



One Lake



Deep Dive

(or at least a little deeper!)



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- Data Architect

- SQL Server

- Since 2002

- Microsoft Azure

- Since 2015

- Microsoft Fabric

- Since 2022



Agenda and content

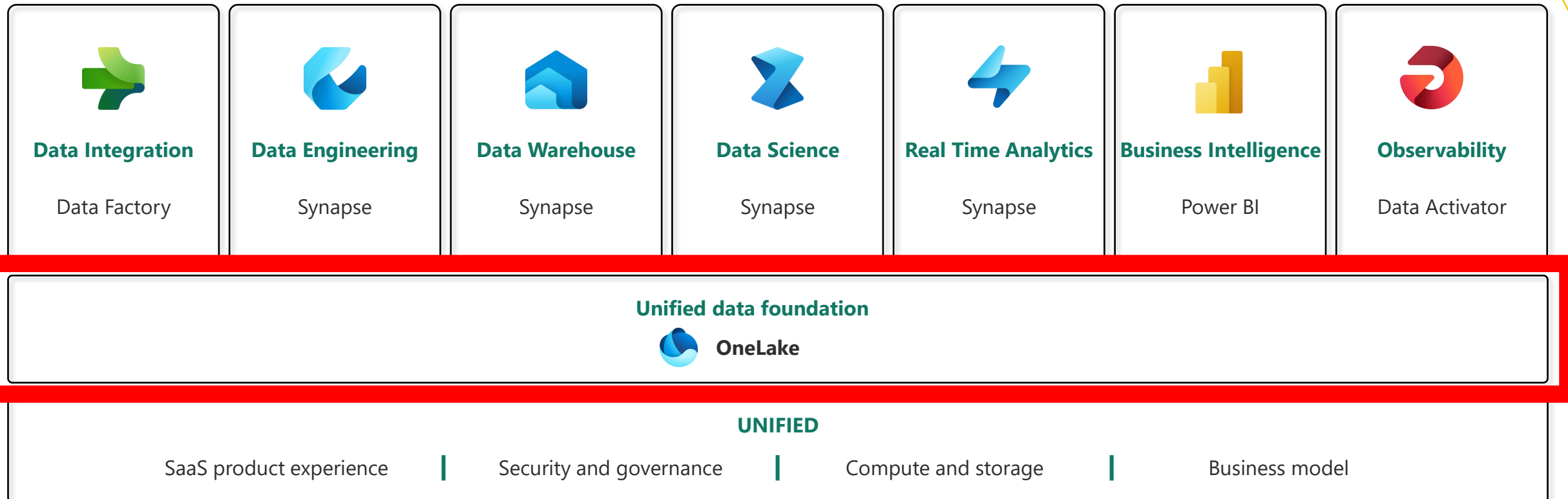
- OneLake – short recap
 - Real Time Intelligence
- Diving into the Lake (hopefully not the swamp)
- Going between lakehouses
- DELTA PARQUET
- OPTIMIZE
- VACUUM
- ?????
- Direct Lake and Power BI (DAX)

Resources

- [Data Engineering documentation in Microsoft Fabric](#)

Microsoft Fabric does it all—in a unified solution

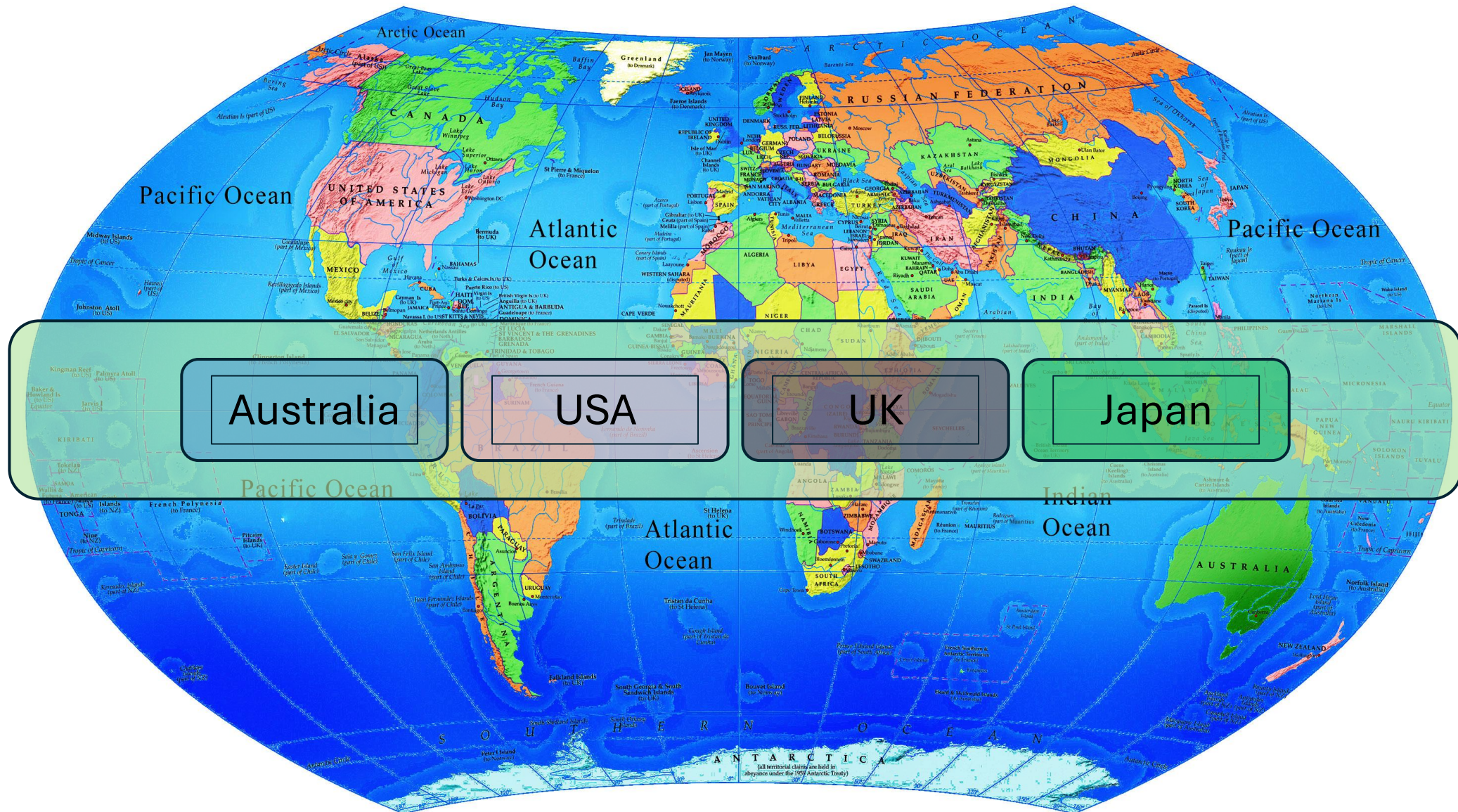
An end-to-end analytics platform that brings together all the data and analytics tools that organizations need to go from the data lake to the business user



OneLake – How many do I have?

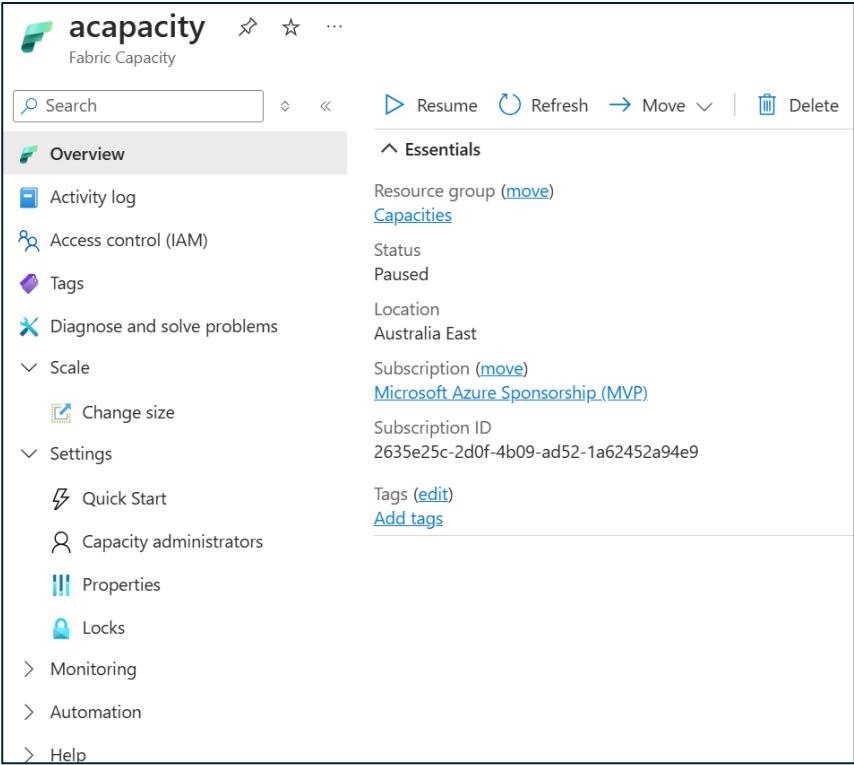


OneLake – How many do I have?



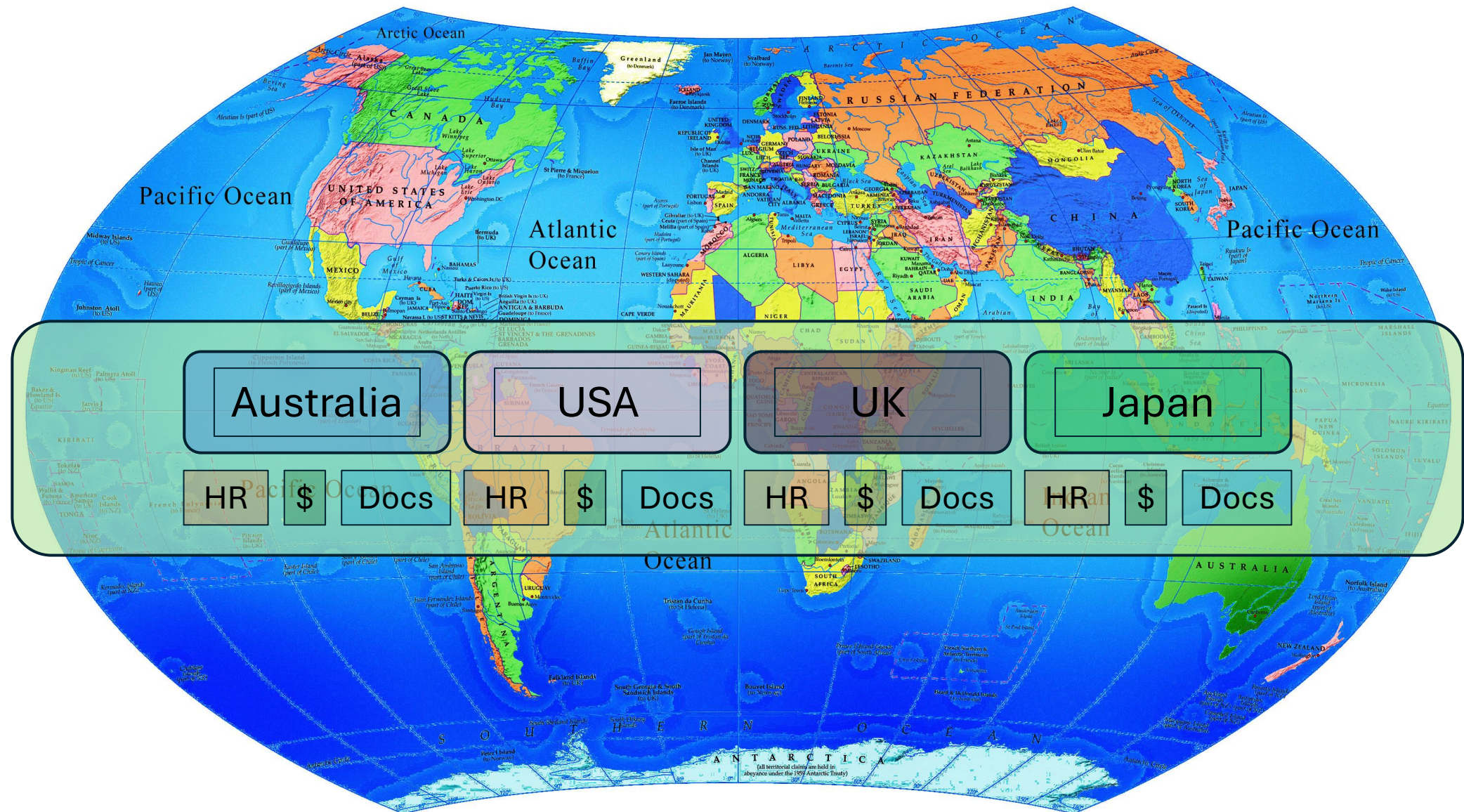
OneLake – How many do I have?

Use a Fabric Capacity Set up in the Azure Portal



SKU	Capacity Units
F2	2
F4	4
F8	8
F16	16
F32	32
F64	64
F128	128
F256	256
F512	512
F1024	1024
F2048	2048

OneLake – How to divide this up further?



OneLake – How many do I have?


Use further Fabric Capacities

Use Domains

General

— About —

Workspace image



↑ Upload

🗑 Delete

Name *

Data Virtualized

Description

Describe this workspace (Optional)

Domain

Assign this workspace to a relevant domain to help people discover the content inside it. Each workspace can be assigned to one domain.

Assign to a domain (optional) ▾

Admin portal

Tenant settings New

Usage metrics

Users

Premium Per User

Audit logs

Domains New

Workloads

Tags (preview) New

Capacity settings

Refresh summary

Embed Codes

Organizational visuals

Azure connections






Workspaces

Custom branding

Domains

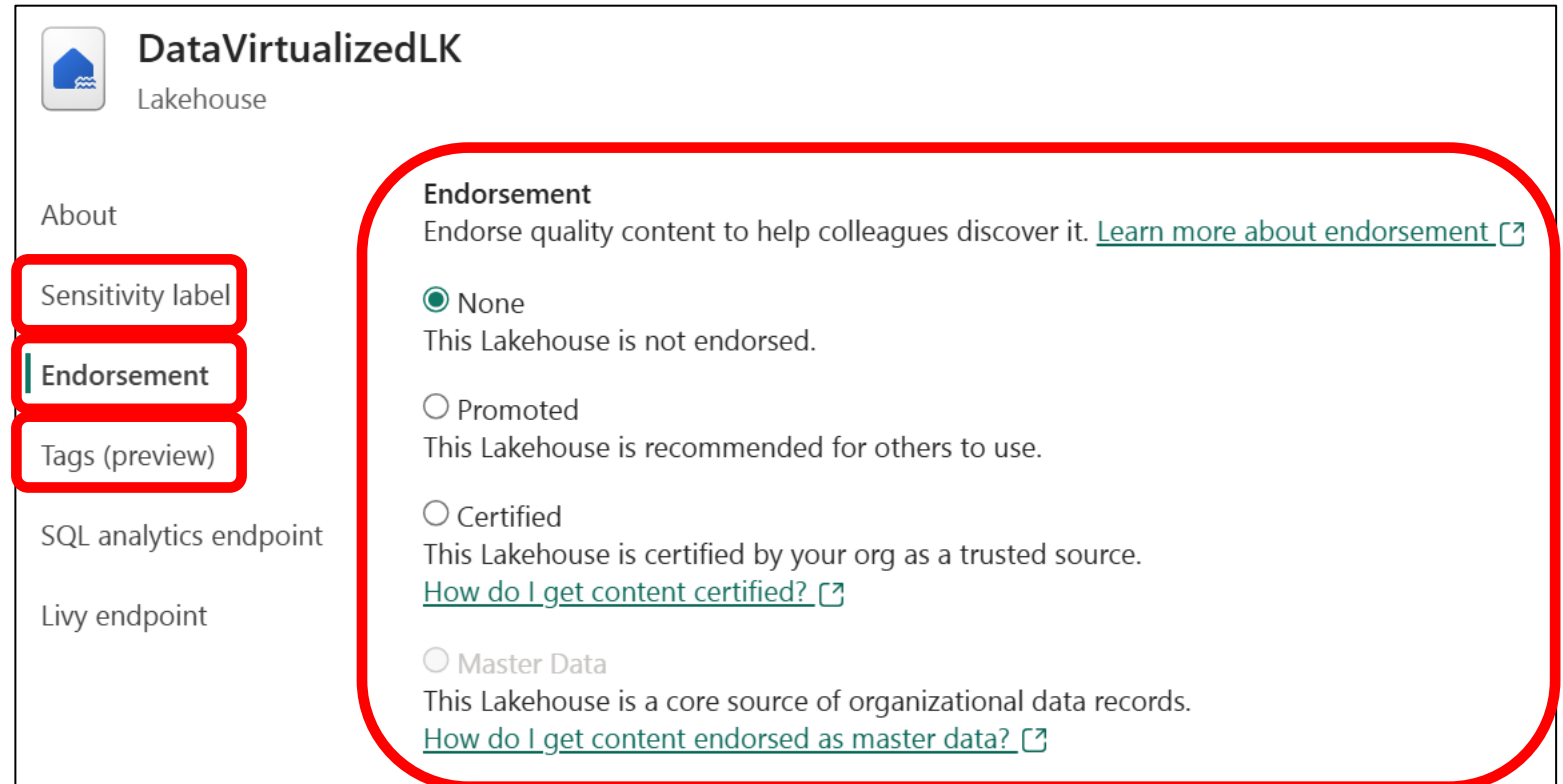
Create domains that match your org's key business segments

+ Create new domain

Domain name	Admins
 Finance	—
 HR	—
 NewDomain	—
 Test Domain	—
 Wildlife	—

Other feature to aid your Data Governance

- Endorsements
 - None
 - Promoted
 - Certified
 - Master Data
- Sensitivity Labels
- Tagging
- Task Flows
- OneLake catalog governance report (automatically generated)



OneLake Catalog

The screenshot displays the Microsoft Fabric OneLake Catalog interface. The sidebar on the left contains navigation icons for Home, Workspaces, and OneLake (highlighted with a red box). The main content area is divided into two sections. The left section, titled 'All items', shows a list of items with columns for Name, Data types, and Tags. The right section, titled 'OneLake catalog governance report (automatically generated)', provides an overview of the report, including its location, refresh date, owner, and sensitivity label. Below the overview, a table lists the tables in the report.

OneLake catalog

Explore Govern (preview)

All items by Data types: (All) Tags (preview)

All items

- My items
- Endorsed items
- Favorites

Workspaces

- All workspaces
- Data Virtualized
- Data Virtualized LK
- Notebook 1
- Notebook 1
- Admin monitoring

OneLake catalog governance report (automatically generated)

Overview Lineage Monitor Permissions

Location	Refreshed	Owner	Sensitivity label
My Workspace	2/23/25, 1:43:26 PM	Martin Catherall	General\Anyone (unrestricted)

Tables

Name	Type	Description
ActionsMeasures	Table	

OneLake Data

- The Lakehouse
 - Files (any type)
 - Structured Data
 - Tables – Parquet files (delta)
- The Warehouse
 - Structured Data
 - Tables – Parquet files (delta)

Demo

Accessing data and using shortcuts

OneLake Data – The anatomy of Delta

Why Parquet?

- Data is stored in columns (not rows)
- Can be accessed for most languages
- Has great compression
- Is an Open Standard (no vendor lock in)
- Good data type support
 - And the ***delta*** adds more

Demo

Let's see those parquet files

OneLake file explorer

OneLake Data – Accessing data

Optimize

OneLake Data – Maintenance of Delta

Vacuum

Sukrija Dziekuje
Danke Obrigado
THANK YOU
Hvala
Gracias Dank U
Thanks Grazie
Dankeschön Tak
Gratias Tibi Merci
Terima Kasih Dakujem
Kitos Köszönöm
Mahalo