

Fabric Hands-on Day Morning

<Pre><Presenter
Company name>



Thank you!



Agenda (times are approximate and will be fluid with the class)

| Morning | |
|---------------------|-------------------------------------|
| 09:00 AM – 09:15 AM | Welcome and session introduction |
| 09:15 AM – 10:30 AM | Keynote – Microsoft Fabric Overview |
| 10:30 AM – 10:45 AM | Break |
| 10:45 AM – 11:00 AM | Environment setup |
| 11:00 AM – 12:30 PM | Lab 1 Lakehouse end-to-end scenario |
| 12:30 PM – 01:30 PM | Break for lunch |

Afternoon

| 01:30 PM – 02:00 PM | Keynote – Microsoft Fabric Momentum & Roadmap |
|---------------------|---|
| 02:00 PM – 02:30 PM | Demo – Fabric "All around" |
| 02:30 PM – 03:15 PM | Lab 2 Pick-choose your lab |
| 03:15 PM – 04:00 PM | Break |
| 04:00 PM – 04:30 PM | Continuation of Lab 2 |
| 04:30 PM – 05:00 PM | Q&A |



Microsoft Fabric Hands-on Day Meet your proctors

Proctor 1 Name

Proctor 1 Role & Company

Proctor 2 Name

Proctor 2 Role & Company

Proctor 3 Name

Proctor 3 Role & Company

Proctor 4 Name

Proctor 4 Role & Company

Proctor 5 Name

Proctor 5 Role & Company

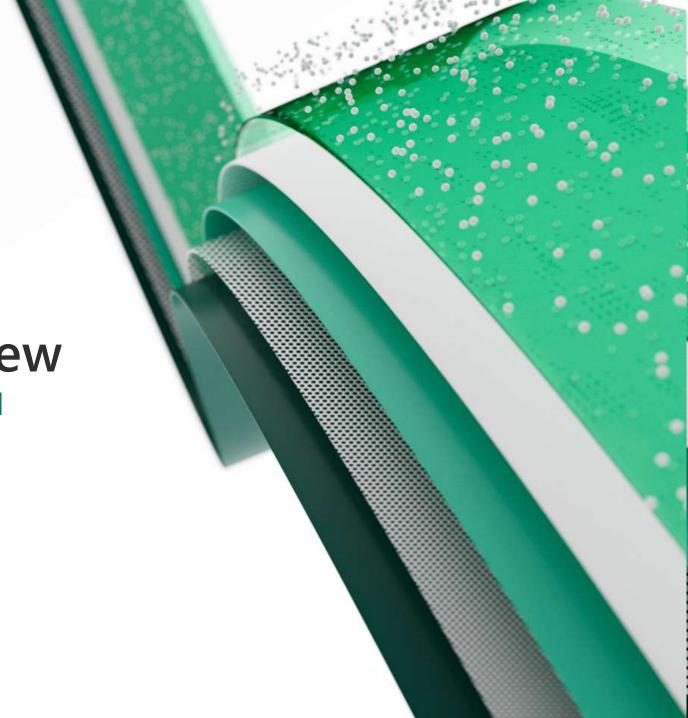
Proctor 6 Name

Proctor 6 Role & Company



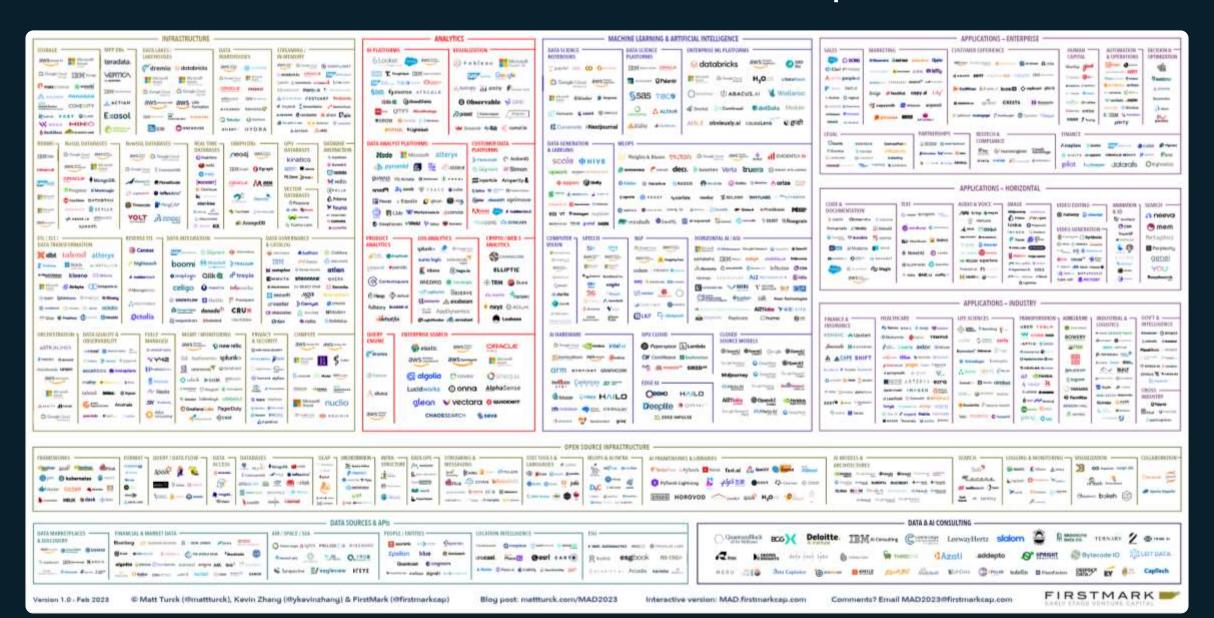
Microsoft Fabric Overview

A unified analytics solution for the era of Al



How do you translate data into competitive advantage?

The 2023 ML, AI, and Data Landscape



" Simplify,

I am the Chief Data Officer and don't want to be the Chief Integration Officer."

Every CDO, Every Enterprise

How do we achieve this Simplification?

Data Access

"Lake-centric
and open
architecture"

A complete analytic platform in SaaS

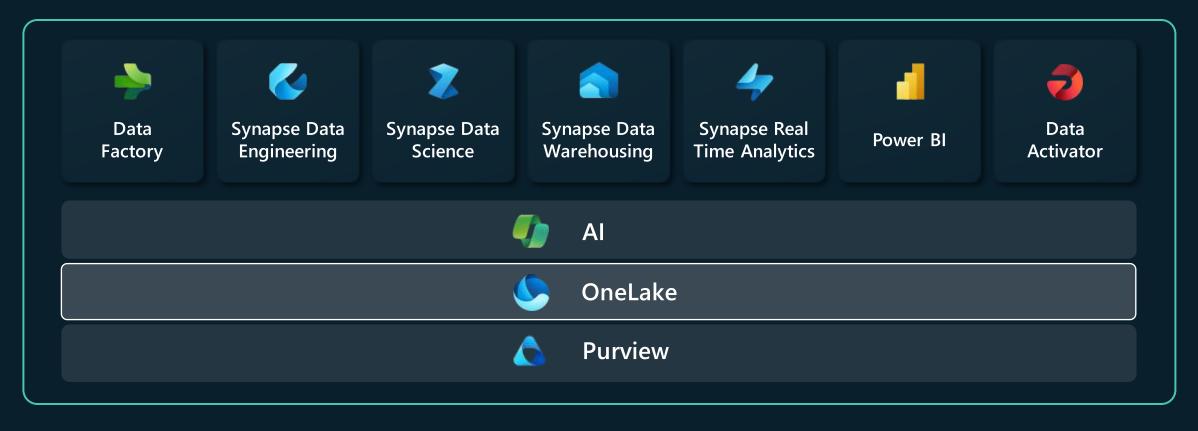
Being more productive with AI & Copilot



Microsoft Fabric Data analytics for the era of Al



Microsoft Fabric The unified data platform for the era of Al

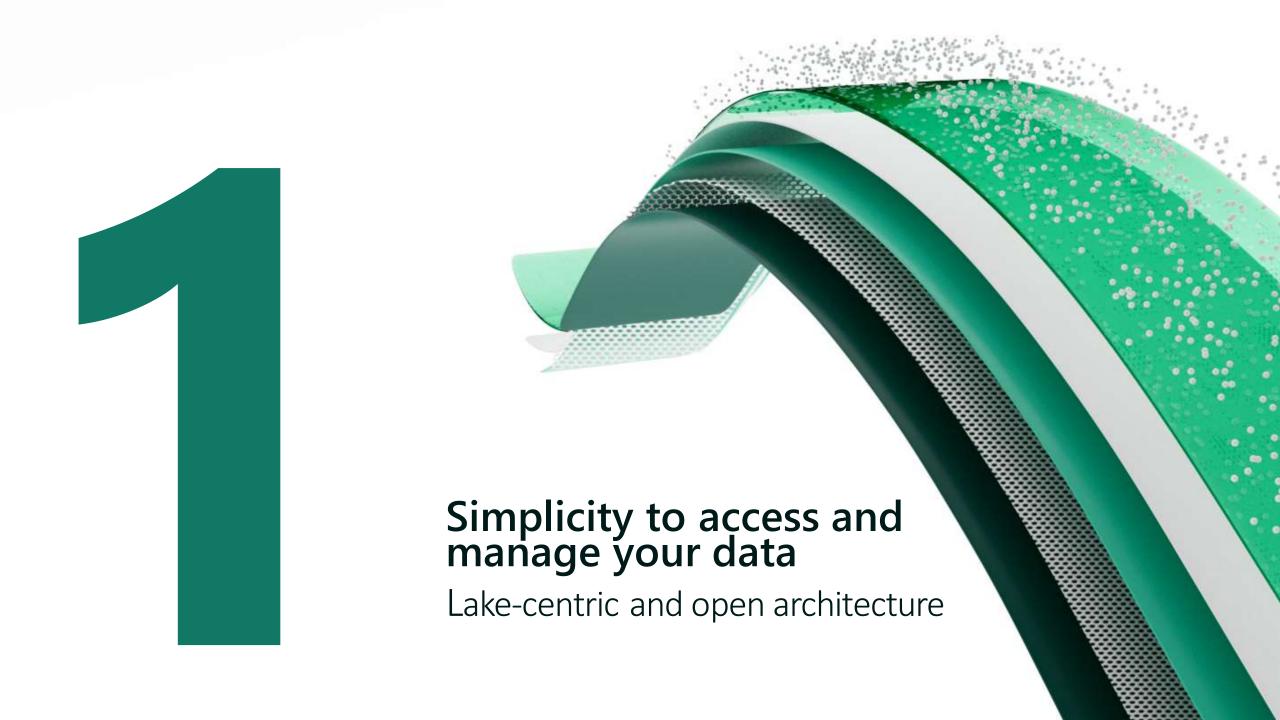


Unified architecture

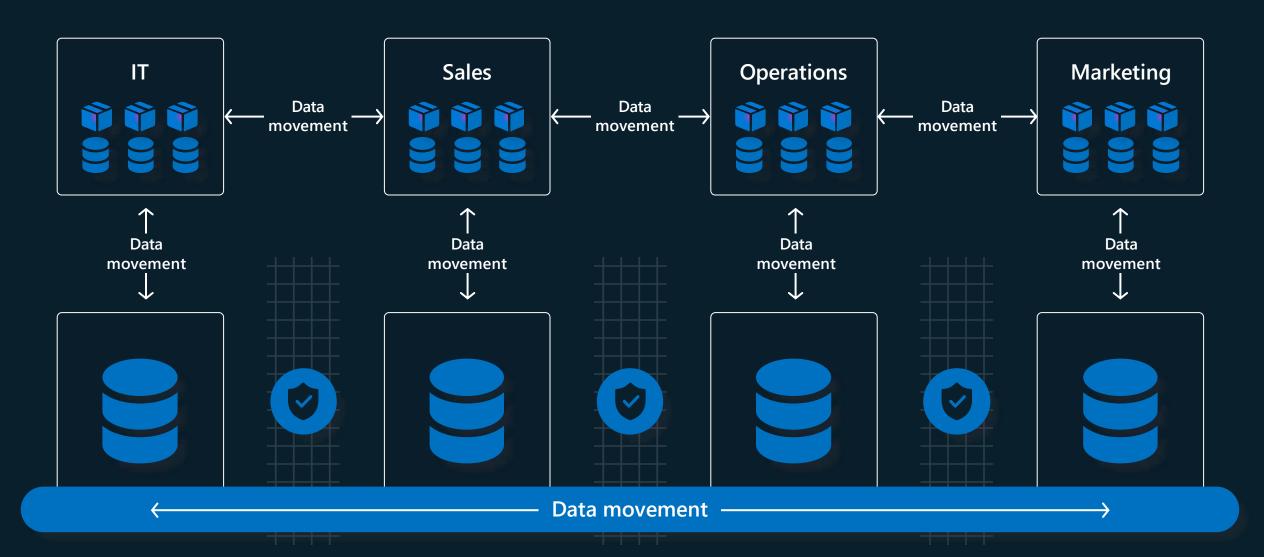
Unified experience

Unified governance

Unified business model



Today: Multiple siloed lakes with lots of duplication



OneLake for all data "The OneDrive for data"



OneDrive for documents

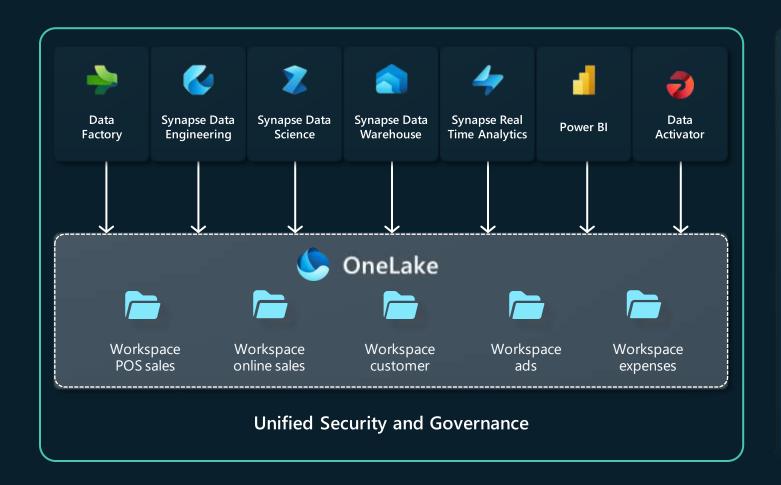


OneLake for data

OneLake provides a data lake as a service without you needing to build it

A single unified SaaS data lake

"No Silos"



Provisioned automatically with the tenant.

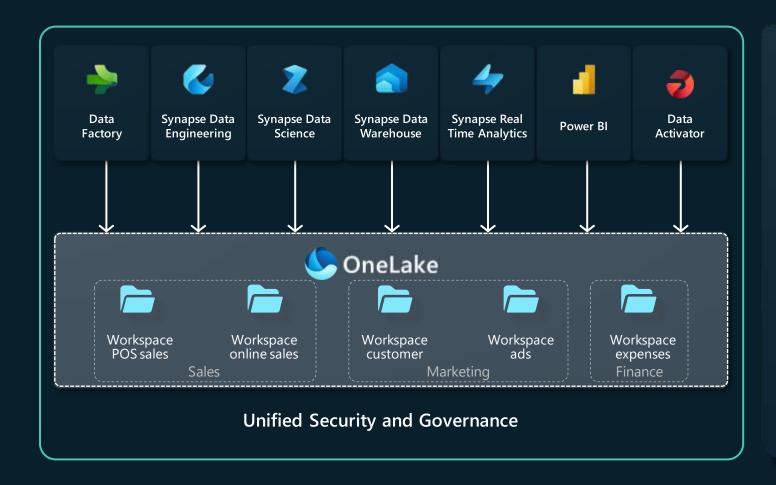
Any data in OneLake works with out-ofthe-box governance such as data lineage, data protection, certification, catalog integration, etc. All data is ultimately under the control of a tenant admin.

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.

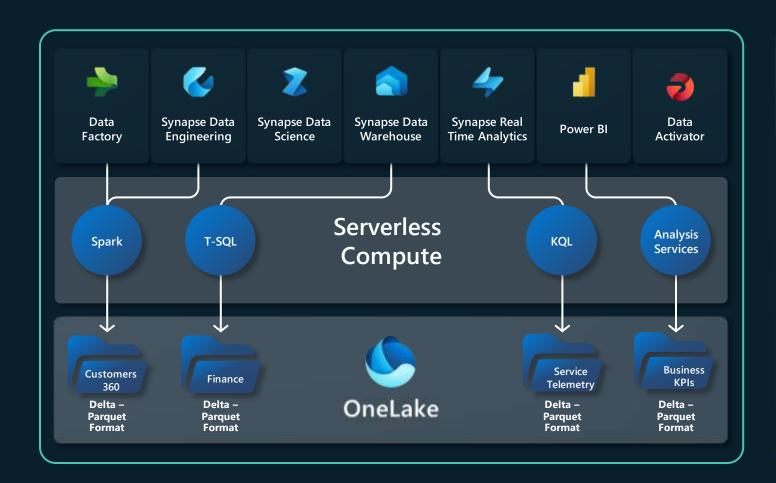
Domains are defined with domain admins and contributors who can associate workspaces and group them together under a relevant domain.

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.

One Copy for all computes Real separation of compute and storage



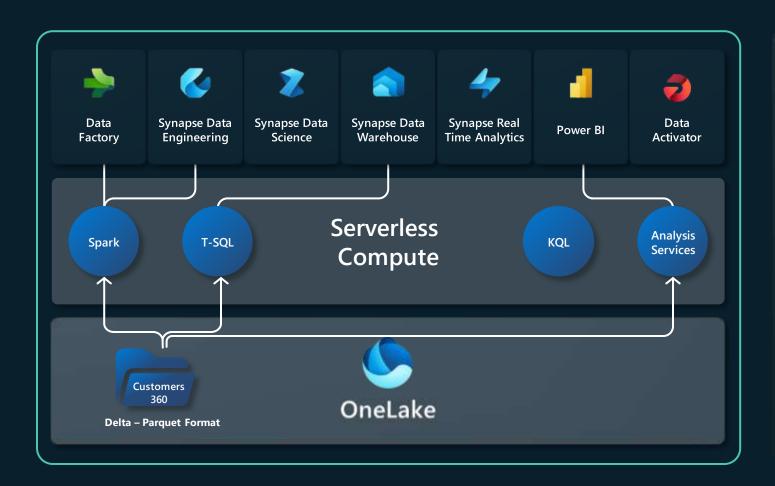
All the compute engines store their data automatically in OneLake as data items.

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 computes 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.

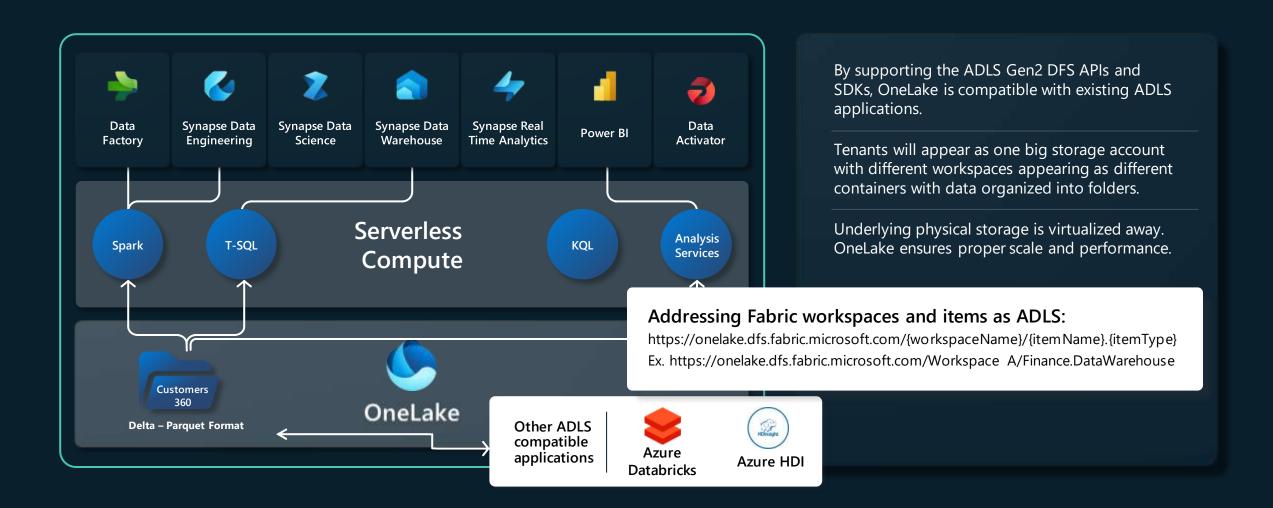
You are able to choose the right engine for the right job.

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

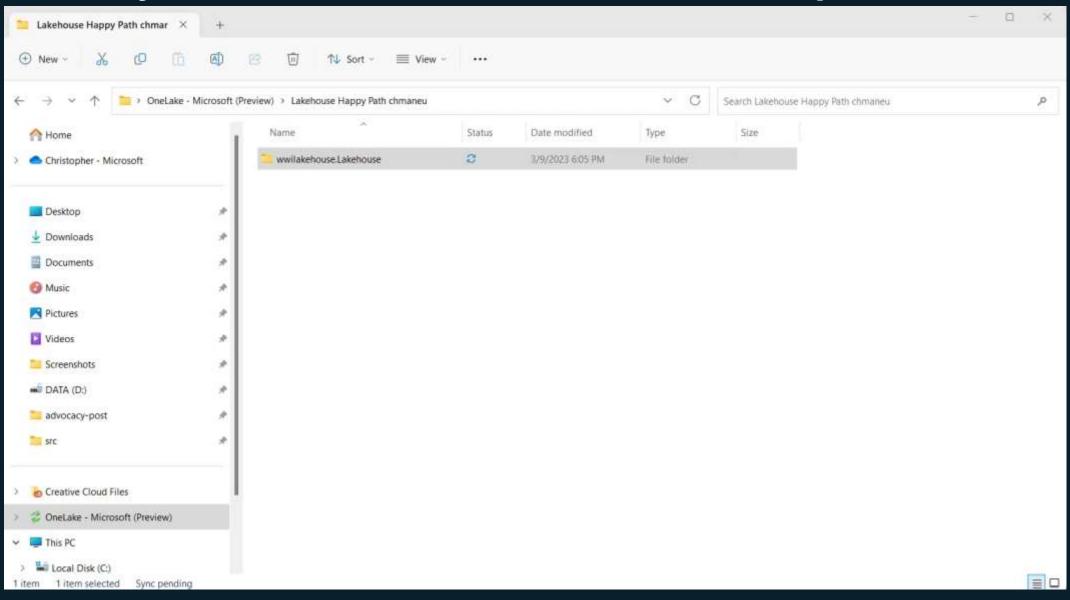
Shared universal security model is enforced across all the engines (coming soon).

Open Access to data in OneLake

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

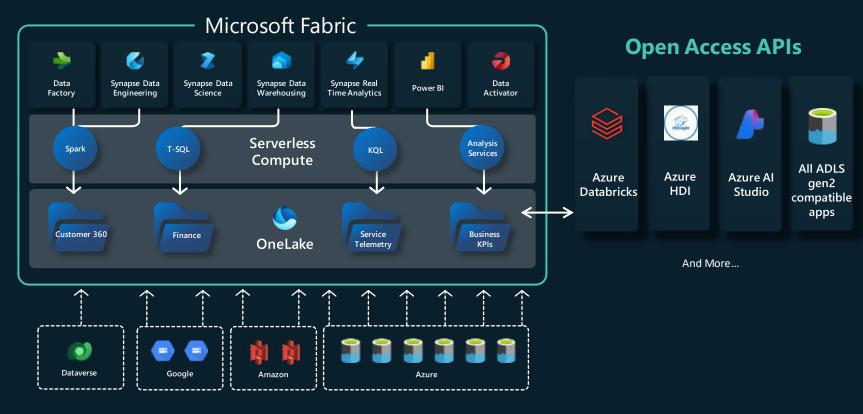


Browse your OneLake from Windows Explorer



All roads lead to OneLake Creating Data Gravity in OneLake

Fabric compute engines

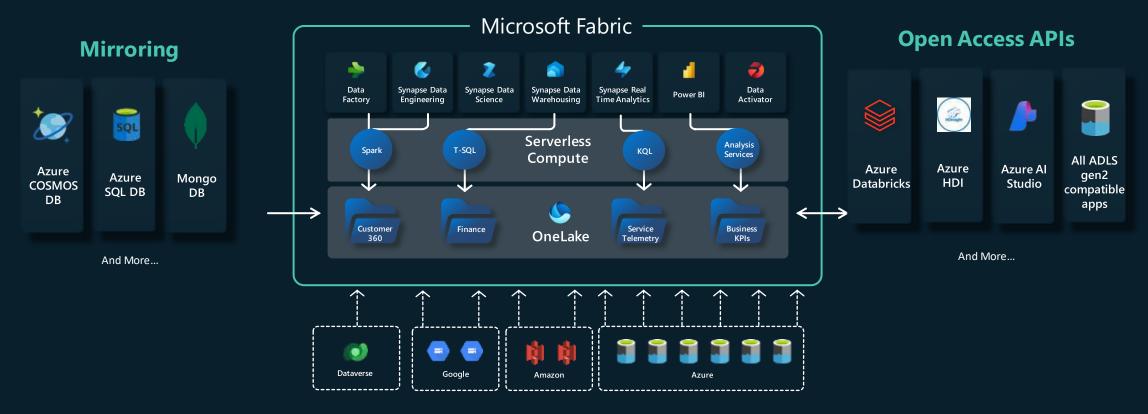


Multi-cloud shortcuts

All roads lead to OneLake

Creating Data Gravity in OneLake

Fabric compute engines



Multi-cloud shortcuts



Predictable Architecture patterns

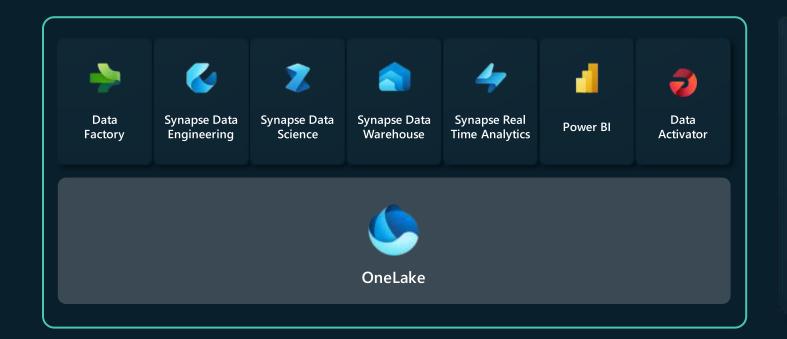


Analytics has very predictable patterns

Microsoft has all the products with the right scale needed to build a complete analytics system

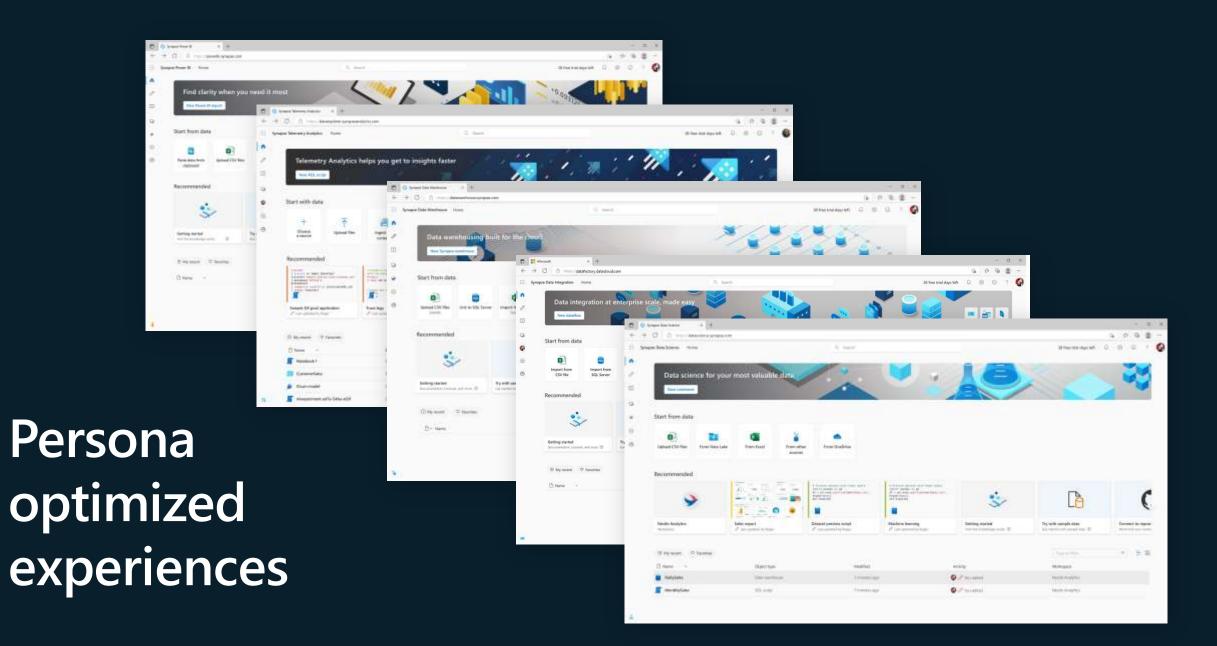
Predictable Architecture patterns

Unified inside a single tool



Analytics has very predictable patterns

Microsoft has all the products with the right scale needed to build a complete analytics system



A SaaS solution

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

DEMO Different persona and SaaS experience

One Copy for all computes Real Separation of compute and storage

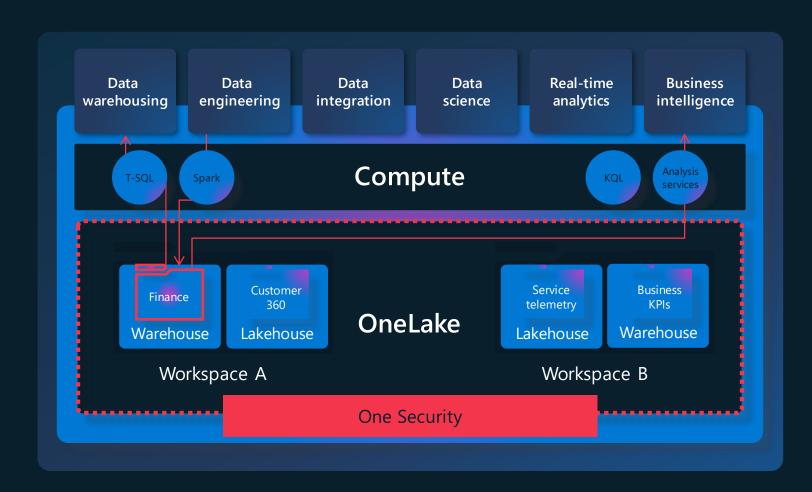


One Security (coming) Secure once and use everywhere

Shared universal security model is enforced by all the engines

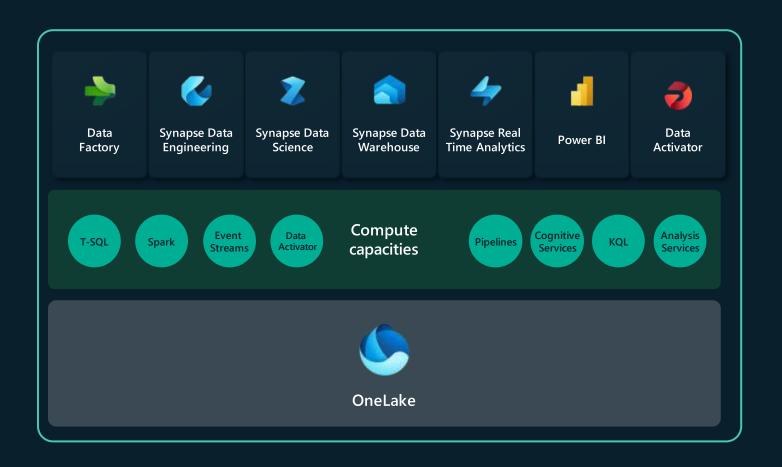
More granular security can be defined once in OneLake. This includes column level security, row level security, data masking, etc.

Security definitions will flow across all shortcuts and will be enforced in all engines including non-Fabric engines



Universal compute capacities

"All in one"



Microsoft Fabric comes with a rich set of compute engines

Universal Compute Capacities provide the power to the various engines

"All in One" – Each of the compute capacity can power all the engines

There is no need to size in advance the individual engines, or to split the capacity across the engines

All Power BI Premium capacities are upgraded automatically to the Universal Compute Capacities, no additional purchase required

Universal compute capacities

Microsoft Fabric Capacity

A shared capacity that provides a set of capacity units (CUs) powering the compute for Data Warehouse, Data Integration, Data Science, Data Engineering, Real-Time Analytics, and Power BI.











Simplicity of purchasing

No need to purchase separate compute for each workload

Flexibility in use

With no pre-allocation required, the same set of CUs can be used for any workload

Cost savings

All CUs are pooled together and are not locked to an idle workload Value optimization

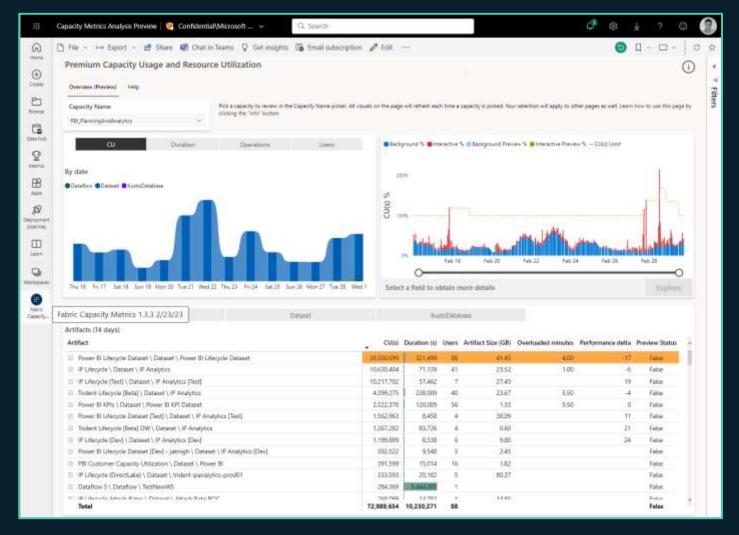
Automatically adjust compute capacity with autoscale

Easier to manage capacity with smoothing

Transparent monitoring

Centralized dashboard to monitor usage and costs in Microsoft Fabric utilization and metrics app

Capacity Metrics Tools for Admin usage monitoring



Unified Compute
Capacities and Data
Governance

Tenant wide visibility into capacity usage for all Trident workloads in one place

Identify resource usage trends across artifacts and operations

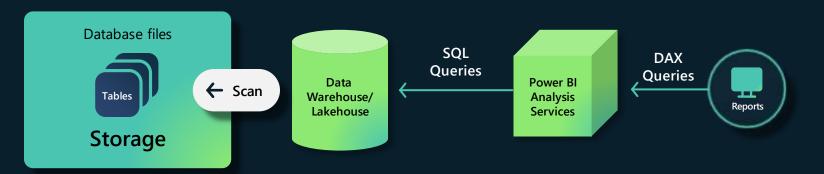
Monitor the impact of throttling to user experience to make scale-up decisions

View preview usage in parallel with production workloads to make data-driven capacity sizing decisions

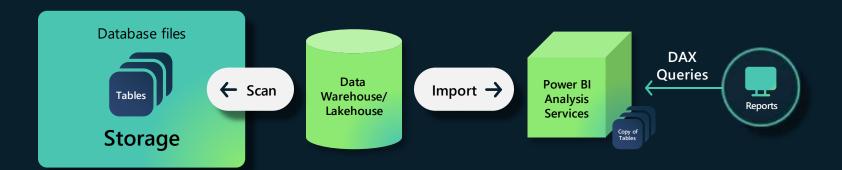
Power Bl

When simplicity meets performance

"Direct Query Mode" Slow, but real time



"Import Mode"
Latent & duplicative but fast



"Direct Query Mode" Slow, but real time

Database files

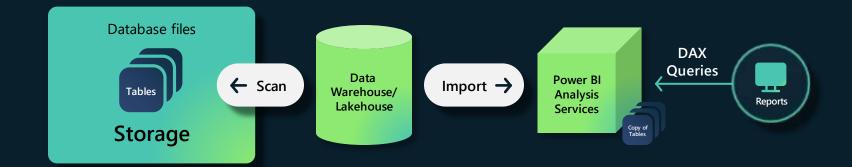
SQL
Queries

Power Bl
Analysis
Services

Power Bl
Analysis
Services

"Import Mode"

Latent & duplicative but fast



"Direct Lake Mode" Perfect!



Lakehouse

Everything at once





Microsoft Fabric

The data platform for the era of Al



Accelerating Productivity with Copilots

Stay focused on unlocking value from your data with Copilots accelerating every experience



Generative Al on Your Data

Create Al plug-ins to deliver custom Al experiences for your data



Al Driven Insights

Unlock deeper insights and drive action faster with best-in-class Al models





Al Plug-ins for your data

Create Al plug-ins to deliver custom generative Al experiences for your data



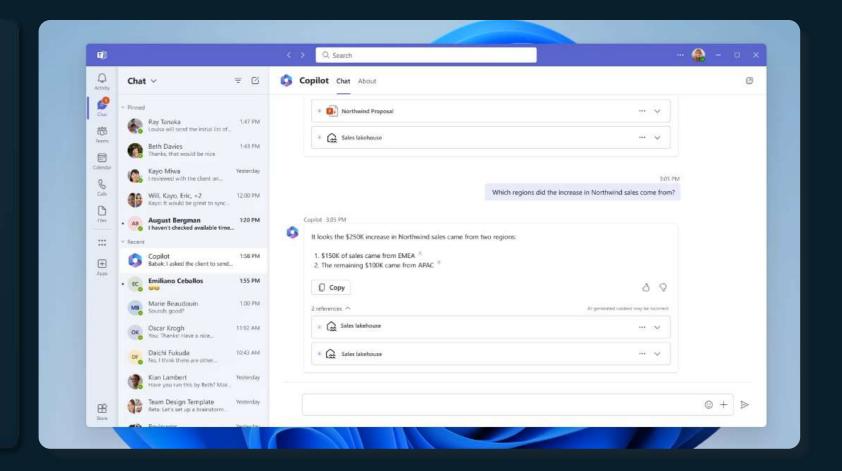
Enable **custom Q&A** on your data in **Fabric**



Define custom business semantics and grounding unique to your organization



Deploy plug-ins to work seamlessly with **Copilot in Business Chat**





FABRIC LICENSING

INFRASTRUCTURE

CAPACITY

Shared across all analytics workloads

Can be resized up, down and even paused

Attached to a specific region

Sold as Capacity Unit (cu), from 2 to 2048

\$0.18/CU/Hour, MINIMUM 2 CU (ONLY \$9/DAY!)

STORAGE

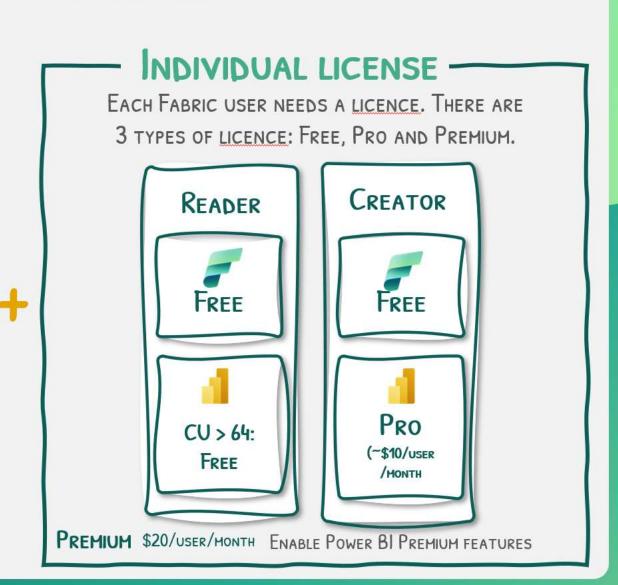
You pay for the storage you consume.

Price varies from region to region

\$0.023/GB/MONTH

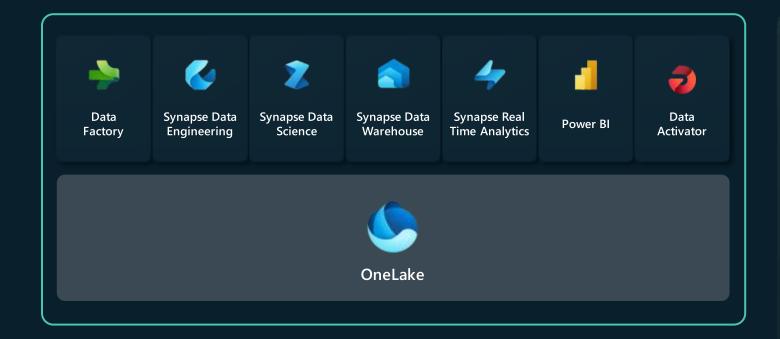
NETWORK

CROSS-REGION DATA TRANSFER CHARGES,
EGRESS CHARGES FOR MULTI-CLOUD SHORTCUTS





Microsoft Fabric The data platform for the era of Al



Complete platform for all analytics workloads

Open at every layer, with no proprietary lock-ins

Empower business users

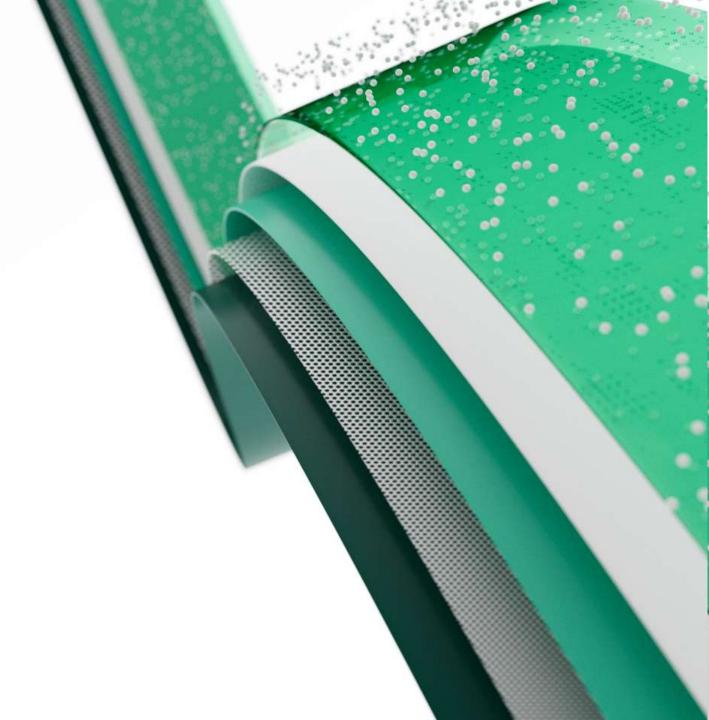
with experiences deeply integrated in Microsoft 365

Al Copilots to accelerate productivity and discover insights



Thank you

<Pre><Presenter
Company name>





Microsoft Fabric Hands-on day Labs

This morning

Lakehouse end-to-end scenario

https://aka.ms/fabric-hod/lab1



<Complete this section with instructions for your session>

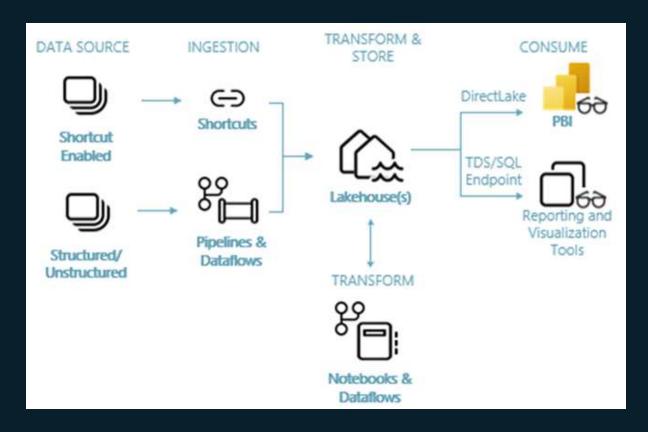


Microsoft Fabric Hands-on day Labs

This morning

Lakehouse end-to-end scenario

https://aka.ms/fabric-hod/lab1





Lab 1 – Lakehouse end-to-end scenario https://aka.ms/fabric-hod/lab1

Create a lakehouse

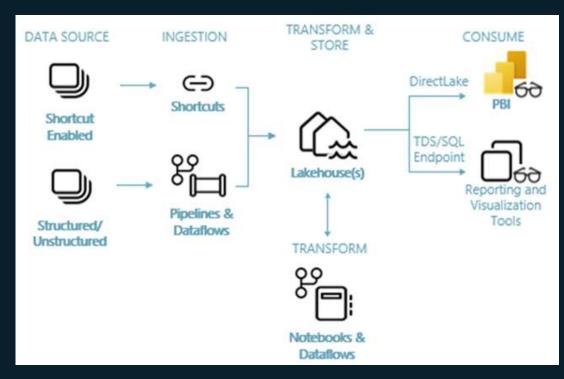
Ingest, Transform and load data into the lakehouse using Pipelines, dataflows and notebooks

Explore OneLake, OneCopy of your data across lake mode and warehouse mode

Connect to your lakehouse using TDS/SQL endpoint

Create Power BI report using DirectLake – to analyze sales data across different dimensions

Orchestrate and schedule data ingestion and transformation flow with Pipeline



Lunch break Return at 01:30 PM

