(pandas_df[['ds', 'y']])
```



Lab 7

By the end of this lab, you will have learned:

- How to auto-create a report
- How to build a report starting from a blank canvas
- How to connect Power BI Desktop to semantic model
- How to experience Direct Lake mode resulting in data automatically refreshing



Data Activator Demo

Following functionality is highlighted in the demo



How to configure an alert



How alerts are triggered



Overview of the Reflex objects

Set an alert

Data Activator will send a notification when conditions are met. [Learn more](#)

Visual
tableEx 1

For each Stock_Group_Name

Measure
Sales Var %

Condition
Becomes less than

Threshold
0.00%

[Show applied filters](#)

Notification type
 Email Teams

Where to save

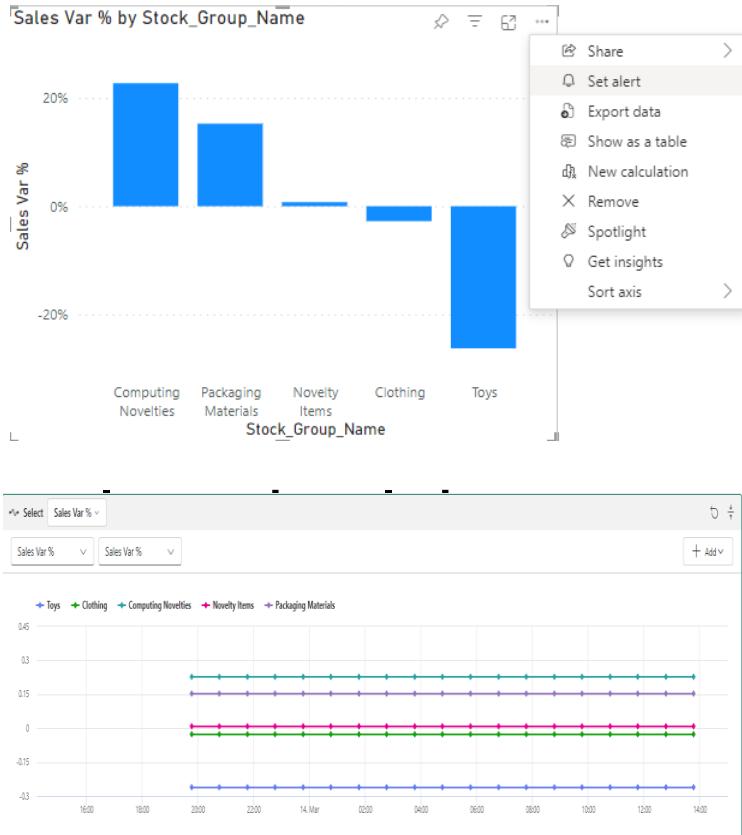
Workspace
FAIAD_odl_user_12447822

Item
Create a new reflex item

Item name

Start my alert

Create alert



Microsoft Fabric link library

[What is Fabric?](#)

[Fabric website](#)

[Fabric trial](#)

[Fabric licenses](#)

[Buy a Fabric subscription](#)

[Navigate the Fabric portal](#)

[Workspaces in Fabric](#)

[Fabric Learning Pathway](#)

[Fabric Technical Documentation](#)

[Fabric Guided Tour](#)

[Fabric Industry Solutions](#)

[Fabric Community](#)

[See more](#)

[Copilot for Data Science and Data Engineering](#)

[Copilot for Data Factory](#)

[Copilot for Power BI](#)

[What is OneLake?](#)

[What are shortcuts?](#)

[Create a lakehouse with OneLake](#)

[See more](#)

[Fabric administration](#)

[Data governance and compliance](#)

[Security](#)

[See more](#)

[Lakehouse tutorial](#)

[Data Science tutorial](#)

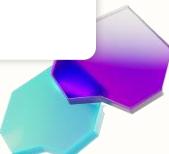
[Real-Time Intelligence tutorial](#)

[Data Warehouse tutorial](#)

[Power BI tutorial](#)

[Data Factory tutorial](#)

[Azure Databricks trial](#)



End-to-end tutorials

-  **Lakehouse tutorial**
<https://learn.microsoft.com/en-us/fabric/data-engineering/tutorial-lakehouse-introduction>
-  **Data Science tutorial**
<https://learn.microsoft.com/en-us/fabric/data-science/tutorial-data-science-introduction>
-  **Real-Time Analytics tutorial**
<https://learn.microsoft.com/en-us/fabric/real-time-analytics/tutorial-introduction>
-  **Data warehouse tutorial**
<https://learn.microsoft.com/en-us/fabric/data-warehouse/tutorial-introduction>
-  **Power BI tutorial**
<https://learn.microsoft.com/en-us/power-bi/fundamentals/fabric-get-started>
-  **Data Factory tutorial**
<https://learn.microsoft.com/en-us/fabric/data-factory/tutorial-end-to-end-introduction>



Microsoft Fabric workload link library



Data Factory

[What is Data Factory?](#)

[Create your first pipeline](#)

[Create your first dataflow](#)

[Connectors](#)

[See more](#)



Data Engineering

[What is Data Engineering?](#)

[Create a Lakehouse](#)

[Create a Spark job definition](#)

[See more](#)



Databases

[What are Databases?](#)

[Create a Database](#)

[See more](#)



Data Warehouse

[What is Data Warehouse?](#)

[Create a Warehouse](#)

[Query using SQL query editor](#)

[See more](#)



Real-Time Intelligence

[What is Real-Time Intelligence?](#)

[What is Event stream?](#)

[Create a database](#)

[See more](#)



Data Science

[What is Data science?](#)

[Machine learning experiment](#)

[Use end-to-end AI samples](#)

[See more](#)



Power BI

[Enable Microsoft Fabric for your organization](#)

[What is Power BI?](#)

[What is a datamart?](#)

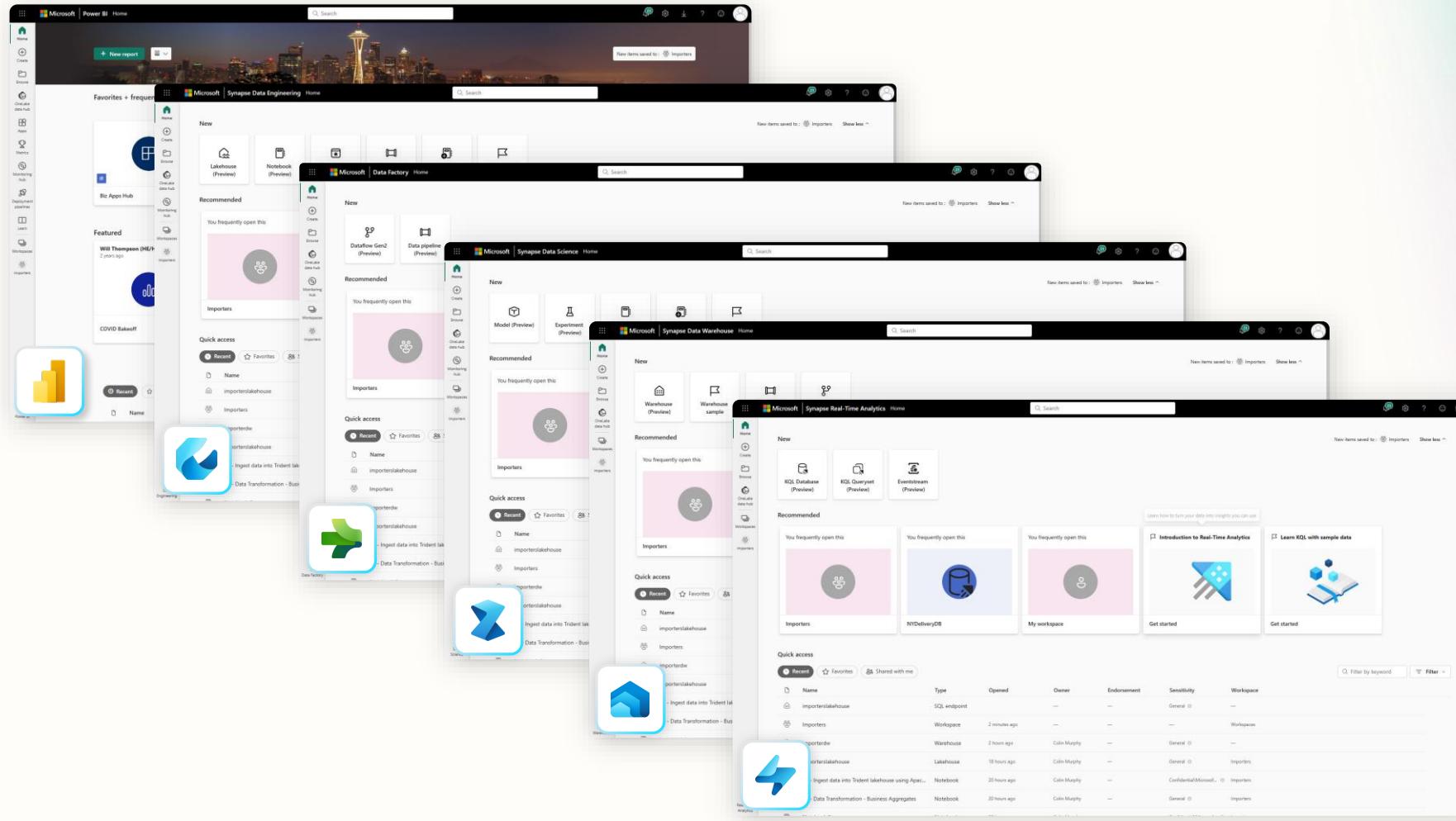
[Azure and Power BI integration](#)

[See more](#)



Appendix

Persona optimized workloads



Seven key workloads for end-to-end analytics

Workloads are designed to target specific personas and tasks, yet work together seamlessly in a unified platform via OneLake to enable creators to collaboratively do their best work

 Data Factory	Unify your data estate with a data integration experience and 300+ data transformations to easily solve the most complex ETL scenarios
 Data Engineering	Enable data engineers to design, build, and maintain infrastructures at scale using World-class Spark platform with great authoring experiences to
 Data Warehouse	Provide industry-leading SQL performance and scale, fully separating compute from storage for independently scaling and natively storing data in open Parquet/Delta Lake
 Data Science	Empower data scientists and analysts to quickly build, deploy, and operationalize sophisticated AI directly within Fabric
 Real Time Intelligence	Ingest streaming data with high granularity, dynamically transform streaming data, query data in real-time for instant insights, and trigger actions
 Power BI	Make better, data-driven decisions with the world's leading business intelligence platform that turns unrelated sources of data into coherent, interactive insights



Data Factory workload

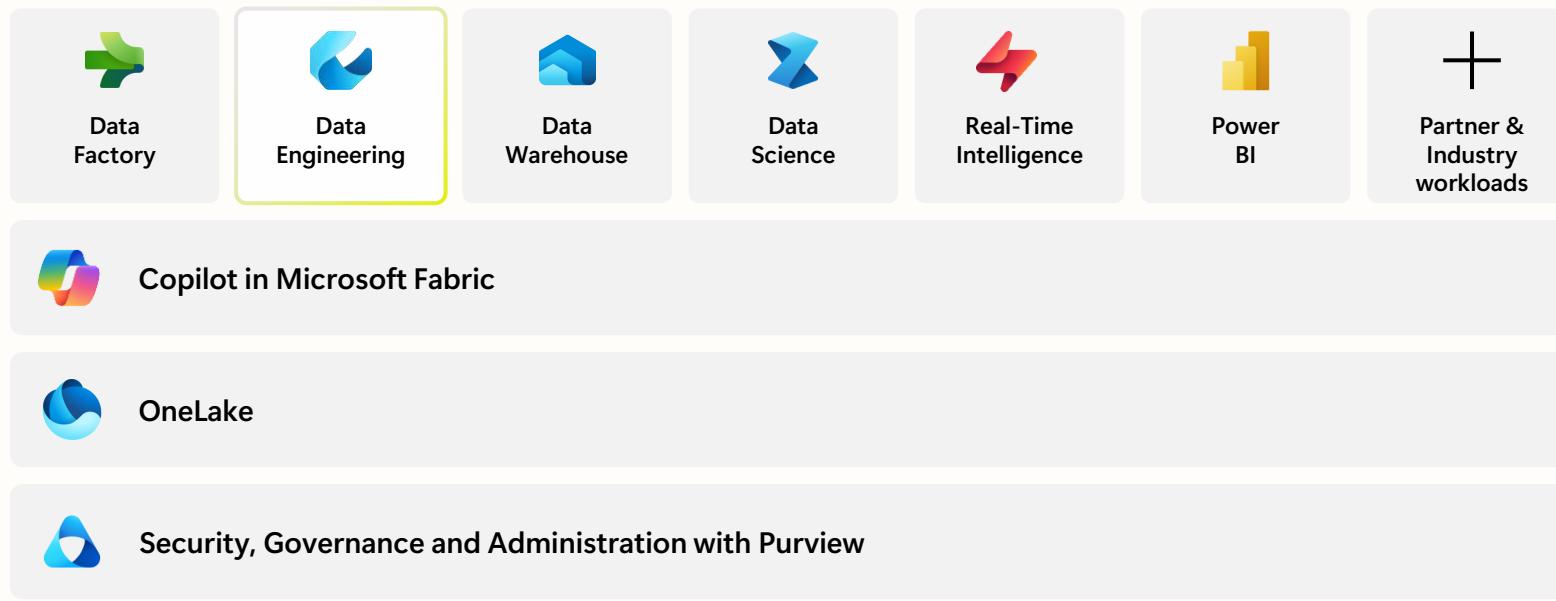
Dataflows and data pipelines bring together low-code, AI-based experiences, multi-cloud connectivity, and persistent data security and governance to help solve complex ETL scenarios for all developers

-  Data Factory
-  Data Engineering
-  Data Warehouse
-  Data Science
-  Real-Time Intelligence
-  Power BI
-  Partner & Industry workloads
-  Copilot in Microsoft Fabric
 - 200+ native data source connectors
 - 300+ data transformations in dataflows designer to transform data more easily
 - Cloud-scale data movement with Data Factory
 - Low-code interface for ingesting data from hundreds of data sources using Dataflows Gen2
 - Out-of-the-box rich data orchestration capabilities to compose flexible workflows
 - Powerful, enterprise-grade Data Factory workload with the best of ADF and Power Query together
-  OneLake
 - 200+ native data source connectors
 - 300+ data transformations in dataflows designer to transform data more easily
 - Cloud-scale data movement with Data Factory
 - Low-code interface for ingesting data from hundreds of data sources using Dataflows Gen2
 - Out-of-the-box rich data orchestration capabilities to compose flexible workflows
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-  Security, Governance and Administration with Purview
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 - 300+ data transformations in dataflows designer to transform data more easily
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 - Low-code interface for ingesting data from hundreds of data sources using Dataflows Gen2
 - Out-of-the-box rich data orchestration capabilities to compose flexible workflows
 - Powerful, enterprise-grade Data Factory workload with the best of ADF and Power Query together



Data Engineering workload

Build your data estate and empower data engineers with a world-class Spark platform, fully integrated with Data Factory, to transform and maintain infrastructures at scale



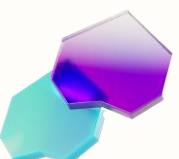
- Pro and low-code authoring experience
- Schedule and orchestrate data transformations with notebooks and Spark jobs
- Use notebooks to write code for data ingestion, preparation, and transformation
- Launch clusters on demand and dynamically scale in, scale out, pause, and resume
- Perform code-free interactive data exploration and add to your data pipeline



Data Warehouse workload

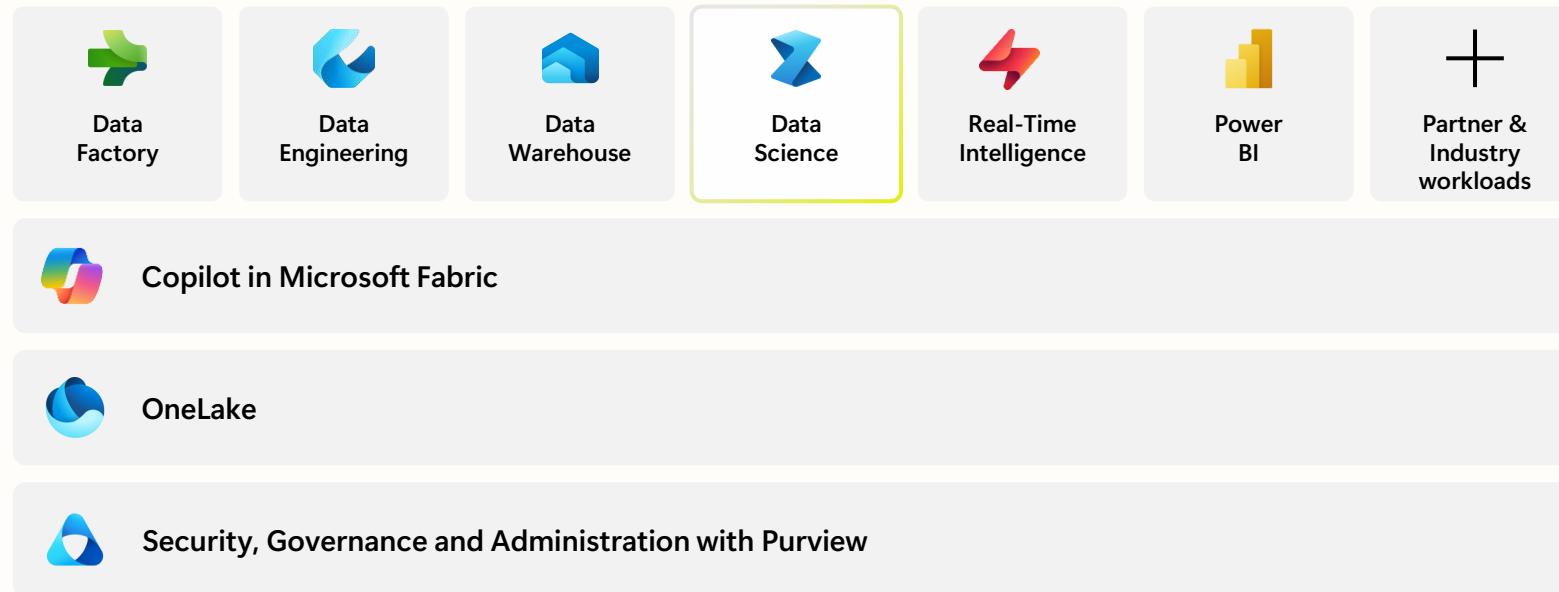
Achieve data platform goals with ease and cost efficiency, while empowering your developers and engineers of any skill level with accelerated reporting and insights

	Data Factory		Data Engineering		Data Warehouse		Data Science		Real-Time Intelligence		Power BI		Partner & Industry workloads
	Copilot in Microsoft Fabric												
	OneLake												
	Security, Governance and Administration with Purview												

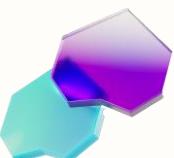


Data Science workload

Build, deploy, and operationalize sophisticated AI and ML models with speed and at scale from your Lakehouse



- Access data from multiple sources and store data and insights in Lakehouse(s)
- Leverage data science capabilities for model prediction at scale. Iterate, build, and track machine learning experiments using ML flow
- Perform exploration, experimentation, modeling, featurization and serving of predictive insights by leveraging built-in experiences
- Collaborate with others via Notebook, Power BI, and Lakehouses in real-time



Real-Time Intelligence workload

Explore data and turn insights into actions by performing real-time analysis across telemetry data to better predict, optimize, and improve data applications



Data Factory



Data Engineering



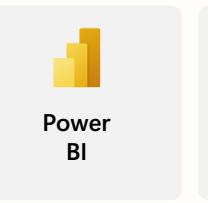
Data Warehouse



Data Science



Real-Time Intelligence



Power BI



Partner & Industry workloads



Ingest, transform, query, visualize, and act on data in real time.



Simple ingestion, curation and processing of streaming data in the Real-Time Hub, a single data estate for data in motion.



No-, low-, and pro-code experiences for everything from business insight discovery to complex stream processing.



Create triggers on changing data to act automatically when conditions are met.

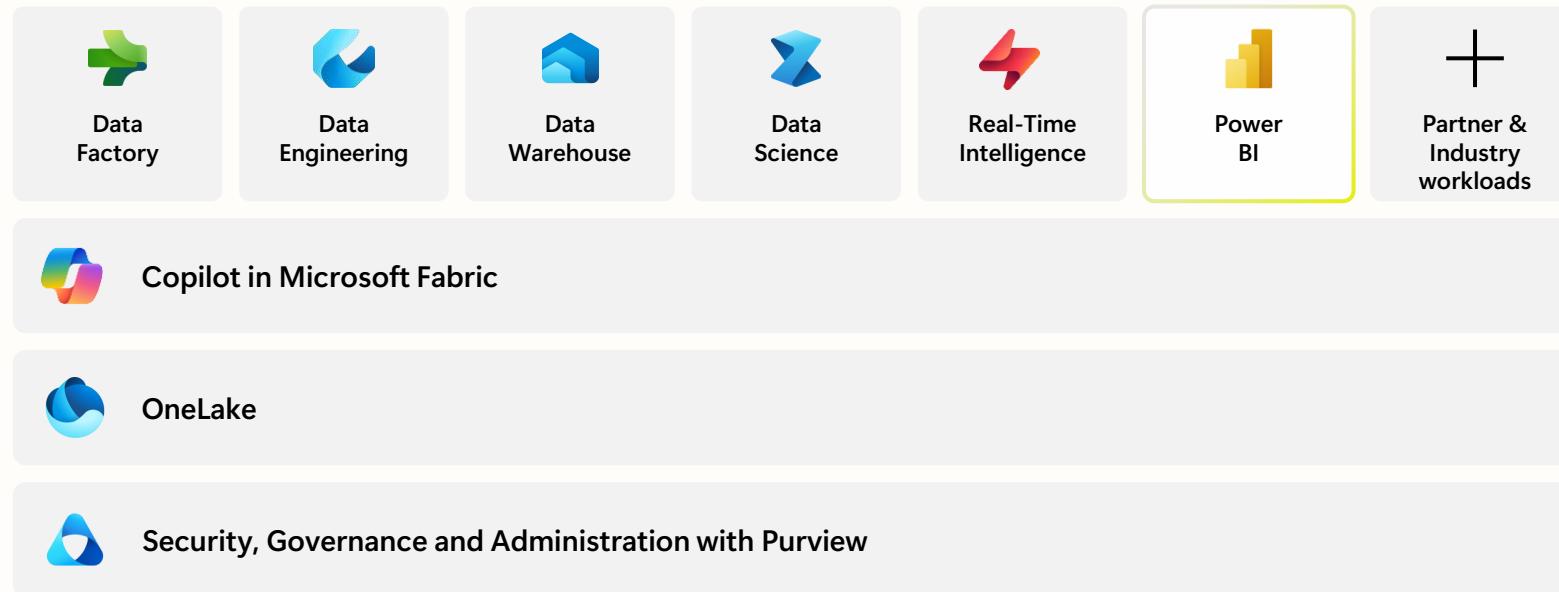


Streamline analysis of event streaming data with Copilot in Fabric.

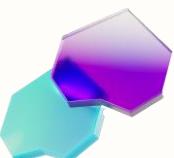


Power BI workload

Uncover powerful insights with intelligence visuals, leverage data quickly and intuitively, and help achieve faster and better, data-based decisions with the industry-leading Power BI platform

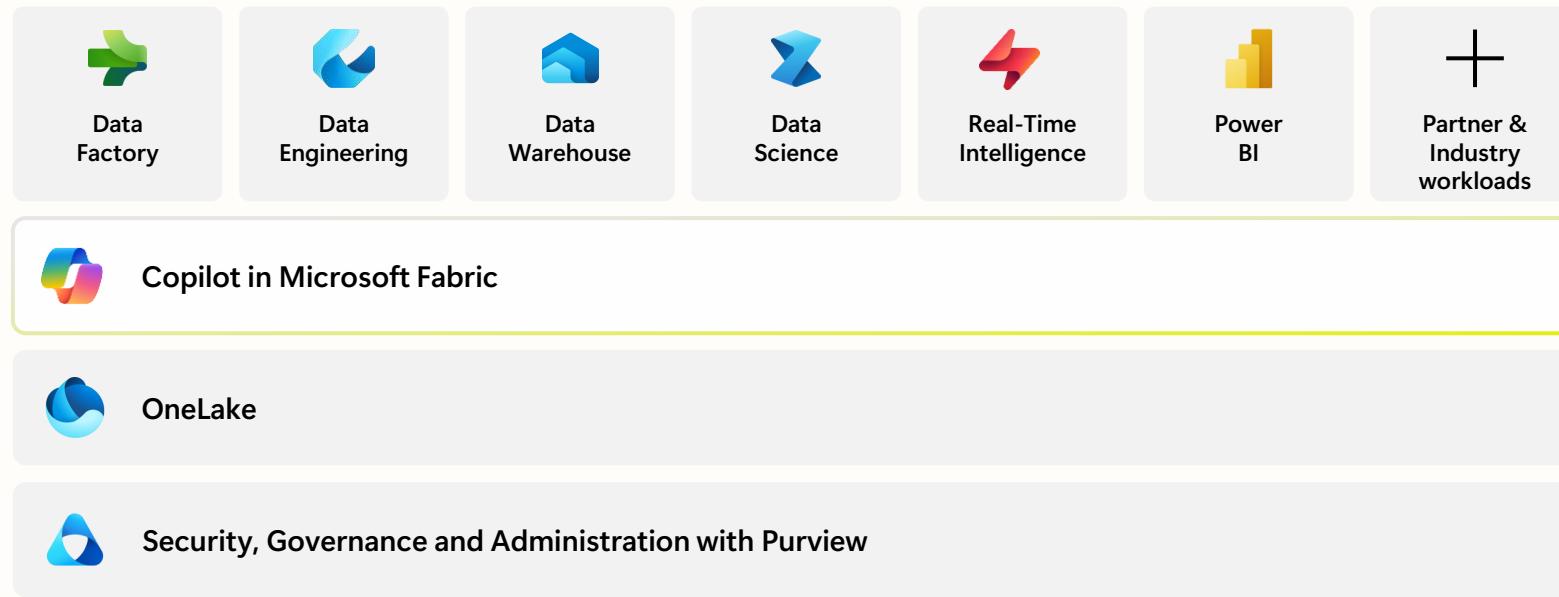


- Easy-to-use drag and drop canvas and visualizations for insightful and engaging report-building in seconds
- Native Integration with Microsoft 365
- Built-in AI capabilities and visuals illuminate hidden patterns, opportunities and anomalies with the click of a button
- Connect to, index, and certify datasets in the Power BI data hub
- Build governed databases, like data models or data marts, in a trusted and secure hub

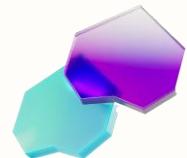


Copilot in Microsoft Fabric

Use conversational language with Copilot in Fabric to create dataflows and pipelines, write SQL statements, build reports, and even build machine learning models

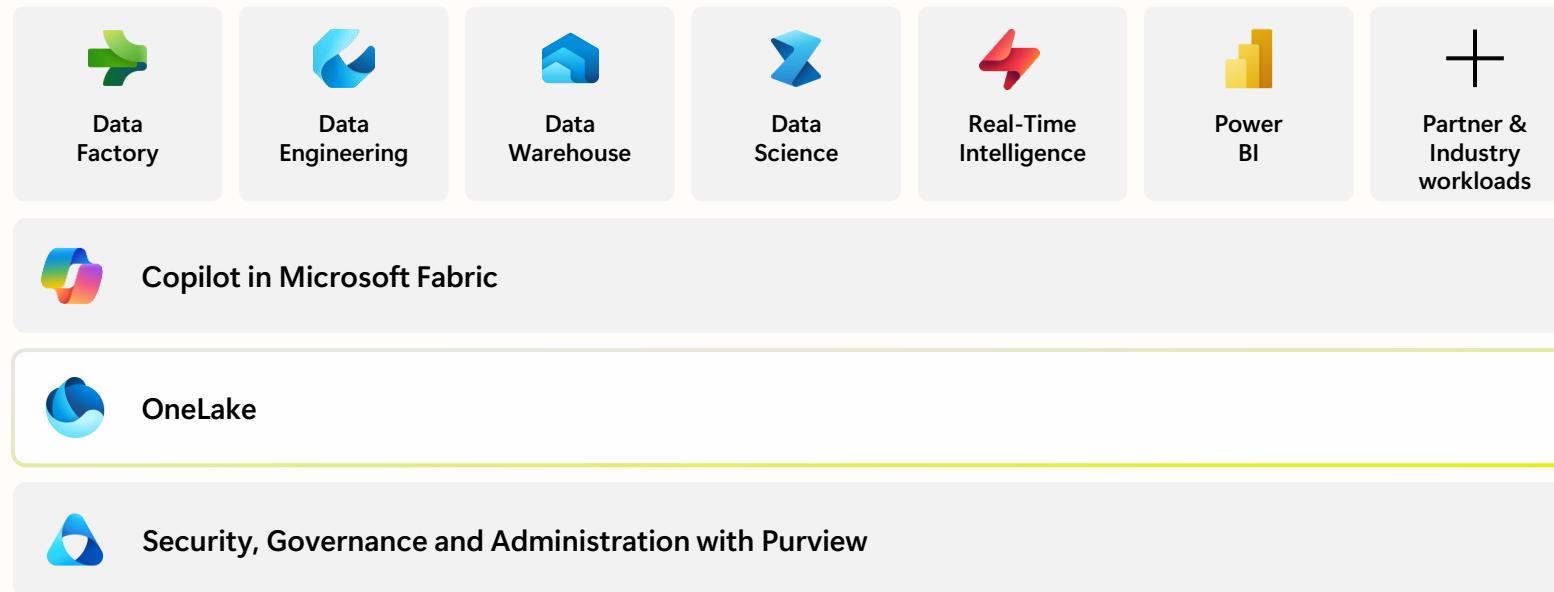


- Chat with AI assistant and request help handling data analysis
- Code more efficiently with intelligent code completion and generated code explanations
- More quickly enrich, model, analyze, and explore data all through natural languages
- Create Power BI reports automatically and summarize your insights for streamlined productivity
- Access industry-standard code templates to facilitate building robust data pipelines

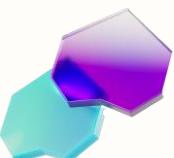


Unified data foundation with OneLake

Manage and analyze all your data across your organization in a unified, secure, and centralized SaaS data lake for everyone with OneLake—the “OneDrive” for data



- A single and open, logical SaaS lake for the whole organization
- OneLake supports any type of file, structured or unstructured
- One copy of data for use with multiple analytical engines
- Enable virtualization of data without duplication using shortcuts
- All workloads automatically store their data in OneLake in Delta Parquet format
- Data in OneLake is automatically indexed for discovery, sharing, governance, and compliance



Security, Governance and Admin in Microsoft Fabric

Manage, secure, and govern all your data in Microsoft Fabric and beyond



Data Factory



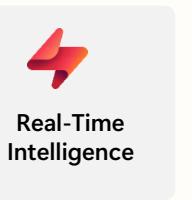
Data Engineering



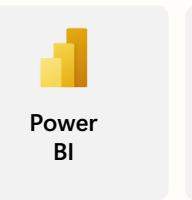
Data Warehouse



Data Science



Real-Time Intelligence



Power BI



Partner & Industry workloads



Reduce the effort needed to defend and control your entire analytics platform with out-of-the-box security and governance



Secure your network from any intrusion, ensure only the right people have access to the right data, and maintain compliance with even the strictest requirements



Enable different parts of the organization to take ownership of their data while still contributing to the same data lake



Certify datasets to promote usage of the most accurate data across the organization



Maintain the flexibility to use the partner and third-party solutions you want



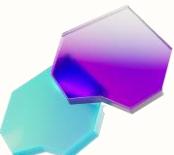
Copilot in Microsoft Fabric



OneLake



Security, Governance and Administration with Purview



Die am häufigsten gestellten Fragen zur Power BI Premium-Kapazität

Nach dem 1. Februar 2025 können Kunden mit ablaufenden Enterprise Agreements (EA) oder Microsoft Cloud Agreements keine Power BI Premium-Kapazität mehr über ihren Vertrag hinzufügen oder erwerben.

What you must do:

- Purchase Fabric capacity.
- Reassign workspaces to Fabric capacity.
- Use Admin Portal for bulk assignments
- Perform bulk assignments via Admin Portal if needed.
- Must be an owner or have reservation purchaser role in Azure subscription.
- Available through Enterprise (EA) or Pay-As-You-Go subscriptions.

What you could do:

- Start a Proof of Value incl. the migration from Power BI Premium
- Explore the Fabric bring value to your business based on your Business data & use cases
- Explore a Unified data Platform
- On-Premises Data Gateway
- Financially Supported from Microsoft
- Explore Efficient time-to-Value approach with Fabric
- [Microsoft Fabric Featured Partner | SoftwareOne: Your Data, Your Advantage](#)

Die am häufigsten gestellten Fragen zur Power BI Premium-Kapazität

On-premise licenses and Cloud Subscriptions

Power BI Free			Author
Power BI Pro			Author & Viewer
Power BI Premium			Capacity Pricing Author Power BI Pro, Consumer Power BI Free
Power BI Report Server			Power BI Premium & SQL EE incl. SA Author Power BI Pro, Consumer Power BI Free
Power BI Embedded	</>		Capacity Pricing Author Power BI Pro, Consumer Power BI Free or no license

Power BI Premium per capacity SKUs

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

Microsoft Fabric SKUs

SKU	CU
F2-F32	2-32
F 64	64
F 128	128
F 256	256
F 512	512
F 1024	1024

SoftwareOne Microsoft Fabric Roadmap – Multiple Journeys



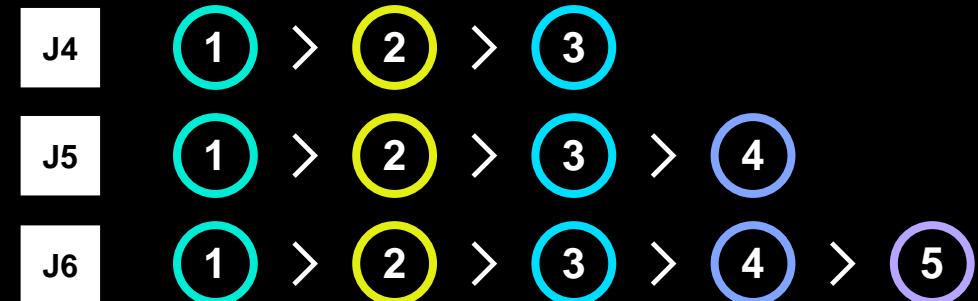
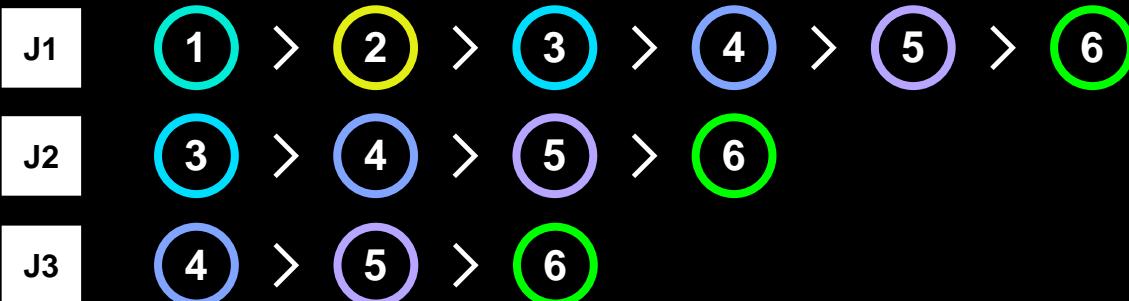
Microsoft funding for eligible customers



Microsoft funding for eligible customers

1. Microsoft Fabric Overview <ul style="list-style-type: none">Introduce Fabric features and componentsExplain platform capabilities and benefitsLicensing options	2. Usage Concepts and Best Practices <ul style="list-style-type: none">Present various design patternsHighlight modern usage approachesDemonstrate unlocking Fabric's potential	3. Analysis of Existing Platform and Use Cases <ul style="list-style-type: none">Assess current data platformIdentify key use cases for FabricCo-develop implementation strategies	4. Architecture and Solution Development <ul style="list-style-type: none">Identify all requirementsDesign a tailored solutionAlign design with business needs	5. Proof of Concept/Value <ul style="list-style-type: none">Develop functional prototypesValidate solution feasibilityShowcase Proof of Value	6. Production Deployment <ul style="list-style-type: none">Deploy the solution in productionIntegrate with existing systemsEnsure testing and training
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Multiple journeys to Microsoft Fabric



Fabric capacity pricing

Fabric capacity is priced uniquely across regions. The following table shows the pricing at US West 2 for reference. Fabric capacity can be purchased at Azure portal. Visit [Fabric pricing page](#) for more details.

1 CU pay-as-you-go price at US West 2 \$0.18/hour

SKU	Capacity unit (CU)	Pay-as-you-go (monthly)	Reservation (monthly) ~40.5% saving over Pay-as-you-go
F 2	2	\$262.8	\$156.334
F 4	4	\$525.6	\$312.667
F 8	8	\$1,051.2	\$625.334
F 16	16	\$2,102.4	\$1,250.667
F 32	32	\$4,204.8	\$2,501.334
F 64	64	\$8,409.6	\$5,002.667
F 128	128	\$16,819.2	\$10,005.334
F 256	256	\$33,638.4	\$20,010.667
F 512	512	\$67,276.8	\$40,021.334
F 1024	1024	\$134,553.6	\$80,042.667
F 2048	2048	\$269,107.2	\$160,085.334

Note:

1. 1 CU PAYGO monthly rate calculation: $\$0.18 * 730 = \131.4 . F2 = $\$131.4 * 2 = \262.8
2. 1 CU RI monthly rate calculation: Round $(\$0.18 * (1 - 0.405) * 730 * 12,0) / 12 = \sim \78.166 ...F2 RI = $\sim \$78.166 * 2 = \sim \156.334

3. Power BI Pro license is required for all Power BI Premium ("P") and Fabric Capacity ("F") SKUs to publish Power BI content to Microsoft Fabric. Enabling content consumers to review and interact with Power BI reports without additional paid per-user licenses is available at P1 and above (and F64 and above).

OneLake pricing

OneLake is a data lake built into Microsoft Fabric and provides a single place to store all organizational data. Data storage is charged at a rate of \$ per GB per month and priced uniquely across regions.



Data Storage



Data Transfer & Internet Egress

Type	Pay-as-you-go price at West US 2
OneLake storage	\$0.023 per GB/month
OneLake BCDR storage	\$0.0414 per GB/month
OneLake cache	\$0.2 per GB/month

Cross-region data transfer network charges may apply based on source/destination of each storage access. Learn more at [Bandwidth Pricing](#).

Note: OneLake cache is billed for KQL cache storage and Data Activator data retained.



Data and AI

Data-driven, AI-powered



Professional Services

Data Foundations

Advisory Services

Envision a data-driven and AI-powered future and align business outcomes

Platform Services

Establish a strong technology and governance foundation

Solution Services

Gain a competitive edge with tailor-made data and AI solutions

Analytics and AI

SoftwareOne Intelligence Fabric

AI Strategy

Data Management

Data Synthesis

AI Design

ML/AIOps

User Experience

Adoption and Change

Security and Governance

Partnerships

Breadth of capabilities

From GenAI employee productivity software to data modernisation to custom AI-powered applications

Proven data and AI expertise

400+ data and AI experts

Specialised knowledge of leading data sources and platforms

Ecosystem synergy

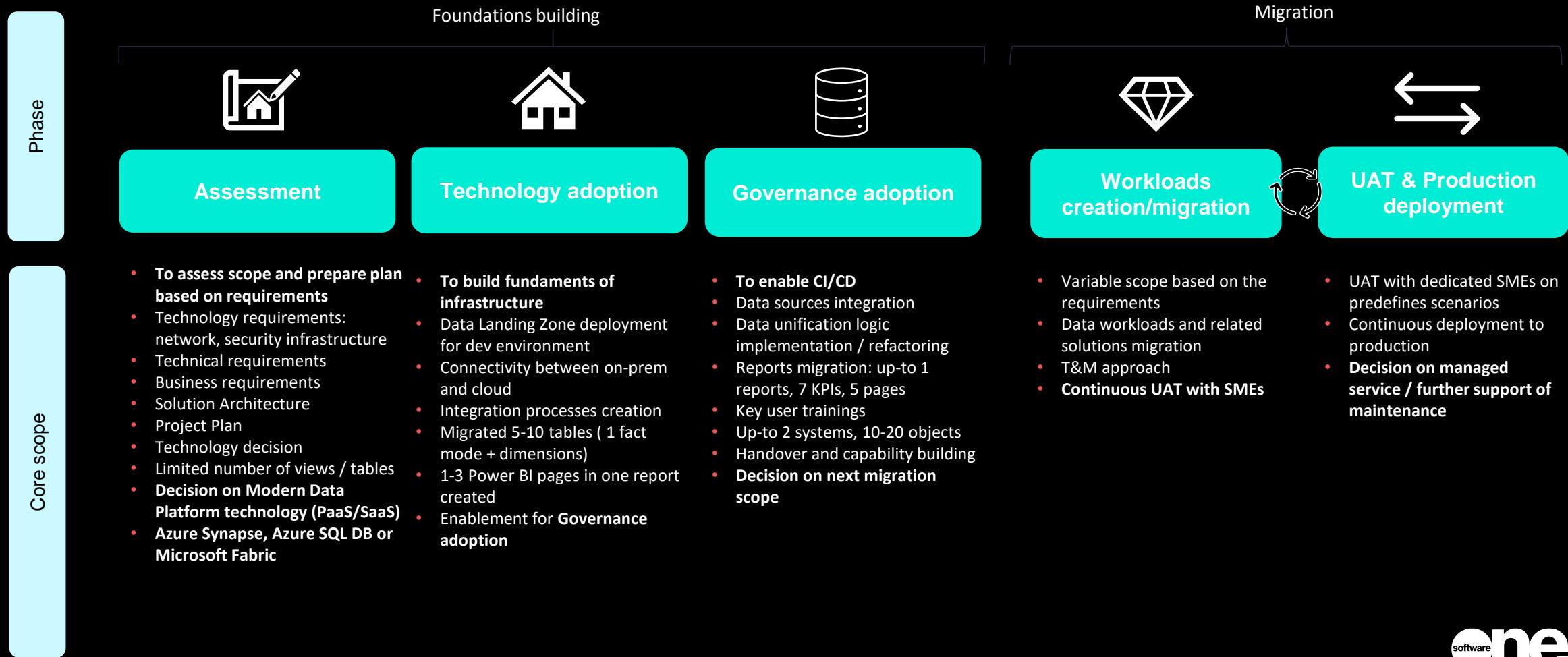
Partnerships with 30+ of the leading data and AI solution providers

Commercial excellence

Enterprise-grade digital transformation for businesses of all sizes

Modern Data Platform adoption journey with SoftwareOne

Ensure success for your Modern Data Platform Journey with SoftwareOne for Seamless Assessment, Adoption, and Migration



SoftwareOne Microsoft Fabric Roadmap – Multiple Journeys



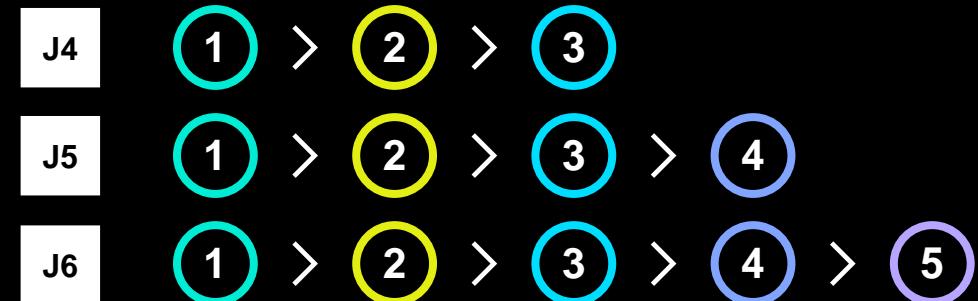
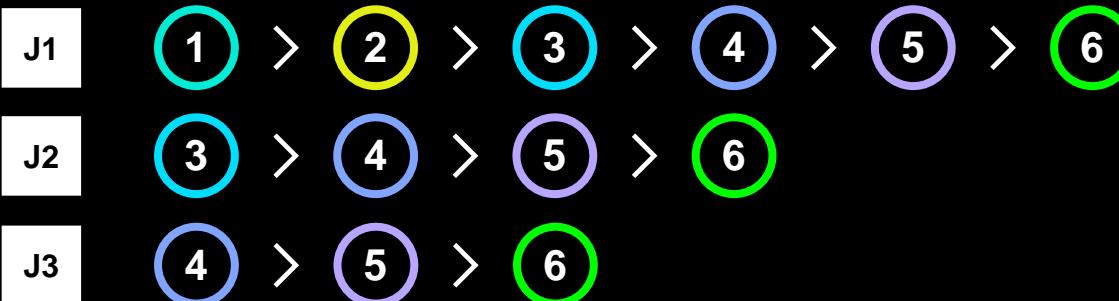
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Multiple journeys to Microsoft Fabric



SoftwareOne is your partner of choice for Microsoft Fabric

Example of a typical SoftwareOne PoC with Microsoft support

1

MS Fabric Setup

Implantation of trail of Fabric (F64). Walkthrough Fabric to get a full overview.

2

PoC Development

Implement complex SQL transformations. Create a basic Power BI report.

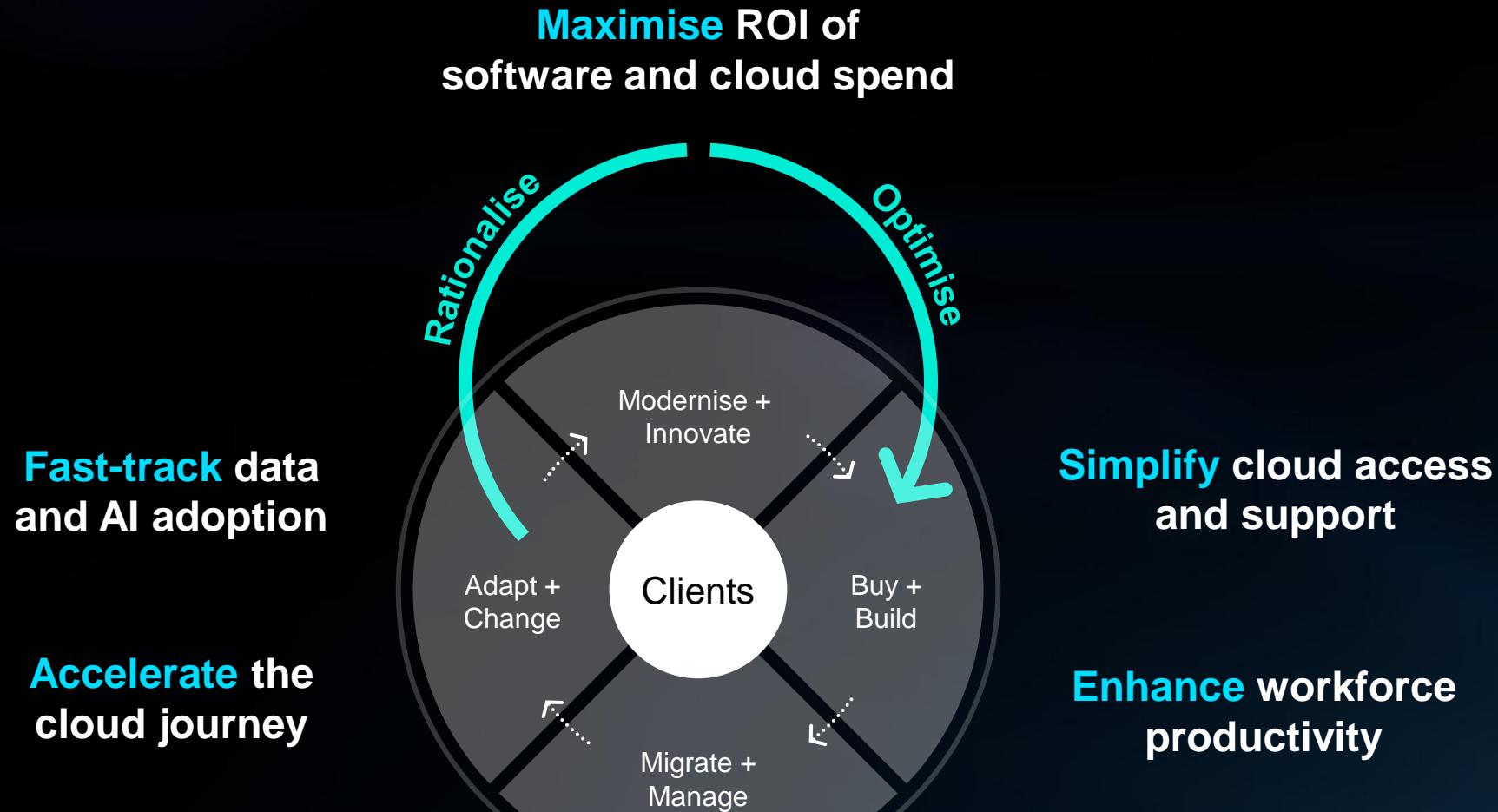
3

Presentation

Present the PoC (on-site) to SoftwareOne.

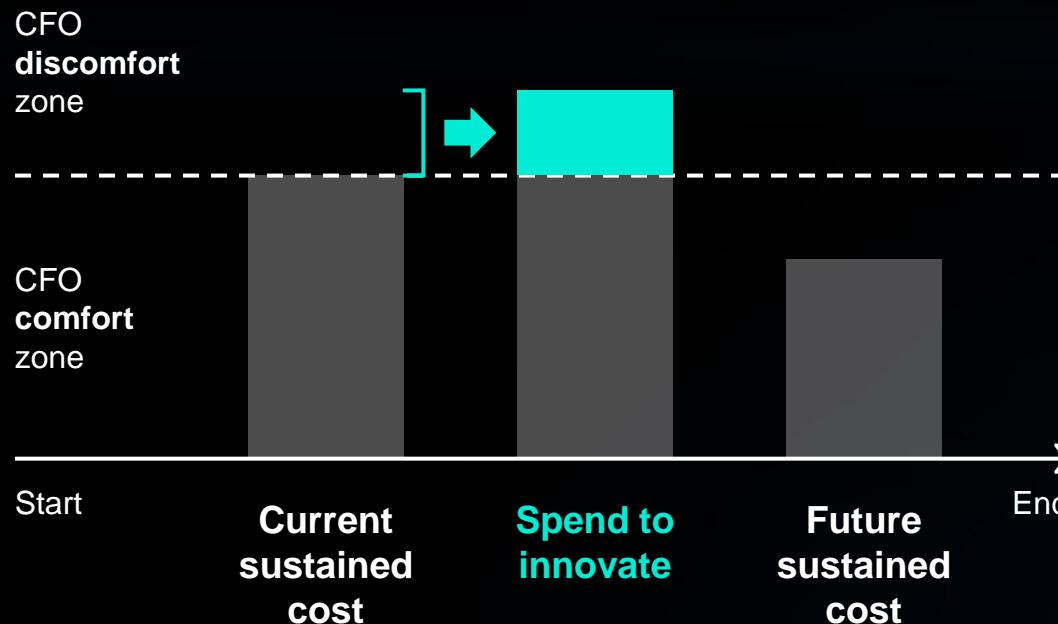
The Proof of Concept (PoC) aims to validate requirements within the IT system. This will be used to design and execute a full implementation plan for the data loading pipeline.

Optimise to transform using the SoftwareOne Flywheel.

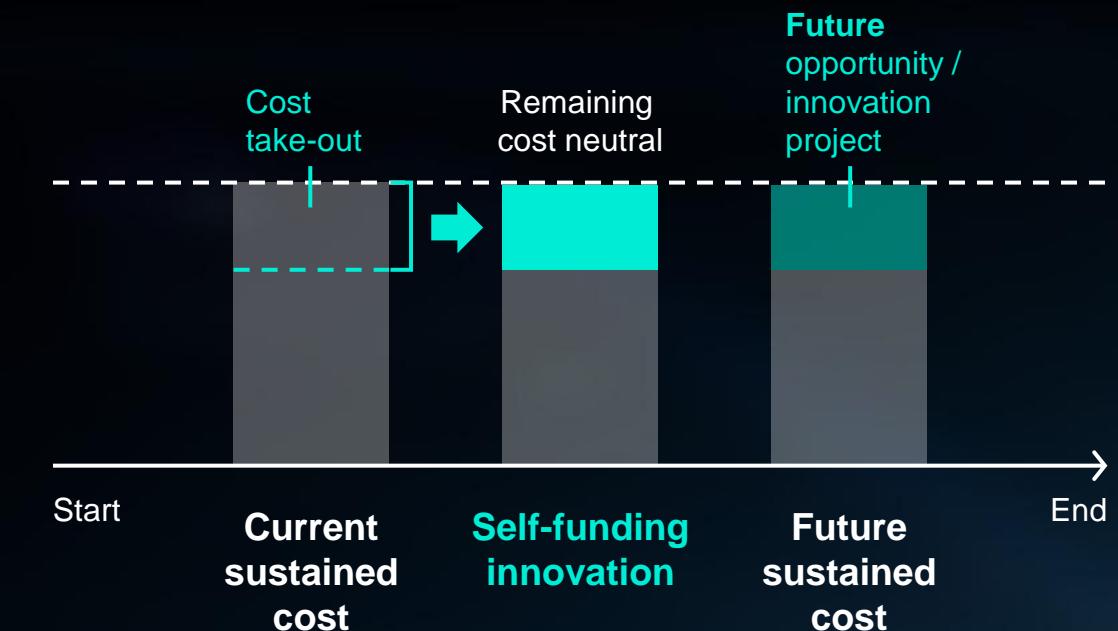


Take cost out first to help fund the next wave of innovation.

Typical budget profile



The SoftwareOne way



Our people. Our values.



software
one

Get in touch



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test

