

# Let's talk about Data Governance and Microsoft Fabric

Wolfgang Strasser



 **Data Platform**  
NEXT STEP

The Data Platform logo features a white icon of a database cylinder with a gear on its left side, positioned to the left of the text 'Data Platform'. Below this, the words 'NEXT STEP' are written in a smaller, white, all-caps sans-serif font.

# Servus! Hi! Welcome!

Wolfgang Strasser

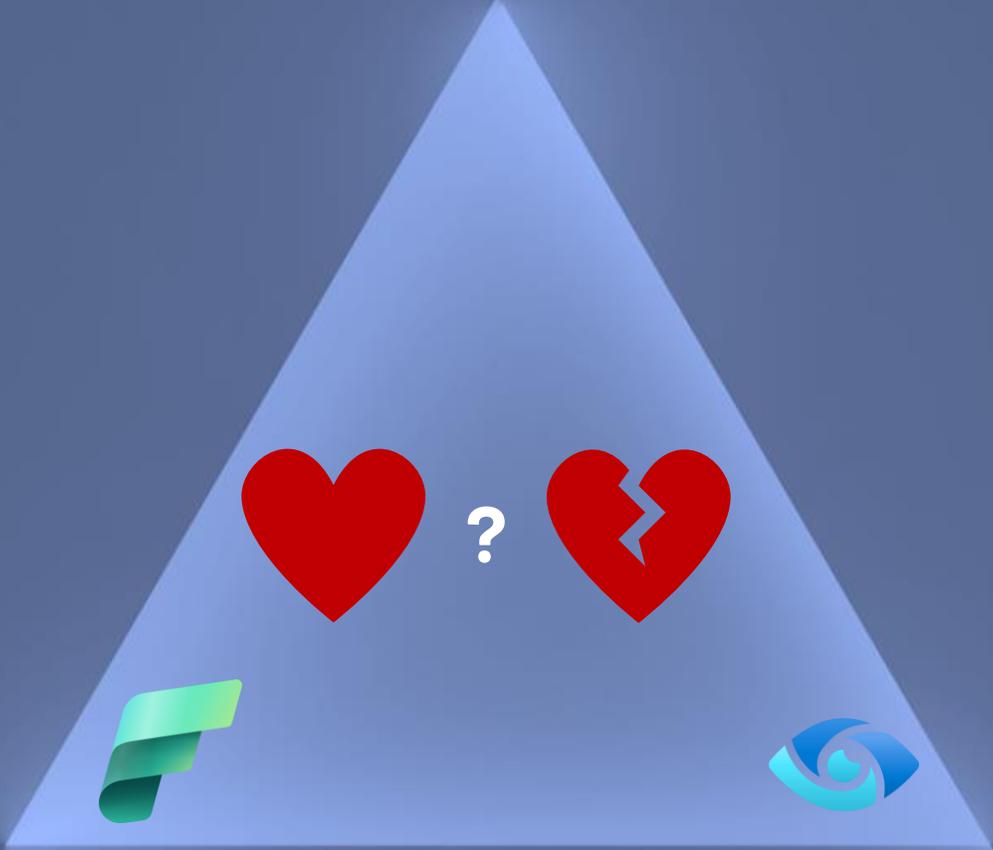
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[workingondata.wordpress.com](https://workingondata.wordpress.com)

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



# Data Governance

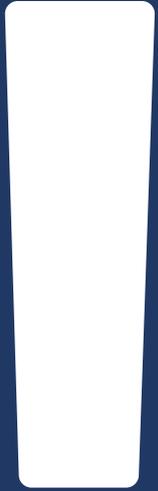


**Microsoft  
Fabric**

**Microsoft  
Purview**

# The book of Data Governance, Microsoft Purview & Microsoft Fabric



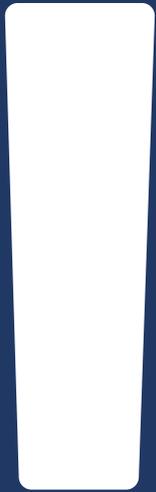


**#DataGovernance**

**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.

Name \*

PowerBI\_API

Description

Connect via integration runtime \* Ⓞ

AutoResolveIntegrationRuntime

Base URL \*

@(linkedService).BaseURL

⚠ Information will be sent to the URL specified. Please ensure you trust the URL entered.

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

<https://github.com/justBlindbaek/PowerBIMonitor>

# Demo

Tenant Settings

# Data Lineage

The screenshot displays the Microsoft Fabric Data Lineage tool interface. The main workspace shows a dependency graph with the following nodes and connections:

- Root Node:** DemoLake (Lakehouse)
- Intermediate Nodes:**
  - ElenaPipeline (Data pipeline)
  - pipeline3 (Data pipeline)
  - Notebook 14 (Notebook)
  - OlegTest (Lakehouse)
- Leaf Nodes:**
  - Notebook 15 (Notebook)
  - Spark 1 (Spark Job Definition)
  - OlegTest (SQL endpoint)
  - pipeline2 (Data pipeline)
  - OlegTest (Dataset)

Arrows indicate the flow of data from the root DemoLake through the intermediate pipelines and notebooks to the final SQL endpoint and dataset.

**Impacted by this Lakehouse Panel:**

- Child Items:** All downstream items
- Summary:** 9 Impacted child items, 3 Workspaces
- Browse by item type:**
  - Data pipeline 2
  - Lakehouse 4
  - Notebook 1
  - SQL endpoint 1
- Notification:** Making changes? Notify the contact lists of impacted items of DemoLake. [Notify contacts](#)

# Demo

Data Lineage

# Endorsement

 Promoted

 Certified

Explorer >>

All My data **Endorsed in your org** Favorites

Filter by keyword Filter

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

The screenshot displays the Microsoft Fabric Admin portal interface. The top navigation bar includes the Microsoft Fabric logo, a search bar, and a trial status indicator showing "46 days left". The left sidebar contains a navigation menu with categories like Home, Create, Browse, Date hub, Apps, Metrics, Customizing hub, Deployment pipelines, Learn, Workspaces, and Integrate with other services. The main content area is titled "Admin portal" and lists various settings such as Tenant settings, Usage metrics, Users, Premium Per User, Audit logs, Domains (highlighted with a "New" badge), Capacity settings, Refresh summary, Embed Codes, Organizational visuals, Azure connections, Workspaces, Custom branding, Protection metrics, Featured content, and Microsoft Purview setting. The "Domains" section is expanded to show "HR" with a gear icon and a "+ Assign workspaces" button. The "Domain settings" panel for "HR" is open, showing "General settings" with a "Domain name" field containing "HR" and a "Description" text area with the placeholder text "A description makes this easier to remember". The text area has a character count of "0 / 256". "Apply" and "Cancel" buttons are located at the bottom right of the settings panel.

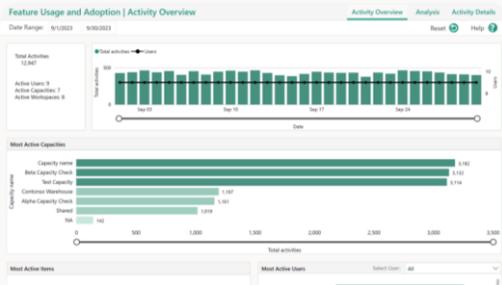
# Demo

Domains

# Security layers in Microsoft Fabric

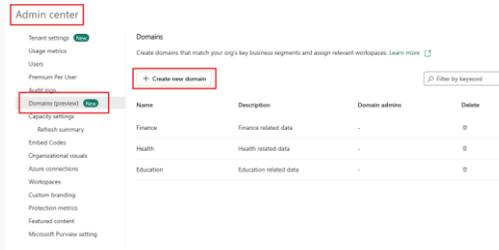


# Monitoring



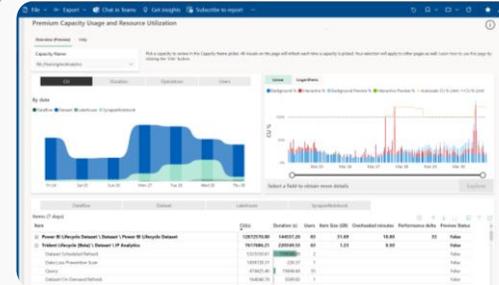
## Admin monitoring

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



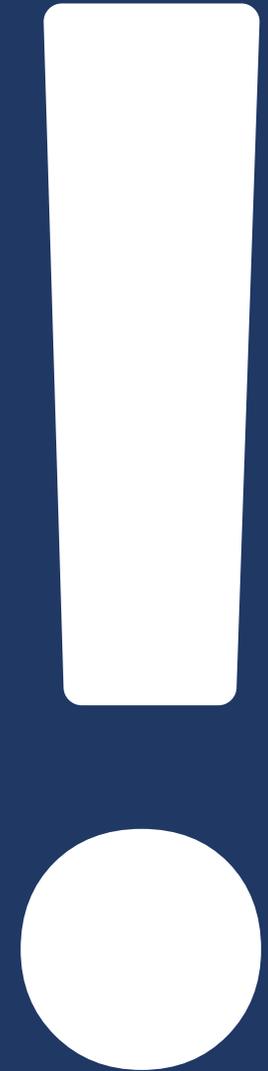
## Purview hub

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

## Responsible offense



## Essential defense



# 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

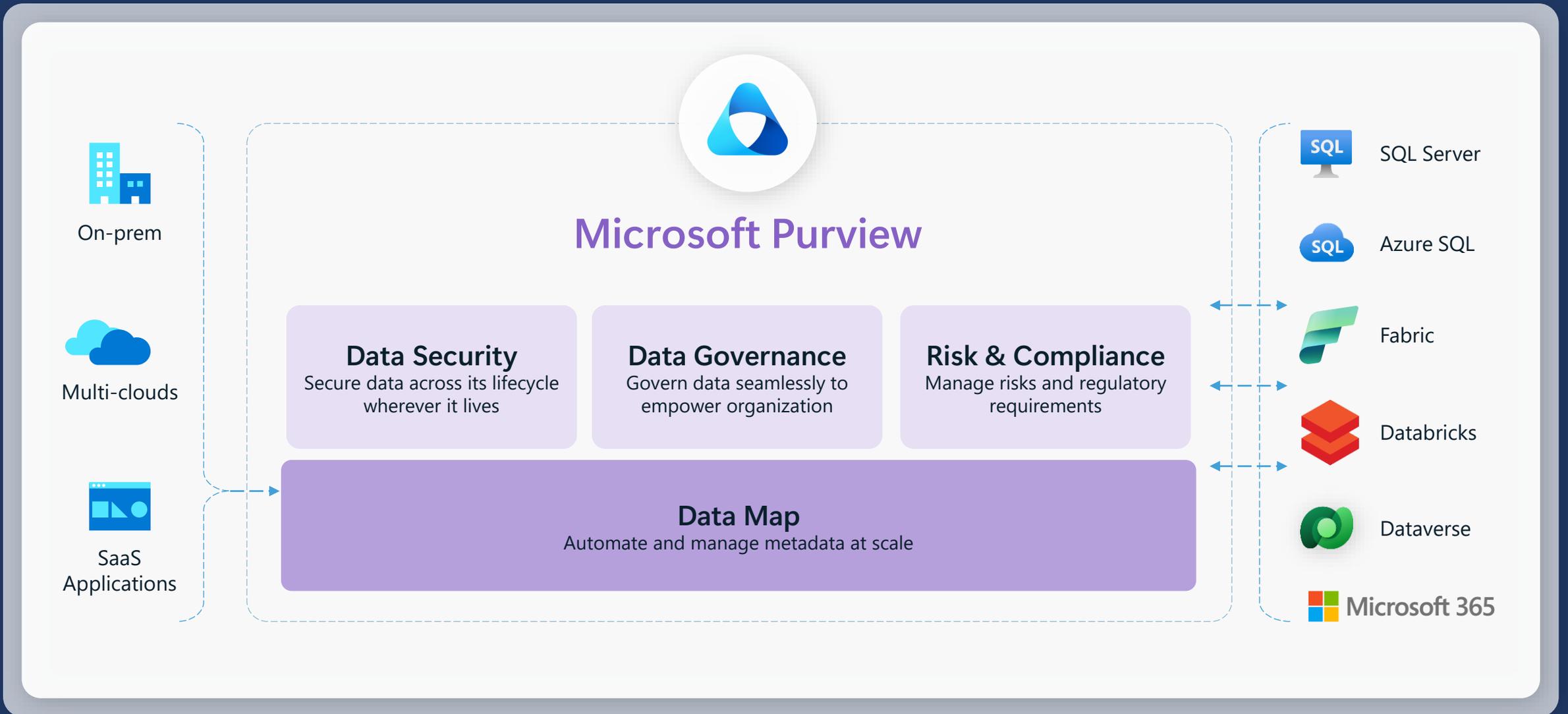


Unstructured & structured data



Across IaaS, and SaaS

# Govern and secure your data estate



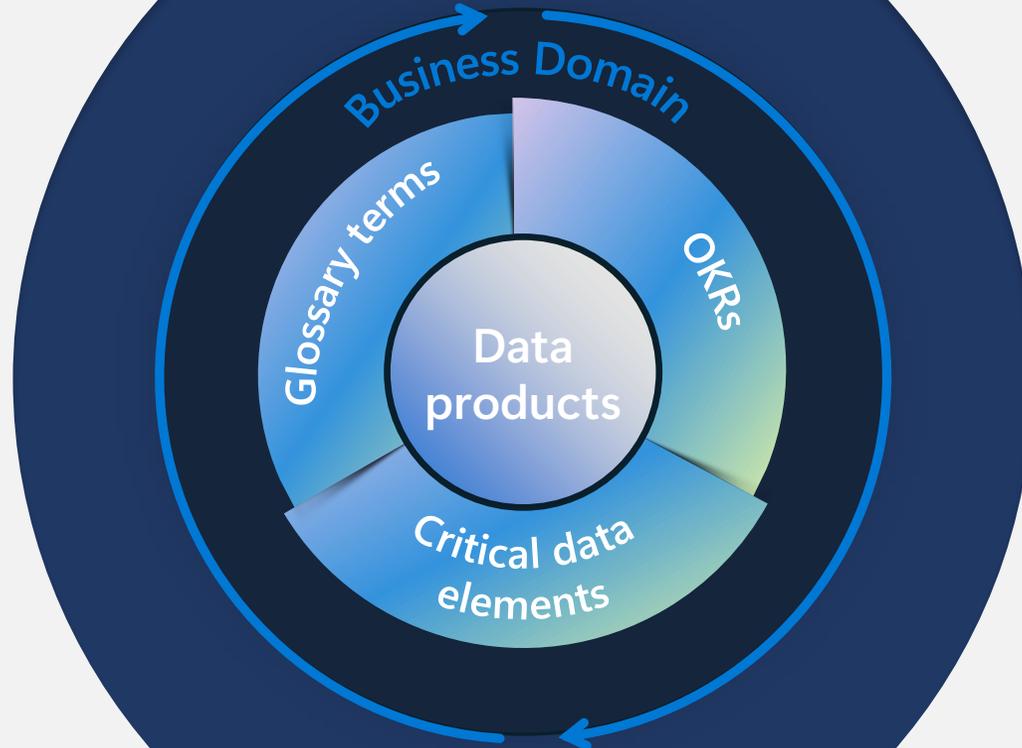
# Demo

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](#)

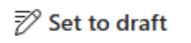
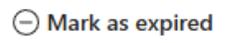
3 items

+ New business domain

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

Details Roles Data estate mappings

 **Sales**  
Business domains

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 <b>1</b>  <a href="#">Go to data products →</a>	Glossary terms <b>0</b>  <a href="#">View all</a>	OKRs <b>0</b>  <a href="#">View all</a>
Critical data elements <b>0</b>  <a href="#">View all</a>	Custom attributes <b>0</b>  <a href="#">View all</a>	

# 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

Data Catalog > Business domains > Data products >

## SalesData

Data product | Operational | Contains 8 data assets

[Edit](#) [Publish](#) [Manage policies](#)

### Description

SalesData

### Use cases

Sales data is one of the most important pieces of data in an enterprise.

Business domain

Sales

Status

Draft

Data product owner

Wolfgang Strasser

Active Subscribers

No active subscribers

Update frequency

--

Data quality score

Healthy 92.8

Health actions

6

Terms of use

No terms of use [Add](#)

Documentation

No documentation [Add](#)

### Data assets (8)

[+ Add data assets](#) [88](#) [View all data assets](#)

 **Address** ...  
 Azure SQL Table

 **Another SalesData** ...  
 Power BI Report

 **CentralCustomerList** ...  
 OneLake Delta Table

 **Customer** ...  
 Azure SQL Table  
Customer Table in Azure SQL

 **Product** ...  
 Azure SQL Table

 **Purview Customer Data** ...  
 Power BI Dataset

### Glossary terms (0)

No glossary terms [Add](#)

[+ Add term](#)

### Critical data elements (0)

No critical data elements

# 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

Data Catalog > Data Quality >

## Customer

 SalesData

### Overview

Profile

Rules

Schema

Active rules 

2

[View all](#)

Total scans  
in last 30 days 

2

[View all](#)

Actions

2

[View all](#)

### Quality score trend

Score

79.75

Change

+0 ↑

Previous score

79.75

100  
50  
0

0

Filter : Last 50 scores

5/23

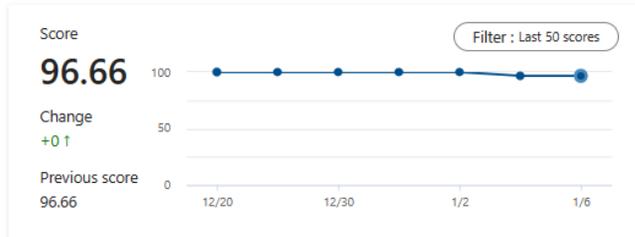
5/25



# Microsoft Purview Data Quality

## Empty/blank fields

Details History



Scan date	Pass rate
1/6/2024, 5:16 PM	96.66
1/6/2024, 12:10 PM	96.66
1/2/2024, 12:12 PM	100
1/1/2024, 11:03 AM	100
12/30/2023, 10:19 PM	100
12/27/2023, 9:28 PM	100
12/20/2023, 3:15 PM	100

OK

Edit

Data Catalog > Data Quality >

## Customer Profile

Commercial customers

[Run quality scan](#) [Profile data](#) [...](#)

### Overview

Profile

Rules

Schema

Active rules

**12**

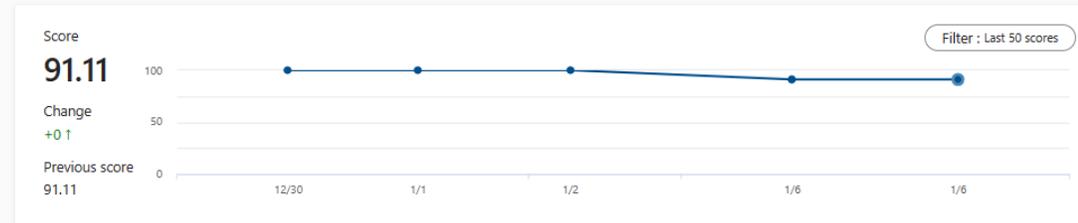
[View all](#)

Total scans  
in last 30 days

**5**

[View all](#)

### Quality score trend



### Quality score description

During last two scan data quality of customer profile data dropped roughly 9%. Overall quality of customer profile data is still health as the quality expectation has been set to 80%.

Latest quality score



Business domain

S Sales

Data product

Commercial customers  
Analytical

Data asset

Customer Profile  
Delta

Last update

1/7/2024, 8:36 PM  
by Admin

# 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	Job type	Product
 Data profile abnormally high null counts de...	18 days	 Not started	Data Quality Ma		
 Data profile abnormally high null counts de...	18 days	 In progress	Data Quality Ma		
 Data profile outlier values detected	18 days	 Not started	Data Quality Ma		
 Data profile outlier values detected	18 days	 Not started	Data Quality Ma		
 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

 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 ID

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

# Data Estate Health

## Health controls

Controls help you analyze and track your data estate health.



Business domain: All   Owner: All   Status: All

26 items

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

## Health actions

Optimize your data health with these actions. [Learn more](#)



**Active** In progress Resolved My items

Total action items  
**9**

High severity  
**5**

Medium severity  
**3**

Low severity  
**1**

Assigned to: All

Business domain: All

Active since: Last 30 days



Add filter

3 items

Filter by keyword

Group by Finding type

Finding type ↑	Total findings	Severity breakdown	Finding subtype	Finding name
Access and Use	1	<div style="width: 100%; height: 10px; background-color: #e67e22;"></div>	Compliant data use	Missing terms of use on data prod
Data Quality Management	6	<div style="width: 100%; height: 10px; background-color: #c0392b; background-image: linear-gradient(to right, #c0392b, #f1c40f);"></div>	Data asset quality rule score, +2 more	Data asset quality rule score has fal
Trusted Data	2	<div style="width: 100%; height: 10px; background-color: #e67e22;"></div>	Data quality enablement	Missing data quality scores on data

# Data Estate Health – Metadata Quality

## Metadata quality

Measure metadata quality by defining rules within controls

Configure severity

### Controls

Search

Access and Use 2

Compliant data use 1

Self-serve access enablement 1

Access request SLA

Zero-trust default access

Discoverability 5

Estate Curation 3

Health Observability

Value Creation 1

Trusted Data 5

Metadata Quality Management 5

Last refreshed on 05/07/2024, 11:01 PM

Reset

Save changes

### Rules

The score is the average of all the rules

+ Add rule

Combine rules

Delete

Data product Published terms of use count Greater than 0

#### 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

## Reports



Total reports  
**7**

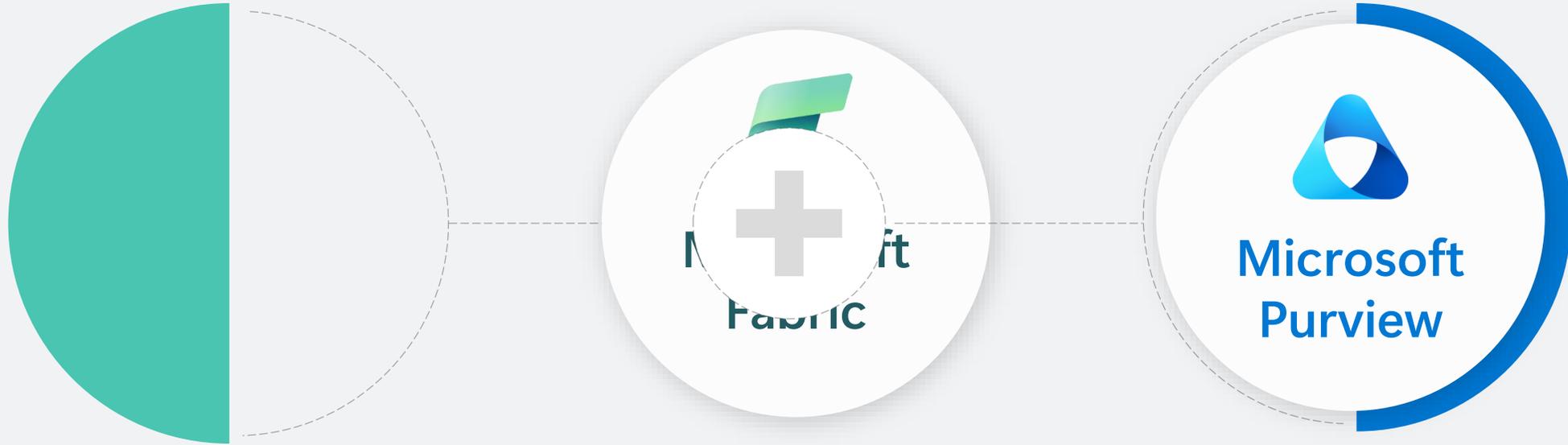
Active reports  
**7**

Draft reports  
**0**

Showing 7 of 7

Report name ↑	Report type	Last updated	Status
<a href="#">Assets</a>	System	6/11/2024, 10:45 AM	✔ Active
<a href="#">Catalog adoption</a>	System	6/11/2024, 10:45 AM	✔ Active
<a href="#">Classifications</a>	System	6/11/2024, 10:45 AM	✔ Active
<a href="#">Data governance</a>	System	6/10/2024, 8:39 PM	✔ Active
<a href="#">Data stewardship</a>	System	6/11/2024, 10:45 AM	✔ Active
<a href="#">Glossary</a>	System	6/11/2024, 10:45 AM	✔ Active
<a href="#">Sensitivity labels</a>	System	6/11/2024, 10:45 AM	✔ Active

# Manage, govern and secure data in Microsoft Fabric



Reshape how you access, manage, and ~~keep~~ your data safe and governed with unified data and insights with Microsoft Fabric ~~data~~ governance, security, and compliance

Unmatched security & compliance

Simplified administration

Unified governance

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

