

# Let's talk about Data Governance and Microsoft Fabric

Wolfgang Strasser



 **Data Platform**  
NEXT STEP



# Servus! Hi! Welcome!



Wolfgang Strasser

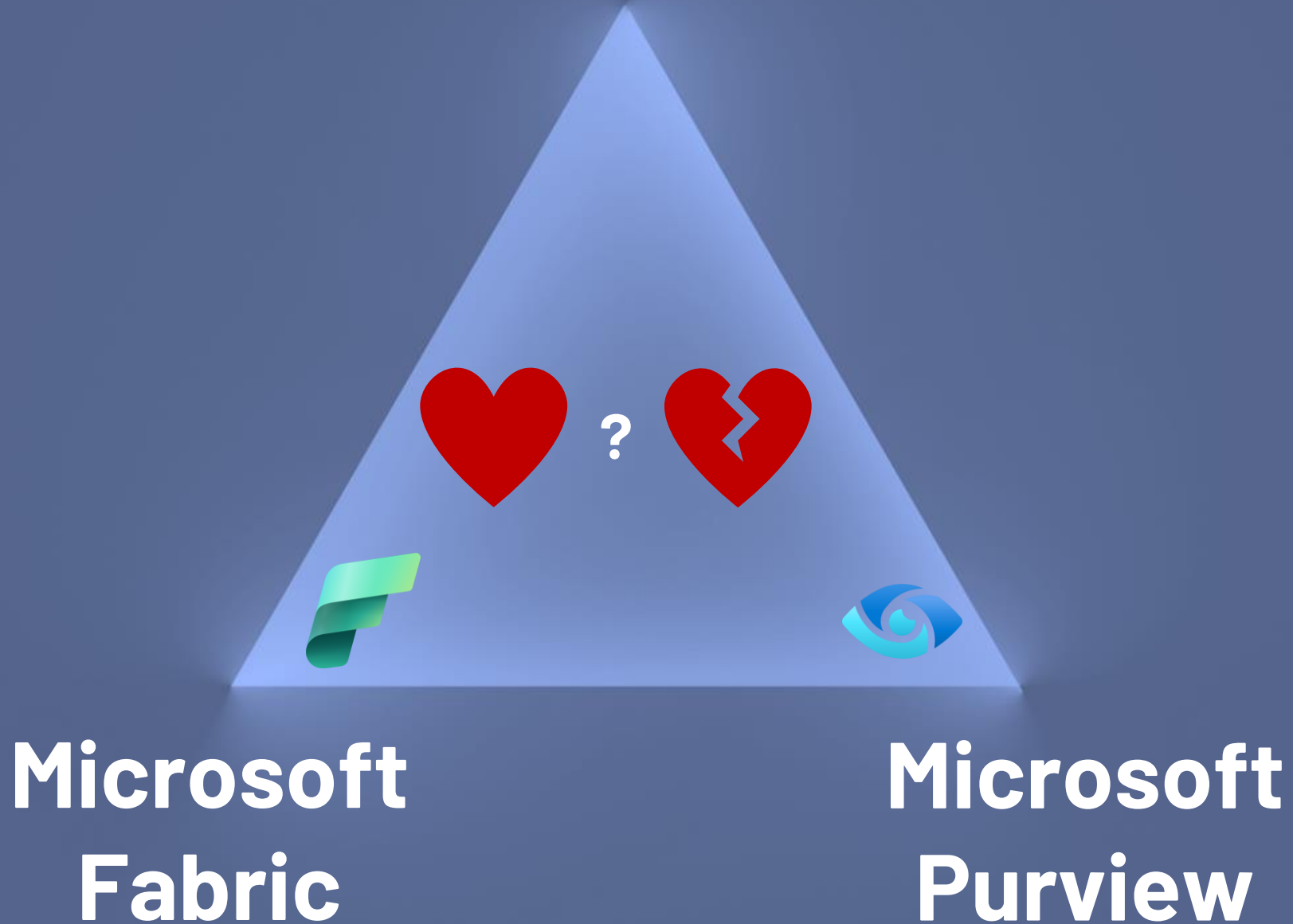
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[workingondata.wordpress.com](https://workingondata.wordpress.com)

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



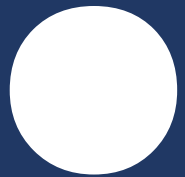
# Data Governance





# 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.

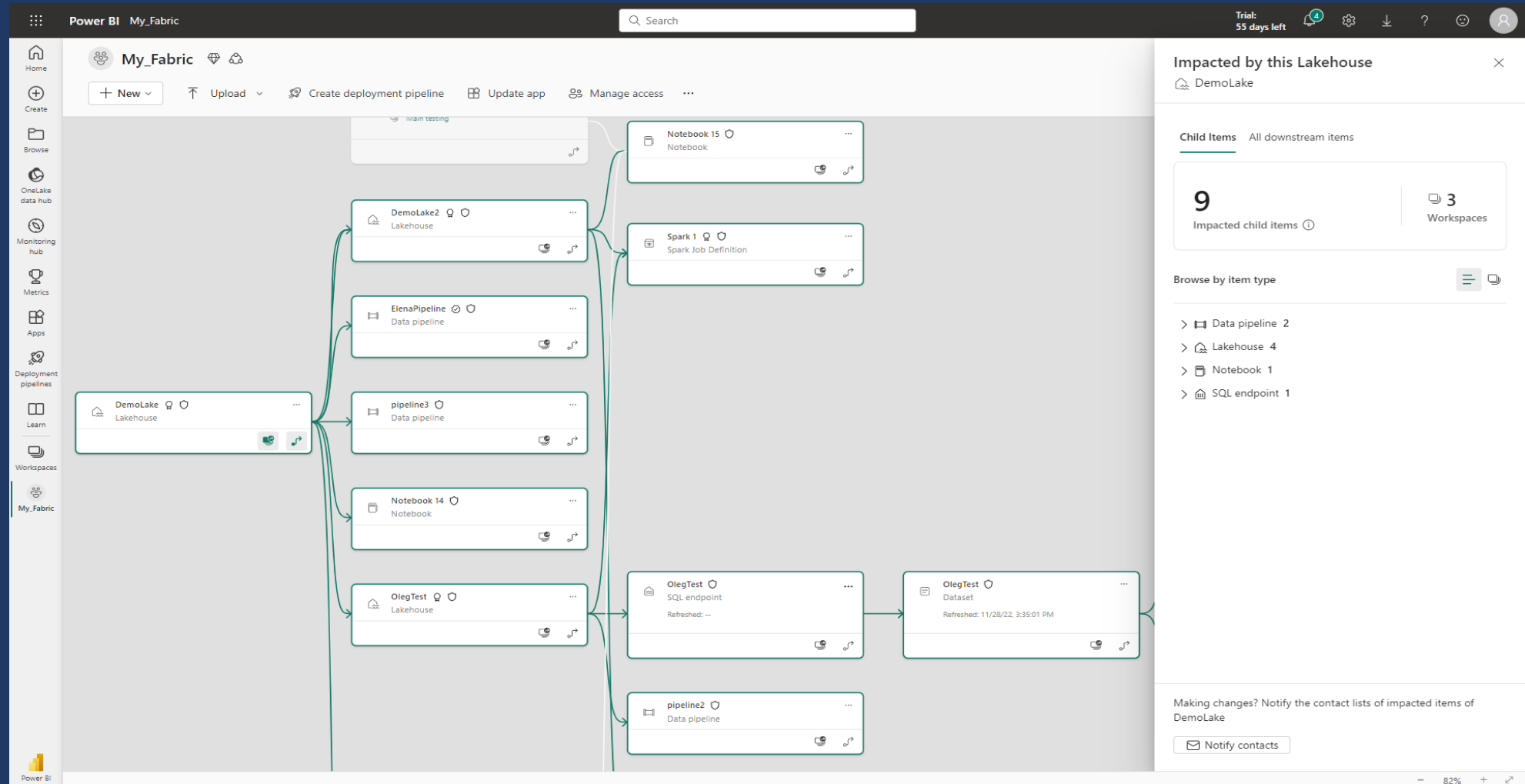
<https://justb.dk/blog/2023/06/extract-and-query-the-tenant-settings/>

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

# Demo

Tenant Settings

# Data Lineage



# Demo

Data Lineage



# Endorsement

Promoted

 Certified

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 list of navigation items: Home, Create, Browse, Data hub, Apps, Metrics, Monitoring hub, Deployment pipelines, Loans, Workspaces, Notebook on, and Notebook test. The main content area is titled 'Admin portal' and features a list of settings on the left, including Tenant settings (marked as 'New'), Usage metrics, Users, Premium Per User, Audit logs, Domains (marked as 'New'), 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, showing a breadcrumb 'Domains > HR' and a button '+ Assign workspaces'. The right pane displays the 'Domain settings' for the 'HR' domain, with a sub-tab 'General settings'. This pane contains fields for 'Domain name' (set to 'HR') and 'Description' (with a placeholder text 'A description makes this easier to remember'). At the bottom right of the settings pane are 'Apply' and 'Cancel' buttons.

Microsoft Fabric

Search

Trial: 46 days left

Home

Create

Browse

Data hub

Apps

Metrics

Monitoring hub

Deployment pipelines

Loans

Workspaces

Notebook on

Notebook test

Report

Admin portal

Tenant settings **New**

Usage metrics

Users

Premium Per User

Audit logs

Domains **New**

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

Domain name

HR

Description

A description makes this easier to remember

0 / 256

Apply

Cancel

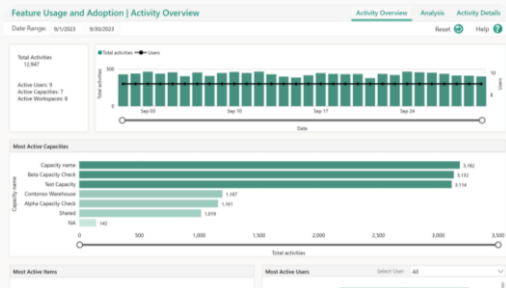
# Demo

Domains

# Security layers in Microsoft Fabric

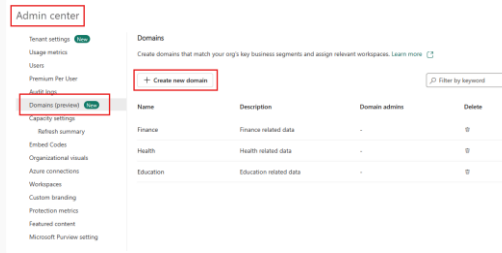


# Monitoring



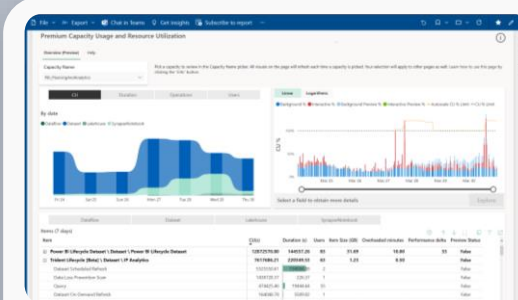
## Admin monitoring

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



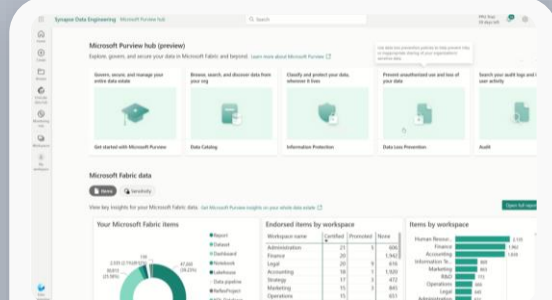
## Monitor

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

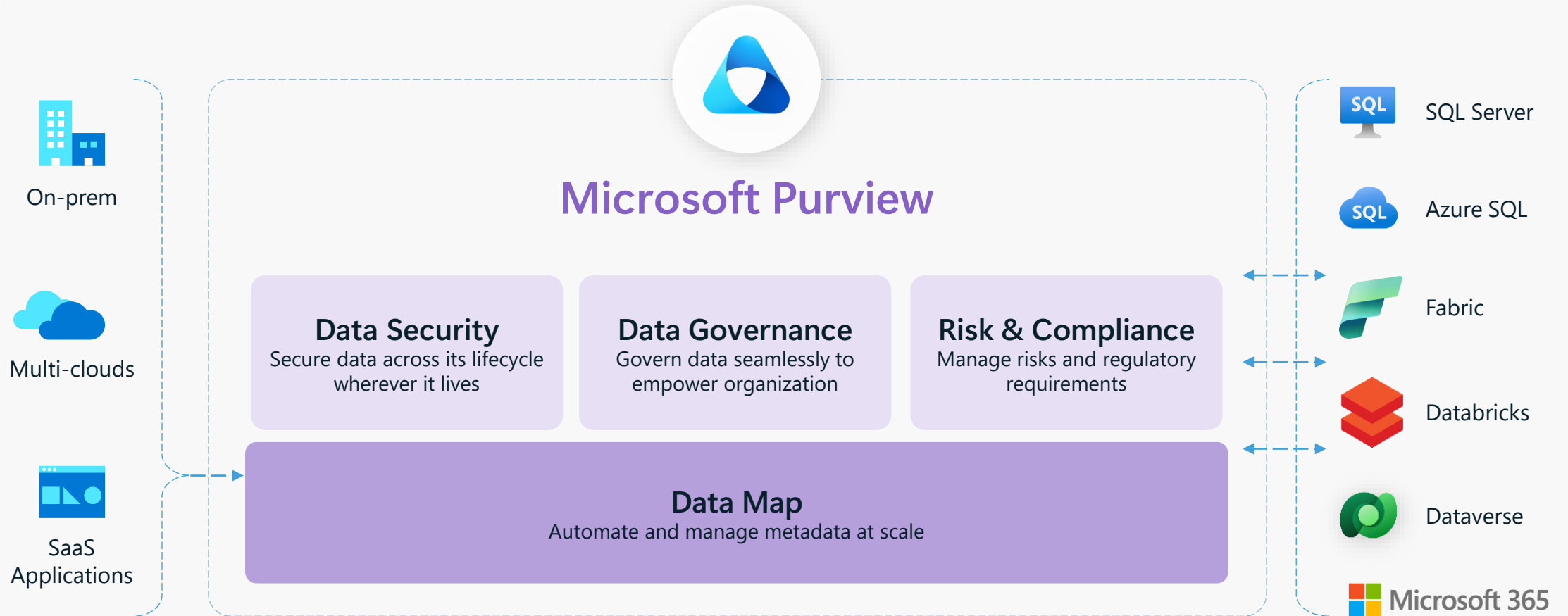


Unstructured & structured data



Across IaaS, and SaaS

# Govern and secure your data estate



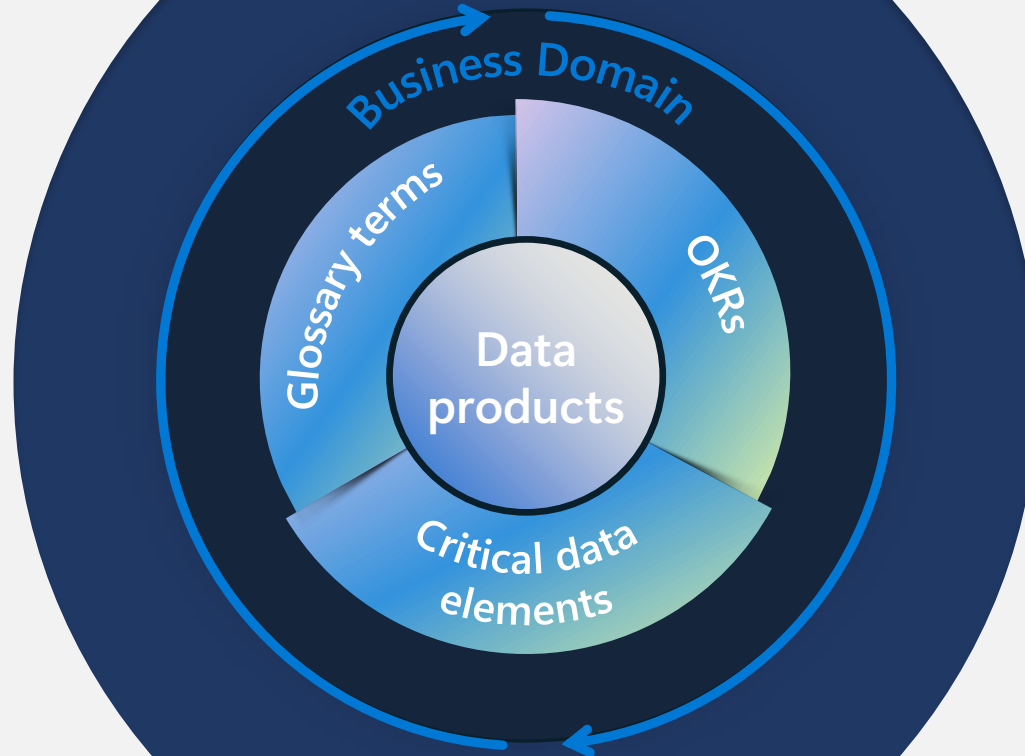
# Demo

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

 Filter by keyword

 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

 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

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

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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

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

5/23

5/25

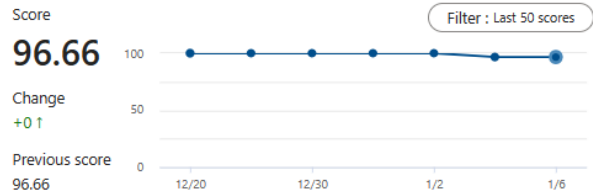
Filter : Last 50 scores



# 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**

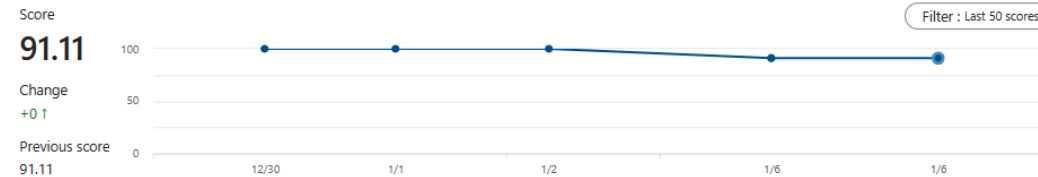
View all

Total scans  
in last 30 days

**5**

View all

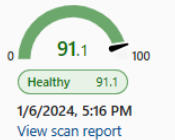
### Quality score trend



### 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

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			
 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

Data quality asset

Customer

Business domain owner

Wolfgang Strasser

Finding subtype

Data asset quality rule score

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.

Job type

Data quality assessment

Active

18 days

Business domain

S Sales

Finding type

Data Quality Management

Action ID

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

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



Filter by keyword

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



Assigned to: All Business domain: All Active since: Last 30 days X 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></div>	Compliant data use	Missing terms of use on data produ
Data Quality Management	6	<div></div>	Data asset quality rule score, +2 more	Data asset quality rule score has fal
Trusted Data	2	<div></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

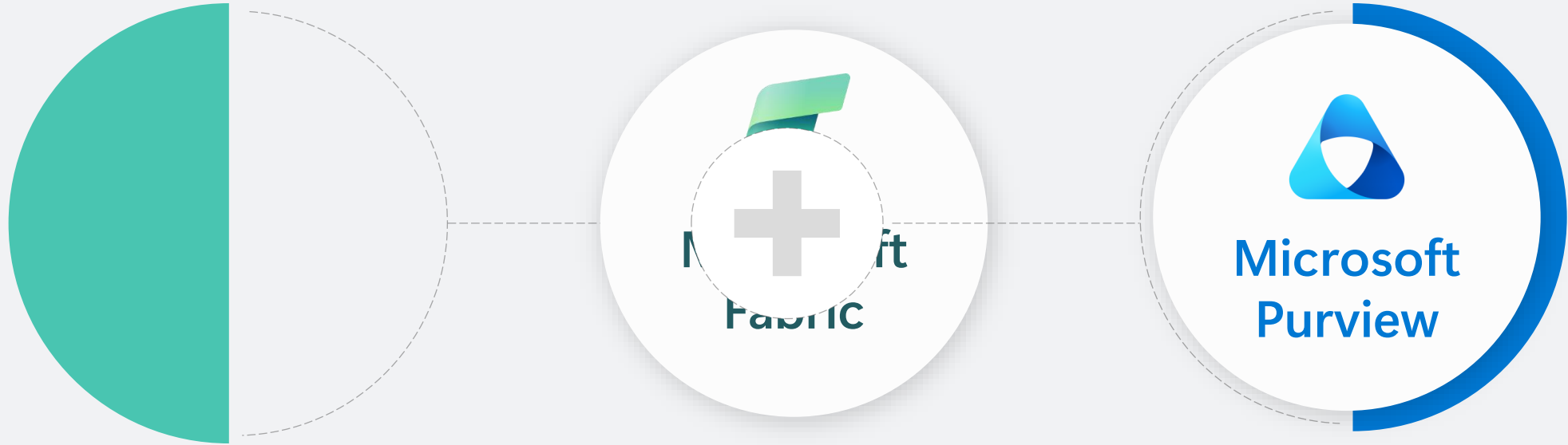
Draft reports  
0

Showing 7 of 7

Filter by keyword

Report name ↑	Report type	Last updated	Status
Assets	System	6/11/2024, 10:45 AM	✓ Active
Catalog adoption	System	6/11/2024, 10:45 AM	✓ Active
Classifications	System	6/11/2024, 10:45 AM	✓ Active
Data governance	System	6/10/2024, 8:39 PM	✓ Active
Data stewardship	System	6/11/2024, 10:45 AM	✓ Active
Glossary	System	6/11/2024, 10:45 AM	✓ Active
Sensitivity labels	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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