Let’s talk about Data Governance and Microsoft Fabric

Wolfgang Strasser

Data Platform
NEXT STEP

Servus! Hi! Welcome!

Wolfgang Strasser

Data Consultant @ ACP CUBIDO Digital Solutions

workingondata.wordpress.com

https://www.youtube.com/@WolfgangStrasser

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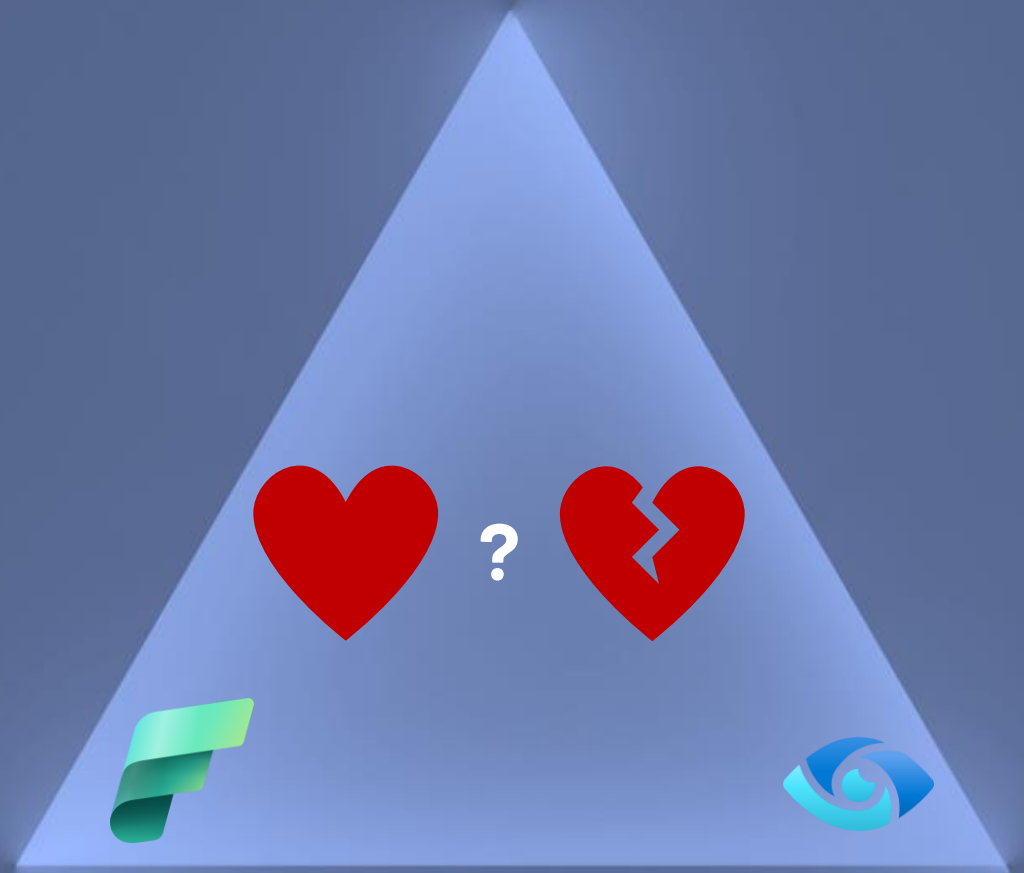
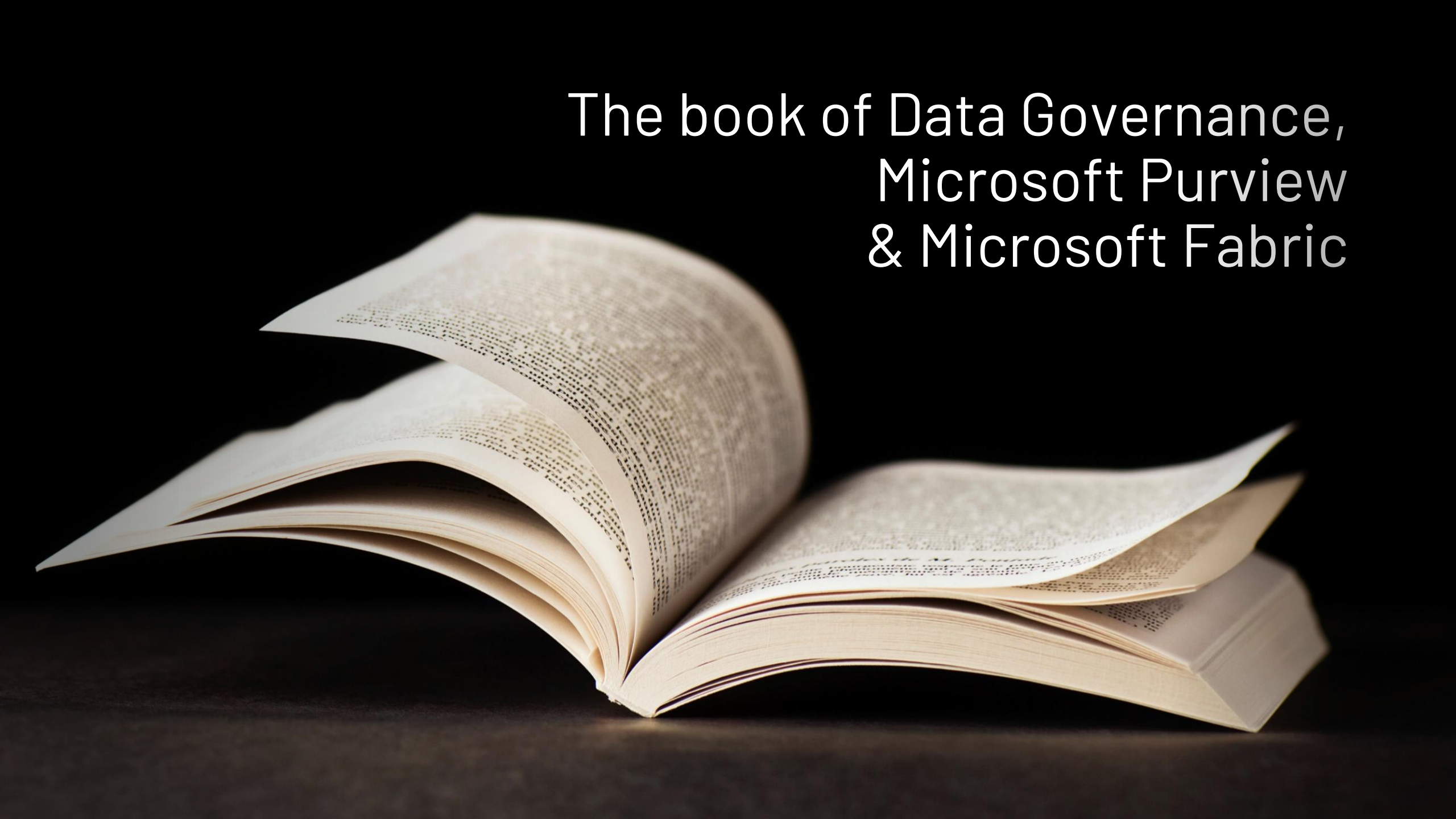
Data Governance



Microsoft Fabric

Microsoft Purview

The book of Data Governance, Microsoft Purview & Microsoft Fabric



#DataGovernance

Definition Attempt #xx

#TreatYourDataBetter

Wolfgang Strasser

#MicrosoftFabric

Sounds nice! Right?

One Place

One Tool

One Security

Data Governance

Governance in Fabric

Governance in Fabric can mean many things..

Workspace creation

Publish to web

Exporting data

Gateway creation / configuration

Integration settings like ArcGIS

Access and collaboration with externals

… basically all tenant settings

Administrative Governance (Tenant Settings)

Learn / Fabric REST APIs / Tenants /

Tenants - Get Tenant Settings

Reference

Feedback

Service: Fabric REST APIs

API Version: v1

Returns a list of the tenant settings.

Permissions

The user must have administrator rights (such as Office 365 Global Administrator or Fabric Service Administrator).

Required Scope

Tenant.Read.All or Tenant.ReadWrite.All

Limitations

Maximum 200 requests per hour.

HTTP Copy

```
GET https://api.fabric.microsoft.com/v1/admin/tenantsettings
```

Extract and query the tenant settings

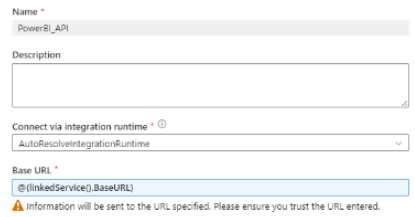
2023-06-20 / Azure, Fabric, Power BI

A long wish have come true. It's now possible to query the Admin APIs and get a list of all the tenant settings. This is very valuable to be able to document the settings and also follow the changes of them.

The GetTenantSettings Read API was released the same day as Microsoft Fabric was announced, which therefore perhaps drowned in all the other amazing news? However, it is not accidental as the API is part of Fabric, now that the Admin portal is part of Fabric. This is just a technical change – the API can still be used to get all the tenant settings for Power BI – whether or not your using Fabric.

This is the first Fabric Admin API and you can get more information here: https://learn.microsoft.com/en-us/rest/api/fabric/admin/tenants/get-tenant-settings

As always, I have created a Data Factory template and also a Synapse Serverless SQL view to unfold the JSON output. It's a base view with an outer apply on both properties, enabledSecurityGroups and excludedSecurityGroups. This way you will get multiple rows for each settings, but can then get all the information in one query.



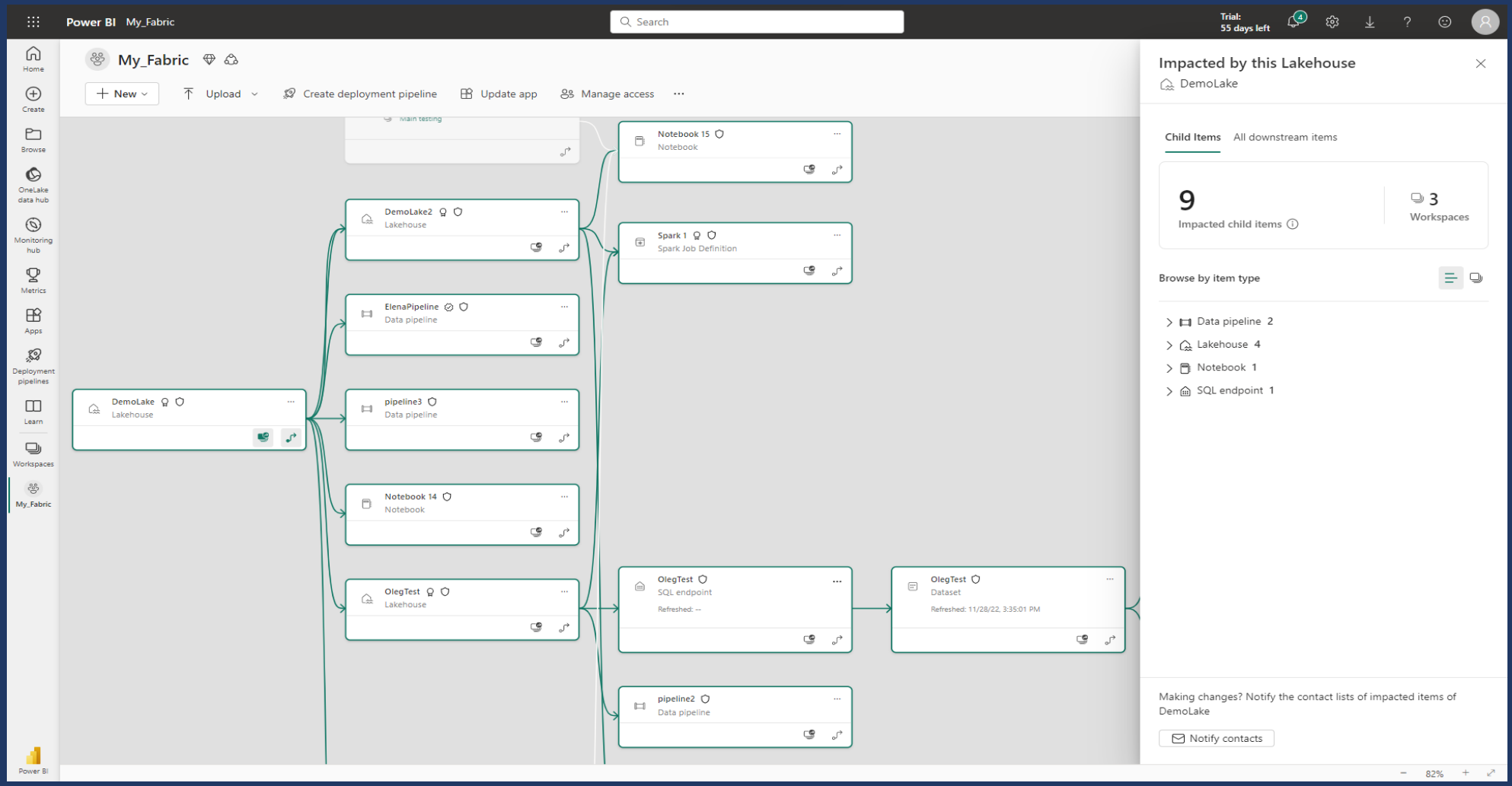
https://justb.dk/blog/2023/06/extract-and-query-the-tenant-settings/

https://github.com/justBlindbaek/PowerBIMonitor

Demo

Tenant Settings

Data Lineage



Demo

Data Lineage

Endorsement

Promoted

Certified

All | My data | Endorsed in your org | Favorites

Filter by keyword | Filter

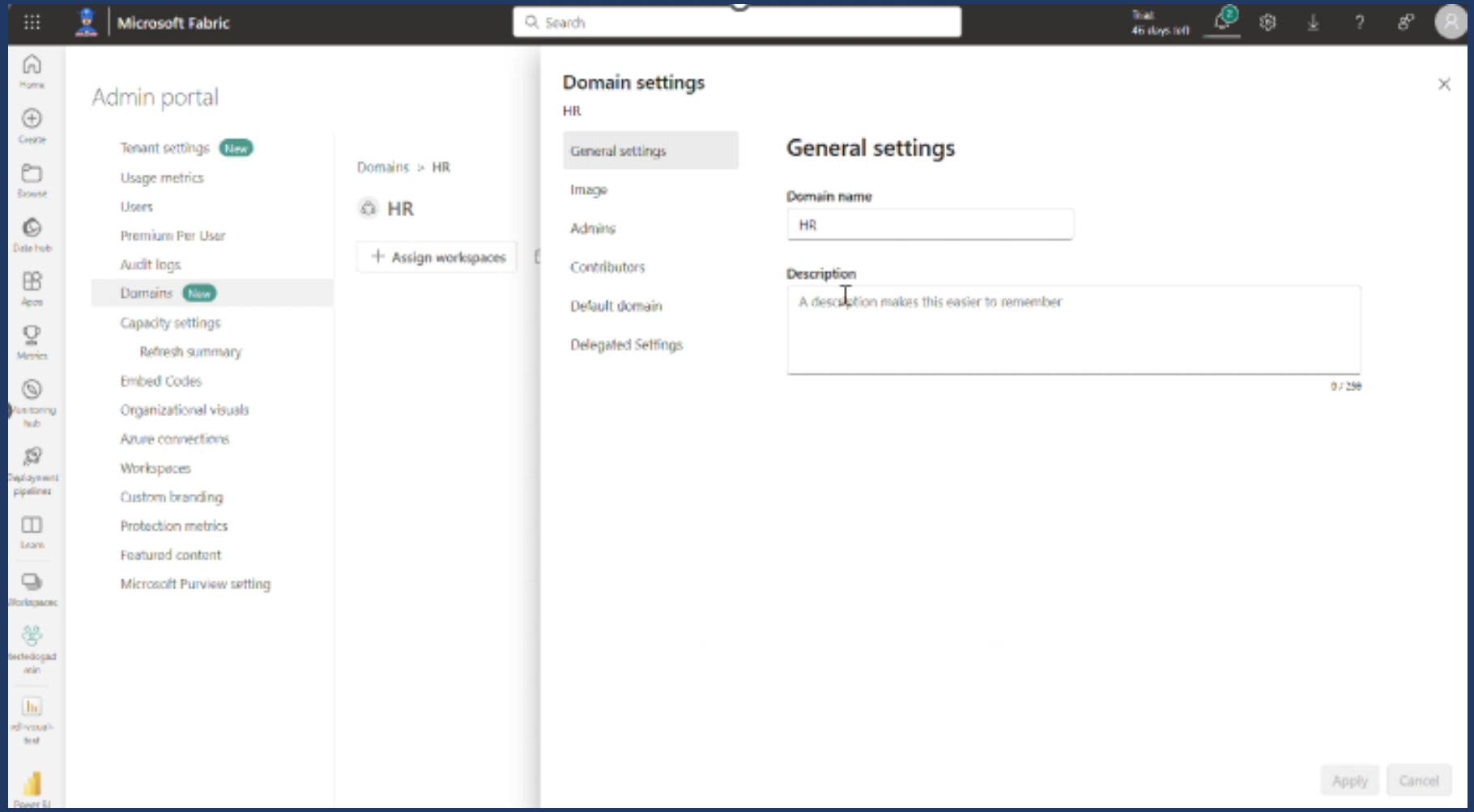
Explorer

Name	Type	Owner	Location	Endorsement
DIAD Final Report	Semantic model	Wolfgang Strasser	DIAD	Certified
DIAD Final Report	Semantic model	Wolfgang Strasser	Neuer Workspace	Certified
LH4Analytics	Lakehouse	Wolfgang Strasser	FabricWS 02	Certified
My Power BI Customer and Products Data	Semantic model	Wolfgang Strasser	Blog Demos	Certified
Purview Customer Data	Semantic model	Wolfgang Strasser	Blog Demos	Certified
Another_Lakehouse	Lakehouse	Wolfgang Strasser	FabricWS 02	Promoted
Social	Semantic model	Wolfgang Strasser	DIAD	Promoted
Unser erster Bericht	Semantic model	Wolfgang Strasser	Neuer Workspace	Promoted

Demo

Endorsements

Domains


Microsoft Fabric
Search
Admin portal
Tenant settings
Usage metrics
Users
Premium Per User
Audit logs
Domains
Capacity settings
Refresh summary
Embed Codes
Organizational visuals
Azure connections
Workspaces
Custom branding
Protection metrics
Featured content
Microsoft Purview setting
Domains > HR
HR
Assign workspaces
Domain settings
HR
General settings
Image
Admins
Contributors
Default domain
Delegated Settings
General settings
Domain name
HR
Description
A description makes this easier to remember
0 / 256
Apply
Cancel

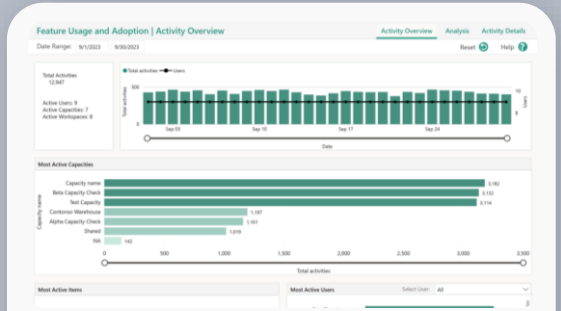
Demo

Domains

Security layers in Microsoft Fabric

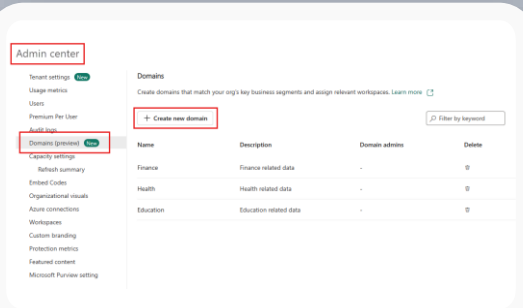
- Regulations & Certification
- Data Encryption
- E2E Auditability
- High Availability & Disaster Recovery
- Microsoft Purview Information Protection
- Advanced tools in Microsoft Purview
- 3rd party and in-house governance & security solutions

Monitoring



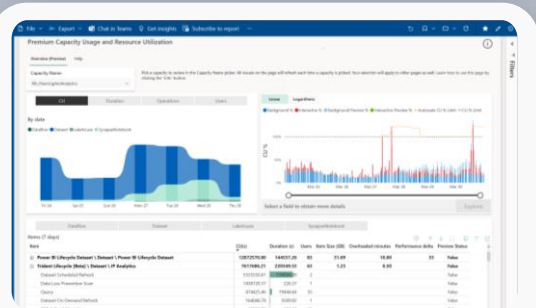
Admin monitoring

Uncover insights for effective governance with pre-built reports and datasets built for admins



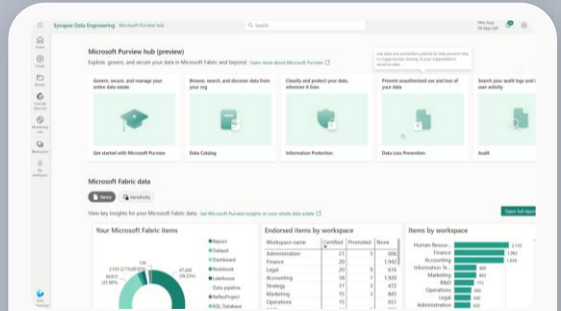
Monitor

Monitor Fabric activities, such as semantic model refresh and Spark Job runs and many others, from a central location



Capacity metrics

Gain visibility into capacity utilization and usage trends with daily aggregation so you can plan and scale your capacity accordingly



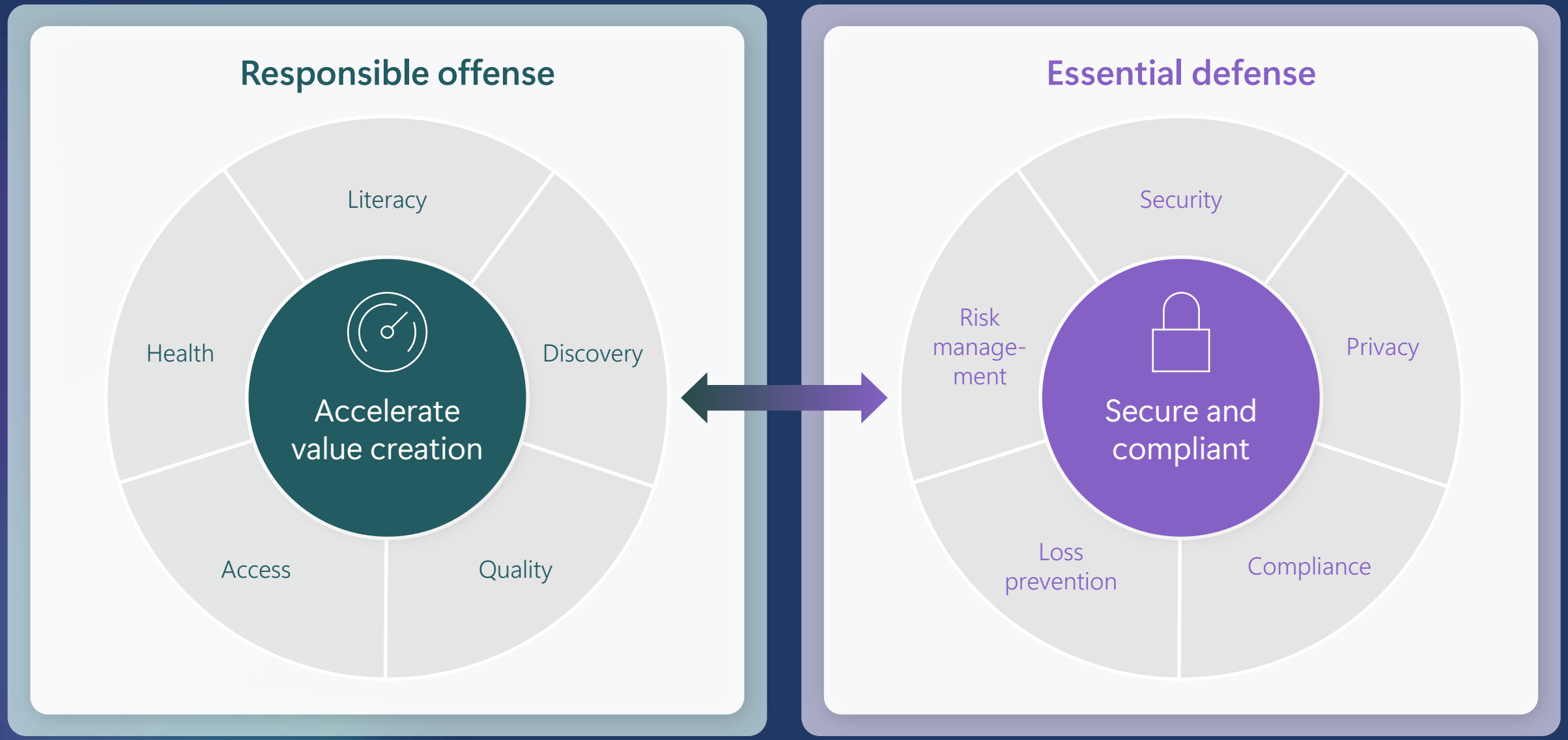
Purview hub

See relevant insights about sensitive data and item endorsement across the Fabric data estate and get easy links to more advanced Purview capabilities

DataGovernance / Data Catalog

#MicrosoftPurview

Data governance and security is evolving



Bringing data security, governance, and compliance together

Microsoft Purview

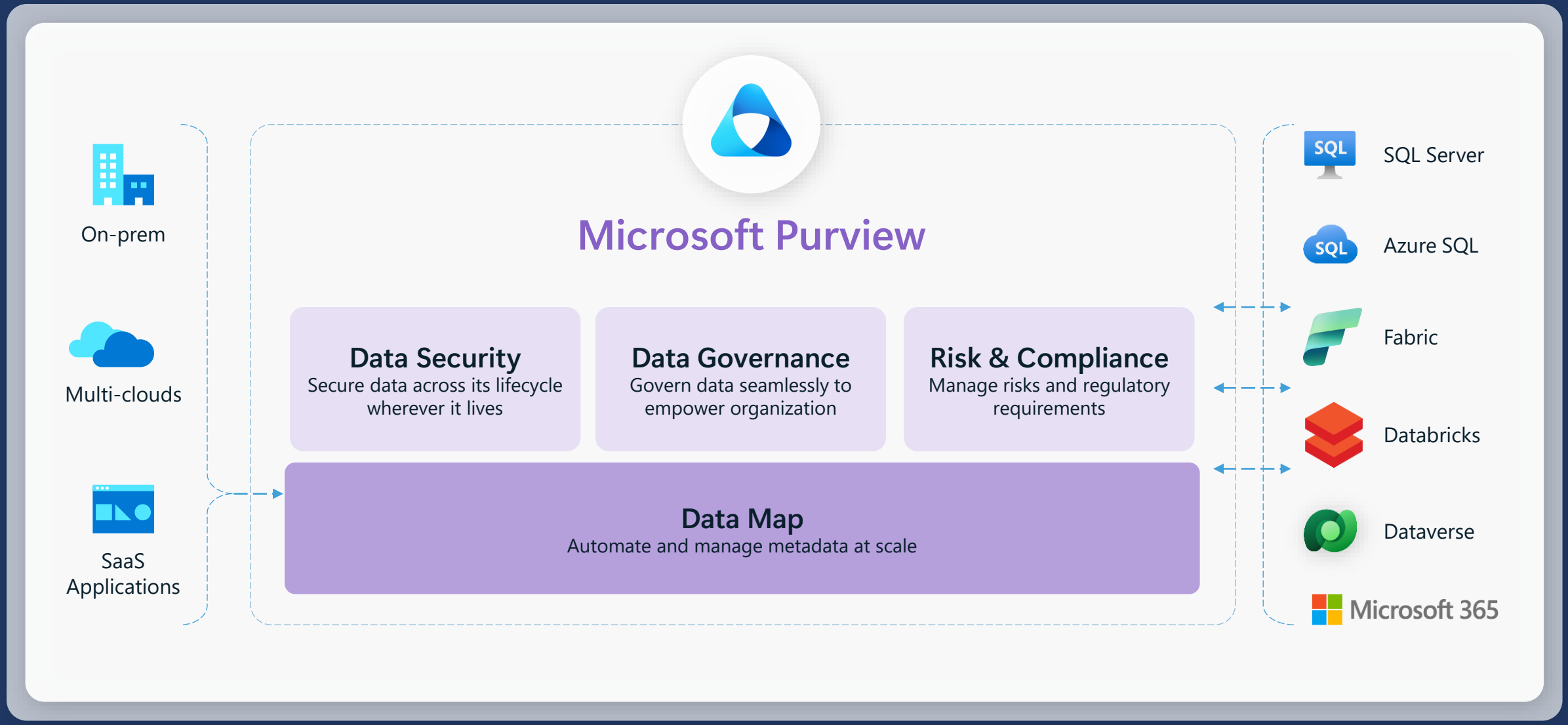
Data Security	For information and cybersecurity teams	Data Loss Prevention Insider Risk Management Information Protection
Data Governance	For data consumers, data owners, data officers	Data Discovery Data Curation & Management Data Estate Health
Risk & Compliance	For risk, compliance, and legal teams	Data Lifecycle Management eDiscovery & Audit Communication Compliance

On-prem and multi-cloud

Unstructured & structured data

Across IaaS, and SaaS

Govern and secure your data estate



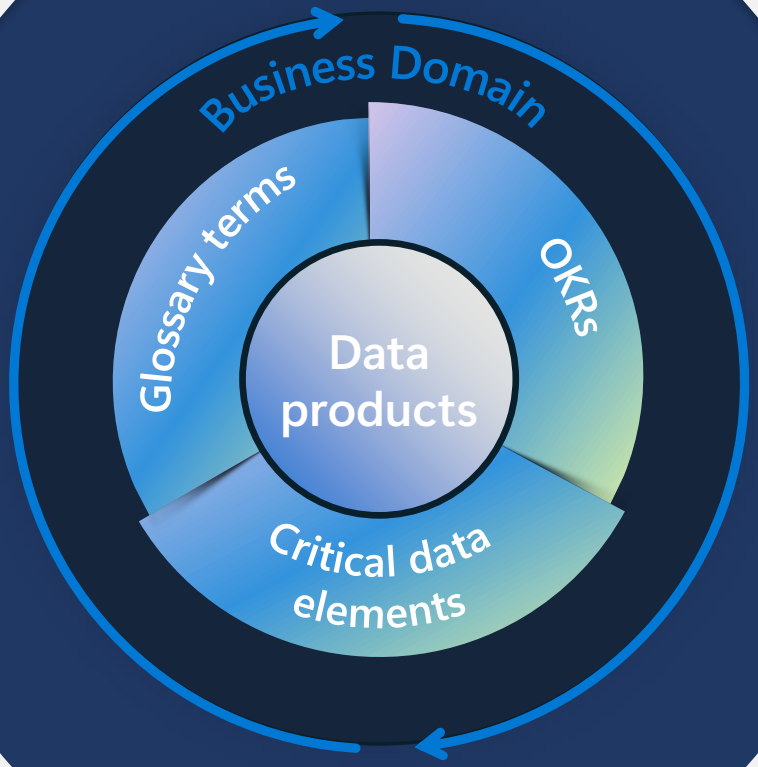
Demo

Data Catalog

Concepts, Sources, Scanning, Classifications, ..

Know your data with business concepts

Data stewards
(Curation)



Data consumers
(Consumption)

Business Domains

Business domains

Organize data products into meaningful groups and link them to business concepts. Learn more about business domains

3 items | Filter by keyword

+ New business domain

Business domain name ↑	Owner	Status
C Corporate	Wolfgang Strasser	Draft
P Personal Health	Wolfgang Strasser	Published
S Sales	Wolfgang Strasser	Published

Details | Roles | Data estate mappings

S **Sales**
Business domains

Set to draft | Mark as expired | Manage policies

Type	Owner	Status	Data quality score	Health actions
Functional unit	Wolfgang Strasser	Published	Healthy 92.8	6

This is the sales business domain.
More information will follow...

Business concepts

Data products
1
Go to data products

Glossary terms
0
View all

OKRs
0
View all

Critical data elements
0
View all

Custom attributes
0
View all

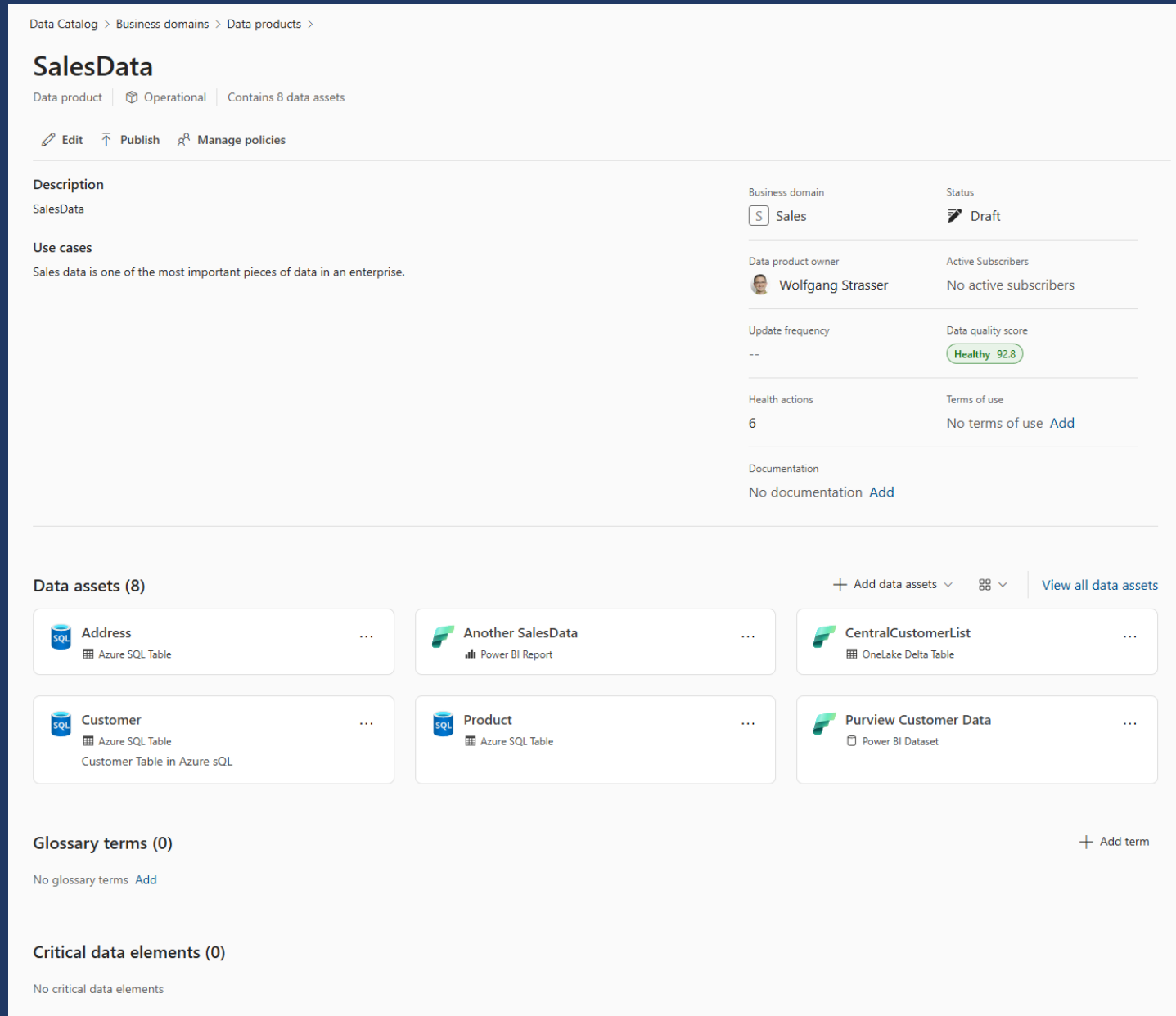
What's a Business Domain?

- … boundary that enables the common governance, ownership, and discovery of data products and business concepts like glossary terms, OKRs, or critical data.

Examples of Business domains:

- **Fundamental business areas** – human resources, sales, finance, supply chain, ..
- **Subject areas** – product, parties, ..
- **Based on organizational functions** – customer experience, cloud supply chain, business intelligence

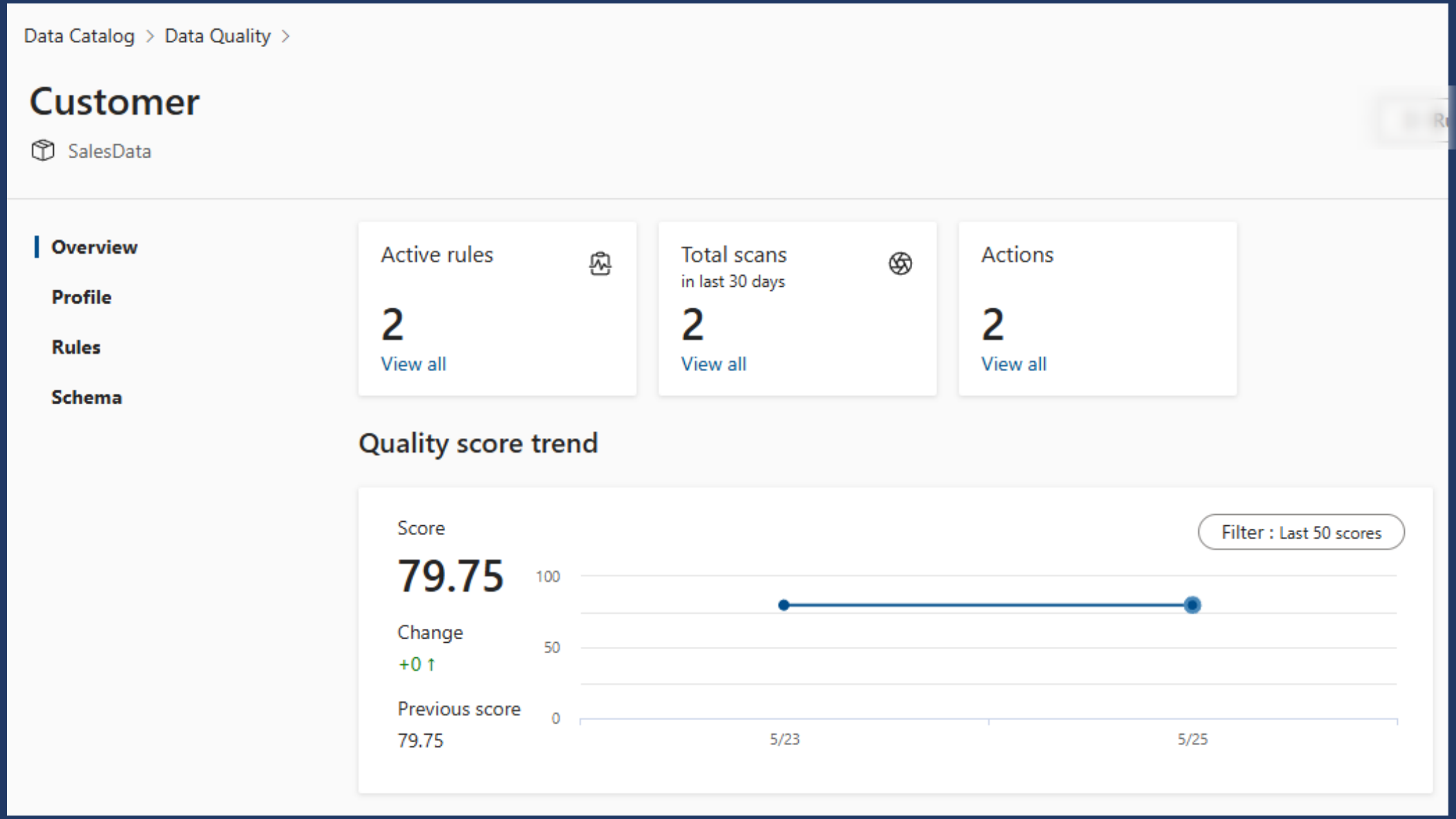
Data Products



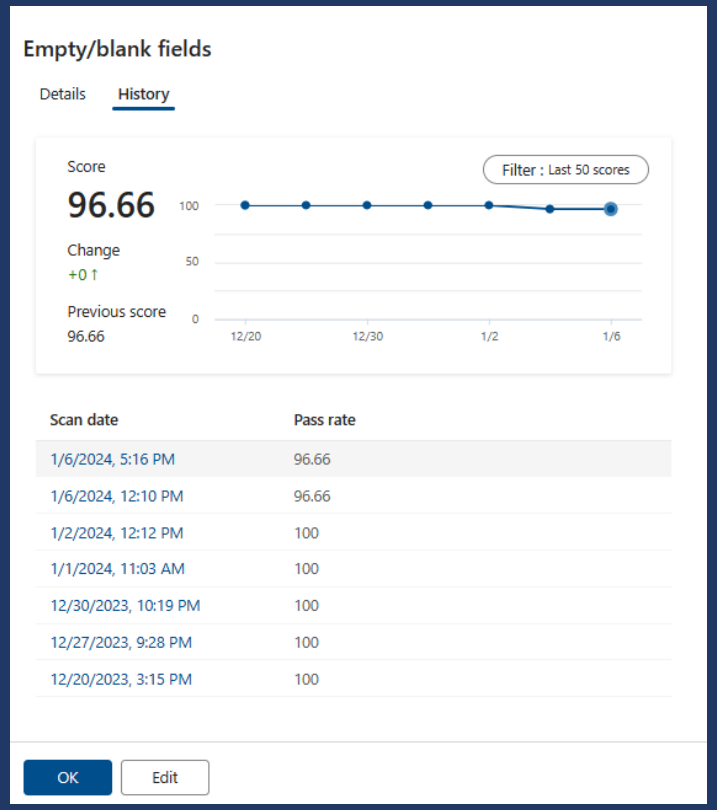
What is a Data Product?

- … a group of data assets (tables, files, PBI reports, ..) – a packaged offering to an enterprise that provides assets with a use case to be shared to data consumers
- .. Provides context to these assets (grouping them under a use case for data consumers)
- .. involves the collection, processing, analysis and presentation of data

Data Quality



Microsoft Purview Data Quality



Data Quality Actions

Data quality actions

Active | In progress | Resolved | My items

Business domain: **Sales** | Target entity type: **Data quality ...** | Add filter

Finding name	Days active	Status	Finding type		
Data profile abnormally high null counts de...	18 days	Not started	Data Quality Mar		
Data profile abnormally high null counts de...	18 days	In progress	Data Quality Mar		
Data profile outlier values detected	18 days	Not started	Data Quality Mar		
Data profile outlier values detected	18 days	Not started	Data Quality Mar		
Data quality Assessment job has failed.	18 days	Not started	Data Quality Management	Data quality job unsuccessful	Product
Data asset quality rule score has fallen belo...	18 days	Not started	Data Quality Management	Data asset quality rule score	Customer

Data asset quality rule score has fallen below threshold

Status

Not started

Assigned to

Active

18 days

Data quality asset

Customer

Business domain

S Sales

Business domain owner

Wolfgang Strasser

Finding type

Data Quality Management

Finding subtype

Data asset quality rule score

Action ID

8ee4a195-dba7-411e-8c83-1e7833ca6afb

Reason

Rule score for the data asset rule: Empty/blank_fields_MiddleName has fallen below minimum Low severity threshold score: 75 points, Observed value: 59.504 points.

Recommendation

Please run the following query in order to fetch the failed rows for this rule, after replacing the schema and table names.

Query: select * from [DBSchemaName].[DBTableName] where [MiddleName] is null

Job type

Data quality assessment

Job ID

dd22c517-3cbb-47f3-92ec-569a2491dae3

Data Estate Health

Health controls

Controls help you analyze and track your data estate health.

Active controls	Not healthy	Fair	Healthy	Expired
16	2	0	11	0

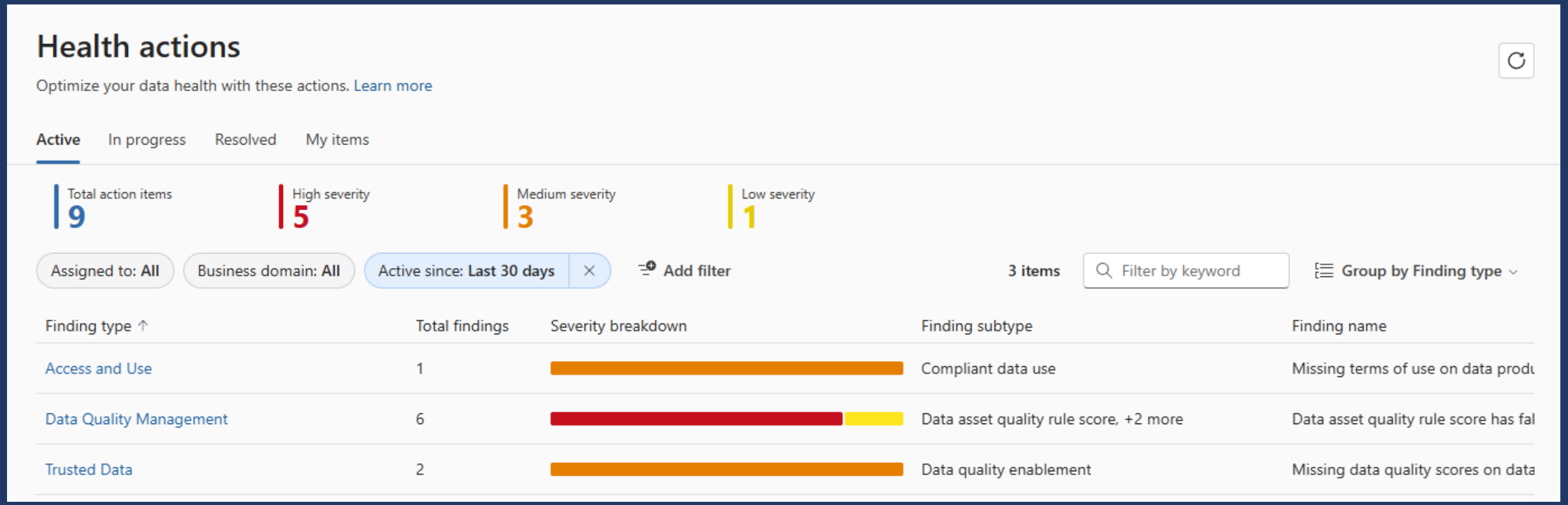
Business domain: All | Owner: All | Status: All

26 items

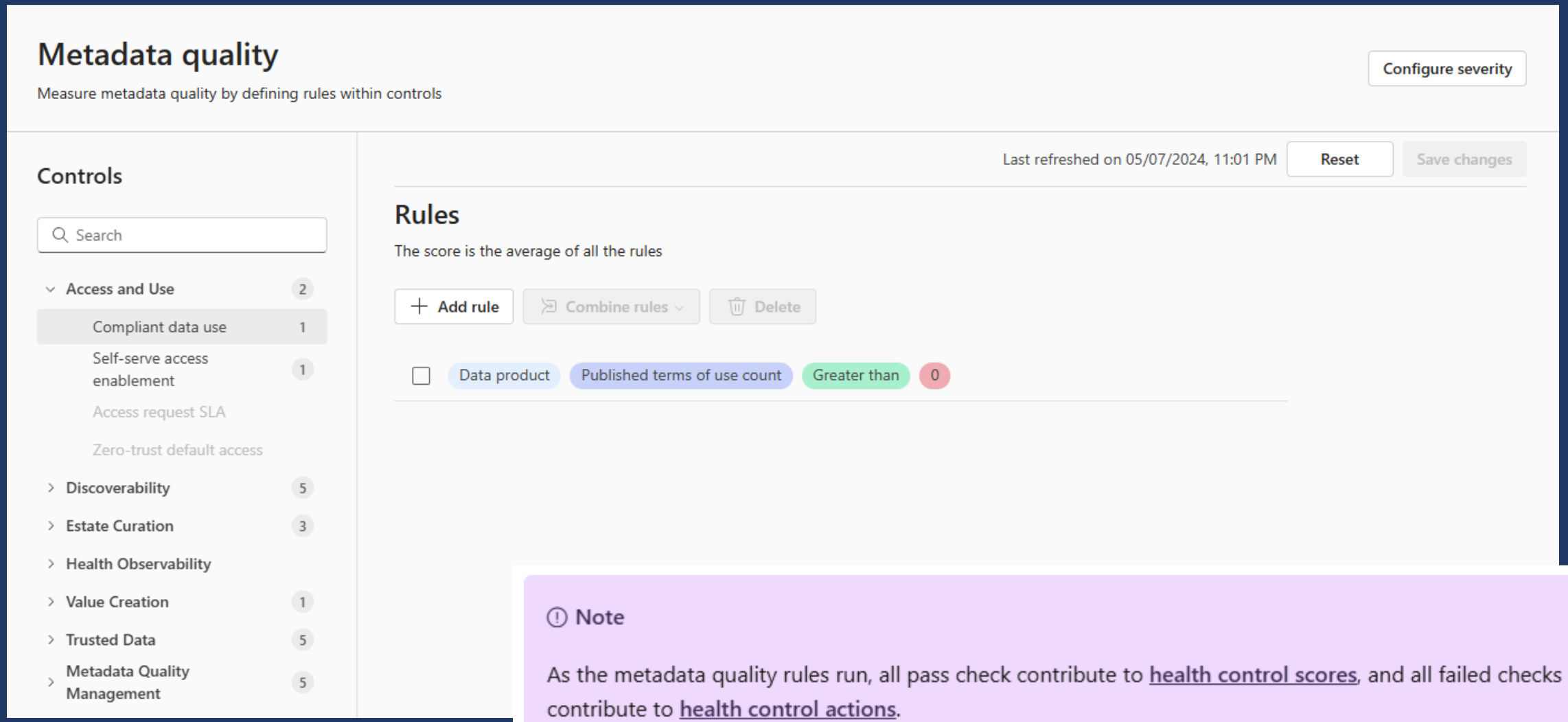
Filter by keyword

Control	Current score	Vs. Target	Last refreshed
Access and Use	Not healthy 0 %	-80	5/31/2024, 2:44 AM
Discoverability	Healthy 100 %	+20	5/31/2024, 2:34 AM
Estate Curation	Healthy 100 %	+20	5/31/2024, 2:34 AM
Health Observability	Coming soon	--	--
Value Creation	Coming soon	--	--
Trusted Data	Fair 60 %	-20	5/31/2024, 2:34 AM
Metadata Quality Management	Healthy 100 %	+20	5/31/2024, 2:44 AM
Data Quality Management	Healthy 94 %	+14	6/11/2024, 2:15 AM

Data Estate Health – Health Controls

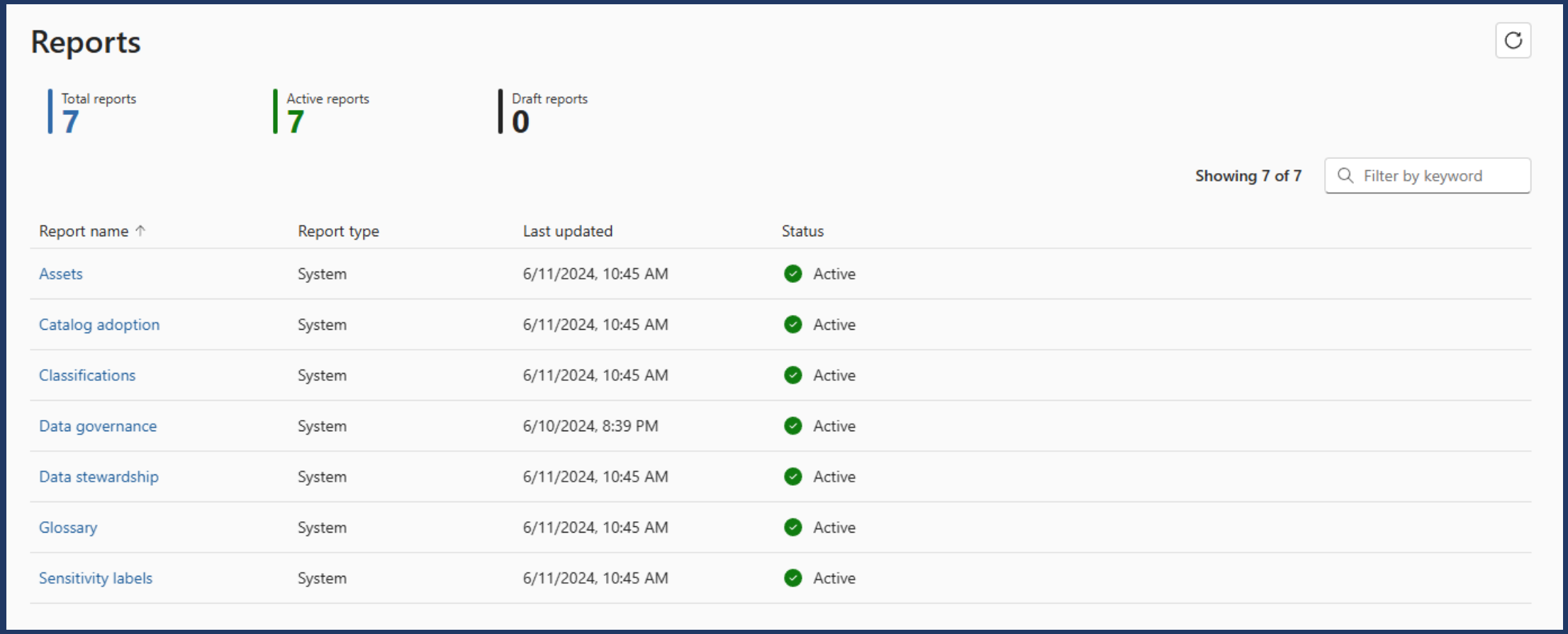


Data Estate Health – Metadata Quality

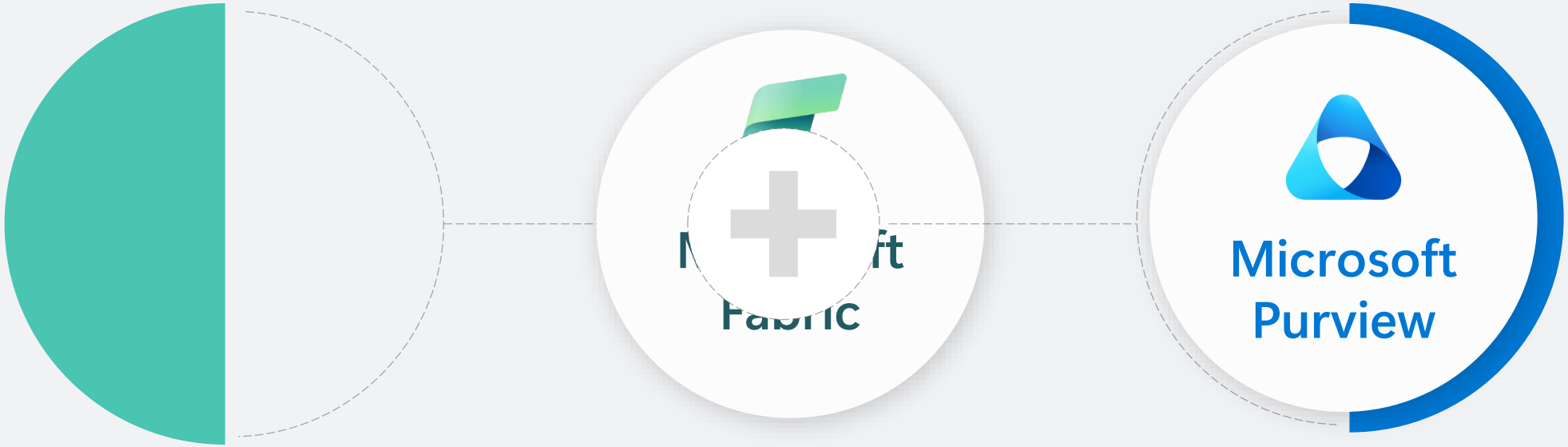


> **Note**
>
> As the metadata quality rules run, all pass check contribute to health control scores, and all failed checks contribute to health control actions.

Data Estate Health - Reports



Manage, govern and secure data in Microsoft Fabric



Reshape how you access, manage, and act on data and insights with Microsoft Fabric

Keep your data safe and governed with unified data governance, security, and compliance

Unmatched security & compliance	Simplified administration	Unified governance

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