

Reveal your Power BI platform: Tenant Manager and Data Access Catalogue

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2024



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 **easydash**

Introduction



JOLANTA GARLACZ



~15 years in IT



Business Intelligence



BI Consultant

Lead Engineer, Power BI platform owner & administrator at



ANDREA MARTORANA TUSA



~26 years in IT



Microsoft MVP, Data Platform



Data Geek and BI specialist

Product Manager, Power BI platform co-owner & administrator at

PANDORA



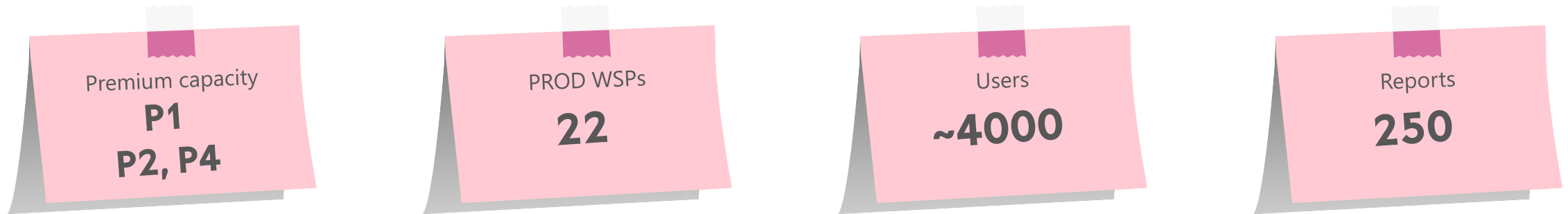
Agenda

1. Admin workspace
2. Purview vs custom solution
3. Tenant Manager
4. Data and Access Catalogue



Platform in numbers

Enterprise Solution



Self-Service Solution – the controlled part



Admin workspace

25 min.



Your troubles as Admin ...

1. Users left the company without handing over a report?
2. Who is owning a dataset/report ?
3. Who can access a workspace? How can I limit or control access to it?
4.

What are YOUR troubles as Admin?

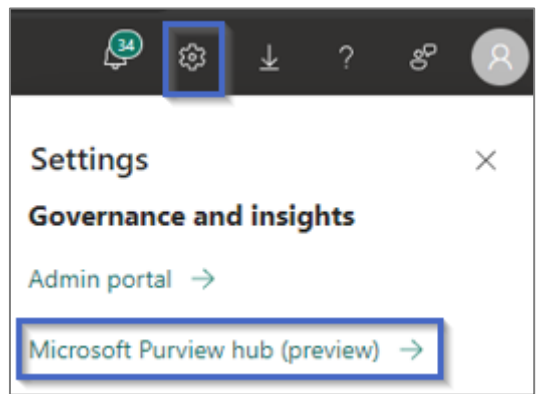
Admin Monitoring workspace

The Admin monitoring workspace is designed to provide admins with monitoring capabilities for their organization. Using the admin monitoring workspace resources, admins can perform security and governance tasks such as audits and usage checks.

Two interesting reports:

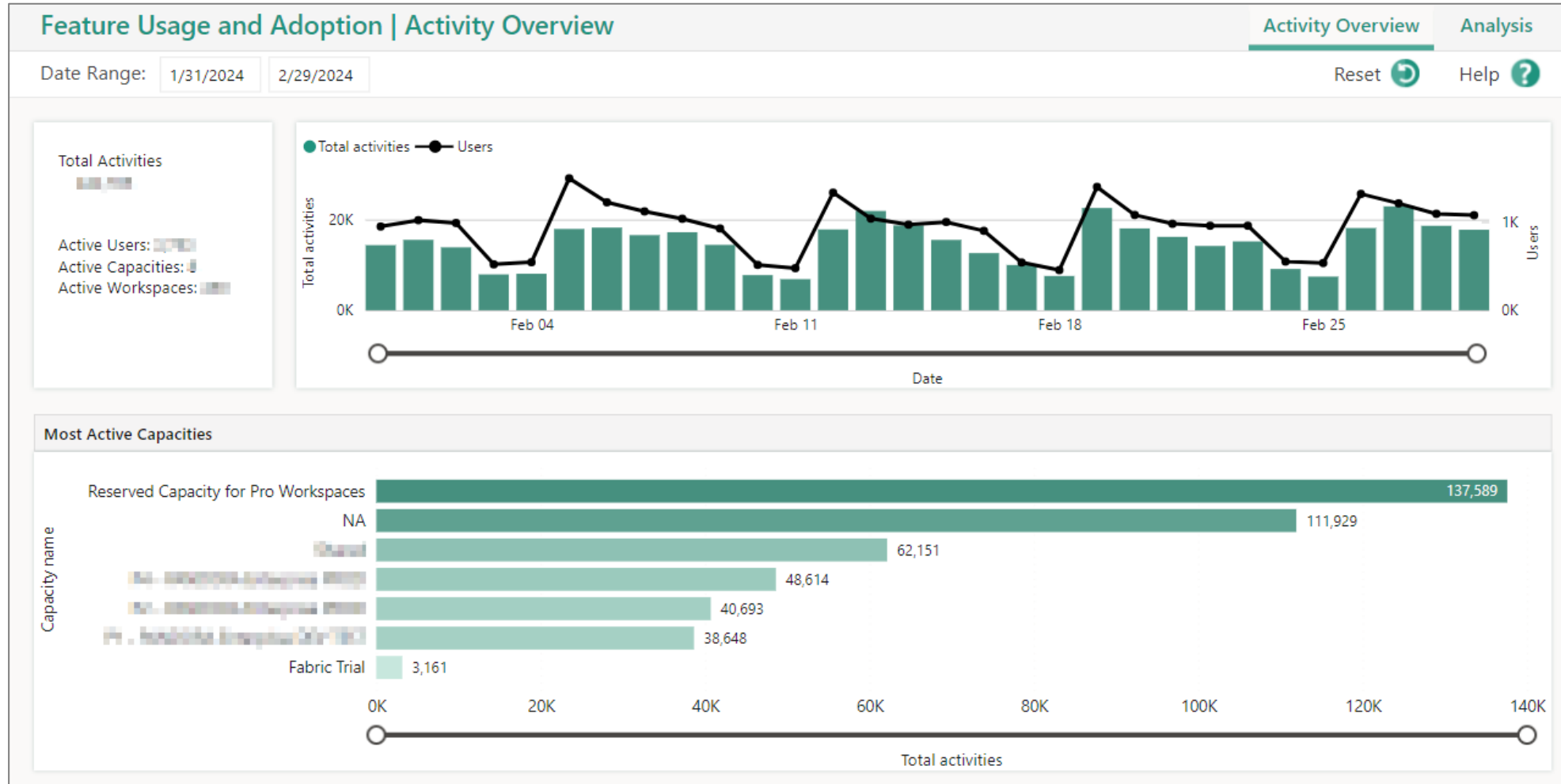
1. Feature Usage and Adoption
2. Purview Hub Insights (Preview)

Fun fact:
Purview Hub can be also accessed from settings pane



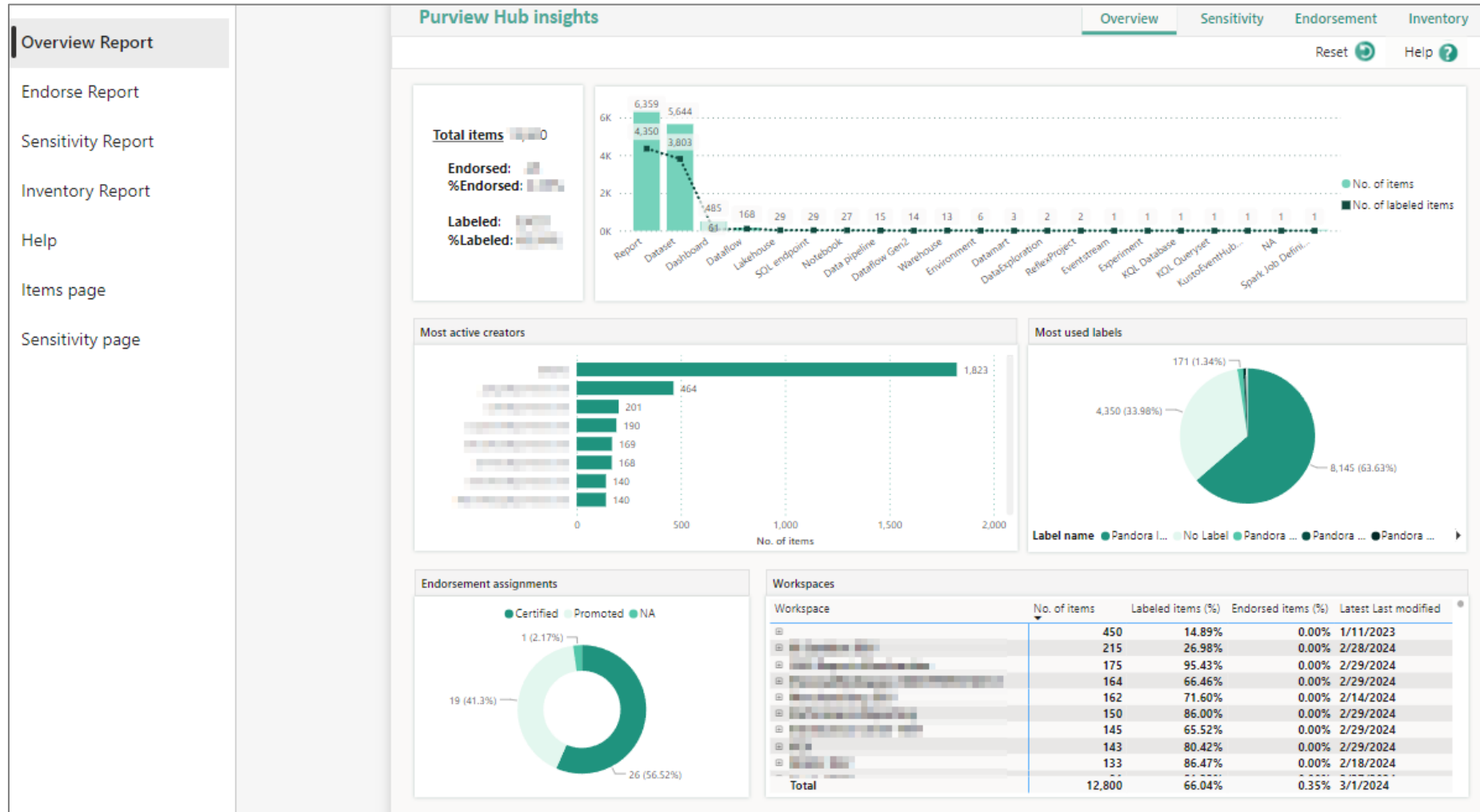
Admin monitoring		
Admin monitoring		
Manage access	Workspace settings	
Name	Type	Owner
Feature Usage and Adoption	Report	Admin monitoring
Feature Usage and Adoption	Semantic model	Admin Monitoring
Purview Hub	Report	Admin monitoring
Purview Hub	Semantic model	Admin Monitoring

Admin Monitoring workspace



<https://learn.microsoft.com/en-us/fabric/admin/feature-usage-adoption>

Admin Monitoring workspace



Real life case

A user would like to get access to a report (or dashboard – he does not know what it is). He is not the owner of the object. He requested access but got no answer. He only knows:

- the report/dashboard name ('test1 – excel')
- and the report/dashboard link

How do YOU find it?



Real life case

1. The easy way – use the link and see where it goes:

<https://app.powerbi.com/groups/me/reports/bffbfd00-a1a1-438b-ae02-882b087957f2/ReportSection?ctid=656793e6-d51d-4bb2-b5fa-c66ddd181a40&experience=power-bi>

Let's get you permission to view this report

Send a request for access below.

Add a note (optional) ^

Send request Cancel



Real life case

2. Let's check Purview Hub → Inventory Report (filter by item type and search by item name)

The screenshot shows the Purview Hub interface. On the left is a sidebar with navigation options: Endorse Report, Sensitivity Report, Inventory Report (highlighted), Help, Items page, and Sensitivity page. The main area displays a table titled 'Tenant's inventory' with columns: Workspace, No. of items, Unlabeled items (%), Endorsed items (%), and Last Modified Date. The table lists various workspaces, with 'General DEV' at the bottom. To the right of the table are filter controls: a date range from 1/1/1990 to 3/21/2023, a workspace search box containing 'test1 -' with 'No results found', and a 'User name' dropdown set to 'All'. On the far right, a 'Filters on this visual' panel shows 'Item name is (All)'. Below it, a 'Filters on all pages' panel shows 'Item type is not blank' and 'Item type is Dashboard or Report'. A 'Filter type' dropdown is set to 'Basic filtering'. A search box is present, and a list of item types is shown: NA (1), Notebook (24), ReflexProject (2), and Report (6266).

Sometimes filters do not help you, remove item type. You can then find related dataset BUT dataset name are not always the same as report name. Better use **Item ID** in 'Explore Data' feature



Real life case

3. Let's check Purview Hub → Inventory Report → Explore Data (preview)

User may send you different links, but the object ID is somewhere there:

<https://app.powerbi.com/groups/me/reports/bffbfd00-a1a1-438b-ae02-882b087957f2/ReportSection?ctid=656793e6-d51d-4bb2-b5fa-c66ddd181a40&experience=power-bi>

The screenshot shows a Power BI report interface. At the top, there are three filters: 'Item ID is bffbfd00-a1a1-438b-ae0...', 'Item type is not blank', and 'Workspace name is not or (Blank)'. Below the filters is a 'Matrix' visualization. The matrix has columns for 'Item ID', 'a@pandora.net', and 'Total'. The first row is expanded to show 'test1 - excel' and 'Jolanta Garlacz'. Below the matrix is a 'Visual' toolbar with options for 'Visual', 'Sort', and 'Drill'. At the bottom, a table displays the following data:

Item ID	Email	Item name	Name	Workspace name
bffbfd00-a1a1-438b-ae02-882b087957f2	a@pandora.net	test1 - excel	Jolanta Garlacz	PersonalWorkspace 10032000C6CFC1D5

Use the user name or workspace name to find out more about the workspace status and if necessary, overtake it to get the report



Q&A



Purview vs custom solution

10 min.



What is missing admin workspace?

What is missing?

1. Historical records (Usage and Adoption).
2. No comparison to previous period – for example last year – to be checked.
3. Users' access and details.
4. Limited options of slicing and dicing data.
5. Data model is a black box

Our solution vs admin workspace

Why not Microsoft Purview/Admin workspace?

1. We wanted full control over our tenant and full governance over our data
2. We started the Tenant Manager project when Purview/admin WSP was at an early stage
3. Purview is still missing some metadata about Capacities, Apps, Gateways, ... (March 2024)
4. Purview is based on the same set of API we are running daily. The Scanner API – but our is more up to date.
5. Active Directory data is not included in Purview. It is crucial for our assessment.
6. Endorsement and sensitivity labels for datasets, not available at the time we started.
7. Overall basic reporting on sensitivity labels but we needed more sophisticated solution
8. As a company we do not use Purview, we can only see insights available in Admin workspace. We do not have access to the full features that Purview offers.

Q&A



Tenant Manager

45 min.



Tenant Manager

The **Tenant Manager** is an in-house, fully automated solution to collect metadata for the Power BI tenant.

The data collection is achieved through a series of calls for the Power BI Admin APIs. The output of each call is saved, transformed and stored into a datawarehouse.



Tenant Manager

What kind of questions we want to address with the Tenant Manager?

- Give high level overview about our platform (Premium capacity, WSPs, SSBI vs Enterprise, users, real data and number of datasets and reports etc.)...
- We can drill through to different levels of WSPs or datasets to validate if they are compliant
- Access – who has access to what in our platform – lineage user-report-dataset-datasource
- Data catalogue – very important for our Self-service BI users
- Useful for clean-up exercise (important especially on Premium capacity)
- ...

The Tenant Manager goes along with the *adoption & measurement* metrics we collect from the Power BI audit logs to have a fully managed environment where all the data we need is stored in the same location.

Tenant Manager

What are we collecting?

Pandora's Power BI tenant metadata:

- Workspaces
- Workspace users
- Capacities
- Capacity admins
- Reports
- Dashboards
- Apps
- App users
- Dataflows
- Datasets
- Dataset Users
- Datasources
- Dataset refresh schedule
- Dataset refresh history
- ...



Tenant Manager

How do we collect? -> Through REST APIs

- **Power BI API**
 - Admin
 - Capacities
 - Datasets
- **MS Graph API**
 - AAD Groups
 - AAD Groups members
 - AAD Users
- **Power BI Scanner API** (we collect the same sets as Purview does)

Power BI REST API

Using the Power BI REST APIs

Article • 07/14/2022 • 2 minutes to read • 6 contributors

[Feedback](#)

The Power BI REST APIs provide service endpoints for embedding, administration, governance and user resources.

With Power BI REST APIs you can do the following:

- Manage Power BI content
- Perform admin operations
- Embed Power BI Content

Power BI REST API

REST Operation groups

This table lists the Power BI REST API operation groups.

Operation group	Description
Admin	Operations for working with administrative tasks.
Apps	Operations for working with Apps.
Available Features	Operations that return available features.
Capacities	Operations for working with capacities.
Dashboards	Operations for working with dashboards.
Dataflow Storage Accounts	Operations for working with dataflow storage accounts.
Dataflows	Operations for working with dataflows.
Datasets	Operations for working with datasets.
Embed Token	Operations for working with embed tokens.
Gateways	Operations for working with gateways.
Groups	Operations for working with groups.
Imports	Operations for working with imports.
Pipelines	Operations for working with deployment pipelines.
Push Datasets	Operations for working with push datasets.
Reports	Operations for working with reports.
Template Apps	Operations for working with Template Apps.
Users	Operations for working with users.

Scanner API

The **Power BI scanner API** is a set of admin APIs which allows you to collect and catalogue metadata from your tenant.

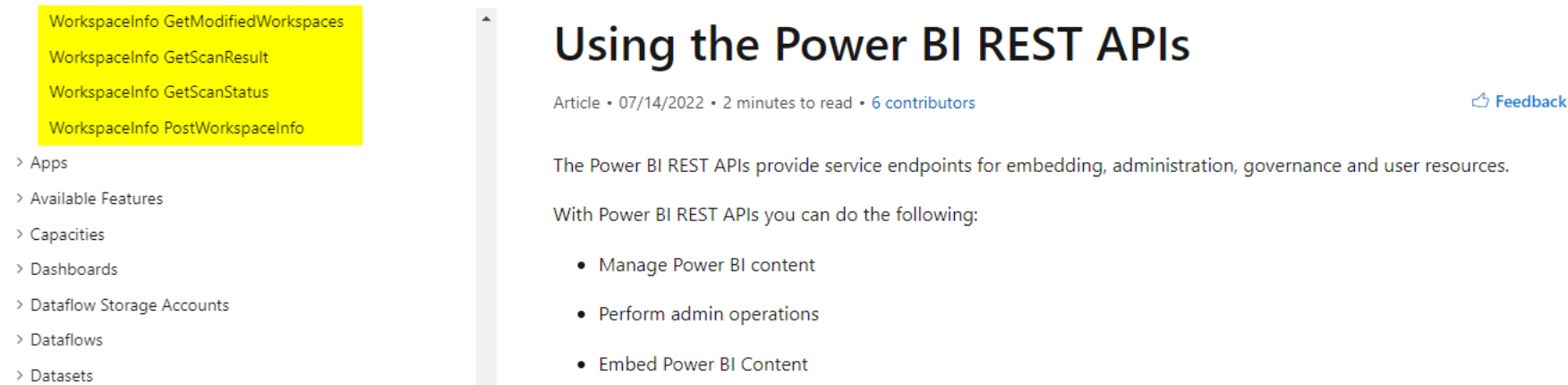
With the scanner API you can extract information about your entire Power BI tenant such as:

- Workspaces
- Datasets with details for each table
- Data sources
- Sensitivity label
- Endorsement status
- ...



Scanner API

The **scanner API** set is made of four different REST APIs under the “Admin” domain



The screenshot shows a sidebar navigation menu on the left with the following items: > Apps, > Available Features, > Capacities, > Dashboards, > Dataflow Storage Accounts, > Dataflows, > Datasets. The main content area is titled 'Using the Power BI REST APIs' and includes a 'Feedback' link. The article text states: 'The Power BI REST APIs provide service endpoints for embedding, administration, governance and user resources. With Power BI REST APIs you can do the following:' followed by a bulleted list: '• Manage Power BI content', '• Perform admin operations', and '• Embed Power BI Content'.

- **GetModifiedWorkspaces**
- **WorkspaceGetInfo**
- **WorkspaceScanStatus**
- **WorkspaceScanResult**



Scanner API

Get Modified Workspaces

Gets a list of workspace IDs in the organization.

With parameters:

- `excludeInactiveWorkspaces`
- `excludePersonalWorkspaces`
- `modifiedSince`

The use of the parameter `modifiedSince` enables to return only the workspaces that are changed after the set date-time.

In this way you can perform an **incremental refresh** for your environment, rather than a full load every time you call the API.



Scanner API

Get Modified Workspaces

Sample request

```
GET https://api.powerbi.com/v1.0/myorg/admin/workspaces/modified?modifiedSince=2020-10-02T05:51:30.000000Z&excludePersonalWorkspaces=True&excludeInactiveWorkspaces=True
```

Sample response

```
JSON Copy  
[  
  {  
    "Id": "3740504d-1f93-42f9-8e9d-c8ba9b787a3b"  
  },  
  {  
    "Id": "19cb346c-9839-4e19-81e6-76364d0b836f"  
  }  
]
```



Scanner API

DEMO

Filter by title

- Pipelines GetPipelinesAsAdmin
- Pipelines UpdateUserAsAdmin
- Profiles DeleteProfileAsAdmin
- Profiles GetProfilesAsAdmin
- Reports GetReportSubscriptionsAsAdmin
- Reports GetReportUsersAsAdmin
- Reports GetReportsAsAdmin
- Reports GetReportsInGroupAsAdmin
- Rotate Power BI Encryption Key
- Users GetUserArtifactAccessAsAdmin
- Users GetUserSubscriptionsAsAdmin
- WidelySharedArtifacts LinksSharedToWholeOrganization
- WidelySharedArtifacts PublishedToWeb
- WorkspaceInfo GetModifiedWorkspaces**
- WorkspaceInfo GetScanResult
- WorkspaceInfo GetScanStatus
- WorkspaceInfo PostWorkspaceInfo

- > Apps
- > Available Features
- > Capacities
- > Dashboards
- > Dataflow Storage Accounts
- > Dataflows
- > Datasets
- > Embed Token
- > Gateways
- > GoalNotes (Preview)
- > GoalValues (Preview)
- > Goals (Preview)
- > GoalsStatusRules (Preview)
- > Groups
- > Imports
- > Pipelines
- > Profiles

Download PDF

Learn / Power BI REST APIs / Admin /

Admin - WorkspaceInfo GetModifiedWorkspaces

Reference

Feedback

Service: Power BI REST APIs
API Version: v1.0

Gets a list of workspace IDs in the organization.

If the optional `modifiedSince` parameter is set to a date-time, only the IDs of workspaces that changed after that date-time are returned. If the `modifiedSince` parameter isn't used, the IDs of all workspaces in the organization are returned. The date-time specified by the `modifiedSince` parameter must be in the range of 30 minutes (to allow workspace changes to take effect) to 30 days prior to the current time.

Permissions

The user must have administrator rights (such as Microsoft 365 Global Administrator or Power BI Service Administrator) or authenticate using a service principal.

When running under service principal authentication, an app **must not** have any admin-consent required permissions for Power BI set on it in the Azure portal.

Required Scope

Tenant.Read.All or Tenant.ReadWrite.All

Relevant only when authenticating via a standard delegated admin access token. Must not be present when authentication via a service principal is used.

Limitations

Maximum 30 requests per hour.

```
HTTP Copy Try It
GET https://api.powerbi.com/v1.0/myorg/admin/workspaces/modified
```

With optional parameters:

```
HTTP Copy
```

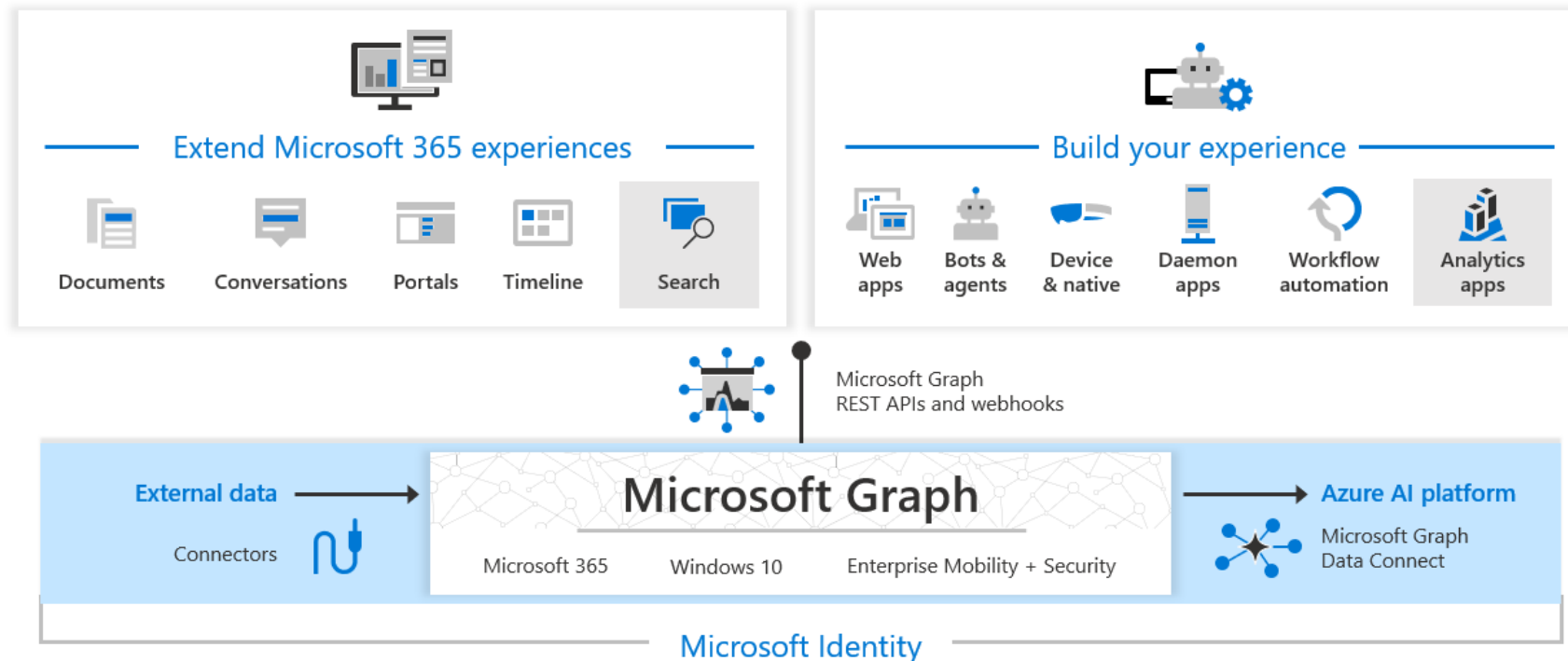
In this article

- Permissions
- Required Scope
- Limitations
- URI Parameters

Show more

Graph API

Microsoft 365 Platform



Microsoft Graph is a Microsoft API developer platform that connects multiple services and devices such as Windows, Microsoft 365, Azure ...

Graph API

Version

Microsoft Graph REST API v1.0

Filter by title

- Overview of Microsoft Graph
- > Authentication and authorization
- > Use the API
- > Migrate
- > Use SDKs
- > Use the toolkit
- > Resources
- > API v1.0 reference
 - Overview**
 - > Users
 - > Groups
 - > Applications
 - > Calendars
 - > Change notifications
 - > Compliance
 - > Cross-device experiences
 - > Customer booking
 - > Device and app management
 - > Cloud printing
 - > Corporate management
 - > Service health and communications
 - > Education
 - > Extensions
 - > Files
 - > Identity and access
 - > Mail
 - > Notes
 - > People and workplace intelligence
 - > Personal contacts

Learn /



Microsoft Graph REST API v1.0 endpoint reference

Article • 07/01/2022 • 2 minutes to read • 10 contributors

[Feedback](#)

Welcome to Microsoft Graph REST API reference for the v1.0 endpoint.

API sets on the v1.0 endpoint (<https://graph.microsoft.com/v1.0>) are in general availability (GA) status, and have gone through a rigorous review-and-feedback process with customers to meet practical, production needs. Updates to APIs on this endpoint are additive in nature and do not break existing app scenarios.

Common use cases

The power of Microsoft Graph lies in easy navigation of entities and relationships across different services exposed on a single Microsoft Graph REST endpoint.

A number of these services are designed to enable rich scenarios around a [user](#) and around a [group](#).

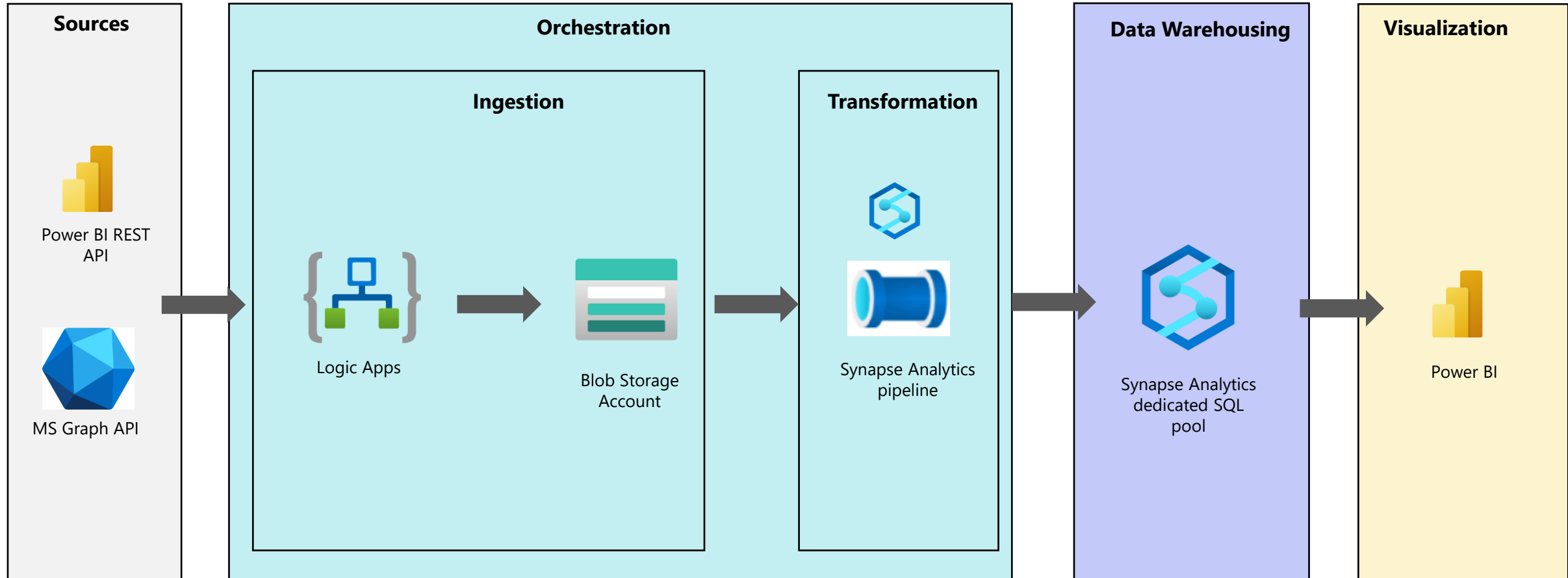
User-centric use cases in v1.0

1. [Get the profile and photo](#) of a user, Lisa.
2. [Get the profile information about Lisa's manager](#) and [IDs of her direct reports](#), all stored in Azure Active Directory.
3. [Access Lisa's files on OneDrive for Business](#), find the [identity](#) of the last person who modified a [file](#) there, and navigate to that person's profile.
4. [Access Lisa's calendar](#) on Exchange Online and [determine the best time for Lisa to meet with her team](#) in the next two weeks.
5. [Subscribe to and track changes](#) in Lisa's calendar, tell Lisa when she is spending more than 80% of her time in meetings.
6. [Set automatic replies](#) when Lisa is away from the office.
7. [Get the people who are most relevant to Lisa](#), based on communication, collaboration, and business relationships.
8. Get the latest sales projection from a [chart](#) in an Excel file in Lisa's OneDrive for Business.
9. [Find the tasks assigned to Lisa in Planner](#).



Graph API

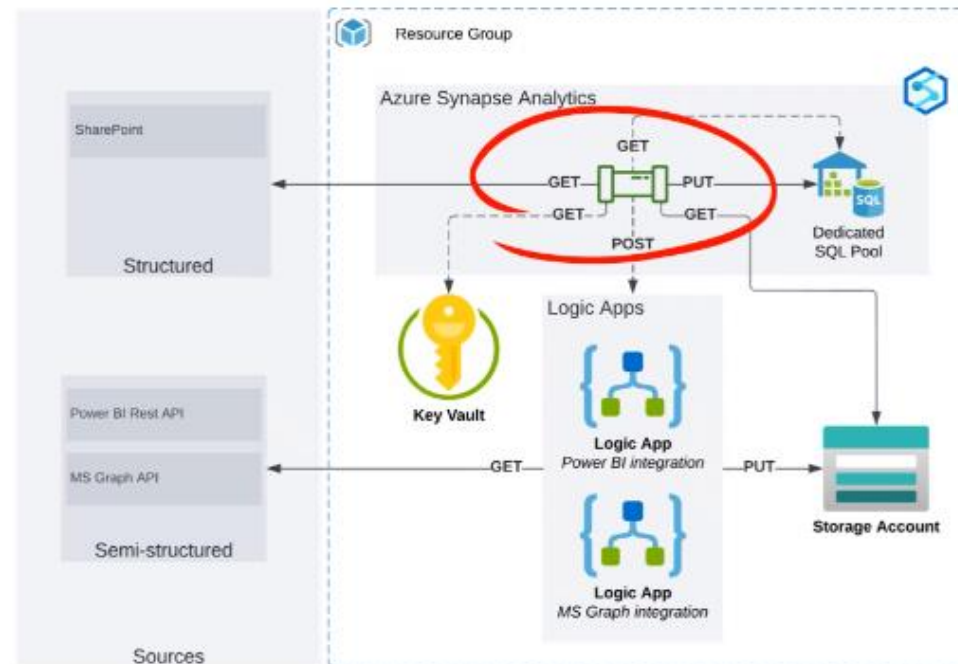
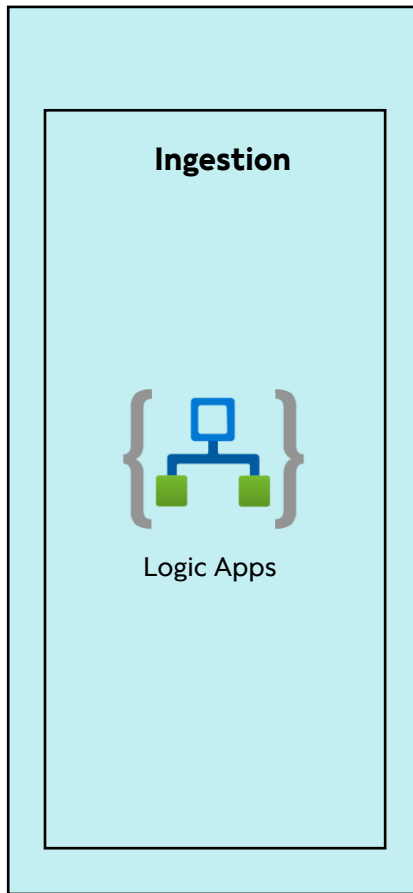
Solution blueprint



Logic Apps

The full set of API calls is handled through two Logic Apps: one for **Power BI**, one for MS **Graph**.

Logic Apps are fully parameterized and can handle several cases in the same app, based on the input parameters.

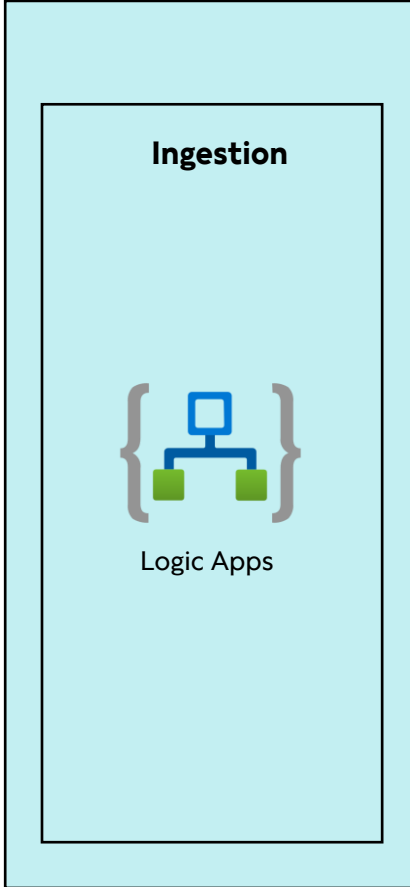


Why using Logic App, rather than pipelines for calling the API? Because they are way cheaper!



Power BI Logic Apps

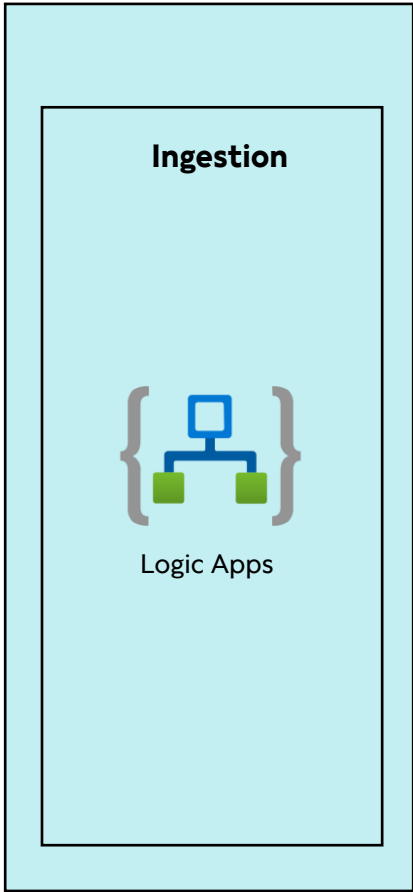
DEMO



The screenshot shows the Microsoft Azure Logic Apps Designer interface in a web browser. The browser's address bar shows the URL: https://portal.azure.com/#view/Microsoft_Azure_EMA/LogicAppsDesignerBlade/id/%2Fsubscriptions%2F61492769-8065-4a48-a585-26fc93423034%2FresourceGroups%2FOSWEU1-EDWD-AUDIT-001-RG%2Fproviders%2FMicrosoft.Logic%2Fworkflows%2Fosweu1-powerbi-sit-aud-001-la. The page title is "Microsoft Azure" and the breadcrumb navigation shows "Home > Resource groups > OSWEU1-EDWD-AUDIT-001-RG > osweu1-powerbi-sit-aud-001-la > Logic Apps Designer". The interface includes a toolbar with options like "Save", "Discard", "Run Trigger", "Designer", "Code view", "Parameters", "Templates", "Connectors", "Help", and "Info". The main workspace displays a workflow with the following steps: "When a HTTP request is received" (trigger), "Initialize WorkspaceArray" (action), "Initialize scanStatus" (action), "Switch - Evaluate cases" (control), and "POST to Pipeline" (action). A "+ New step" button is located at the bottom of the workflow.



MS Graph Logic App

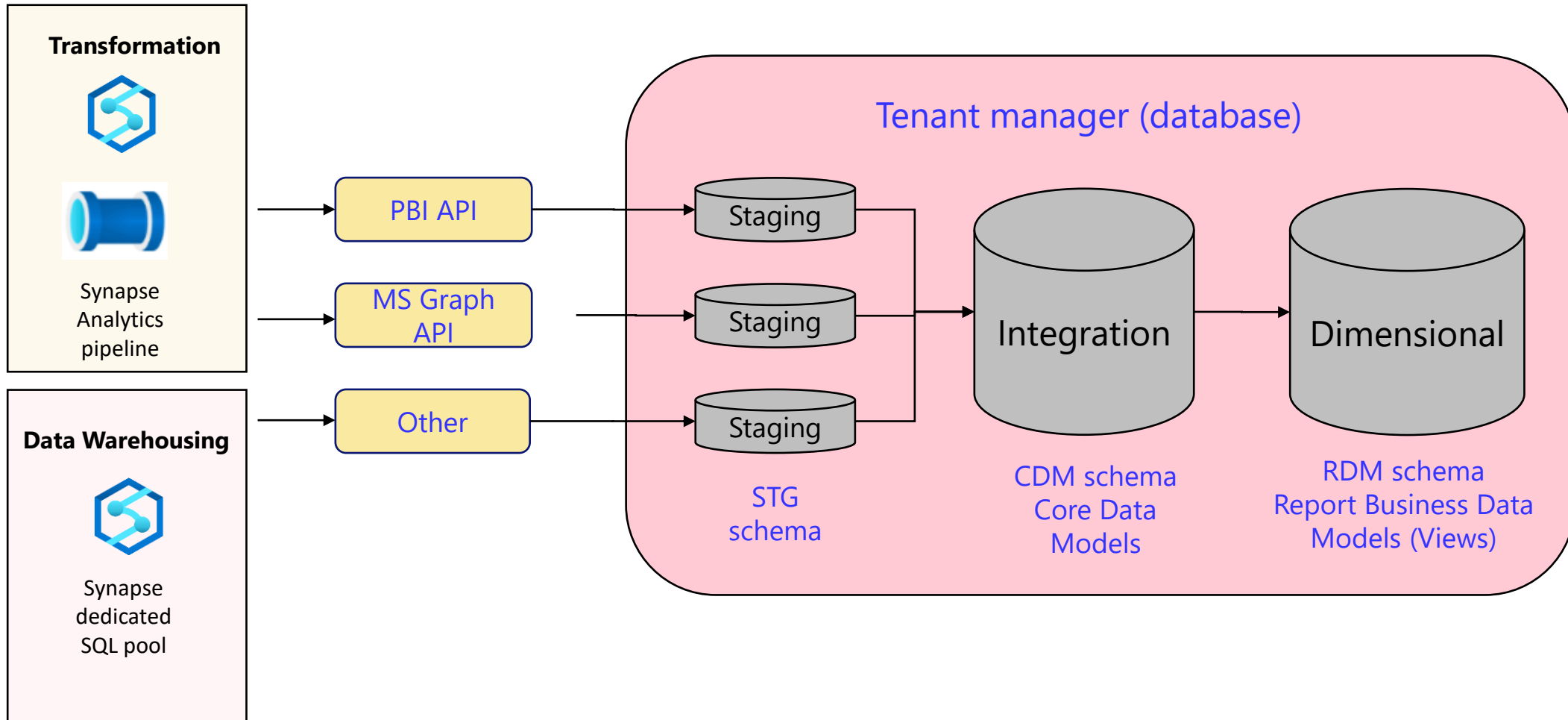


The screenshot shows the Microsoft Azure Logic Apps Designer interface. The browser address bar shows the URL: https://portal.azure.com/#view/Microsoft_Azure_EMA/LogicAppsDesignerBlade/id/%2Fsubscriptions%2F61492769-8065-4a48-a585-26fc93423034%2FresourceGroups%2FOSWEU1-EDWD-AUDIT-001-RG%2Fproviders%2FMicrosoft.Logic%2Fworkflows%2Fosweu1-msgraph-sit-aud-001-ia. The page title is "Logic Apps Designer". The workflow is displayed in a visual designer view with the following steps:

- When a HTTP request is received
- Condition - Check If Collection is provided
- HTTP - POST Failed Run (connected to the 'No' branch of the condition)
- HTTP - POST Successful Run (connected to the 'Yes' branch of the condition)

A "+ New step" button is visible below the workflow steps. The interface includes a search bar at the top right and a taskbar at the bottom of the window.

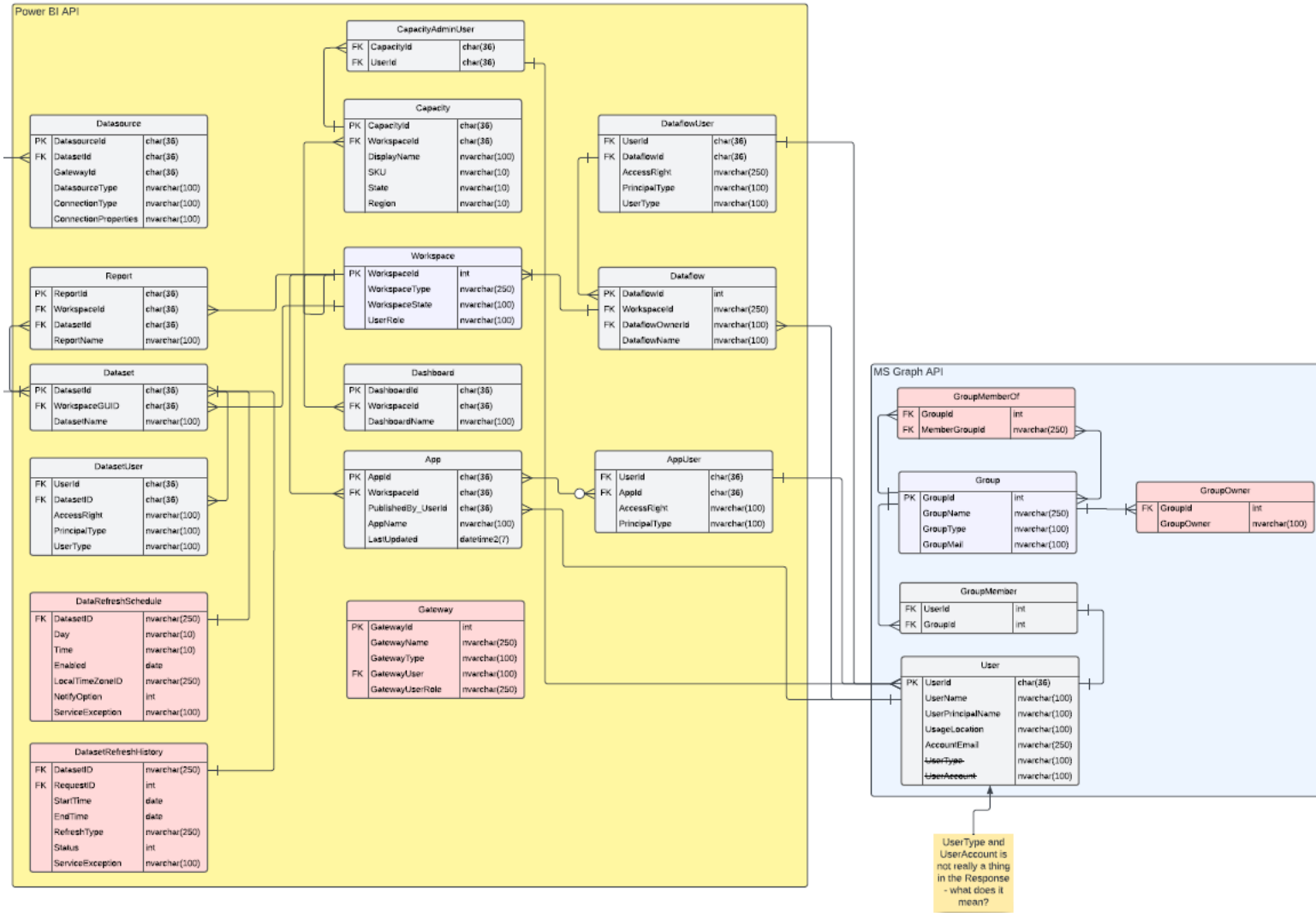
Transformation



Data Model

Data Warehousing

Synapse dedicated SQL pool





Data Warehouse

DEMO

Data Warehousing



Synapse dedicated SQL pool

SQL Query 1.sql - osweu1-edwd-sit-aud-001-synws.sql.azure.synapse.net.Monitoring (anmtu@pandora.net (139)) - Microsoft SQL Server Management Studio

```

SELECT * FROM [stg].[PowerBI_WorkspaceModified]
--
SELECT id, reportType, datasetId, createdDateTime, WorkspaceGuid
FROM [stg].[PowerBI_Reports]
--
SELECT
    ReportId, DatasetId, createdDateTime, WorkspaceGuid, LabelId, Endorsement
FROM [rdm_tm].[DimReports]
--
SELECT
    dd.DatasetId, dd.WorkspaceGuid, dd.LabelId, dd.Endorsement
    , ddu.AccessRight, ddu.PrincipalType, ddu.DatasetUserId
FROM [rdm_tm].[DimDatasets] dd
INNER JOIN [rdm_tm].[DimDatasetUsers_GroupMembers] ddu
ON dd.DatasetId = ddu.DatasetId
ORDER BY dd.DataSetId
--
SELECT
    dd.DatasetId, dd.WorkspaceGuid, dd.LabelId, dd.Endorsement
    , dds.DataSourceType, dds.ConnectionType, dds.ConnectionProperties
FROM [rdm_tm].[DimDatasets] dd
INNER JOIN [rdm_tm].[DimDataSources] dds
  
```

DatasetId	WorkspaceGuid	LabelId	Endorsement	DataSourceType	ConnectionType	ConnectionProperties
1082ac70-c5aa-4eeb-b40b-cdeed00cd7b45	23114222-0962-4229-b1e4-4390cf2744a9	NULL	NULL	Sql	server	osseasrv221
0b7339da-aba4-40c4-966d-19b8dae9bd4	6ec3d749-bbb5-47c4-93e4-c2324d6979b	b8967ca-063e-4224-91eb-8a3fcaeb319	NULL	Extension	path	PowerBI
17c73af6-b263-48fa-aa74fe5cac3af5e7	0e80523-89b3-4865-82aa-df58f4835818	NULL	NULL	File	path	v:\kpld & gbu relations\4. gbu relations\4.4 production ...
0759b56-34f8-4d4e-9800-da91d888e0d4	cc7061eb-fcd0-4544-9b24-fa5ea373534	NULL	NULL	AnalysisServices	server	bicube
044b12ef-7bc9-45c1-b367-ac69f85e3033	9fd29b7e-4e45-4327-ad3e-c5269fa9e9b7	b8967ca-063e-4224-91eb-8a3fcaeb319	NULL	Sql	server	osweu1-edwd-dev-dw-001-synws.sql.azure.synapse.net
01fb16a-09be-475c-8401-9d375c6e2af	94270065-f680-40ce-bc79-aa431f42e40	b8967ca-063e-4224-91eb-8a3fcaeb319	NULL	File	path	c:\users\glog\onedrive - pandora\bonded warehouse...
06a831af-1c6f-404d-9d5c-ae7a13c43c00	7fa33bd-15a9-45a8-b444-40e2ee52b74	b8967ca-063e-4224-91eb-8a3fcaeb319	NULL	AnalysisServices	server	powerbi://api.powerbi.com/v1.0/myorg/asc
0893e56-2b01-4a57-ad15-298a4d9337b6	7c61e5a-aeaa-4797-8f6a-62d898eb671a	b8967ca-063e-4224-91eb-8a3fcaeb319	NULL	File	path	x:\019_ppt2.14_front_end\00_public\id phase for fe4fn...
1abce74c-ddd0-4d3a-9e0c-adeae820497d	ca35b911-38d6-4777-a1bc-eacbf229d9b7	34404558-6ce0-46c7b5c5-21c77c1da193	Promoted	Web	url	https://pandora.net.my.sharepoint.com/personal/panna...
0e2f090fc2a-4eef-df04-167939e26a14	176e1dc4-40c3-45d0-9ed5-c6d1edeb248	NULL	NULL	Sql	server	osweuq007
11a5b1d7-cf2d-4ca5-abf2-258cab05d4f	9fd29b7e-4e45-4327-ad3e-c5269fa9e9b7	NULL	NULL	Extension	path	UsageMetricsDataConnector
1278277d-f36-44a4-a21c-c54ba9b5e92a	fb2495a5-fc3d-49bd-9c57-ad31f4eef4d1	NULL	NULL	AnalysisServices	server	azure://westeurope.azure.windows.net/osweu1-ed...
00e79e50-39bc-42c7-b234-0b423855a0f8	630fbee1-5890-4d54-b524-ca21873a54c	NULL	NULL	File	path	c:\users\loda\downloads\financial sample.xlsx
002553be-206c-4d5-963a-92df0981057	6ec3d749-bbb5-47c4-93e4-c2324d6979b	b8967ca-063e-4224-91eb-8a3fcaeb319	NULL	File	path	c:\users\dmyer\onedrive - pandora\documents - global...
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Dead2044-8824-41fa-aeec3-a0fa78a0ac8	b6df1b50-41fa-450b-89d3-0e8880158bb3	b8967ca-063e-4224-91eb-8a3fcaeb319	NULL	File	path	c:\users\polga\onedrive - pandora\general\5_sabi\1. tr...
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01b49f3-96cb-4fa5cc59-15c9e9060d	51740e14-53e1-4652-bdca-4bee8171250	NULL	NULL	Sql	server	msd
08cc6bc2-314f-42bc-cf45-8e72ba17a299	a0e5afbc-09ea-4dce-b34e-c120ca77250a	NULL	NULL	File	path	\?bin\svr57\shans\blat\aba\7_mach\factumg qu...
0060f4d3-c19e-4dfe-999f-62846e022742	fb2495a5-fc3d-49bd-9c57-ad31f4eef4d1	NULL	NULL	Web	url	https://api.easmonitor.com/
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09b7e7ee-4919-43f6-ae8a-339a176d402a	0aee3e34-cd46-43d4-952d-d05142705c44	b09f7ca-063e-4224-91eb-8a3fcaeb319	NULL	Sql	server	osweu1-edwd-sit-aud-001-synws.sql.azure.synapse.net
01f1b2d5-4d6d-49cb80d-c09516a11d0	320310d1-282b-49db830b-11010702a715	af897ca-063e-4224-91eb-8a3fcaeb319	NULL	File	path	c:\users\anmtu\onedrive - pandora\substate\img\1\8...

Query executed successfully.

Q&A

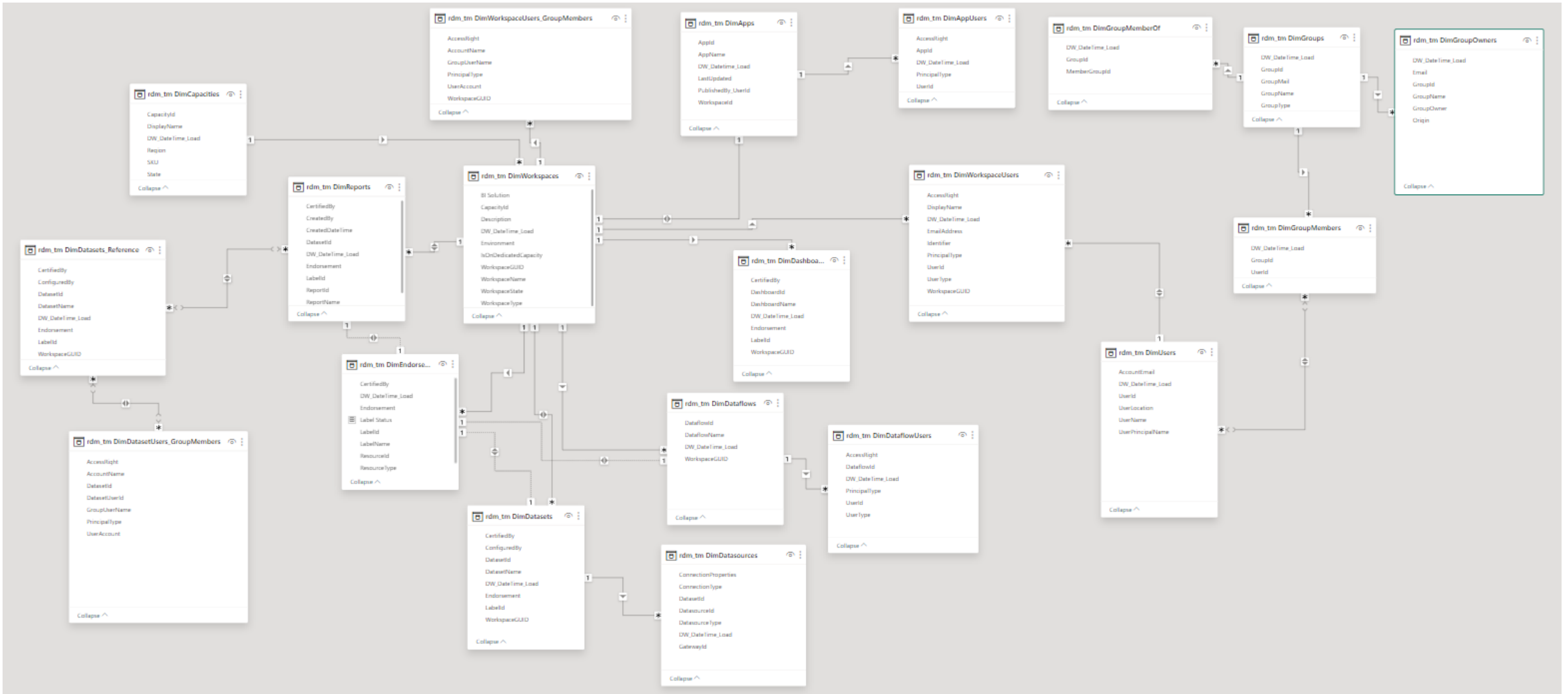


Data and Access Catalogue

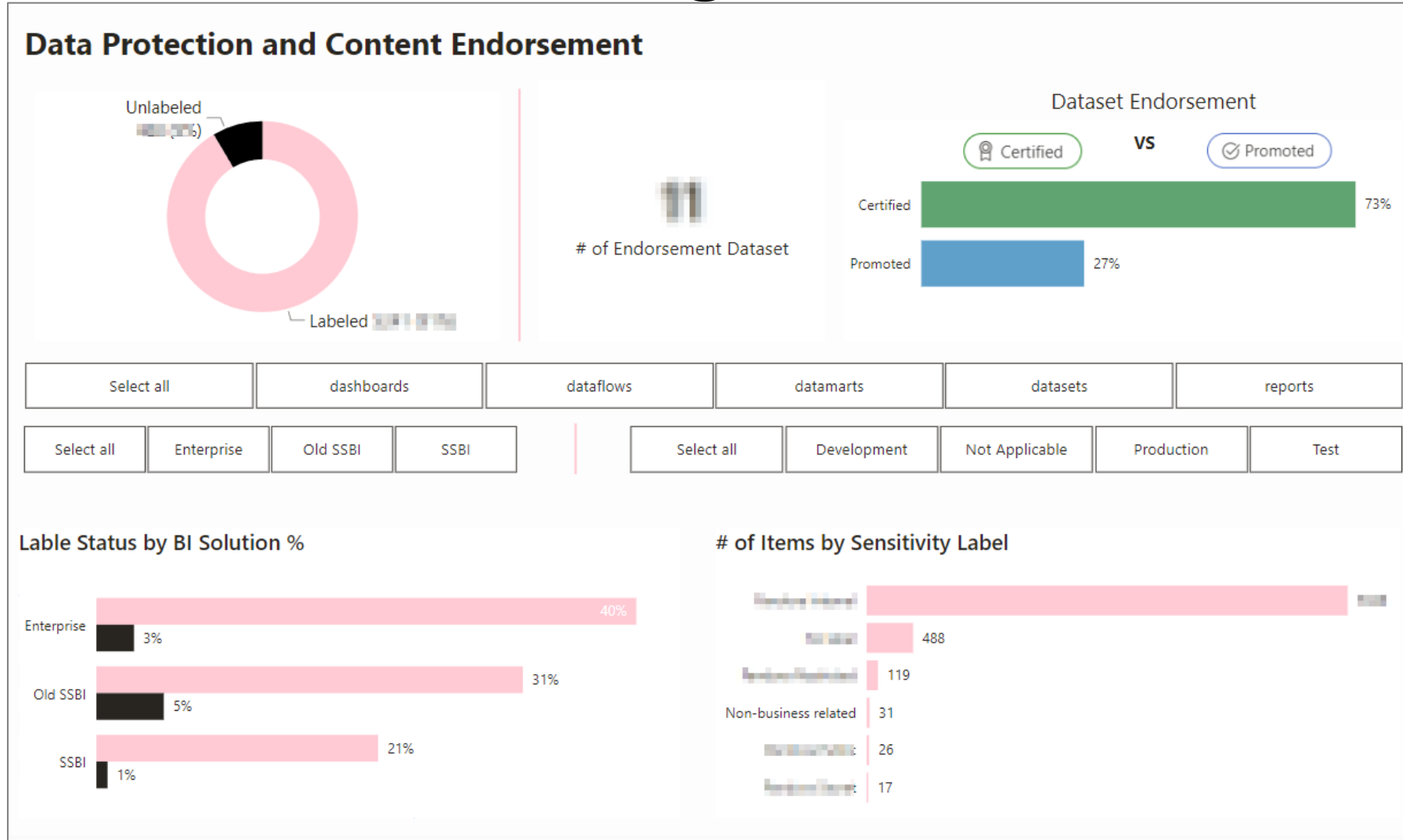
20 min.



Tenant Manager Model



Data and Access Catalogue





DEMO

Data and Access Catalogue

Power BI Inventory

Workspace Name: Public | BI Solution, Environment: All | Access Right: All | UserAccount: All | Endorsement: All

Report Name: All | Report ID: All | Dataset Name: All | Dataset ID: All

DatasetName | ReportName | AccessRight | AccountName | UserAccount

Row Count: 25

BI Solution	Environment	WorkspaceName	DatasetName	ReportName	AccessRight	AccountName
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	Read	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	Read	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...
Enterprise	Production	Public	Dataset - Brand Tracker	Ad Brand	ReadWriteReshareExplore	...

Overview

Capacities: 12 | Workspaces: 15K | Groups: 1111 | Apps: 111 | Datasets: 1111 | Reports: 1111

BI Solution: Select all | Enterprise | Old SSBI | Personal | SSBI

Environment: Select all | Development | Not Applicable | Production | Test

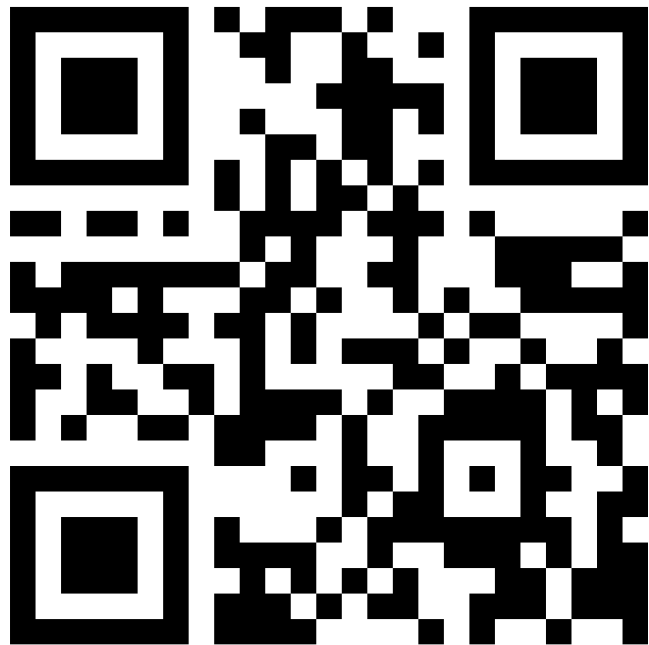
BI Solution by Artifacts

BI Solution	# of Workspaces	# of Reports	# of Datasets	# of Dashboards	# of Apps
Old SSBI	~100	~100	~100	~100	~100
Enterprise	~100	~100	~100	~100	~100
SSBI	~100	~100	~100	~100	~100

Q&A



Session evaluation



Event evaluation

